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Ödsmål. Kville sn, Bohuslän

14 JUNI 1971

Hällristning  
Fiskare från  
bronsåldern

Rock carving  
Bronze age  
fishermen



**MEDDELANDE från  
HAVSFISKELABORATORIET • LYSEKIL**

nr  
84

Hydrografiska avdelningen, Göteborg

Hydrographical Data

1965

R.V. Skagerak

R.V. Thetis

April 1970





HYDROGRAPHICAL DATA

1965

R/V SKAGERAK

R/V THETIS

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## INTRODUCTION

This volume contains data from hydrographic stations worked in 1965 by Swedish research vessels.

In the data lists the stations are recorded in chronological order for each ship. The data lists are preceded by a number of track charts in which the stations have been plotted. Also the track charts are arranged chronologically for each ship.

For each ship the data lists have been split up in two sections: the first of them records temperature, salinity, oxygen content, and meteorological data, whereas the second section records the chemical observations available, as indicated by the code figures in the column headed "Extra info." of the first section.

The following information applies to the figures recorded in the lists.

Country. Code number according to the IGY code. Code number 77 stands for Sweden.

Ship. Number of the vessel of the country in question according to a national code. In this volume the following numbers from the Swedish ship code occur:-

11 "Skagerak"

13 "Thetis"

Both ships are operated by the Fishery Board of Sweden (Göteborg).

Station number. The number of the station for the year and the ship in question. For "Skagerak" there are a couple of gaps in the series of numbers. With regard to the "Thetis" stations it should be mentioned that two stations following immediately after st.no. 85 have been numbered 1085 and 2085, respectively.

Station time. Starting time (to the nearest hour) of the hydrographic station in GMT.

Weather. The following code is used:

- 0 - Clear (no cloud at any level)
- 1 - Partly cloudy (scattered or broken)
- 2 - Continuous layer(s) of cloud(s)
- 3 - Sandstorm, duststorm or storm of drifting snow
- 4 - Fog, thick dust or haze
- 5 - Drizzle
- 6 - Rain
- 7 - Snow, or rain and snow mixed
- 8 - Shower(s)
- 9 - Not observed

Cloud amount. The fraction of the celestial dome covered by cloud, given in eights:

- 0 - No clouds
- 1 - 1/8 or less, but not zero
- 2 - 2/8
- 3 - 3/8
- 4 - 4/8
- 5 - 5/8
- 6 - 6/8
- 7 - 7/8 or more, but not 8/8
- 8 - 8/8
- 9 - Not observed

State of sea. The following code is used:

Code figure	Descriptive term	in metres	Height $\bar{x}$ )	in feet (appr.)
0	Calm (glassy)	0		0
1	Calm (rippled)	0 - 0.1		0 - 1/3
2	Smooth (wavelets)	0.1 - 0.5		1/3- 1 2/3
3	Slight	0.5 - 1.25		1 2/3- 4
4	Moderate	1.25- 2.5		4 - 8
5	Rough	2.5 - 4		8 -13
6	Very rough	4 - 6		13 -20
7	High	6 - 9		20 -30
8	Very high	9 -14		30 -45
9	Not observed			

$\bar{x}$ ) The average wave height as obtained from the larger well-formed waves of the wave system being observed.



Ice. The figures indicate occurrence of ice in the vicinity of the oceanographic station according to the following code:

- 0 - No ice
- 1 - Ice present in vicinity, but not identified as to type or amount (sighted visually or by radar)
- 2 - Few bergs (10 or less)
- 3 - Many bergs (more than 10)
- 4 - Very open or open pack ice (6/10 coverage or less) more than 1 naut. mile distant from the hydrographic or BT observation
- 5 - Close or very close pack ice (more than 6/10 coverage) more than 1 naut. mile distant from the hydrographic or BT observation
- 6 - Very open or open pack ice (6/10 coverage or less), hydrographic or BT observation within ice pack or less than 1 naut. mile away
- 7 - Close or very close pack ice (more than 6/10 coverage), hydrographic or BT observation within ice pack or less than 1 naut. mile away
- 8 - Hydrographic or BT observation actually within very heavy concentration of pack ice, polar pack, fast ice, etc. (observations made from "ice islands", drifting pack, beset vessels, fast ice, or other similar cases)
- 9 - No observation of ice made (possibly due to limited visibility, or because ice observations not a part of the programme or for other reasons)

Depth to bottom. Corrected depth to bottom, in metres, determined while on station.

Temperature. Dry bulb. Reading of the dry bulb thermometer.

Wind direction. The true direction, in tens of degrees, from which the wind is blowing:

Code figure		Code figure	
00	Calm	19	185° - 194°
01	5° - 14°	20	195° - 204°
02	15° - 24°	21	205° - 214°
03	25° - 34°	22	215° - 224°
04	35° - 44°	23	225° - 234°
05	45° - 54°	24	235° - 244°
06	55° - 64°	25	245° - 254°
07	65° - 74°	26	255° - 264°
08	75° - 84°	27	265° - 274°
09	85° - 94°	28	275° - 284°

10	95° - 104°	29	285° - 294°
11	105° - 114°	30	295° - 304°
12	115° - 124°	31	305° - 314°
13	125° - 134°	32	315° - 324°
14	135° - 144°	33	325° - 334°
15	145° - 154°	34	335° - 344°
16	155° - 164°	35	345° - 354°
17	165° - 174°	36	355° - 4°
18	175° - 184°	99	Variable

Mixed layer depth. The thickness, in metres, of the mixed layer, determined by means of a BT trace or other equivalent source. The layer is considered mixed (=isothermal, in this case), if the approximate vertical temperature gradient is less than 0.1°C in any 15 metres and less than 0.6°C in any 200 metres with the upper 2 metres excluded. If the BT observation shows that the mixed layer extends to the bottom of the trace the depth of the trace followed by a + sign is entered for mixed layer depth.

Observation time. The nearest hour (in GMT) for the observation.

Oxygen content is recorded in two ways. In the temperature and salinity sections it is given in ml per litre of water, whereas in the chemical data sections it has been converted to micromols per dm<sup>3</sup>.

Salinity method. Indication of the method used for determination of salinity, according to the following code:

- 1 - Titration by routine Mohr-Knudsen method
- 2 - Titration by special precision method
- 3 - Conductivity measurement by instrument designed to give the salinity permille with a standard deviation of 0.01 or less
- 4 - Conductivity measurement by instrument designed to give the salinity permille with a standard deviation greater than 0.01
- 5 - Refraction index measurement
- 6 - Direct density measurement

Extra information. By code figures in this column is indicated whether or not additional information of physical and chemical nature was collected at the station. The following code is used:

Code  
figure

- 0 - No further information
- 1 - Further information other than chemical



- 2 - Further information plus chemical results
- 3 - Chemical results only, not covered by 4-9
- 4 - Phosphate
- 5 - Phosphate and silicate only
- 6 - Phosphate and nitrate and/or nitrite only
- 7 - Phosphate, silicate and nitrate and/or nitrite only
- 8 - Total phosphorus only
- 9 - Total phosphorus and silicate only

This additional information is recorded in the chemistry sections.

Chlorosity is defined as chlorinity multiplied by the density at 20°C.

It has been computed from the salinity values and is given in grams per  $\text{dm}^3$  at 20°C.

Phosphate content is given as microgram-atoms phosphate phosphorus per  $\text{dm}^3$  of water at 20°C.

Nitrate content is given as microgram-atoms nitrate nitrogen per  $\text{dm}^3$  of water at 20°C.

Nitrite content is given as microgram-atoms nitrite nitrogen per  $\text{dm}^3$  of water at 20°C.

Ammonium content is given as microgram-atoms ammonium nitrogen per  $\text{dm}^3$  of water at 20°C.

pH indicates the hydrogen-ion concentration in situ.

Alkalinity is given in microval per  $\text{dm}^3$  of water at 20°C.

Card code. In the temperature and salinity sections this indicates whether temperature and salinity are observed or interpolated. The following code is used:

- 03 - Temperature and salinity observed
- 83 - Temperature interpolated, salinity observed
- 93 - Temperature observed, salinity interpolated
- 13 - Temperature and salinity interpolated

In the chemistry sections the following code is used:

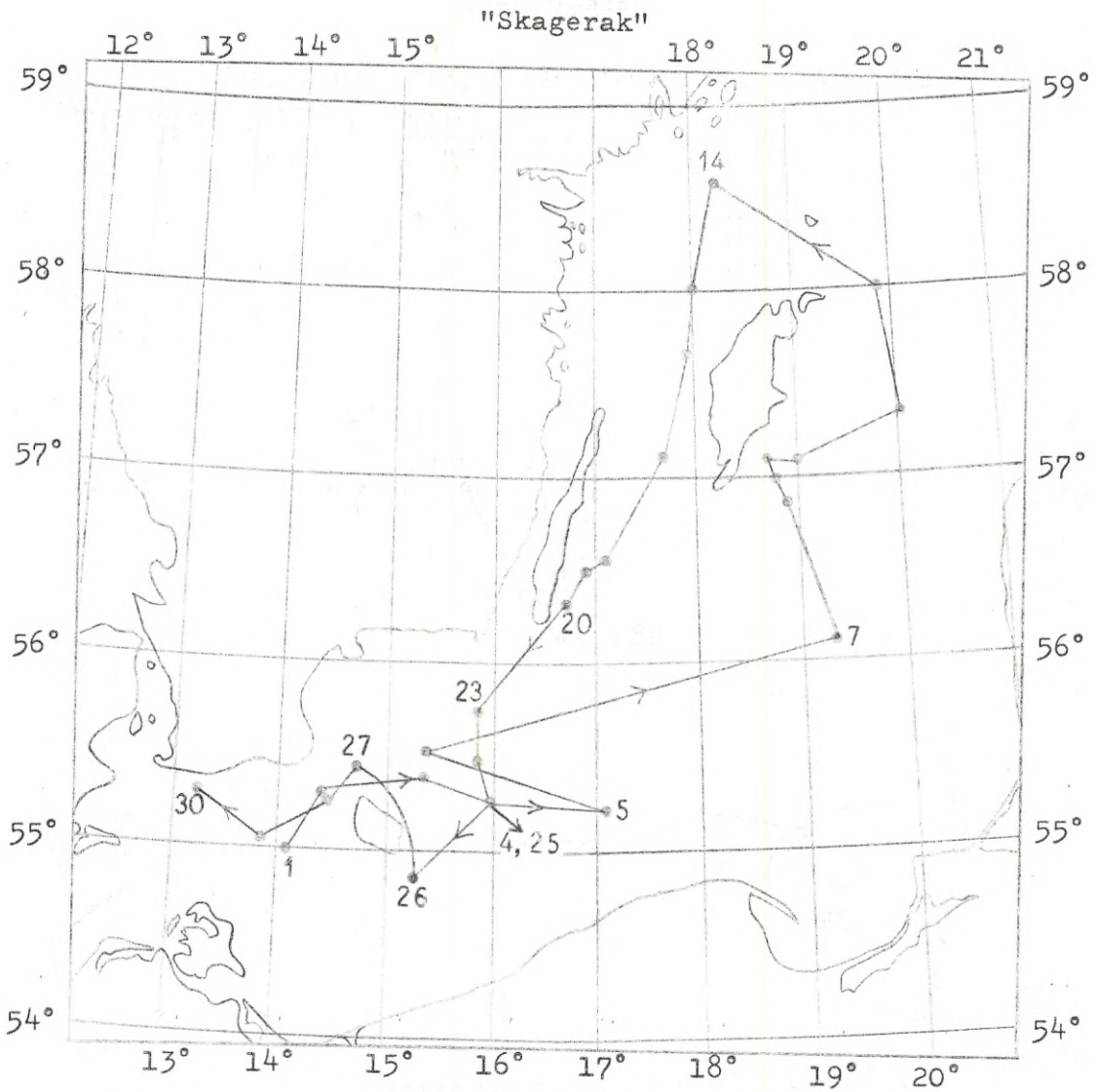
- 06 - Chemical data observed
- 16 - Chemical data interpolated

The arrows in the heading indicate the position of the decimal points.

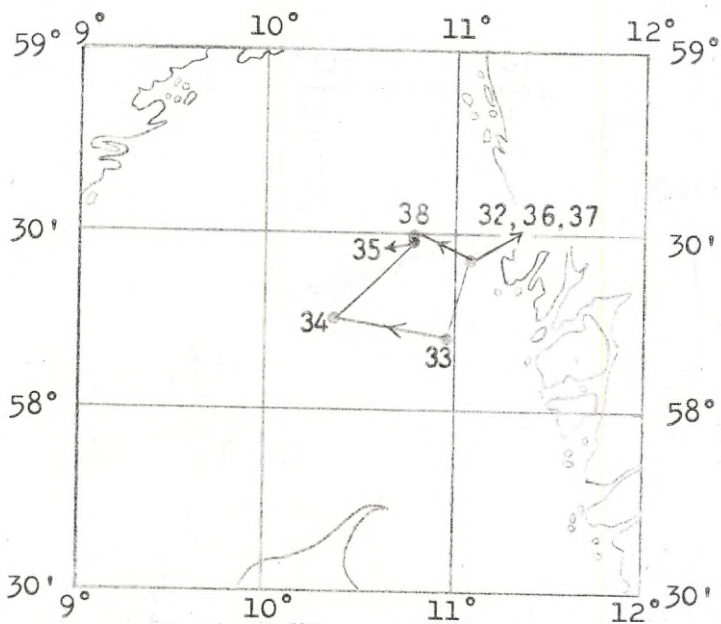
The suffix Q at a figure indicates that the figure is questionable.

For further information on the system used reference is made to the ICES punch card manual ("ICES Oceanographic Punch Cards", 2nd edition).

VIII



Stat. Nos. 1-30. Period: 8-21/1. Pages 3-11, 93-103.

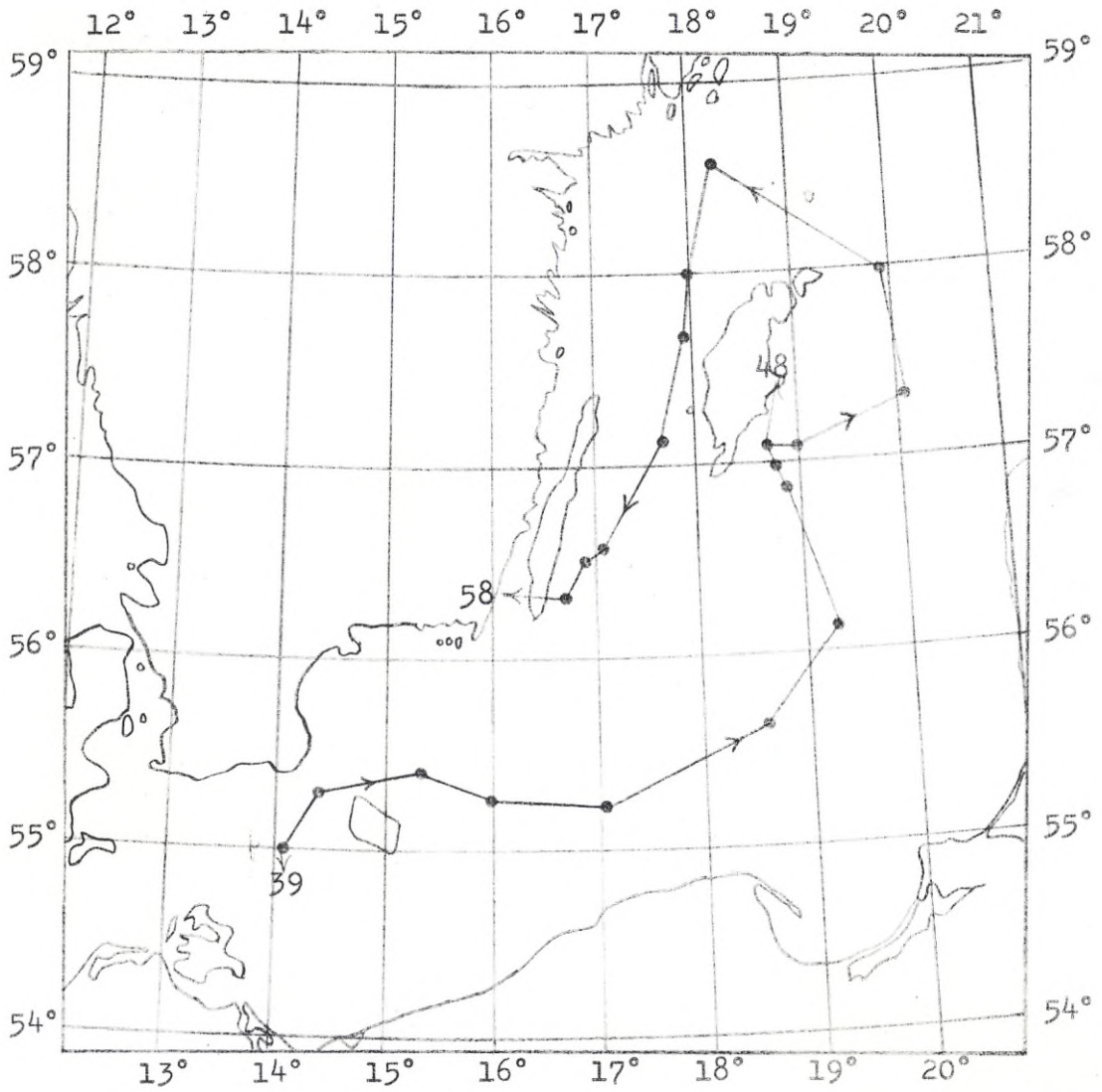


Stat. Nos. 32-35. Period: 28/1-9/2.  
 " " 36-38. " 17-31/3.

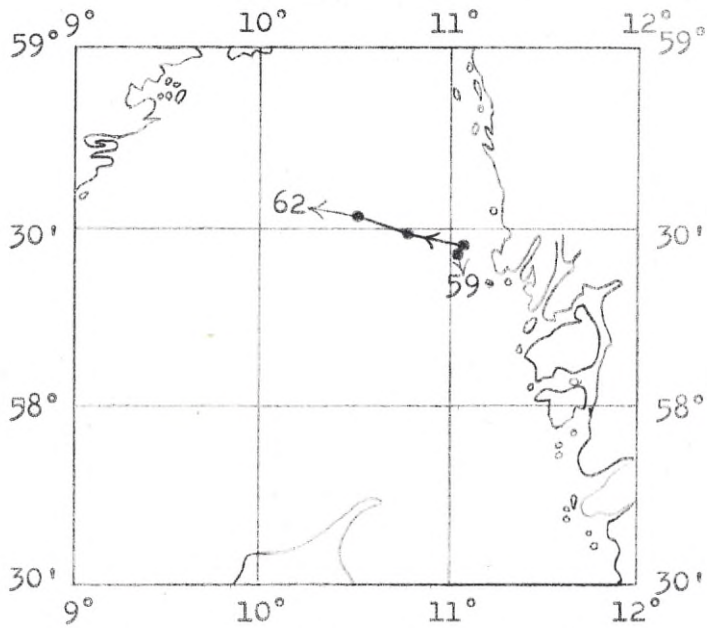
Pages 11-13.



IX  
"Skagerak".

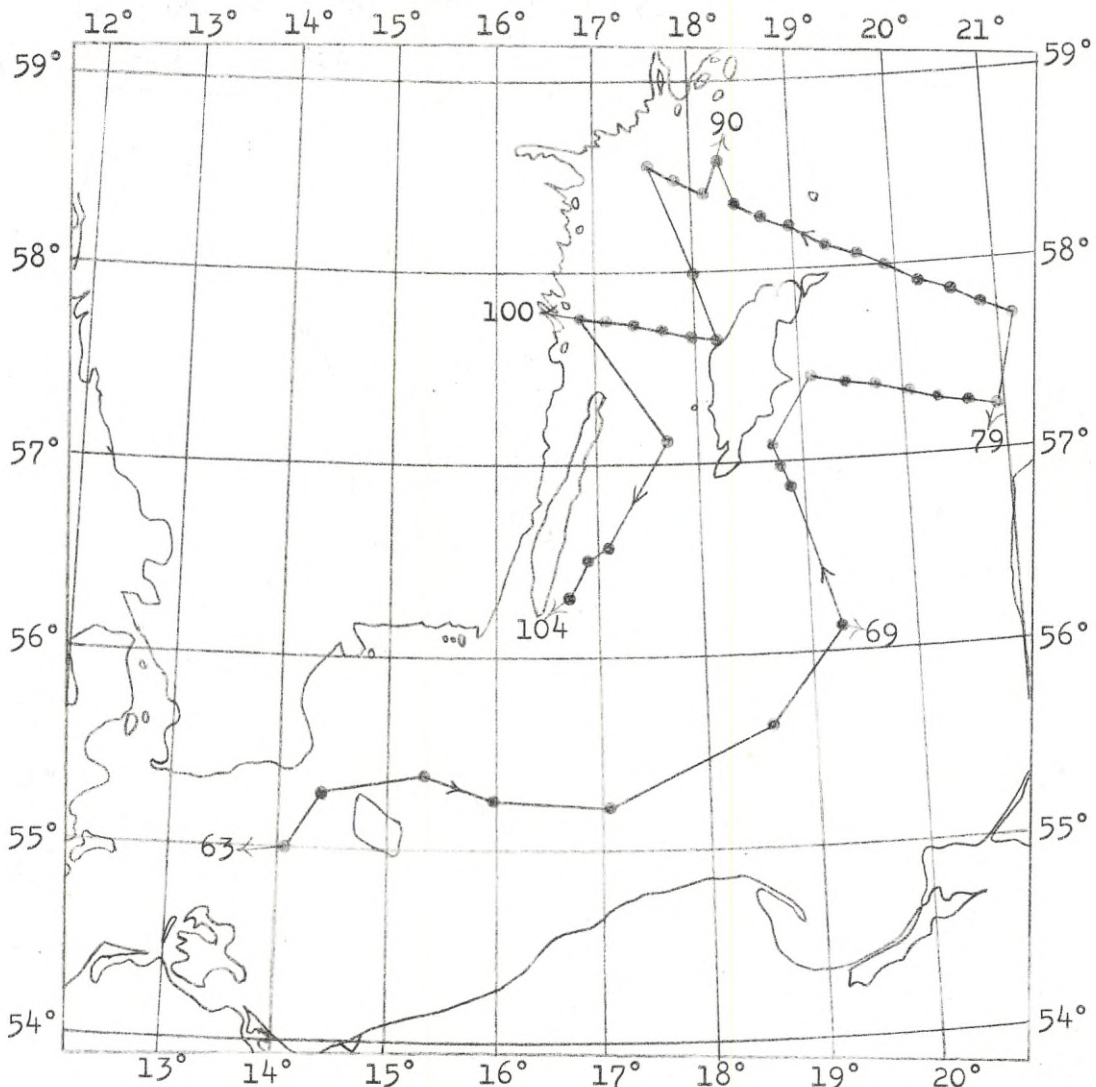


Stat. Nos. 39-58. Period: 6-9/4. Pages 13-20, 104-115.

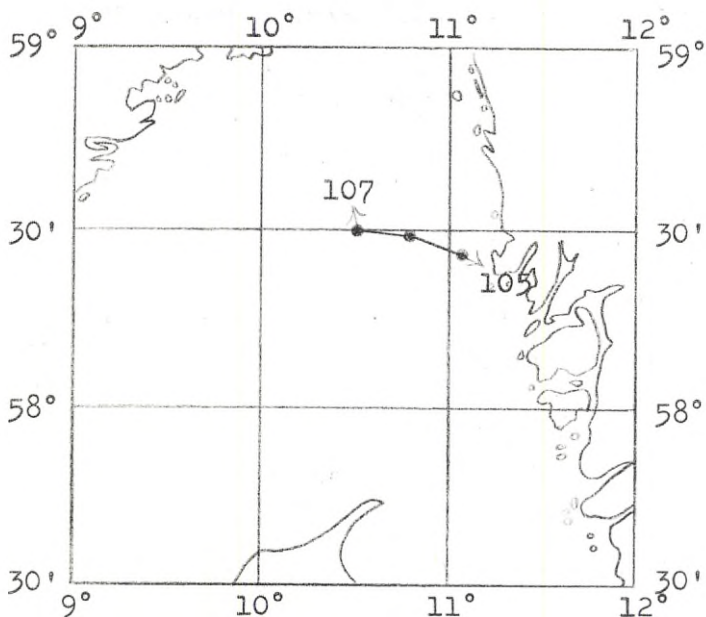


Stat. Nos. 59-62. Period: 18-25/5.  
Pages 20-21.

"Skagerak".



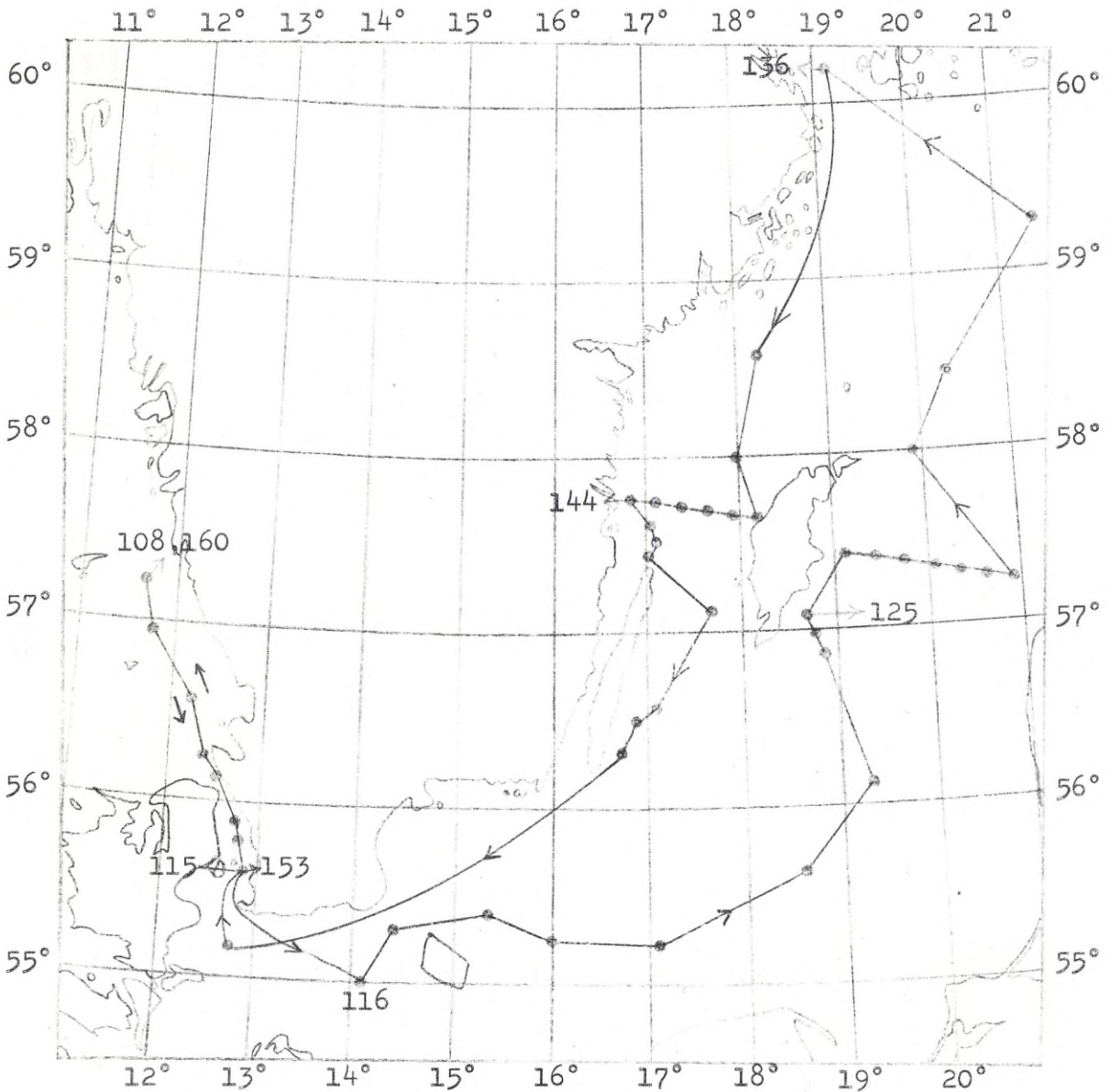
Stat. Nos. 63-104. Period: 13-17/6. Pages 21-35, 115-137.



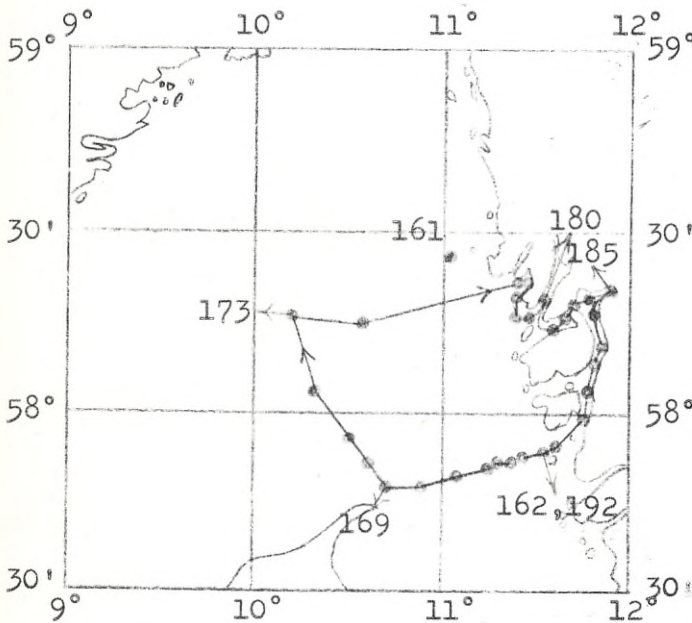
Stat. Nos. 105-107. Period: 3-12/8. Pages 35-36.



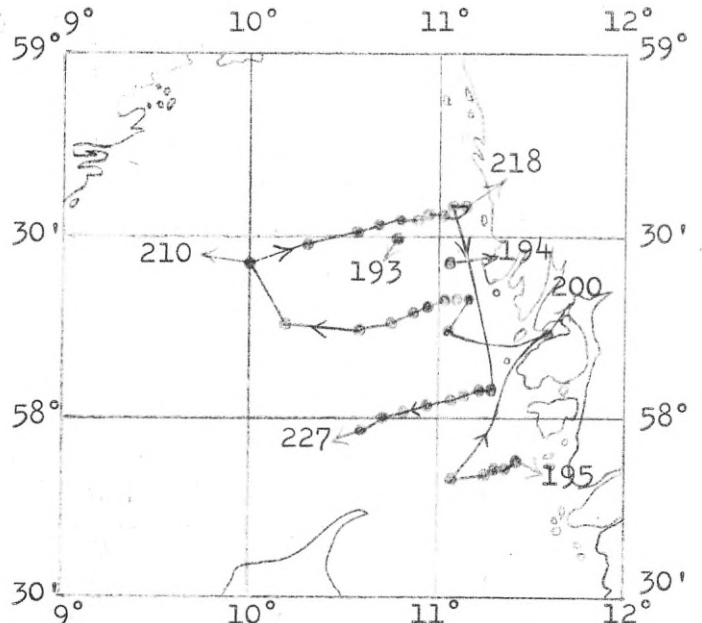
XI  
"Skagerak".



Stat. Nos. 108-160. Period: 25/8-2/9. Pages 36-52, 137-163.

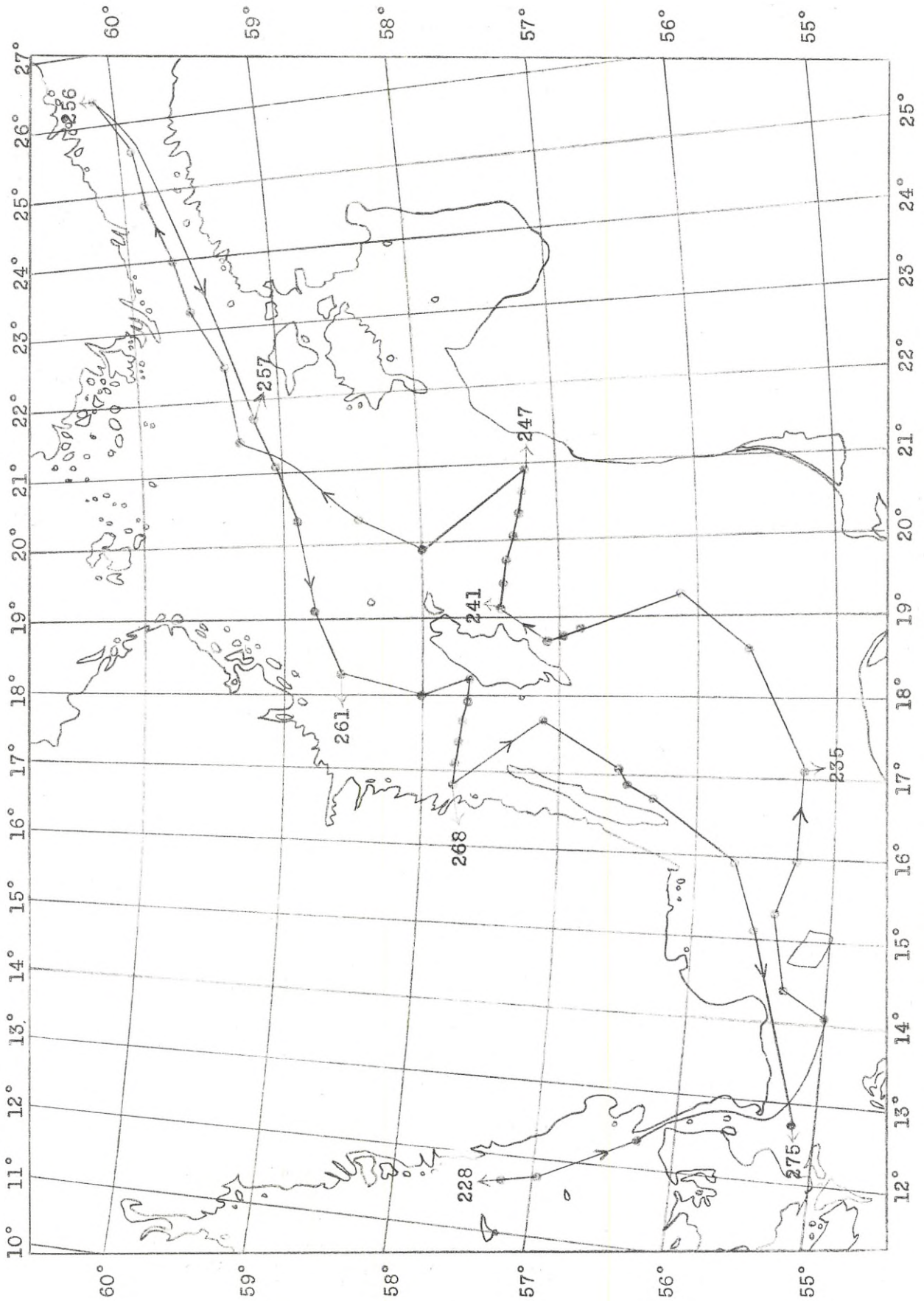


Stat. No. 161. Date: 23/9. Pp. 52-53.  
Stat. Nos. 162-192. Period: 4-8/10.  
Pages 53-61, 163-169.



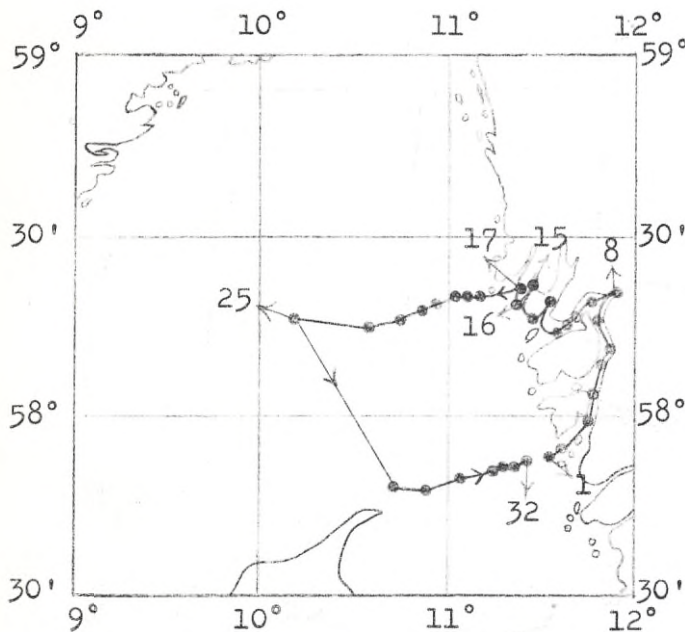
Stat. Nos. 193, 194. Dates: 10/11, 15/11  
Pages 61-62.  
Stat. Nos. 195-227. Period: 29/11-2/12  
Pages 62-73, 169-176.

"Skagerak".

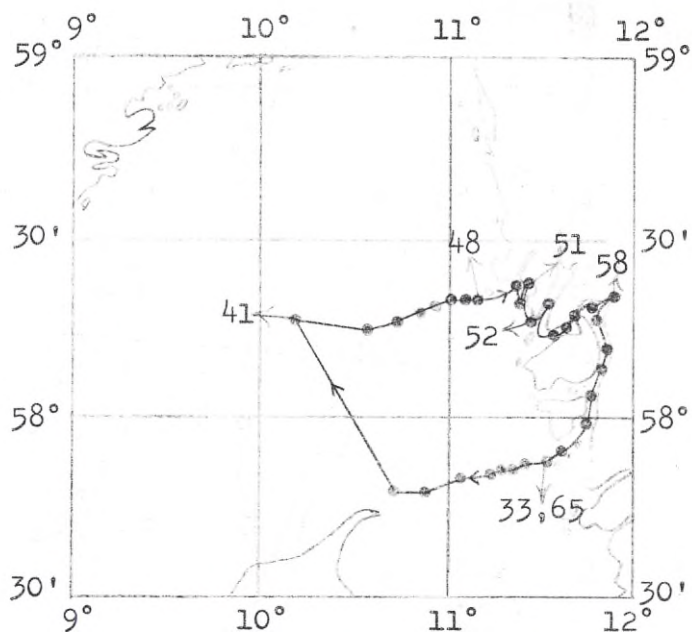




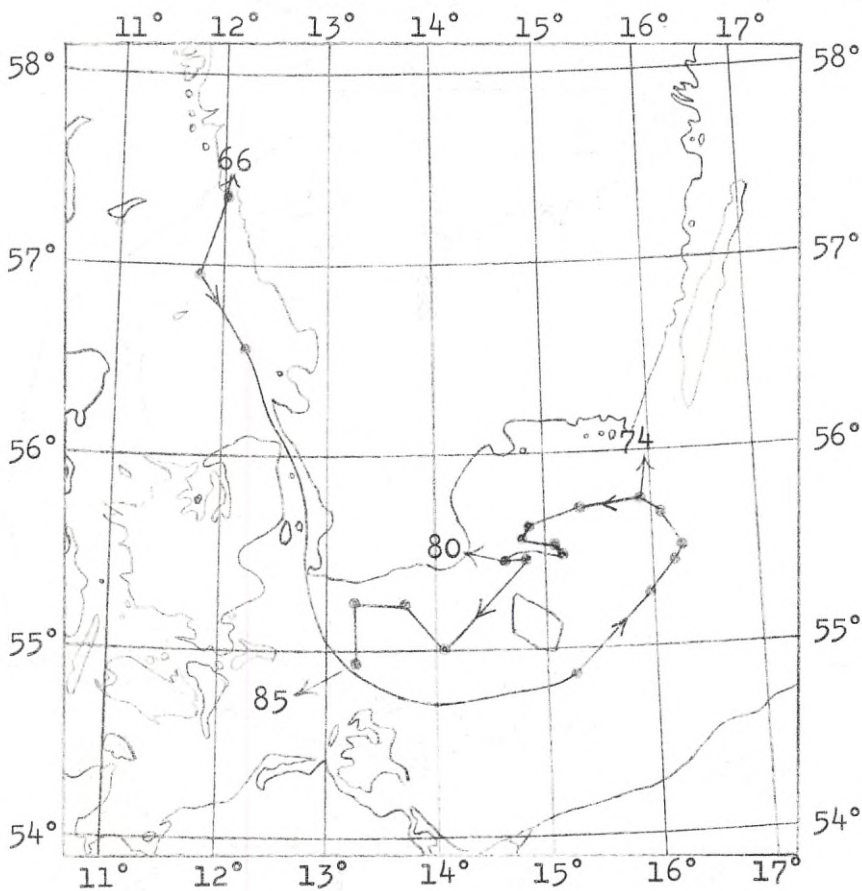
"Thetis".



Stat. Nos. 1-32. Period: 8-11/2.  
Pages 205-214, 249-261.

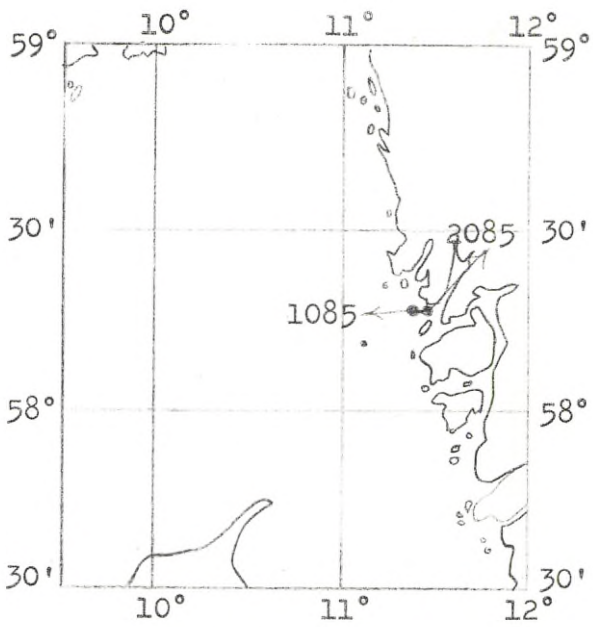


Stat. Nos. 33-65. Period: 22-26/3.  
Pages 214-223, 262-274.

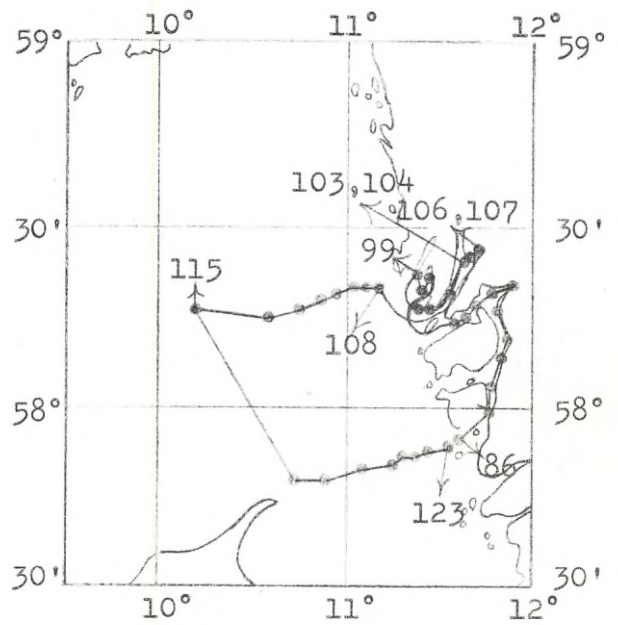


Stat. Nos. 66-85. Period: 29/3-9/4.  
Pages 223-228.

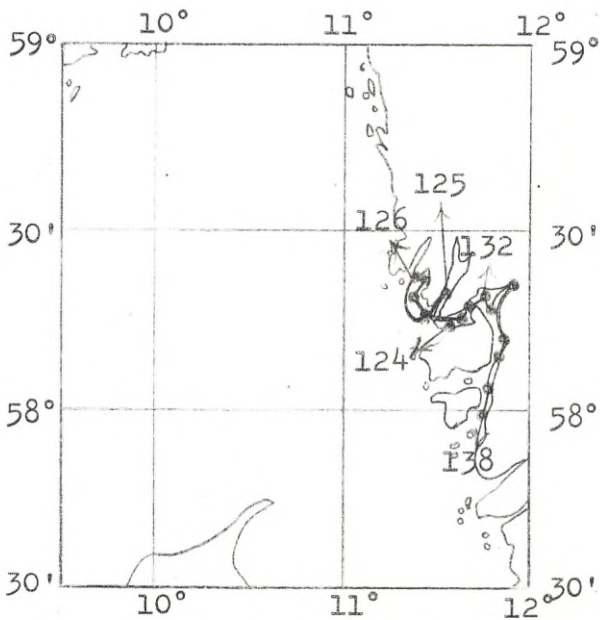
"Thetis".



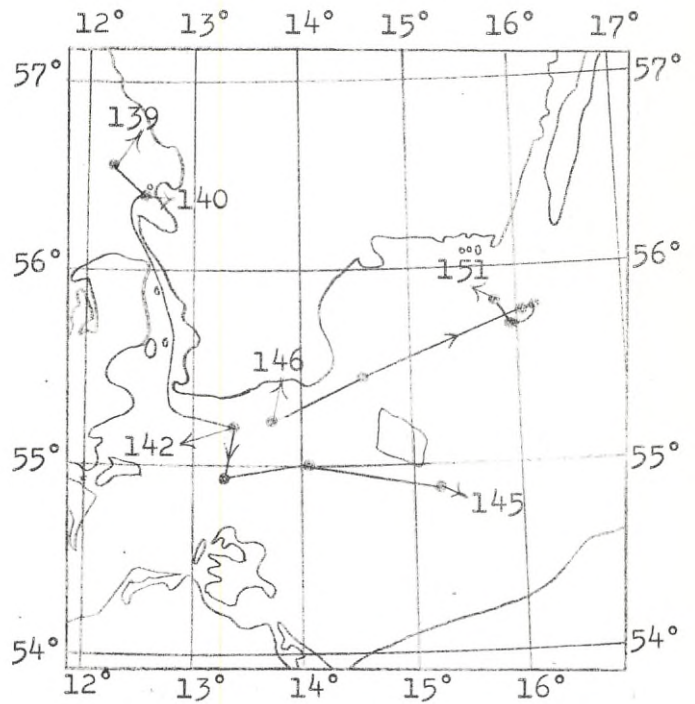
Stat. Nos. 1085, 2085. Date: 23/6.  
Page 228.



Stat. Nos. 86-123. Period: 28/6-2/7.  
Pages 228-238, 275-291.



Stat. Nos. 124-138.  
Period: 27-29/10.  
Pages 239-242, 291-296.



Stat. Nos. 139-145. Period: 8-11/11.  
" " 146-151. " :17-18/11.  
Pages 242-245.





# "Skagerak"

Temperature and Salinity





Country	Ship	Station number	Latitude		ON+E 1:N+W 2:S+E 3:S+W	Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			o	'		o	'								
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb		Wind Dir.   Speed kn.		Mixed layer depth m					
Obs. time	Obs. depth m		Temperature °C ↓			Salinity ‰ ↓		$\sigma_t$ ↓	ml/l ↓	Oxygen Saturat. % ↓	Salin. method	Extra info.	Card code		
77 11	0001	55 00	0	14 05	65 01	08	16	2	8	4	9				
	0043	05			27 20		018								
16	0000	03 93		08 45		08	72	1	3	03					
16	0005	03 94		08 44				1	3	03					
16	0010	03 97		08 45		08	64	1	3	03					
16	0015	04 03		08 49				1	3	03					
16	0025	04 33		08 77		08	55	1	3	03					
16	0035	05 42		09 96		07	62	1	3	03					
16	0040	07 99		17 76		05	78	1	3	03					
77 11	0002	55 18	0	14 24	65 01	08	19	0	0	3	9				
	0047	04 6			27 22		032								
19	0000	04 38		08 24		08	33	1	3	03					
19	0005	04 39		08 23				1	3	03					
19	0010	04 39		08 23		08	36	1	3	03					
19	0015	04 38		08 23				1	3	03					
19	0020	04 39		08 23				1	3	03					
19	0030	04 39		08 23		08	36	1	3	03					
19	0040	07 35		12 40		05	85	1	3	03					
19	0045	07 51		15 62		06	23	1	3	03					
77 11	0003	55 23	0	15 20	65 01	08	22	0	0	3	9				
	0088	04			27 24		037								
22	0000	04 91		08 03		08	25	1	3	03					
22	0005	04 87		08 01				1	3	03					
22	0010	04 89		08 02		08	26	1	3	03					
22	0015	04 86		08 02				1	3	03					
22	0020	04 84		08 03				1	3	03					
22	0030	04 81		08 05		08	27	1	3	03					
22	0040	04 86		08 06				1	3	03					
22	0050	07 46		11 83		05	11	1	3	03					
22	0060	08 27		14 55		03	70	1	3	03					
22	0070	07 71		16 53		01	62	1	3	03					
22	0080	07 84		16 85		01	73	1	3	03					
77 11	0004	55 15	0	15 59	65 01	09	01	2	8	4	9				
	0093	04			27 30		049								
01	0000	04 63		07 71		08	35	1	3	03					
01	0005	04 60		07 72		08	27	1	3	03					
01	0010	04 59		07 71		08	39	1	3	03					
01	0015	04 58		07 71		08	37	1	3	03					
01	0020	04 57		07 71		08	37	1	3	03					
01	0030	04 58		07 71		07	73	1	3	03					
01	0040	04 60		07 73		08	34	1	3	03					



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0	'	''	0	'	''								
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb			Wind Dir.   Speed kn.		Mixed layer depth m					
		Obs. time	Obs. depth m	Temperature °C ↓			Salinity ‰ ↓	$\sigma_t$ ↓	ml/l ↓	Oxygen ↓	Saturat. ‰ ↓	Salin. method	Extra info.	Card code		

77 11 0004

01	0050	05 38		08 47				07 44			1 3 03
01	0060	07 95		14 73				03 43			1 3 03
01	0070	08 15		16 28				02 91			1 3 03
01	0080	08 04		17 07				03 92			1 3 03
01	0087	08 16		17 78				04 78			1 3 03

77 11 0005	55 13	0	17 04	65 01	09 05	2 8 4 9
0086	04			29 22	048	

05 0000	04 33		07 68		08 33	1 3 03
05 0005	04 28		07 68			1 3 03
05 0010	04 34		07 68		08 26	1 3 03
05 0015	04 26		07 68			1 3 03
05 0020	04 24		07 68			1 3 03
05 0030	04 27		07 68		08 35	1 3 03
05 0040	04 27		07 69			1 3 03
05 0050	04 35		07 69		08 34	1 3 03
05 0060	04 73		08 97		05 33	1 3 03
05 0070	06 18		11 73		03 95	1 3 03
05 0080	07 32		14 15		02 88	1 3 03

77 11 0006	55 31	0	15 21	65 01	09 14	2 8 3 9
0082	01			07 16	048	

14 0000	04 65		08 23		08 36	1 3 03
14 0005	04 63		08 23			1 3 03
14 0010	04 63		08 21		08 39	1 3 03
14 0015	04 61		08 21			1 3 03
14 0020	04 62		08 23			1 3 03
14 0030	04 62		08 23		08 37	1 3 03
14 0040	04 63		08 23		08 36	1 3 03
14 0050	07 43		11 84		05 28	1 3 03
14 0060	08 25		14 13		04 49	1 3 03
14 0070	07 72		15 93		01 72	1 3 03
14 0078	07 78		16 60		01 49	1 3 03

77 11 0007	56 07	0	19 19	65 01	12 23	2 8 4 9
0125	03			20 30	062	

23 0000	04 10		07 49		08 51	1 3 03
23 0005	04 06		07 50			1 3 03
23 0010	04 06		07 50			1 3 03
23 0015	04 06		07 50			1 3 03
23 0020	04 06		07 47			1 3 03
23 0030	04 05		07 49		08 38	1 3 03
23 0040	04 06		07 50			1 3 03

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			1:N+W	2:S+E	3:S+W	1	2	3								
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰	$\sigma_t$	ml/l	Oxygen	Saturat. %	Salin. method	Extra info.	Card code				

77 11 0007

23 0050	04 08	07 52	08 42	1 3 03
23 0060	04 10	07 53		1 3 03
23 0070	04 31	09 99	03 79	1 3 03
23 0080	04 37	10 87	03 10	1 3 03
23 0090	04 52	11 31	02 54	1 3 03
23 0100	04 76	11 67	02 36	1 3 03
23 0120	05 44	12 27	02 16	1 3 03

77 11 0008	56 51	0	18 52	65 01	13 04	2 8 4 9
0115	03			20 28	048	

04 0000	04 03	07 47	08 46	1 3 03
04 0005	03 97	07 47		1 3 03
04 0010	03 99	07 46	09 43	1 3 03
04 0015	03 99	07 47		1 3 03
04 0020	03 96	07 47		1 3 03
04 0030	03 97	07 47	09 47	1 3 03
04 0040	03 97	07 47		1 3 03
04 0050	03 98	07 47	08 52	1 3 03
04 0060	04 01	07 52		1 3 03
04 0070	03 84	09 88	01 99	1 3 03
04 0080	04 34	10 80	01 60	1 3 03
04 0090	04 49	11 46	02 26	1 3 03
04 0100	04 83	11 88	01 95	1 3 03
04 0110	05 06	12 18	01 21	1 3 03

77 11 0009	56 59	0	18 47	65 01	13 06	2 8 4 9
0065	03			20 28	053	

06 0000	03 22	07 46	08 70	1 3 03
06 0005	03 17	07 46		1 3 03
06 0010	03 15	07 46	08 76	1 3 03
06 0015	03 13	07 46		1 3 03
06 0020	03 17	07 46		1 3 03
06 0030	03 16	07 46	08 63	1 3 03
06 0040	03 15	07 46	08 72	1 3 03
06 0050	03 18	07 46	08 03	1 3 03
06 0060	03 80	09 88	02 08	1 3 03

77 11 0010	57 05	0	18 42	65 01	13 07	2 8 4 9
0027	03			20 26	027	

07 0000	02 52	07 38	08 87	1 3 03
07 0005	02 51	07 39		1 3 03
07 0010	02 54	07 39	08 86	1 3 03
07 0015	02 51	07 40		1 3 03



Country	Ship	Station number	Latitude		D-N+E 1:N+W 2:S+E 3:S+W	Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice	
			°	'		°	'									
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb		Wind Dir.   Speed kn.		Mixed layer depth m						
Obs. time	Obs. depth m	Temperature °C ↓			Salinity ‰ ↓	$\sigma_t$ ↓	ml/l	Oxygen Saturat. % ↓	Salin. method	Extra info.	Card code					
77	11	0010														
	07	0020	02	51		07	39					1	3	03		
	07	0025	02	47		07	40			08	84	1	3	03		
77	11	0011	57	05	0	19	00	65	01	13	08	2	8	4	9	
		0115	03					18	24		063					
	08	0000	03	69		07	42			08	60	1	3	03		
	08	0005	03	64		07	45					1	3	03		
	08	0010	03	63		07	42			08	58	1	3	03		
	08	0015	03	61		07	44					1	3	03		
	08	0020	03	63		07	44					1	3	03		
	08	0030	03	61		07	44			08	55	1	3	03		
	08	0040	03	60		07	44					1	3	03		
	08	0050	03	61		07	44			08	54	1	3	03		
	08	0060	03	60		07	42			08	58	1	3	03		
	08	0070	03	52		09	23			03	13	1	3	03		
	08	0080	03	88		09	95			01	83	1	3	03		
	08	0090	04	14		10	44			01	50	1	3	03		
	08	0100	04	49		11	09			01	68	1	3	03		
	08	0110	04	71		11	58			03	10	1	3	03		
77	11	0012	57	20	0	20	03	65	01	13	13	2	8	4	9	
		0250	04					20	26		071					
	13	0000	04	14		07	37			08	48	1	3	03		
	13	0005	04	10		07	37			08	45	1	3	03		
	13	0010	04	07		07	37			08	61	1	3	03		
	13	0015	04	07		07	37			08	43	1	3	03		
	13	0020	04	09		07	37			08	39	1	3	03		
	13	0030	04	09		07	37			08	48	1	3	03		
	13	0040	04	09		07	37					1	3	03		
	13	0050	04	07		07	37			08	58	1	3	03		
	13	0060	04	09		07	37			08	48	1	3	03		
	13	0070	04	05		07	41			08	20	1	3	03		
	13	0080	03	97		09	88			01	50	1	3	03		
	13	0090	04	18		10	19			01	00	1	3	03		
	13	0100	04	34		10	77			01	40	1	3	03		
	13	0125	04	79		11	81			01	97	1	3	03		
	13	0150	05	19		12	32			01	62	1	3	03		
	13	0175	05	46		12	60			00	94	1	3	03		
	13	0200	05	46		12	78			01	11	1	3	03		
	13	0225	05	45		12	86			01	32	1	3	03		
	13	0245	05	42		12	90			01	15	1	3	03		
77	11	0013	58	00	0	19	54	65	01	13	18	1	3	4	9	
		0200	03	6				23	24		064					

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0	1:N+E 2:S+E 3:S+W		0										
		Depth to bottom m	Temperature °C Dry ↓ bulb		Temperature °C Wet ↓ bulb		-Wind Dir.   Speed kn.				Mixed layer depth m					
Obs. time	Obs. depth m	Temperature °C ↓		Salinity ‰ ↓	$\sigma_t$ ↓	ml/l ↓	Oxygen ↓	Saturat. ‰ ↓	Salin. method	Extra info.	Card code					

77 11 0013

18 0000	03 51		07 16			08 63			1 3 03
18 0005	03 52		07 15						1 3 03
18 0010	03 51		07 16			08 61			1 3 03
18 0015	03 49		07 15						1 3 03
18 0020	03 49		07 15						1 3 03
18 0030	03 49		07 15			08 57			1 3 03
18 0040	03 50		07 15						1 3 03
18 0050	03 50		07 15			08 47			1 3 03
18 0060	03 53		07 24			07 67			1 3 03
18 0070	03 67		09 36			02 43			1 3 03
18 0080	04 15		10 12			01 00			1 3 03
18 0090	04 46		10 60			00 68			1 3 03
18 0100	04 61		10 82			00 74			1 3 03
18 0125	05 08		11 97			00 99			1 3 03
18 0150	05 27		12 25			00 68			1 3 03
18 0175	05 29		12 31			00 64			1 3 03
18 0190	05 30		12 34			00 60			1 3 03

77 11 0014	58 35	0	18 14		65 01	15	17		1 4 4 9
0450	03 6				20 22		052		

18 0000	02 36		07 33			09 25			1 3 03
18 0005	02 34		07 32						1 3 03
18 0010	02 32		07 33			08 79			1 3 03
18 0015	02 33		07 33						1 3 03
18 0020	02 29		07 33						1 3 03
18 0030	02 28		07 33			08 78			1 3 03
18 0040	02 30		07 33						1 3 03
18 0050	02 33		07 35			08 67			1 3 03
18 0060	03 52		08 99			03 05			1 3 03
18 0070	03 89		09 61			01 79			1 3 03
18 0080	04 20		09 99			00 75			1 3 03
18 0090	04 27		10 17			00 59			1 3 03
17 0100	04 35		10 23			00 48			1 3 03
17 0125	04 48		10 45			00 39			1 3 03
17 0150	04 53		10 53			00 33			1 3 03
17 0200	04 64		10 76			00 29			1 3 03
17 0300	04 75		10 99			00 41			1 3 03
17 0400	04 77		11 04			00 28			1 3 03
17 0440	04 79		11 02			00 32			1 3 03

77 11 0015	58 00	0	18 00		65 01	15	22		2 8 4 9
0175	02				20 24		051		

23 0000	02 80		07 20			08 77			1 3 03
23 0005	02 75		07 18						1 3 03
23 0010	02 79		07 19			08 68			1 3 03



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C		Temperature °C		Wind				Mixed layer depth m					
			Dry ↓	bulb	Wet ↓	bulb	Dir.	Speed kn.								
Obs. time	Obs. depth m	Temperature °C		Salinity ‰	$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code					
		↓	↓	↓	↓	↓	↓	↓								

77 11 0015

23	0015	02	73		07	19						1	3	03
23	0020	02	73		07	19						1	3	03
23	0030	02	73		07	19			08	72		1	3	03
23	0040	02	75		07	18						1	3	03
23	0050	02	76		07	19			08	74		1	3	03
23	0060	03	14		07	77			06	95		1	3	03
22	0070	03	62		09	02			03	05		1	3	03
22	0080	04	07		09	82			01	01		1	3	03
22	0090	04	26		10	08			00	57		1	3	03
22	0100	04	33		10	19			00	37		1	3	03
22	0125	04	43		10	34			00	25		1	3	03
22	0150	04	47		10	41			00	18		1	3	03

77 11 0016 57 40 0 17 56 65 01 16 02 1 3 5 9  
0105 02 18 32 056

02	0000	02	62		07	27			09	15		1	3	03
02	0005	02	51		07	26						1	3	03
02	0010	02	50		07	26			08	95		1	3	03
02	0015	02	48		07	26						1	3	03
02	0020	02	56		07	25						1	3	03
02	0030	02	53		07	26			08	91		1	3	03
02	0040	02	55		07	26						1	3	03
02	0050	02	56		07	26			08	84		1	3	03
02	0060	02	95		07	36			08	53		1	3	03
02	0070	03	48		08	47			04	66		1	3	03
02	0080	03	86		09	53			01	75		1	3	03
02	0090	04	11		09	87			00	79		1	3	03
02	0100	04	23		10	06			00	46		1	3	03

77 11 0017 57 07 0 17 40 65 01 16 07 2 8 4 9  
0110 02 20 24 050

07	0000	02	89		07	40			08	71		1	3	03
07	0005	02	79		07	40						1	3	03
07	0010	02	74		07	40			08	79		1	3	03
07	0015	02	73		07	40						1	3	03
07	0020	02	77		07	41						1	3	03
07	0030	02	72		07	41			08	77		1	3	03
07	0040	02	71		07	40						1	3	03
07	0050	02	75		07	43			08	60		1	3	03
07	0060	03	14		08	11			05	97		1	3	03
07	0070	03	57		09	10			02	61		1	3	03
07	0080	03	96		09	69			01	15		1	3	03
07	0090	04	23		10	02			00	33		1	3	03
07	0100	04	29		10	10			00	30		1	3	03

77 11 0018 56 33 0 17 04 65 01 16 13 2 7 4 9  
0066 03 2 23 26 035

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		

77 11 0018

13	0000	02	31		07	58				08	57		1	3	03
13	0005	03	13		07	56							1	3	03
13	0010	03	11		07	57				08	72		1	3	03
13	0015	03	10		07	57							1	3	03
13	0020	03	08		07	58							1	3	03
13	0030	03	07		07	58				08	74		1	3	03
13	0040	03	33		07	66				08	46		1	3	03
13	0050	03	98		08	09				06	80		1	3	03
13	0060	03	92		09	59				00	99		1	3	03

77	11	0019	56	30	0	16	52	65	01	16	14		2	8	4	9
		0065	03					23	26		015					

14	0000	03	59		07	87				08	58		1	3	03
14	0005	03	49		07	87							1	3	03
14	0010	03	48		07	87				08	62		1	3	03
14	0015	03	53		07	93							1	3	03
14	0020	03	67		08	03							1	3	03
14	0030	03	66		08	08				08	18		1	3	03
14	0040	03	66		08	13							1	3	03
14	0050	03	89		09	22				02	17		1	3	03
14	0060	04	07		09	86				00	23		1	3	03

77	11	0020	56	19	0	16	41	65	01	16	16		2	8	4	9
		0028	03					23	26		019					

16	0000	03	35		08	10				08	36		1	3	03
16	0005	03	39		08	10							1	3	03
16	0010	03	41		08	10				08	35		1	3	03
16	0015	03	38		08	10							1	3	03
16	0020	03	48		08	14							1	3	03
16	0025	03	74		08	52				06	02		1	3	03

77	11	0023	55	44	0	15	49	65	01	19	09		2	7	1	9
		0063	03	8				23	20		041					

09	0000	04	22		07	90							1	0	03
09	0010	04	21		07	90				08	30		1	0	03
09	0020	04	24		07	88							1	0	03
09	0030	04	28		07	89				08	33		1	0	03
09	0040	04	27		07	94							1	0	03
09	0050	05	80		09	94				06	18		1	0	03
09	0058	07	68		14	20				02	88		1	0	03

77	11	0024	55	29	0	15	49	65	01	19	13		2	8	0	9
		0085	04					20	10		058					



Country	Ship	Station number	Latitude		0:N+E 1:N+W 2:S+E 3:S+W	Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice	
			o	'		o	'									
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb		-Wind Dir.   Speed kn.				Mixed layer depth m				
Obs. time	Obs. depth m	Temperature °C ↓			Salinity ‰ ↓	$\sigma_t$ ↓	ml/l	Oxygen Saturat. % ↓	Salin. method	Extra info.	Card code					
77	11	0024														
	13	0000	04	24		07	98					1	0	03		
	13	0010	04	23		07	97					1	0	03		
	13	0020	04	22		07	97					1	0	03		
	13	0030	04	26		07	97					1	0	03		
	13	0040	04	27		07	98					1	0	03		
	13	0050	04	26		07	97			08	35	1	0	03		
	13	0060	08	44		13	97			04	47	1	0	03		
	13	0070	08	18		15	81			02	62	1	0	03		
	13	0080	07	98		16	74			01	46	1	0	03		
77	11	0025	55	15	0	15	59	65	01	19	17	2	8	0	9	
		0090	04					20	10		047					
	17	0000	03	57		07	68					1	0	03		
	17	0010	03	53		07	66					1	0	03		
	17	0020	03	55		07	65					1	0	03		
	17	0030	03	56		07	66			08	33	1	0	03		
	17	0040	03	57		07	66					1	0	03		
	17	0050	03	80		07	87			07	71	1	0	03		
	17	0060	05	25		10	53			03	19	1	0	03		
	17	0070	08	56		15	36			04	06	1	0	03		
	17	0080	08	03						02	23			03		
	17	0085	08	11		17	59			03	99	1	0	03		
77	11	0026	54	51	0	15	14	65	01	19	21	1	4	0	9	
		0068	03					18	10		052					
	21	0000	04	34		08	08					1	0	03		
	21	0010	04	34		08	07			08	31	1	0	03		
	21	0020	04	38		08	07					1	0	03		
	21	0030	04	38		08	08			08	28	1	0	03		
	21	0040	04	39		08	08					1	0	03		
	21	0050	04	44		08	09			08	30	1	0	03		
	21	0060	08	19		14	65			04	27	1	0	03		
	21	0065	08	10		15	88			03	30	1	0	03		
77	11	0027	55	27	0	14	42	65	01	20	14	1	6	0	9	
		0072	04					14	10		043					
	14	0000	04	12		08	15					1	0	03		
	14	0010	04	13		08	15			08	13	1	0	03		
	14	0020	04	15		08	27					1	0	03		
	14	0030	04	17		08	27			08	25	1	0	03		
	14	0040	04	18		08	28			08	38	1	0	03		
	14	0050	07	17		12	05			04	97	1	0	03		
	14	0060	08	12		15	23			03	88	1	0	03		



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C		Temperature °C			Wind		Mixed layer depth m						
			Dry ↓ bulb		Wet ↓ bulb			Dir.	Speed kn.							
Obs. time	Obs. depth m	Temperature °C		Salinity ‰	$\sigma_t$	ml/l	Oxygen	Saturat. %	Salin. method	Extra info.	Card code					
			↓	↓	↓	↓	↓	↓		↓						
77 11	0027															
14	0070		07 97		16 33					02 87				1 0 03		
77 11	0028		55 17	0	14 27		65 01			20 16				2 8 9 9		
	0047		02				11 12			033						
16	0010		03 85		08 78					08 28				1 0 03		
16	0000		03 83		08 78									1 0 03		
16	0020		03 91		08 79									1 0 03		
16	0030		03 94		08 98					08 39				1 0 03		
16	0040		07 82		13 54					04 81				1 0 03		
16	0046		07 89		13 86					04 71				1 0 03		
77 11	0029		55 02	0	13 50		65 01			20 20				2 7 9 9		
	0046		03				09 12			036						
20	0000		03 78		08 44									1 0 03		
20	0010		03 90		08 45					08 40				1 0 03		
20	0020		03 95		08 67									1 0 03		
20	0030		03 94		08 96					08 32				1 0 03		
20	0040		07 48		15 53					06 05				1 0 03		
20	0045		07 79		18 06					05 01				1 0 03		
77 11	0030		55 17	0	13 14		65 01			21 13				1 4 9 9		
	0036		03				02 14			033						
13	0000		03 60		09 30									1 0 03		
13	0010		03 60		09 30									1 0 03		
13	0020		03 59		09 48									1 0 03		
13	0030		03 61		09 52									1 0 03		
13	0035		03 41		10 03									1 0 03		
77 11	0032		58 26	0	11 04		65 01			28 09				2 8 3 9		
	0059		-03				05 20			014						
09	0000		03 17		29 818									3 0 03		
09	0005		03 13		29 820									3 0 03		
09	0015		04 88		32 181									3 0 03		
09	0025		05 25		32 772									3 0 03		
09	0030		05 55		32 986									3 0 03		
09	0035		06 14		33 437									3 0 03		
09	0040		06 31		33 867									3 0 03		
09	0045		06 25		34 232									3 0 03		
09	0050		06 30		34 387									3 0 03		
09	0055		06 79		34 861									3 0 03		
77 11	0033		58 13	0	10 57		65 02			02 13				1 1 1 9		
	0125		02				34 08			009						

Country	Ship	Station number	Latitude		Longitude	Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W									
		Depth to bottom m	Temperature °C		Temperature °C		Wind		Mixed layer				
			Dry ↓	bulb	Wet ↓	bulb	Dir.	Speed kn.	depth m				
Obs. time	Obs. depth m	Temperature °C		Salinity ‰	$\sigma_t$	ml / l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		
		↓	↓	↓	↓	↓	↓	↓					

77 11 0033

13	0000	02	15	26	087					3	0	03
13	0025	05	70	33	728					3	0	03
13	0050	06	60	34	487					3	0	03
13	0075	06	89	34	808					3	0	03
13	0085	06	89	34	878					3	0	03
13	0095	06	90	34	959					3	0	03
13	0100	07	02	34	998					3	0	03
13	0105	07	55	34	983					3	0	03
13	0110	06	83	34	979					3	0	03
13	0115	06	81	34	976					3	0	03
13	0120	06	76	34	988					3	0	03
13	0125	06	74	34	983					3	0	03

77	11	0034	58	16	0	10	21	65	02	04	09	1	4	1	9
		0400	02					27	06		007				

09	0000	02	65	30	987					3	0	03
09	0075	07	35	34	786					3	0	03
09	0125	07	41	34	966					3	0	03
09	0175	07	25	35	007					3	0	03
09	0225	07	74	35	143					3	0	03
09	0275	07	28	35	179					3	0	03
09	0325	06	78	35	176					3	0	03
09	0345	06	67	35	173					3	0	03
09	0355	06	42	35	183					3	0	03
09	0365	06	24	35	169					3	0	03
09	0370	06	08	35	166					3	0	03
09	0375	05	85	35	165					3	0	03

77	11	0035	58	29	0	10	47	65	02	09	15	1	1	4	9
		0125	-03					27	18		016				

15	0000	03	58	31	730					3	0	03
15	0005	03	58	31	728					3	0	03
15	0010	03	53	31	733					3	0	03
15	0020	04	11	32	124					3	0	03
15	0040	06	42	34	415					3	0	03
15	0060	06	85	34	715					3	0	03
15	0080	06	94	34	961					3	0	03
15	0090	06	79	34	931					3	0	03
15	0095	07	27	34	961					3	0	03
15	0100			34	940					3	0	03

77	11	0036	58	26	0	11	04	65	03	17	14	2	8	9	9
		0058	04					23	12		019				

14	0000	02	47	29	527					3	0	03
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Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		

77 11 0036

14	0005	02	46	29	536							3	0	03
14	0010	02	72	31	104							3	0	03
14	0020	04	23	33	427							3	0	03
14	0030	05	61	34	416							3	0	03
14	0040	06	30	34	734							3	0	03
14	0050	06	31	34	811							3	0	03
14	0055	06	34	34	813							3	0	03

77	11	0037	58	26	0	11	04	65	03	19	09	4	9	9	9
		0057	01	5				25	10		012				

09	0000	00	27	23	970							3	0	03
09	0005	00	29	23	973							3	0	03
09	0010	00	21	24	395							3	0	03
09	0020	00	40	27	335							3	0	03
09	0030	05	86	34	346							3	0	03
09	0040	06	53	34	711							3	0	03
09	0045	06	44	34	930							3	0	03

77	11	0038	58	30	0	10	47	65	03	31	11	1	1	9	9
		0115	05					36	04		000				

11	0000	02	13	22	534							3	0	03
11	0005	03	04	26	366							3	0	03
11	0010	03	61	31	546							3	0	03
11	0020	04	47	34	041							3	0	03
11	0030	03	79	34	295							3	0	03
11	0050	04	10	34	459							3	0	03
11	0075	04	07	34	576							3	0	03
11	0100	04	95	34	648							3	0	03
11	0115	04	86	34	665							3	0	03

77	11	0039	55	00	0	14	05	65	04	06	10	2	8	1	9
		0049	05	5				14	08		018				

10	0000	02	55	07	50					09	89	1	3	03
10	0005	02	53	08	15							1	3	03
10	0010	02	56	08	17					09	91	1	3	03
10	0015	02	40	08	19							1	3	03
10	0020	02	35	08	22							1	3	03
10	0030	01	24	08	53					09	11	1	3	03
10	0040	01	10	11	90					08	74	1	3	03
10	0047	02	01	13	49					07	11	1	3	03

77	11	0040	55	18	0	14	24	65	04	06	12	2	8	1	9
		0047	05	5				14	08		009				



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	Oxygen		Saturat. ‰	Salin. method	Extra info.	Card code		
		↓			↓			↓	ml/l	↓	↓					

77 11 0040

12	0000	02	18		07	23		10	86			1	3	03
12	0005	02	17		07	26						1	3	03
12	0010	02	20		07	26		09	99			1	3	03
12	0015	01	81		07	90						1	3	03
12	0020	01	52		08	01						1	3	03
12	0030	01	47		08	10		09	01			1	3	03
12	0040	01	45		08	37		09	59			1	3	03
12	0045	02	43		11	90		07	38			1	3	03

77	11	0041	55	23	0	15	20	65	04	06	15	2	8	1	9
		0090	05					14	12		000				

15	0000	02	90		07	81		09	83			1	3	03
15	0005	02	81		07	82						1	3	03
15	0010	02	76		07	83		09	88			1	3	03
15	0015	02	36		07	88						1	3	03
15	0020	02	07		07	91						1	3	03
15	0030	02	26		07	95		09	56			1	3	03
15	0040	01	87		08	09						1	3	03
15	0050	01	66		08	15		08	98			1	3	03
15	0060	03	91		10	47		07	01			1	3	03
15	0070	07	85		15	90		02	23			1	3	03
15	0080	07	94		16	41		02	00			1	3	03
15	0085	07	94		16	64		01	73			1	3	03

77	11	0042	55	15	0	15	59	65	04	06	18	2	8	1	9
		0093	05					14	10		015				

18	0000	02	50		07	84		09	71			1	3	03
18	0005	02	51		07	80		09	82			1	3	03
18	0010	02	49		07	80		09	85			1	3	03
18	0015	02	46		07	80		09	72			1	3	03
18	0020	02	13		07	84		09	58			1	3	03
18	0030	02	00		07	91		09	46			1	3	03
18	0040	01	99		08	09		10	04			1	3	03
18	0050	02	02		08	16		10	04			1	3	03
18	0060	06	29		12	36		05	39			1	3	03
18	0070	07	52		15	07		03	75			1	3	03
18	0080	08	06		16	44		02	39			1	3	03
18	0090	08	03		17	07		01	70			1	3	03

77	11	0043	55	13	0	17	04	65	04	06	22	2	8	1	9
		0091	05					14	10		028				

22	0000	02	43		07	65		09	36			1	3	03
22	0005	02	33		07	69						1	3	03

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C		Temperature °C		Wind				Mixed layer depth m					
			Dry ↓	bulb	Wet ↓	bulb	Dir.	Speed kn.								
Obs. time	Obs. depth m	Temperature °C		Salinity ‰	$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code					
		↓		↓	↓	↓	↓	↓								

77 11 0043

22 0010	02 32		07 69			09 37			1 3 03
22 0015	02 42		07 65						1 3 03
22 0020	02 27		07 69						1 3 03
22 0030	02 17		07 69			09 35			1 3 03
22 0040	01 50		07 91						1 3 03
22 0050	01 63		08 03			08 98			1 3 03
22 0060	02 27		08 25						1 3 03
22 0070	05 36		11 67			05 39			1 3 03
22 0080	06 88		14 01			03 83			1 3 03
22 0087	06 96		14 30			03 53			1 3 03

77 11 0044	55 38	0	18 36	65 04	07 05	2 8 2 9
0097	03			14 14	065	

05 0000	01 88		07 51		09 38	1 3 03
05 0005	01 85		07 51			1 3 03
05 0010	01 88		07 51		09 33	1 3 03
05 0015	01 93		07 52			1 3 03
05 0020	01 86		07 54		09 36	1 3 03
05 0030	02 09		07 57		09 41	1 3 03
05 0040	01 93		07 61			1 3 03
05 0050	01 81		07 64		09 22	1 3 03
05 0060	01 80		07 72			1 3 03
05 0070	03 30		08 98		04 79	1 3 03
05 0080	04 23		10 37		02 07	1 3 03
05 0090	04 60		11 17		01 82	1 3 03

77 11 0045	56 07	0	19 19	65 04	07 09	6 8 2 9
0116	03			14 12	048	

09 0000	02 10		07 60		09 37	1 3 03
09 0005	02 16		07 59			1 3 03
09 0010	02 07		07 59		09 29	1 3 03
09 0015	02 09		07 59			1 3 03
09 0020	02 07		07 59			1 3 03
09 0030	02 09		07 61		09 37	1 3 03
09 0040	01 96		07 65			1 3 03
09 0050	01 78		07 68		09 13	1 3 03
09 0060	02 59		08 10			1 3 03
09 0070	04 03		09 49		04 85	1 3 03
09 0080	04 78		10 90		02 89	1 3 03
09 0090	05 20		11 64		05 46	1 3 03
09 0100	05 51		11 96		03 00	1 3 03
09 0110	05 56		12 12		03 09	1 3 03

77 11 0046	56 51	0	18 52	65 04	07 14	2 8 3 9
0118	02 5			11 12	068	



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		

77 11 0046

14	0000	01	56		07	44				09	53		1	4	03	
14	0005	01	74		07	45							1	4	03	
14	0010	01	67		07	45				09	52		1	4	03	
14	0015	01	62		07	48							1	4	03	
14	0020	01	56		07	49							1	4	03	
14	0030	01	68		07	44				09	50		1	4	03	
14	0040	01	58		07	46							1	4	03	
14	0050	01	53		07	51				09	41		1	4	03	
14	0060	01	71		07	52							1	4	03	
14	0070	01	92		07	65				08	89		1	4	03	
14	0080	03	66		09	15				03	66		1	4	03	
14	0090	04	48		10	72				01	83		1	4	03	
14	0100	04	94		11	71				01	60		1	4	03	
14	0110	05	65		12	09				01	17		1	4	03	

77 11 0047

	0065	56	59	0	18	47		65	04	07	15		2	8	3	9
		02	5					05	24		052					
15	0000	01	80		07	43				09	51		1	4	03	
15	0005	01	66		07	44							1	4	03	
15	0010	01	68		07	45				09	50		1	4	03	
15	0015	01	69		07	48							1	4	03	
15	0020	01	68		07	46							1	4	03	
15	0030	01	75		07	46				09	43		1	4	03	
15	0040	01	70		07	48							1	4	03	
15	0050	01	71		07	51				09	53		1	4	03	
15	0060	01	63		07	56				08	86		1	4	03	

77 11 0048

	0030	57	05	0	18	42		65	04	07	16		2	8	4	9
		02	5					02	28		030					
16	0000	01	83		07	44				09	66		1	4	03	
16	0005	01	83		07	44							1	4	03	
16	0010	01	90		07	42							1	4	03	
16	0015	01	83		07	42							1	4	03	
16	0020	01	83		07	42							1	4	03	
16	0028	01	82		07	48				09	65		1	4	03	

77 11 0049

	0101	57	05	0	19	00		65	04	07	18		6	8	4	9
		01						02	28		062					
17	0000	01	78		07	48				09	43		1	4	03	
18	0005	01	73		07	48							1	4	03	
18	0010	01	70		07	48				09	31		1	4	03	
18	0015	01	78		07	50							1	4	03	
18	0020	01	69		07	50							1	4	03	



Country	Ship	Station number	Latitude		Longitude	Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E 1:N+W 2:S+E 3:S+W										
		Depth to bottom m	Temperature °C Dry ↓ bulb		Temperature °C Wet ↓ bulb	Wind Dir.   Speed kn.		Mixed layer depth m					
Obs. time	Obs. depth m	Temperature °C ↓		Salinity ‰ ↓	$\sigma_t$ ↓	ml/l ↓	Oxygen Saturat. ‰ ↓	Salin. method	Extra info.	Card code			

77 11 0049

18	0030	01 72		07 48			09 50		1 4 03
18	0040	01 72		07 48					1 4 03
18	0050	01 65		07 54			09 24		1 4 03
18	0060	01 76		07 66					1 4 03
18	0070	02 49		08 09			07 53		1 4 03
18	0080	04 01		09 70			02 01		1 4 03
18	0090	04 31		10 37			01 67		1 4 03

77 11	0050	57 20	0	20 03	65 04	07	23	2 8 4 9
	0248	00 8			05 24		055	

24	0000	01 66		07 56			09 44	1 3 03
24	0005	01 66		07 55			09 38	1 3 03
24	0010	01 69		07 55			09 40	1 3 03
24	0015	01 62		07 52			09 46	1 3 03
24	0020	01 62		07 52			09 44	1 3 03
24	0030	01 64		07 56			09 34	1 3 03
24	0040	01 64		07 57			09 38	1 3 03
24	0050	01 68		07 64			09 29	1 3 03
24	0060	01 79		07 70			08 83	1 3 03
24	0070	04 02		09 76			02 24	1 3 03
24	0080	04 31		10 25			00 88	1 3 03
23	0090	04 36		10 32			00 92	1 3 03
23	0100	04 50		10 68			01 11	1 3 03
23	0125	04 96		11 73			01 94	1 3 03
23	0150	05 50		12 45			01 19	1 3 03
23	0175	05 66		12 71			00 91	1 3 03
23	0200	05 72		12 88			01 26	1 3 03
23	0225	06 15		13 04			01 98	1 3 03
23	0240	06 16		13 10			01 86	1 3 03

77 11	0051	58 00	0	19 54	65 04	08	05	1 6 4 9
	0200	-02			05 24		052	

05	0000	01 02		07 17			09 67	1 3 03
05	0005	01 01		07 17			09 58	1 3 03
05	0010	00 98		07 17			09 80	1 3 03
05	0015	01 07		07 13				1 3 03
05	0020	01 04		07 17				1 3 03
05	0030	01 23		07 34			09 46	1 3 03
05	0040	01 10		07 44				1 3 03
05	0050	01 16		07 47			09 24	1 3 03
05	0060	01 52		07 61			08 89	1 3 03
05	0070	02 86		08 36			06 15	1 3 03
05	0080	04 38		10 00			01 18	1 3 03
05	0090	04 48		10 48			01 10	1 3 03
05	0100	04 70		11 21			01 35	1 3 03

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C		Temperature °C		-Wind				Mixed layer depth m					
			Dry ↓	bulb	Wet ↓	bulb	Dir.	Speed kn.								
Obs. time	Obs. depth m	Temperature °C			Salinity ‰	$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code				
		↓	↓		↓	↓	↓	↓	↓	↓						

77 11 0051

05	0125	05	19		12	05			01	18		1	3	03
05	0150	05	24		12	24			00	83		1	3	03
05	0175	05	33		12	31			00	61		1	3	03
05	0190				12	62			00	48		1	3	03

77	11	0052	58	35	0	18	14	65	04	08	13	1	6	4	9
		0450	-01						07	18					038

13	0000	01	22		07	27				09	82		1	3	03
13	0005	01	11		07	27							1	3	03
13	0010	01	06		07	28				08	94		1	3	03
13	0015	01	08		07	28							1	3	03
13	0020	01	08		07	28							1	3	03
13	0030	00	98		07	29			09	71			1	3	03
13	0040	00	76		07	42			09	22			1	3	03
13	0050	01	17		07	60			08	69			1	3	03
13	0060	02	83		08	42			05	69			1	3	03
13	0070	03	76		09	27			02	50			1	3	03
13	0080	04	23		09	93			01	02			1	3	03
13	0090	04	46		10	39			00	56			1	3	03
13	0088	04	34		10	38			00	90			1	3	03
13	0110	04	54		10	56			00	58			1	3	03
13	0132	04	71		10	80			00	47			1	3	03
13	0153	04	70		10	89			00	55			1	3	03
13	0175	04	75		10	95			00	62			1	3	03
13	0265	04	72		11	14			00	83			1	3	03
13	0350	04	76		11	15			00	86			1	3	03
13	0390	04	77		11	15			00	87			1	3	03
13	0400	04	78		11	19			00	83			1	3	03
13	0440	04	78		11	19			00	83			1	3	03

77	11	0053	58	00	0	18	00	65	04	08	18	2	7	3	9
		0180	-01						09	20					065

18	0000	01	06		07	21				09	63		1	3	03
18	0005	01	04		07	21							1	3	03
18	0010	01	10		07	22				09	64		1	3	03
18	0015	01	08		07	22							1	3	03
18	0020	01	07		07	23							1	3	03
18	0030	01	06		07	23			09	64			1	3	03
18	0040	01	09		07	29							1	3	03
18	0050	01	01		07	29			09	48			1	3	03
18	0060	00	96		07	33			09	43			1	3	03
18	0070	00	91		07	46			09	11			1	3	03
18	0080	03	06		08	63			04	71			1	3	03
18	0090	04	05		09	67			01	51			1	3	03
18	0100	04	35		10	02			00	85			1	3	03

Country	Ship	Station number	Latitude		0:N+E 1:N+W 2:S+E 3:S+W	Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			°	'		°	'								
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb		Wind Dir.   Speed kn.		Mixed layer depth m					
Obs. time	Obs. depth m		Temperature °C ↓			Salinity ‰ ↓		$\sigma_t$ ↓	mi/l ↓	Oxygen Saturat. ‰ ↓	Salin. method	Extra info.	Card code		

77 11 0053

18	0125	04	39		10	26				00	51		1	3	03
18	0150	04	47		10	34				00	36		1	3	03
18	0170	04	51		10	37				00	28		1	3	03

77	11	0054	57	40	0	17	56	65	04	08	21		2	7	2 9
		0105	-01					09	16		061				

21	0000	01	10		07	25				08	81		1	3	03
21	0005	01	07		07	25				07	25		1	3	03
21	0010	01	08		07	25				09	70		1	3	03
21	0015	01	10		07	25							1	3	03
21	0020	01	14		07	25							1	3	03
21	0030	01	13		07	29				09	76		1	3	03
21	0040	00	95		07	29							1	3	03
21	0050	00	99		07	46				09	34		1	3	03
21	0060	01	28		07	61				08	61		1	3	03
21	0070	03	49		09	00				03	70		1	3	03
21	0080	04	21		09	96				00	89		1	3	03
21	0090	04	43		10	26				00	59		1	3	03
21	0100	04	48		10	39				00	48		1	3	03

77	11	0055	57	07	0	17	40	65	04	09	01		0	0	3 9
		0108	00					11	18		041				

01	0000	01	24		07	44				09	44		1	3	03
01	0005	01	23		07	44							1	3	03
01	0010	01	23		07	45				09	55		1	3	03
01	0015	01	25		07	50							1	3	03
01	0025	01	29		07	46				08	83		1	3	03
01	0035	01	22		07	46							1	3	03
01	0045	00	91		07	50				09	27		1	3	03
01	0055	01	41		07	65				08	57		1	3	03
01	0065	03	43		08	90				03	83		1	3	03
01	0075	04	13		09	71				01	45		1	3	03
01	0085	04	26		10	00				00	66		1	3	03
01	0095	04	32		10	09				00	56		1	3	03
01	0105	04	35		10	19				00	51		1	3	03

77	11	0056	56	33	0	17	04	65	04	09	06		1	1	3 9
		0070	00					11	24		059				

06	0000	01	38		07	49				09	47		1	3	03
06	0005	01	24		07	50							1	3	03
06	0010	01	25		07	50				09	43		1	3	03
06	0015	01	29		07	50							1	3	03
06	0020	01	27		07	46							1	3	03



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0	1	2	3	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			-Wind			Mixed layer depth m				
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		
77	11	0056														
	06	0030	01	34		07	50			09	49		1	3	03	
	06	0040	01	29		07	52						1	3	03	
	06	0050	01	31		07	52			09	38		1	3	03	
	06	0060	02	95		08	57			04	83		1	3	03	
77	11	0057	56	30	0	16	52	65	04	09	07		1	6	4	9
		0065	00					11	24							
	07	0000	01	62		07	54			09	53		1	3	03	
	07	0005	01	37		07	54						1	3	03	
	07	0010	01	36		07	54			09	48		1	3	03	
	07	0015	01	38		07	50						1	3	03	
	07	0020	01	38		07	50						1	3	03	
	07	0030	01	47		07	46			09	40		1	3	03	
	07	0040	01	40		07	54						1	3	03	
	07	0050	01	39		07	50			09	53		1	3	03	
	07	0060	01	41		07	53			09	38		1	3	03	
77	11	0058	56	19	0	16	41	65	04	09	09		2	7	4	9
		0028	01	6				11	22							
	09	0000	01	57		07	52			09	66		1	3	03	
	09	0005	01	55		07	52						1	3	03	
	09	0010	01	64		07	52			09	59		1	3	03	
	09	0015	01	56		07	50						1	3	03	
	09	0020	01	56		07	57						1	3	03	
	09	0025	01	57		07	54			09	65		1	3	03	
77	11	0059	58	26	0	11	02	65	05	18	14		2	7	1	9
		0055	09					18	10							
	14	0000	08	69		23	629						3	0	03	
	14	0005	08	61		23	687						3	0	03	
	14	0010	08	02		28	117						3	0	03	
	14	0015	07	76		30	892						3	0	03	
	14	0020	07	41		31	994						3	0	03	
	14	0025	07	19		32	604						3	0	03	
	14	0030	06	64		33	217						3	0	03	
	14	0040	06	19		33	582						3	0	03	
	14	0050	06	29		33	926						3	0	03	
	14	0055	06	32		33	927						3	0	03	
77	11	0060	58	27	0	11	03	65	05	19	12		0	0	1	9
		0060	07					28	10							
	12	0000	08	91		23	538						3	0	03	

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.	depth m					
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		

77 11 0060

12 0005	08 36			26 045								3 0 03
12 0010	07 70			28 893								3 0 03
12 0015	07 44			30 189								3 0 03
12 0020	06 87			32 733								3 0 03
12 0025	06 81			33 248								3 0 03
12 0030	06 40			33 499								3 0 03
12 0050	05 78			34 358								3 0 03
12 0055	05 53			34 737								3 0 03

77 11 0061	58 29	0	10 47	65 05	20 14	0 0 1 9
0126	10			29 10		

14 0000	09 41			23 950								3 0 03
14 0010	06 99			32 995								3 0 03
14 0020	05 30			34 310								3 0 03
14 0030	06 22			34 682								3 0 03
14 0040	05 88			34 719								3 0 03
14 0050	05 78			34 774								3 0 03
14 0060	05 77			34 815								3 0 03
14 0080	05 60			34 917								3 0 03
14 0100	05 01			34 909								3 0 03
14 0120	04 99			34 899								3 0 03

77 11 0062	58 32	0	10 30	65 05	25 13	0 0 0 9
0220	11			11 04		

13 0000	10 56			28 332								3 0 03
13 0010	06 07			33 800								3 0 03
13 0020	05 05			34 326								3 0 03
13 0030	04 96			34 509								3 0 03
13 0040	05 43			34 705								3 0 03
13 0050	06 37			34 922								3 0 03
13 0075	06 31			34 987								3 0 03
13 0100	06 22			35 022								3 0 03
13 0150	06 06			35 096								3 0 03
13 0200	06 23			35 158								3 0 03

77 11 0063	55 00	0	14 05	65 06	13 11	1 3 2 9
0049	17			27 04	011	

11 0000	12 19			07 91	07 82	1 3 03
11 0005	12 22			07 89	07 75	1 3 03
11 0010	11 90			07 90	07 77	1 3 03
11 0015	09 93			07 91	08 05Q	1 3 03
11 0020	07 61			08 02	08 05	1 3 03
11 0030	06 77			08 46	07 88	1 3 03

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice		
			0:N+E	1:N+W	2:S+E	3:S+W	0	1									2	3
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer							
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.								
Obs. time	Obs. depth m	Temperature °C			Salinity ‰	$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extr. time.	Code						
			↓			↓	↓	↓	↓									
77 11	0063																	
11	0040		08	10		10	96			06	89		1	3	03			
11	0046		06	81		13	78			05	40		1	3	03			
77 11	0064		55	18	0	14	24		65	06		13	13		2	7	2	9
	0049		15						27	12			000					
13	0000		11	66		07	85				07	96		1	3	03		
13	0005		11	68		07	83				07	95		1	3	03		
13	0010		11	04		07	84				08	07		1	3	03		
13	0015		09	56		07	88				08	46		1	3	03		
13	0020		06	97		07	86				08	73		1	3	03		
13	0030		05	91		07	93				08	26		1	3	03		
13	0040		05	01		08	30				07	97		1	3	03		
13	0046		06	20		16	64				05	56		1	3	03		
77 11	0065		55	23	0	15	20		65	06		13	17		2	7	0	9
	0089		15						27	12			008					
17	0000		10	06		07	91				08	27		1	3	03		
17	0005		09	93		07	87				08	30		1	3	03		
17	0010		09	73		07	87				08	23		1	3	03		
17	0015		06	71		07	81				08	64Q		1	3	03		
17	0020		06	39		07	81				08	56		1	3	03		
17	0030		05	32		07	87				08	47		1	3	03		
17	0040		02	95		08	01				08	35		1	3	03		
17	0050		01	90		08	52				08	04		1	3	03		
17	0060		04	48		13	17				03	76		1	3	03		
17	0070		07	78		16	35				01	58		1	3	03		
17	0080		07	89		16	82				01	17		1	3	03		
77 11	0066		55	15	0	15	59		65	06		13	19		2	7	2	9
	0093		11						34	02			006					
19	0000		10	59		07	75				08	14		1	3	03		
19	0005		10	61		07	72				08	10		1	3	03		
19	0010		10	14		07	73				08	10		1	3	03		
19	0015		08	86		07	87				08	45		1	3	03		
19	0020		08	37		07	88				09	15		1	3	03		
19	0030		06	64		07	90				08	63		1	3	03		
19	0040		05	41		07	93				08	44		1	3	03		
19	0050		02	77		08	16				08	25		1	3	03		
19	0060		02	46		09	32				06	80		1	3	03		
19	0070		06	75		14	22				02	81		1	3	03		
19	0080		07	58		16	28				01	07		1	3	03		
19	0087		07	72		16	56				00	79		1	3	03		
77 11	0067		55	13	0	17	04		65	06		13	23		0	0	2	9
	0087		11						36	08			009					



Country	Ship	Station number	Latitude		Longitude	Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W									
		Depth to bottom m	Temperature °C		Temperature °C		Wind		Mixed layer depth m				
			Dry ↓	bulb	Wet ↓	bulb	Dir.	Speed kn.					
Obs. time	Obs. depth m	Temperature °C		Salinity ‰	$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		
			↓	↓	↓	↓	↓	↓					

77 11 0067

23	0000	10	50		07	57			08	02		1	3	03
23	0005	10	47		07	56			08	00		1	3	03
23	0010	10	20		07	57			08	11		1	3	03
23	0015	08	82		07	65			08	47		1	3	03
23	0020	06	94		07	68			08	76		1	3	03
23	0030	05	02		07	68			08	47Q		1	3	03
23	0040	05	18		07	80			08	55		1	3	03
23	0050	03	73		07	94			08	36		1	3	03
23	0060	02	68		09	30			06	95		1	3	03
23	0070	03	93		11	46			04	88		1	3	03
23	0080	04	43		11	97			04	13		1	3	03

77	11	0068	55	38	0	18	36	65	06	14	05	1	2	2	9
		0095	11					02	14		015				

05	0000	10	12		07	53			08	86		1	3	03
05	0005	10	11		07	49			08	82		1	3	03
05	0010	10	09		07	49			08	81		1	3	03
05	0015	09	89		07	49			08	85		1	3	03
05	0020	06	77		07	49			09	14		1	3	03
05	0030	03	37		07	45			08	93		1	3	03
05	0040	03	27		07	54			08	84		1	3	03
05	0050	02	18		07	54			08	82Q		1	3	03
05	0060	02	25		07	61			08	51		1	3	03
05	0070	02	36		07	91			07	13		1	3	03
05	0080	03	31		09	31			04	31		1	3	03
05	0090	04	27		11	29			02	21		1	3	03

77	11	0069	56	07	0	19	19	65	06	14	09	1	1	2	9
		0117	12					36	12						

09	0000	10	28		07	32			08	90		1	3	03
09	0005	10	30		07	32			08	84Q		1	3	03
09	0010	10	25		07	37			08	87		1	3	03
09	0015	07	48		07	29			08	45		1	3	03
09	0020	06	41		07	40			08	95		1	3	03
09	0030	03	52		07	47			08	80		1	3	03
09	0040	02	73		07	50			08	72		1	3	03
09	0050	02	85		07	54			08	89		1	3	03
09	0060	02	32		07	61			08	71		1	3	03
09	0070	02	22		07	85			07	48		1	3	03
09	0080	03	65		09	42			02	78		1	3	03
09	0090	04	28		10	42			01	27		1	3	03
09	0100	04	04		11	08			02	22		1	3	03
09	0110	04	94		11	45			01	64		1	3	03

77	11	0070	56	51	0	18	52	65	06	14	14	1	1	1	9
		0104	12					36	04		000				

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W										
		Depth to bottom m	Temperature °C		Temperature °C		-Wind				Mixed layer depth m					
			Dry ↓	bulb	Wet ↓	bulb	Dir.	Speed kn.								
Obs. time	Obs. depth m	Temperature °C		Salinity ‰	$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code					
		↓		↓	↓	↓	↓	↓								

77 11 0070

14	0000	11	60		07	29			08	56		1	3	03
14	0005	11	34		07	29			08	55		1	3	03
14	0010	10	50		07	32			08	86		1	3	03
14	0015	08	31		07	36			09	16		1	3	03
14	0020	06	77		07	40			09	01		1	3	03
14	0030	04	13		07	47			08	96		1	3	03
14	0040	03	48		07	50			09	89		1	3	03
14	0050	02	97		07	55			09	04		1	3	03
14	0060	02	45		07	62			08	76		1	3	03
14	0070	02	47		08	09			06	38		1	3	03
14	0080	03	91		09	73			02	06		1	3	03
14	0090	04	49		10	73			01	84		1	3	03
14	0100	04	90		11	64			01	58		1	3	03

77	11	0071	56	59	0	18	47	65	06	14	16	0	0	1	9
		0064	12					36	02		000				

16	0000	11	03		07	29			08	69		1	3	03
16	0005	10	55		07	29			08	76		1	3	03
16	0010	10	08		07	28			08	86Q		1	3	03
16	0015	09	28		07	31			09	00		1	3	03
16	0020	06	19		07	36			09	19Q		1	3	03
16	0030	03	54		07	40			09	07Q		1	3	03
16	0040	02	88		07	47			08	97		1	3	03
16	0050	02	98		07	56			09	00Q		1	3	03
16	0060	01	96		07	61			08	70		1	3	03

77	11	0072	57	05	0	18	42	65	06	14	16	0	0	0	9
		0029	14					99	00		000				

16	0000	11	44		07	31			08	53		1	3	03
16	0005	10	74		07	30			08	62		1	3	03
16	0010	10	23		07	30			08	57		1	3	03
16	0015	09	04		07	33			08	37		1	3	03
16	0020	08	74		07	33			08	28		1	3	03
16	0027	08	39		07	30			08	94		1	3	03

77	11	0073	57	26	0	19	08	65	06	14	19	0	0	0	9
		0052	13					05	06		012				

19	0000	10	48		07	21			08	54		1	3	03
19	0005	10	31		07	21			08	60		1	3	03
19	0010	10	18		07	24			08	53Q		1	3	03
19	0015	09	37		07	26			08	67		1	3	03
19	0020	07	84		07	25			08	79		1	3	03
19	0030	05	85		07	31			08	79		1	3	03



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. %	Salin. method	Extra info.	Card code		
			↓			↓			↓	↓	↓					

77 11 0073

19 0040 04 25 07 36 08 65 1 3 03  
 19 0050 03 32 07 43 08 51 1 3 03

77 11 0074 57 24 0 19 26 65 06 14 20 1 1 0 9  
 0123 13 05 06 005

20 0000 11 10 07 24 08 64 1 3 03  
 20 0005 11 09 07 23 08 74 1 3 03  
 20 0010 10 45 07 21 08 82 1 3 03  
 20 0015 09 31 07 26 09 16 1 3 03  
 20 0020 06 25 07 29 09 18 1 3 03  
 20 0030 04 11 07 37 08 87 1 3 03  
 20 0040 03 43 07 42 08 91 1 3 03  
 20 0050 02 53 07 45 08 86Q 1 3 03  
 20 0060 02 33 07 51 09 00Q 1 3 03  
 20 0070 02 72 08 03 06 41 1 3 03  
 20 0080 03 98 09 71 01 28 1 3 03  
 20 0090 04 36 10 55 01 11 1 3 03  
 20 0100 04 26 11 38 01 23 1 3 03  
 20 0120 05 23 15 88 00 71 1 3 03

77 11 0075 57 22 0 19 44 65 06 14 22 1 1 0 9  
 0175 12 05 06 005

22 0000 10 31 07 04 08 72 1 3 03  
 22 0005 10 34 07 04 08 02 1 3 03  
 22 0010 09 53 07 04 08 86 1 3 03  
 22 0015 07 02 07 04 09 03 1 3 03  
 22 0020 06 01 07 04 08 96 1 3 03  
 22 0030 02 86 07 14 09 01 1 3 03  
 22 0040 01 67 07 26 08 97 1 3 03  
 22 0050 01 68 07 41 08 72 1 3 03  
 22 0060 01 54 07 50 08 07 1 3 03  
 22 0070 02 80 08 51 04 66 1 3 03  
 22 0080 04 03 09 99 01 57 1 3 03  
 22 0090 04 45 10 79 01 56 1 3 03  
 22 0100 04 80 11 37 01 71 1 3 03  
 22 0125 05 55 12 61 01 64 1 3 03  
 22 0150 05 61 12 65 00 88 1 3 03  
 22 0165 05 73 00 78 3 03

77 11 0076 57 20 0 20 03 65 06 15 00 1 1 0 9  
 0253 10 00 00 005

01 0000 10 86 07 26 08 71 1 3 03  
 01 0005 10 82 07 26 08 84 1 3 03



Country	Ship	Station number	Latitude		0N+E 1:N+W 2:S+E 3:S+W	Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			o	'		o	'								
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb		-Wind Dir.   Speed kn.		Mixed layer depth m					
Obs. time	Obs. depth m	Temperature °C ↓			Salinity ‰ ↓	$\sigma_t$ ↓	ml/l ↓	Oxygen ↓	Saturat. % ↓	Salin. method	Extra info.	Card code			

77 11 0076

01	0010	10	19		07	26		09	07		1	3	03			
01	0015	09	78		07	26		09	14Q		1	3	03			
01	0020	08	06		07	40		09	41Q		1	3	03			
01	0030	05	50		07	47		08	93		1	3	03			
01	0040	03	31		07	47		09	07		1	3	03			
01	0050	02	46		07	52		08	81		1	3	03			
01	0055	02	52		07	54					1	0	03			
01	0060	02	43		07	59		08	82		1	3	03			
01	0065	02	09		07	70					1	0	03			
01	0070	02	45		07	99		06	78		1	3	03			
01	0080	03	94		09	61		01	77		1	3	03			
01	0090	04	06		10	96		01	25		1	3	03			
01	0100	04	86		11	64		01	67		1	3	03			
00	0125	05	35		12	60		01	37		1	3	03			
00	0150	05	63		12	63		00	91		1	3	03			
00	0175	05	69		12	74		00	98		1	3	03			
00	0200	05	79		12	88		01	17		1	3	03			
00	0225	05	96		12	98		01	30		1	3	03			
00	0245	06	02		13	06		00	71		1	3	03			

77	11	0077	57	18	0	20	21	65	06	15	02	0	0	0	9
		0190	10					00	00		000				

02	0000	10	14		07	10		08	50		1	3	03			
02	0005	10	49		07	14		08	70		1	3	03			
02	0010	09	67		07	14		08	79		1	3	03			
02	0015	08	13		07	22		08	90		1	3	03			
02	0020	06	56		07	40		09	77Q		1	3	03			
02	0030	03	18		07	46		08	85		1	3	03			
02	0040	02	17		07	46		08	88Q		1	3	03			
02	0050	03	07		07	52		08	82		1	3	03			
02	0060	02	36		07	62		08	62		1	3	03			
02	0070	02	99		08	60		04	49		1	3	03			
02	0080	04	07		09	98		01	33		1	3	03			
02	0090	04	48		10	79		01	38		1	3	03			
02	0100	04	72		11	36		01	46		1	3	03			
02	0125	05	25		12	16		01	35		1	3	03			
02	0150	05	55		12	56		00	84		1	3	03			
02	0175	05	71		12	67		00	56		1	3	03			

77	11	0078	57	16	0	20	39	65	06	15	03	0	0	0	9
		0108	10					00	00		008				

03	0000	10	88		07	02		08	31		1	3	03			
03	0005	10	55		07	02		08	43		1	3	03			
03	0010	09	11		07	02		08	68		1	3	03			
03	0015	06	85		07	04		08	76		1	3	03			

Country	Ship	Station number	Latitude		Longitude	Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E 1:N+W 2:S+E 3:S+W										
		Depth to bottom m	Temperature °C Dry ↓ bulb		Temperature °C Wet ↓ bulb	Wind Dir.   Speed kn.		Mixed layer depth m					
Obs. time	Obs. depth m	Temperature °C ↓		Salinity ‰ ↓	$\sigma_t$ ↓	ml/l	Oxygen ↓	Saturat. % ↓	Salin. method	Extra info.	Card code		

77 11 0078

03 0020	04 26		07 11			08 93		1 3 03
03 0030	03 02		07 28			09 01Q		1 3 03
03 0040	02 50		07 41			08 96		1 3 03
03 0050	02 40		07 47			09 04Q		1 3 03
03 0060	01 95		07 59			08 49		1 3 03
03 0070	03 55		09 23			02 78		1 3 03
03 0080	04 18		10 12			01 29		1 3 03
03 0090	04 37		10 55			01 30		1 3 03
03 0100	04 61		11 00			01 34		1 4 03

77 11 0079	57 13	0	20 56		65 06	15 05		0 0 0 9
0034	11				00 00		006	

05 0000	11 08		06 91			08 18		1 3 03
05 0005	11 06		06 91			08 91		1 3 03
05 0010	10 24		06 91			08 24		1 3 03
05 0015	09 74		06 91			08 36		1 3 03
05 0020	09 10		06 96			08 28		1 3 03
05 0030	05 41		07 10			08 52		1 3 03

77 11 0080	57 42	0	21 09		65 06	15 08		0 0 0 9
0047	13				18 04		007	

08 0000	10 55		06 83			08 20		1 3 03
08 0005	10 45		06 83			08 21		1 3 03
08 0010	10 15		06 83			08 29		1 3 03
08 0015	05 84		06 91			08 64		1 3 03
08 0020	04 23		07 13			08 71		1 3 03
08 0030	01 82		07 35			08 56		1 3 03
08 0040	01 64		07 41			08 38		1 3 03
08 0045	01 99		07 50			08 48		1 3 03

77 11 0081	57 47	0	20 50		65 06	15 09		1 1 1 9
0091	13				18 06		004	

09 0000	10 84		06 75			08 59		1 3 03
09 0005	10 85		06 78			08 53		1 3 03
09 0010	09 12		06 89			08 79		1 3 03
09 0015	06 93		06 89			08 82		1 3 03
09 0020	04 89		06 96			08 83Q		1 3 03
09 0030	03 52		07 03			09 17		1 3 03
09 0040	01 60		07 16			09 11		1 3 03
09 0050	01 41		07 41			08 35		1 3 03
09 0060	02 28		08 05			06 09		1 3 03
09 0070	03 76		09 46			02 10		1 3 03
09 0080	04 27		10 31			01 17		1 3 03

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			1:N+W	2:S+E	3:S+W	1	2	3								
		Depth to bottom m	Temperature °C		Temperature °C			-Wind		Mixed layer depth m						
			Dry ↓	bulb	Wet ↓	bulb	Dir.	Speed kn.								
Obs. time	Obs. depth m	Temperature °C		Salinity ‰	$\sigma_t$	ml/l	Oxygen	Saturat. %	Salin. method	Extra info.	Card code					
		↓	↓	↓	↓	↓	↓	↓								
77	11	0081														
	09	0085	04	36	10	56				01	16			1	3	03
77	11	0082	57	51	0	20	32	65	06	15	10			0	0	1 9
		0100	14					20	08							005
	10	0000	11	14		06	94			08	56			1	3	03
	10	0005	11	16		06	96			08	62			1	3	03
	10	0010	09	79		06	96			09	17			1	3	03
	10	0015	09	30		07	02			09	05			1	3	03
	10	0020	07	52		07	02			08	88			1	3	03
	10	0030	03	35		07	10			08	97			1	3	03
	10	0040	01	85		07	26			08	94Q			1	3	03
	10	0050	01	68		07	40			08	65			1	3	03
	10	0060	01	85		07	76			07	16			1	3	03
	10	0070	03	37		09	02			03	10			1	3	03
	10	0080	04	13		10	00			01	18			1	3	03
	10	0090	04	56		11	10			01	25			1	3	03
77	11	0083	57	55	0	20	13	65	06	15	13			1	6	2 9
		0122	14					20	12							008
	13	0000	10	91		06	90			08	43			1	3	03
	13	0005	10	96		06	89			07	85			1	3	03
	13	0010	09	06		06	84			08	80			1	3	03
	13	0015	06	17		06	86			08	94			1	3	03
	13	0020	05	02		06	89			08	94			1	3	03
	13	0030	03	55		07	03			09	08			1	3	03
	13	0040	02	52		07	14			09	19			1	3	03
	13	0050	01	66		07	28			08	65			1	3	03
	13	0060	01	68		07	56			08	14			1	3	03
	13	0070	03	50		09	20			02	44			1	3	03
	13	0080	04	14		10	12			01	16			1	3	03
	13	0090	04	47		10	87			01	32			1	3	03
	13	0100	04	68		11	26			01	47			1	3	03
	13	0115	05	22		12	02			01	53			1	3	03
77	11	0084	58	00	0	19	54	65	06	15	14			1	6	3 9
		0207	13					23	14							011
	15	0000	10	54		06	97			08	84			1	3	03
	15	0005	10	51		06	95			08	80			1	3	03
	15	0010	10	43		06	94			08	82			1	3	03
	15	0015	09	27		06	95			09	00			1	3	03
	15	0020	07	35		06	95			08	90			1	3	03
	15	0030	04	10		07	02			09	01			1	3	03
	15	0040	01	93		07	22			08	99			1	3	03



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W										
		Depth to bottom m	Temperature °C			Temperature °C			Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	Oxygen		Saturat. ‰	Salin. method	Extra info.	Card code		
		↓			↓			↓	ml/l	↓	↓					

77 11 0084

15	0050	02	01		07	34				08	97		1	3	03
15	0060	01	73		07	47				08	65		1	3	03
15	0070	02	11		07	95				06	52		1	3	03
14	0100	04	09		11	07				01	31		1	3	03
14	0125	05	09		11	96				01	28		1	3	03
14	0150	05	37		12	32				00	56		1	3	03
14	0175	05	43		12	43				00	46		1	3	03
14	0190	05	45		12	44				00	23		1	3	03

77	11	0085	58	04	0	19	37	65	06	15	16		4	9	3	9
		0150	11					23	12		012					

16	0000	09	96		06	95				08	89		1	3	03
16	0005	09	98		06	95				08	77		1	3	03
16	0010	09	99		06	95				08	89		1	3	03
16	0015	09	81		06	95				08	92		1	3	03
16	0020	08	14		07	06				09	10		1	3	03
16	0030	05	52		07	20				09	13		1	3	03
16	0040	02	26		07	31				08	85		1	3	03
16	0050	02	18		07	43				08	97		1	3	03
16	0060	01	99		07	48				09	46		1	3	03
16	0070	02	28		07	96				06	62		1	3	03
16	0080	03	96		09	72				01	28		1	3	03
16	0090	04	34		10	48				01	13		1	3	03
16	0100	04	57		11	12				01	42		1	3	03
16	0130	05	18		12	18				00	83		1	3	03

77	11	0086	58	08	0	19	19	65	06	15	18		4	9	2	9
		0039	11					20	12		009					

18	0000	10	15		07	08				08	81		1	3	03
18	0005	10	09		07	09				08	85		1	3	03
18	0010	07	26		07	13				09	00		1	3	03
18	0015	04	18		07	17				08	91		1	3	03
18	0020	02	29		07	28				08	96		1	3	03
18	0030	02	31		07	39				08	96		1	3	03

77	11	0087	58	13	0	18	58	65	06	15	19		2	7	2	9
		0123	12					23	08		010					

19	0000	10	60		07	10				08	44		1	3	03
19	0005	10	06		07	10				08	54		1	3	03
19	0010	09	10		07	10				08	76		1	3	03
19	0015	06	22		07	11				09	03		1	3	03
19	0020	05	07		07	17				08	98		1	3	03
19	0030	02	89		07	25				08	86		1	3	03

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		

77 11 0087

19	0040	02 21		07 32				08 71				1 3 03
19	0050	02 57		07 42				08 90				1 3 03
19	0060	01 65		07 55				08 20				1 3 03
19	0070	02 34		08 18				05 82				1 3 03
19	0080	04 08		09 91				00 78				1 3 03
19	0090	03 95		10 54				00 50				1 3 03
19	0100	04 05		10 70				00 46				1 3 03
19	0115	04 60		10 96				00 48				1 3 03

77	11	0088	58 17	0	18 41	65 06	15	21				2 7 3 9
		0115	12			18 12		010				

21	0000	09 97		07 02				08 45				1 3 03
21	0005	09 96		07 02				08 35				1 3 03
21	0010	09 95		07 00				08 46				1 3 03
21	0015	09 22		06 99				09 42				1 3 03
21	0020	04 92		07 13				09 00Q				1 3 03
21	0030	03 87		07 26				08 92				1 3 03
21	0040	03 02		07 28				09 00				1 3 03
21	0050	02 18		07 35				08 97				1 3 03
21	0060	01 97		07 43				08 74				1 3 03
21	0070	01 72		07 72				07 45				1 3 03
21	0080	03 90		09 70				01 16				1 3 03
21	0090	04 33		10 24				00 48				1 3 03
21	0100	04 47		10 57				00 49				1 3 03

77	11	0089	58 21	0	18 24	65 06	15	22				2 8 3 9
		0135	11			23 14		010				

22	0000	09 99		07 08				08 40				1 3 03
22	0005	09 97		07 07				08 48				1 3 03
22	0010	09 96		07 06				08 46				1 3 03
22	0015	08 69		07 05				08 72				1 3 03
22	0020	06 09		07 10				08 78				1 3 03
22	0030	03 33		07 21				09 03				1 3 03
22	0040	02 87		07 29				08 93				1 3 03
22	0050	03 50		07 36				08 85				1 3 03
22	0060	03 00		07 42				08 78				1 3 03
22	0070	02 40		07 49				08 58				1 3 03
22	0080	03 18		08 02				03 25				1 3 03
22	0090	04 31		10 24				00 47				1 3 03
22	0100	04 53		10 66				00 43				1 3 03
22	0125	04 67		11 03				00 43				1 3 03

77	11	0090	58 35	0	18 14	65 06	16	01				2 8 2 9
		0450	12			23 08		012				



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0:N+E	1:N+W								
		Depth to bottom m	Temperature °C			Temperature °C			Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	Oxygen		Saturat. ‰	Salin. method	Extra info	Card code		
		↓			↓			↓	ml/l	↓	↓					

77 11 0090

01	0000	10	99		07	06				08	53		1	3	03
01	0005	10	95		07	06				08	48		1	3	03
01	0010	10	87		07	05				08	49		1	3	03
01	0015	07	93		07	14				09	01		1	3	03
01	0020	04	31		07	12				08	69		1	3	03
01	0030	03	08		07	25				09	14		1	3	03
01	0040	02	08		07	36				08	93		1	3	03
01	0050	01	98		07	41				08	89		1	3	03
01	0060	01	96		07	50				08	50		1	3	03
01	0070	02	91		08	55				04	38		1	3	03
01	0080	04	37		10	36				00	43		1	3	03
01	0090	04	60		10	79				00	57		1	3	03
01	0100	04	60		10	86				00	52		1	3	03
01	0125	04	63		10	98				00	55		1	3	03
01	0150	04	63		11	05				00	68		1	3	03
01	0200	04	70		11	20				00	73		1	3	03
01	0300	04	73		11	25				00	75		1	3	03
01	0400	04	75		11	26				00	73		1	3	03
01	0440	04	75		11	28				00	71		1	3	03

77	11	0091	58	25	0	18	06	65	06	16	03		2	8	2	9
		0100	13					20	10		009					

03	0000	10	88		07	07				08	50		1	3	03
03	0005	10	83		07	04				08	49		1	3	03
03	0010	10	83		07	03				08	53		1	3	03
03	0015	08	52		07	07				09	02Q		1	3	03
03	0020	05	63		07	22				09	07		1	3	03
03	0030	03	58		07	26				09	06		1	3	03
03	0040	04	98		07	36				08	90		1	3	03
03	0050	03	83		07	41				08	82		1	3	03
03	0060	03	17		07	46				08	77		1	3	03
03	0070	01	70		07	60				07	98		1	3	03
03	0080	03	79		09	49				01	40		1	3	03
03	0090	04	46		10	54				00	52		1	3	03

77	11	0092	58	29	0	17	49	65	06	16	05		2	8	2	9
		0080	12					23	02		010					

05	0000	11	40		07	04				08	26		1	3	03
05	0005	11	38		07	05				08	20		1	3	03
05	0010	10	73		07	24				08	60		1	3	03
05	0015	06	92		07	24				09	24		1	3	03
05	0020	04	92		07	29				09	00		1	3	03
05	0030	04	75		07	36				08	96		1	3	03
05	0040	03	00		07	39				08	80		1	3	03
05	0050	02	46		07	43				08	79		1	3	03



Country	Ship	Station number	Latitude		0:N+E 1:N+W 2:S+E 3:S+W	Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			°	'		°	'								
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb		-Wind Dir.   Speed kn.		Mixed layer depth m					
Obs. time	Obs. depth m	Temperature °C ↓			Salinity ‰ ↓	$\sigma_t$ ↓	ml/l	Oxygen Saturat. % ↓	Salin. method	Extra info.	Card code				

77 11 0092

05	0060	01	85		07	66		07	83			1	3	03
05	0070	03	89		09	65		00	92			1	3	03

77	11	0093	58	33	0	17	32	65	06	16	06	2	7	2	9
		0053	12					18	04		005				

06	0000	11	15		06	39		08	21			1	3	03
06	0005	11	15		06	39		08	08			1	3	03
06	0010	09	69		06	51		08	74			1	3	03
06	0015	07	12		06	54		08	87			1	3	03
06	0020	09	75		06	91		08	72			1	3	03
06	0030	05	86		07	21		08	51			1	3	03
06	0040	04	25		07	22		08	69			1	3	03
06	0050	02	26		07	86		06	61			1	3	03

77	11	0094	58	00	0	18	00	65	06	16	10	2	7	2	9
		0200	15					18	10		013				

10	0000	11	11		07	44		08	36			1	3	03
10	0005	11	02		07	41		08	33			1	3	03
10	0010	11	00		07	42		08	34			1	3	03
10	0015	10	80		07	42		08	40			1	3	03
10	0020	07	82		07	44		08	72			1	3	03
10	0030	05	05		07	44		08	68			1	3	03
10	0040	03	71		07	47		08	75			1	3	03
10	0050	02	58		07	47		08	72			1	3	03
10	0060	02	18		07	54		08	36			1	3	03
10	0070	02	66		08	42		04	53			1	3	03
10	0080	03	99		09	72		00	95			1	3	03
10	0090	04	27		10	12		00	37			1	3	03
10	0100	04	37		10	09		00	35			1	3	03
10	0125	04	50		10	49		00	24			1	3	03
10	0150	04	48		10	54		00	27			1	3	03
10	0172	04	57		10	68		00	33			1	3	03
10	0197	04	60		10	71		00	25			1	3	03

77	11	0095	57	39	0	18	12	65	06	16	13	2	8	3	9
		0098	14					18	16		016				

13	0000	11	32		07	40		08	08			1	3	03
13	0005	11	30		07	44		08	06			1	3	03
13	0010	11	29		07	42		08	16			1	3	03
13	0015	11	16		07	41		08	09			1	3	03
13	0020	09	12		07	42		08	48			1	3	03
13	0030	06	92		07	43		08	42			1	3	03
13	0040	05	82		07	46		08	52			1	3	03

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. %	Salin. method	Extra info.	Card code		

77 11 0095

13	0050	04	49		07	46				08	56		1	3	03	
13	0060	02	84		07	57				08	27		1	3	03	
13	0070	02	60		07	69				07	64		1	3	03	
13	0080	03	32		08	98				02	82		1	3	03	
13	0090	04	23		10	15				00	36		1	3	03	

77	11	0096	57	40	0	17	56	65	06		16	15	2	8	5	9
		0105	14					18	18			010				

15	0000	11	15		07	41				08	09		1	3	03	
15	0005	11	09		07	41				08	03		1	3	03	
15	0010	10	88		07	39				08	14		1	3	03	
15	0015	07	29		07	42				08	36		1	3	03	
15	0020	06	35		07	46				08	59		1	3	03	
15	0030	05	70		07	46				08	47		1	3	03	
15	0040	05	32		07	47				08	40		1	3	03	
15	0050	04	44		07	48				08	58		1	3	03	
15	0060	02	47		07	52				08	76		1	3	03	
15	0070	01	98		07	73				07	50		1	3	03	
15	0080	03	80		09	45				01	59		1	3	03	
15	0090	04	36		10	26				00	39		1	3	03	
15	0100	04	43		10	53				00	04		1	3	03	

77	11	0097	57	42	0	17	39	65	06		16	16	2	8	4	9
		0093	14					18	20			013				

16	0000	11	14		07	44				08	24		1	3	03	
16	0005	11	17		07	42							1	3	03	
16	0010	11	16		07	41				08	32		1	3	03	
16	0015	10	44		07	41				09	23		1	3	03	
16	0020	06	46		07	43				08	56		1	3	03	
16	0030	03	92		07	42				08	82		1	3	03	
16	0040	03	58		07	46				09	61		1	3	03	
16	0050	03	22		07	50				08	45		1	3	03	
16	0060	02	02		07	81				07	11		1	3	03	
16	0070	03	58		09	24				01	93		1	3	03	
16	0080	04	16		09	97				00	57		1	3	03	
16	0090	04	29		10	19				00	36		1	3	03	

77	11	0098	57	43	0	17	22	65	06		16	18	2	8	4	9
		0150	13					16	16			014				

18	0000	11	06		07	28				08	30		1	3	03	
18	0005	11	10		07	28				08	39		1	3	03	
18	0010	11	05		07	27				08	29		1	3	03	
18	0015	10	35		07	34				08	60		1	3	03	

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0-N+E	1-N+W	2-S+E	3-S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			Wind		Mixed layer					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.	depth m					
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		
		↓			↓			↓	↓	↓	↓					

77 11 0098

18	0020	05	52		07	40				08	97		1	3	03	
18	0030	04	29		07	43				08	89		1	3	03	
18	0040	03	03		07	45				08	90		1	3	03	
18	0050	02	31		07	52				08	50		1	3	03	
18	0060	02	74		08	44				04	82		1	3	03	
18	0070	03	83		09	57				01	18		1	3	03	
18	0080	04	24		09	63				00	52		1	3	03	
18	0090	04	32		10	16				00	32		1	3	03	
18	0100	04	41		10	24				00	29		1	3	03	
18	0125	04	49		10	41				00	25		1	3	03	
18	0140	04	48		10	45				00	27		1	3	03	

77 11 0099      57 45      0      17 06      65 06      16      19      2 8 4 9  
0069      13                     16 16           009

19	0000		65		07	17				08	3		1	3	03	
19	0005	11	61		07	16				08	22		1	3	03	
19	0010	11	51		07	22				08	63		1	3	03	
19	0015	06	76		07	34				09	02		1	3	03	
19	0020	04	41		07	32				08	78		1	3	03	
19	0030	04	19		07	38				08	77		1	3	03	
19	0040	03	01		07	41				08	75		1	3	03	
19	0050	02	21		07	60				07	80		1	3	03	
19	0060	03	35		07	62				02	48		1	3	03	

77 11 0100      57 46      0      16 50      65 06      16      21      2 7 2 9  
0018      14                     16 12           011

21	0000	12	41		06	94				07	72		1	3	03	
21	0005	12	38		06	94				07	80		1	3	03	
21	0010	12	25		06	94				07	83		1	3	03	
21	0015	09	00		06	92				08	21		1	3	03	

77 11 0101      57 07      0      17 40      65 06      17      01      2 8 3 9  
0109      12                     16 10           016

01	0000	10	80		07	42				08	22		1	3	03	
01	0005	10	81		07	42				08	27		1	3	03	
01	0010	10	79		07	42				08	24		1	3	03	
01	0015	10	78		07	45				08	29		1	3	03	
01	0020	06	01		07	47				08	23		1	3	03	
01	0030	04	64		07	42				08	94		1	3	03	
01	0040	03	75		07	42				08	84		1	3	03	
01	0050	03	40		07	49				08	65		1	3	03	
01	0060	02	16		07	60				08	13		1	3	03	
01	0070	02	44		08	24				05	26		1	3	03	



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C		Temperature °C		-Wind				Mixed layer depth m					
			Dry ↓	bulb	Wet ↓	bulb	Dir.	Speed kn.								
Obs. time	Obs. depth m	Temperature °C		Salinity ‰	$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code					
			↓	↓	↓	↓	↓	↓								

77 11 0101

01 0080	03 99			09 68				00 69			1 3 03				
01 0090	04 25			10 04				00 33			1 3 03				
01 0100	04 28			10 16				00 04			1 3 03				

77 11 0102	56 33	0		17 04			65 06	17	06		2 8 3 9				
0071	13						14 14		011						

06 0000	11 54			07 57				08 02			1 3 03				
06 0005	11 49			07 57				08 02			1 3 03				
06 0010	11 43			07 57				08 02			1 3 03				
06 0015	07 49			07 53				08 88			1 3 03				
06 0020	06 13			07 52				08 77			1 3 03				
06 0030	05 74			07 58				08 41			1 3 03				
06 0040	04 85			07 73				08 32			1 3 03				
06 0050	03 67			07 90				07 98			1 3 03				
06 0060	03 04			08 09				07 72			1 3 03				

77 11 0103	56 30	0		16 52			65 06	17	07		2 7 3 9				
0064	13						14 14		010						

07 0000	12 31			07 38				07 76			1 3 03				
07 0005	12 27			07 38				07 80			1 3 03				
07 0010	11 99			07 42				07 84			1 3 03				
07 0015	11 48			07 51				08 13			1 3 03				
07 0020	09 65			07 61				08 41			1 3 03				
07 0030	05 41			07 57				08 51			1 3 03				
07 0040	05 04			07 72				08 21			1 3 03				
07 0050	03 87			07 87				08 08			1 3 03				
07 0060	03 05			08 02				07 81			1 3 03				

77 11 0104	56 19	0		16 41			65 06	17	08		2 7 3 9				
0028	13						14 20		009						

08 0000	12 61			07 42				07 65			1 3 03				
08 0005	12 59			07 42				07 66			1 3 03				
08 0010	12 05			07 42				07 85			1 3 03				
08 0015	11 03			07 50				08 10			1 3 03				
08 0020	10 37			07 47				08 22			1 3 03				
08 0025	07 47			07 42				08 66			1 3 03				

77 11 0105	58 26	0		11 04			65 08	03	09		0 0 1 9				
0058	13						36 02								

09 0000	14 26			31 079							3 0 03				
09 0005	14 17			31 541							3 0 03				

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C		Temperature °C		Wind				Mixed layer depth m					
			Dry ↓	bulb	Wet ↓	bulb	Dir.	Speed kn.								
Obs. time	Obs. depth m	Temperature °C		Salinity ‰	$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code					
			↓		↓		↓	↓		↓						

77 11 0105

09 0010	14 00		32 179								3 0 03
09 0015	14 00		32 084								3 0 03
09 0020	14 25										0 03
09 0025	13 87		32 255								3 0 03
09 0030	13 67										0 03
09 0040	13 59		32 567								3 0 03
09 0050	13 37		32 772								3 0 03
09 0055	12 94		32 857								3 0 03

77 11 0106	58 29	0	10 47	65 08	09 16	1 1 1 9
0124	15			16 10		

16 0000	15 15		29 624								3 0 03
16 0010	13 83		31 355								3 0 03
16 0020	13 42		32 788								3 0 03
16 0030	12 31		33 976								3 0 03
16 0040	10 97		34 182								3 0 03
16 0060	08 28		34 830								3 0 03
16 0080	07 90		34 884								3 0 03
16 0100	07 45		35 015								3 0 03
16 0120	07 31		35 039								3 0 03

77 11 0107	58 30	0	10 30	65 08	12 17	0 0 1 9
0230	16			25 06		

17 0000	15 61		30 464								3 0 03
17 0010	14 36		31 276								3 0 03
17 0020	11 72		34 816								3 0 03
17 0030	08 76		34 891								3 0 03
17 0050	07 83		34 853								3 0 03
17 0075	06 97		34 968								3 0 03
17 0100	06 84		35 082								3 0 03
17 0150	06 58		35 090								3 0 03
17 0200	06 46		35 114								3 0 03

77 11 0108	57 12	0	11 39	65 08	25 16	2 7 3 9
0075	16			14 14	000	

16 0000	16 82		22 657		06 01	3 3 03
16 0005	15 90		25 045		06 02	3 3 03
16 0010	15 26		28 652		05 85	3 3 03
16 0015	14 60		31 259		05 63	3 3 03
16 0020	14 48		31 442		05 58	3 3 03
16 0030	13 94		32 000		05 34	3 3 03
16 0040	10 42		33 092		05 20	3 3 03
16 0050	09 45		33 442		05 00	3 3 03

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			1:N+W	2:S+E	3:S+W	1	2	3								
		Depth to bottom m	Temperature °C			Temperature °C			Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	Oxygen		Saturat. %	Salin. method	Extra info.	Card code		

77 11 0108

16	0060	08	65		33	982		05	12			3	3	03	
16	0070	08	36		34	298		04	93			3	3	03	

77	11	0109	56	58	0	11	46	65	08	25	18	2	8	3	9
		0095	16					14	20		008				

18	0000	17	12		17	576		06	27			3	3	03	
18	0005	17	14		17	606		06	26			3	3	03	
18	0010	16	59		19	305		06	34			3	3	03	
18	0015	14	71		29	958		05	60			3	3	03	
18	0020	14	44		30	749		05	41			3	3	03	
18	0030	13	21		31	992		05	23			3	3	03	
18	0040	10	60		32	802		05	01			3	3	03	
18	0050	08	17		33	339		04	73			3	3	03	
18	0060	07	82		33	702		04	64			3	3	03	
18	0070	07	86		33	908		04	64			3	3	03	
18	0080	07	84		33	963		04	57			3	3	03	
18	0090	07	84		33	985		04	63			3	3	03	

77	11	0110	56	33	0	12	13	65	08	25	21	2	8	4	9
		0045	13					16	24		009				

21	0000	17	12		19	016		06	15			3	3	03	
21	0005	17	12		19	108		06	14			3	3	03	
21	0010	16	83		20	013		06	15			3	3	03	
21	0015	15	14		23	122		06	03			3	3	03	
21	0020	14	05		28	930		05	18			3	3	03	
21	0030	11	29		32	098		05	16			3	3	03	
21	0040	07	31		33	185		04	38			3	3	03	

77	11	0111	56	14	0	12	22	65	08	26	00	2	8	4	9
		0023	13					27	32		012				

00	0000	16	97		15	968		06	30			3	3	03	
00	0005	17	03		16	448		06	18			3	3	03	
00	0010	17	24		18	059		06	23			3	3	03	
00	0015	13	30		29	757		05	09			3	3	03	
00	0020	08	31		32	827		04	20			3	3	03	

77	11	0112	56	07	0	12	32	65	08	26	02	2	8	4	9
		0026	12					29	36		007				

02	0000	16	75		10	147		06	41			3	3	03	
02	0005	16	19		15	942		06	15			3	3	03	
02	0010	14	21		24	042		05	23			3	3	03	



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			1:N+W	2:S+E	3:S+W	1:N+W	2:S+E	3:S+W								
		Depth to bottom m	Temperature °C			Temperature °C			Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. %	Salin. method	Extra info.	Card code		
			↓		↓		↓	↓	↓	↓	↓					

77 11 0112

02 0015	11 01				30 962					04 61		3 3 03				
02 0023	09 18				32 326					03 84		3 3 03				

77 11 0113	55 52	0		12 45		65 08		26	04		1 2 2 9					
0043	13					23 18			009							

04 0000	16 86			08 832				06 50			3 3 03					
04 0005	16 88			08 915				06 48			3 3 03					
04 0010	14 74			22 967				05 21			3 3 03					
04 0015	12 83			26 954				04 59			3 3 03					
04 0020	09 82			31 274				03 62			3 3 03					
04 0030	08 63			32 219				03 06			3 3 03					
04 0040	08 56			32 275				03 04			3 3 03					

77 11 0114	55 46	0		12 48		65 08		26	05		1 2 2 9					
0017	13					23 18			008							

05 0000	17 07			08 769				06 58			3 3 03					
05 0005	17 07			08 805				06 47			3 3 03					
05 0010	14 58			22 641				05 34			3 3 03					
05 0015	11 33			29 560				03 57			3 3 03					

77 11 0115	55 36	0		12 51		65 08		26	06		1 3 2 9					
0008	13					23 26			008							

06 0000	16 31			11 620				06 14			3 3 03					
06 0002	16 25			11 670				06 14			3 3 03					
06 0004	16 26			11 666				06 12			3 3 03					
06 0006	16 27			11 652				06 11			3 3 03					

77 11 0116	55 00	0		14 05		65 08		26	15		1 2 2 9					
0048	15					23 14			017							

15 0000	15 73			07 92				06 80			1 3 03					
15 0005	15 71			07 89				06 85			1 3 03					
15 0010	15 62			07 89				06 78			1 3 03					
15 0015	15 66			07 89				06 87			1 3 03					
15 0020	15 49			07 89				06 85			1 3 03					
15 0030	09 77			08 23				06 57			1 3 03					
15 0040	13 37			14 24				05 05			1 3 03					
15 0045	13 11			15 49				04 01			1 3 03					

77 11 0117	55 18	0		14 24		65 08		26	18		1 1 3 9					
0049	16					23 14			016							

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0	1	2	3	0	1								
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb			-Wind Dir.   Speed kn.		Mixed layer depth m					
Obs. time	Obs. depth m	Temperature °C ↓			Salinity ‰ ↓	$\sigma_t$ ↓	ml/l ↓	Oxygen ↓	Saturat. % ↓	Salin. method	Extra info.	Card code				

77 11 0117

18	0000	15	09		07	88		06	92			1	3	03		
18	0005	15	10		07	86		06	91			1	3	03		
18	0010	15	10		07	82		06	90			1	3	03		
18	0015	15	09		07	86		06	98			1	3	03		
18	0020	09	37		08	02		07	12			1	3	03		
18	0030	05	39		08	02		07	41			1	3	03		
18	0040	05	49		08	29		06	99			1	3	03		
18	0045	12	50		15	70		04	33			1	3	03		

77	11	0118	55	23	0	15	20	65	08	26	21	0	0	2	9	
		0090	15					23	14		021					

21	0000	15	30		07	81		07	00			1	3	03		
21	0005	15	29		07	81		07	07			1	3	03		
21	0010	15	30		07	77		06	94			1	3	03		
21	0015	15	30		07	77		06	86			1	3	03		
21	0020	15	28		07	77		06	96			1	3	03		
21	0030	12	14		07	82		06	40			1	3	03		
21	0040	05	20		08	00		07	38			1	3	03		
21	0050	05	16		09	99		05	87			1	3	03		
21	0060	07	36		14	12		02	99			1	3	03		
21	0070	07	98		16	08		00	73			1	3	03		
21	0080	07	78		16	76		00	32			1	3	03		
21	0085	07	84		16	98		00	06			1	3	03		

77	11	0119	55	15	0	15	59	65	08	27	00	0	0	1	9	
		0091	15					23	02		016					

00	0000	15	63		07	77		06	98			1	3	03		
00	0005	15	61		07	77		06	86			1	3	03		
00	0010	15	60		07	77		06	82			1	3	03		
00	0015	15	59		07	77		06	95			1	3	03		
00	0020	14	36		07	83		06	68			1	3	03		
00	0030	09	39		07	70		06	86			1	3	03		
00	0040	04	79		07	96		07	43			1	3	03		
00	0050	04	10		08	13		07	22			1	3	03		
00	0060	04	99		09	75		06	15			1	3	03		
00	0070	06	38		13	33		03	45			1	3	03		
00	0080	07	19		15	78		00	56			1	3	03		
00	0087	07	59		16	45		00	27			1	3	03		

77	11	0120	55	13	0	17	04	65	08	27	04	2	8	1	9	
		0089	14					27	04		015					

04	0000	15	62		07	67		06	79			1	3	03		
04	0005	15	65		07	61		06	85			1	3	03		



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C		Temperature °C			Wind		Mixed layer						
			Dry ↓	bulb	Wet ↓	bulb	Dir.	Speed kn.			depth m					
Obs. time	Obs. depth m	Temperature °C		Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code			
		↓		↓			↓	↓	↓	↓						

77 11 0120

04	0010	15	63		07	66				06	90		1	3	03
04	0015	15	59		07	62				06	93		1	3	03
04	0020	13	72		07	62				06	42		1	3	03
04	0030	10	77		07	67				07	45		1	3	03
04	0040	04	91		07	92				07	32		1	3	03
04	0050	04	44		08	15				07	03		1	3	03
04	0060	06	12		10	64				05	53		1	3	03
04	0070	07	06		12	28				04	51		1	3	03
04	0080	06	61		13	42				03	49		1	3	03
04	0087	06	38		14	25				01	70		1	3	03

77	11	0121	55	38	0	18	36	65	08	27	10	6	8	1	9
		0095	13					29	06		019				

10	0000	15	62		07	48				06	89		1	3	03
10	0005	15	60		07	47							1	3	03
10	0010	15	59		07	45				07	17		1	3	03
10	0015	15	59		07	45							1	3	03
10	0020	14	93		07	55							1	3	03
10	0030	13	36		07	53				06	44		1	3	03
10	0040	12	64		07	57							1	3	03
10	0050	05	63		07	68				07	69		1	3	03
10	0060	02	76		08	06				06	94		1	3	03
10	0070	03	30		09	45				04	37		1	3	03
10	0080	04	39		10	71				01	15		1	3	03
10	0090	05	05		12	32				01	61		1	3	03

77	11	0122	56	07	0	19	19	65	08	27	14	6	8	3	9
		0116	12					36	16		015				

14	0000	15	42		07	30				07	03		1	3	03
14	0005	15	43		07	25							1	3	03
14	0010	15	46		07	28				06	95		1	3	03
14	0015	15	21		07	30							1	3	03
14	0020	14	40		07	57				06	58		1	3	03
14	0030	06	04		07	39				07	61		1	3	03
14	0040	02	65		07	57							1	3	03
14	0050	02	32		07	68				08	11		1	3	03
14	0060	02	31		07	92				06	80		1	3	03
14	0070	03	58		09	50				02	83		1	3	03
14	0080	04	30		10	50				00	98		1	3	03
14	0090	04	63		11	31				01	73		1	3	03
14	0100	04	88		11	63				01	35		1	3	03
14	0110	04	81		11	89				01	62		1	3	03

77	11	0123	56	51	0	18	52	65	08	27	19	6	8	4	9
		0095	12					32	28		016				



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.	depth m					
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		
		↓			↓			↓	↓	↓	↓					

77 11 0123

19 0000	14 72			07 36				06 85				1 3 03
19 0005	14 73			07 38								1 3 03
19 0010	14 70			07 36				06 86				1 3 03
19 0015	14 56			07 36								1 3 03
19 0020	14 13			07 36								1 3 03
19 0030	02 95			07 51				08 08				1 3 03
19 0040	02 81											3 03
19 0050	02 55			07 72				07 69				1 3 03
19 0060	02 75			08 29				05 26				1 3 03
19 0070	03 76			09 54				01 67				1 3 03
19 0080	04 16			10 15				00 90				1 3 03
19 0090	04 36			10 19				01 07				1 3 03

77 11 0124	56 59	0	18 47			65 08		28 03				2 8 4 9
0066	13					34 26		019				

03 0000	14 99			07 10				06 87				1 3 03
03 0005	14 95			07 12								1 3 03
03 0010	14 96			07 10				06 88				1 3 03
03 0015	14 96			07 10								1 3 03
03 0020	14 82			07 14								1 3 03
03 0030	04 80			07 36				07 80				1 3 03
03 0040	02 86			07 57				08 12				1 3 03
03 0050	02 58			07 59				07 99				1 3 03
03 0060	02 29			07 83				07 05				1 3 03

77 11 0125	57 05	0	18 42			65 08		28 05				6 8 4 9
0034	13					34 20		024				

05 0000	14 66			07 17				06 81				1 3 03
05 0005	14 71			07 17								1 3 03
05 0010	14 69			07 17				06 86				1 3 03
05 0015	14 72			07 15								1 3 03
05 0020	14 65			07 17								1 3 03
05 0030	05 33			07 34				07 86				1 3 03

77 11 0126	57 26	0	19 08			65 08		28 09				4 8 2 9
0049	15					32 12		012				

09 0000	14 57			07 02				06 80				1 3 03
09 0005	14 47			07 02								1 3 03
09 0010	14 08			07 02				06 80				1 3 03
09 0015	09 87			07 13								1 3 03
09 0020	03 59			07 29								1 3 03
09 0030	03 20			07 50				07 72				1 3 03
09 0040	03 26			07 50				07 50				1 3 03

Country	Ship	Station number	Latitude		0-N+E 1-N+W 2-S+E 3-S+W	Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			o	'		o	'								
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb		-Wind Dir.   Speed kn.				Mixed layer depth m			
Obs. time	Obs. depth m	Temperature °C ↓			Salinity ‰ ↓	$\sigma_t$ ↓	ml/l ↓	Oxygen Saturat. % ↓	Salin. method	Extra info.	Card code				
77 11	0127 0115	57 24 15	0	19 26	65 08 32 06	28	11	4 8 2 9							
11	0000	15 26		07 15		06 90		1 3 03							
11	0005	15 30		07 14				1 3 03							
11	0010	14 98		07 14		06 83		1 3 03							
11	0015	14 90		07 18				1 3 03							
11	0020	14 26		07 26				1 3 03							
11	0030	02 86		07 32		08 31		1 3 03							
11	0040	02 79		07 48				1 3 03							
11	0050	02 70		07 65		08 07		1 3 03							
11	0060	02 39		07 80				1 3 03							
11	0070	03 03		08 69		04 04		1 3 03							
11	0080	04 15		10 13		01 23		1 3 03							
11	0090	04 50		10 76		00 73		1 3 03							
11	0100	04 72		11 32		01 42		1 3 03							
77 11	0128 0160	57 22 16	0	19 44	65 08 09 06	28	12	2 8 2 9							
12	0000	15 55		06 95		07 06		1 3 03							
12	0005	15 53		06 93				1 3 03							
12	0010	15 22		06 97		06 44		1 3 03							
12	0015	15 12		06 97				1 3 03							
12	0020	15 34		07 14				1 3 03							
12	0030	04 53		07 26		07 73		1 3 03							
12	0040	03 39		07 49				1 3 03							
12	0050	02 72		07 59		06 53		1 3 03							
12	0060	02 47		07 79		06 91		1 3 03							
12	0070	03 19		08 99		03 27		1 3 03							
12	0080	04 12		10 07		01 16		1 3 03							
12	0090	04 27		10 63		01 10		1 3 03							
12	0100	04 73		11 25		01 57		1 3 03							
12	0125	05 35		12 15		01 08		1 3 03							
12	0150	05 72		12 82		00 60		1 3 03							
77 11	0129 0250	57 20 16	0	20 03	65 08 14 04	28	14	2 8 2 9							
14	0000	15 78		06 91		07 03		1 3 03							
14	0005	15 74		06 95		06 96		1 3 03							
14	0010	15 62		06 91		06 81		1 3 03							
14	0015	15 46		06 95		06 56		1 3 03							
14	0020	15 31		07 28		05 75		1 3 03							
14	0030	03 21		07 30		08 28		1 3 03							
14	0040	02 91		07 44		06 06		1 3 03							
14	0050	02 87		07 59		07 63		1 3 03							
14	0060	02 57		07 77		07 06		1 3 03							
14	0070	03 29		09 16		03 03		1 3 03							

Country	Ship	Station number	Latitude		D-N+E 1:N+W 2:S+E 3:S+W	Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			°	'		°	'								
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb		-Wind Dir.   Speed kn.		Mixed layer depth m					
Obs. time	Obs. depth m	Temperature °C ↓			Salinity ‰ ↓	$\sigma_t$ ↓	ml/l ↓	Oxygen Saturat. % ↓	Salin. method	Extra info.	Card code				

77 11 0129

14	0080	03	98		09	92		01	31			1	3	03
14	0090	04	46		10	80		01	30			1	3	03
14	0100	04	64		11	24		01	80			1	3	03
14	0125	05	24		12	00		01	61			1	3	03
14	0150	05	58		12	52		00	97			1	3	03
14	0175	05	65		12	69		00	63			1	3	03
14	0200	05	73		12	76		00	72			1	3	03
14	0225	05	84		12	93		00	77			1	3	03
14	0245	05	91		13	05		00	48			1	3	03

77	11	0130	57	18	0	20	21	65	08	28	16	2	8	1	9
		0190	15					14	04		015				

16	0000	15	53		06	88		07	02			1	3	03
16	0005	15	50		06	88						1	3	03
16	0010	15	24		07	10		06	78			1	3	03
16	0015	15	29		07	14						1	3	03
16	0020	08	54		07	14						1	3	03
16	0030	03	18		07	51		07	92			1	3	03
16	0040	03	05		07	58						1	3	03
16	0050	02	69		07	66		07	49			1	3	03
16	0060	02	47		07	81		06	59			1	3	03
16	0070	02	61		08	07		05	58			1	3	03
16	0080	04	01		09	94		01	13			1	3	03
16	0090	04	40		10	55		01	00			1	3	03
16	0100	04	62		10	95		01	00			1	3	03
16	0125	05	21		11	92		01	51			1	3	03
16	0150	05	56		12	35		01	25			1	3	03
16	0175	05	62		12	67		00	19			1	3	03

77	11	0131	57	16	0	20	39	65	08	28	18	2	8	1	9
		0075	15					16	04		016				

18	0000	15	58		06	84		07	05			1	3	03
18	0005	15	57		06	80						1	3	03
18	0010	15	64		06	84		06	88			1	3	03
18	0015	15	67		06	91						1	3	03
18	0020	14	44		07	25						1	3	03
18	0030	06	80		07	23		07	18			1	3	03
18	0040	03	11		07	43						1	3	03
18	0050	02	72		07	67		07	31			1	3	03
18	0060	03	05		08	72		03	85			1	3	03
18	0070	04	09		10	14		01	76			1	3	03

77	11	0132	57	13	0	20	56	65	08	28	19	2	8	1	9
		0027	15					16	04		017				



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W										
		Depth to bottom m	Temperature °C		Temperature °C		-Wind				Mixed layer depth m					
			Dry ↓	bulb	Wet ↓	bulb	Dir.	Speed kn.								
Obs. time	Obs. depth m	Temperature °C			Salinity ‰	$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code				
		↓			↓	↓	↓	↓	↓	↓						

77 11 0132

19 0000	15 93			07 18				06 73			1 3 03
19 0005	15 95			07 14							1 3 03
19 0010	15 76			07 16				06 71			1 3 03
19 0015	15 76			07 16							1 3 03
19 0020	13 93			07 24				05 94			1 3 03
19 0025	13 79			07 25				06 00			1 3 03

77 11 0133	58 00	0		19 54			65 08	29 02			2 8 2 9
0183	15						27 02			016	

02 0000	15 30			06 84				07 06			1 3 03
02 0005	15 34			06 87							1 3 03
02 0010	15 35			06 88				06 93			1 3 03
02 0015	15 22			06 88							1 3 03
02 0020	08 30			07 03							1 3 03
02 0030	03 58			07 25				08 35			1 3 03
02 0040	02 52			07 40							1 3 03
02 0050	02 20			07 65				07 30			1 3 03
02 0060	03 09			09 03				03 44			1 3 03
02 0070	04 01			10 00				00 93			1 3 03
02 0075	04 20			10 28				00 66			1 3 03
02 0085	04 47			10 66				00 62			1 3 03
02 0095	04 60			10 94				00 56			1 3 03
02 0120	05 00			11 75				01 11			1 3 03
02 0145	05 33			12 28				00 66			1 3 03
02 0170	05 51			12 42				00 47			1 3 03

77 11 0134	58 27	0		20 20			65 08	29 06			2 8 1 9
0116	15						27 10			016	

06 0000	15 54			06 93				06 98			1 3 03
06 0005	15 52			06 92							1 3 03
06 0010	15 52			06 92				07 01			1 3 03
06 0015	15 48			06 92							1 3 03
06 0020	15 12			07 03							1 3 03
06 0030	12 28			07 17				06 30			1 3 03
06 0040	05 72			07 30							1 3 03
06 0050	03 51			07 53				07 29			1 3 03
06 0060	03 33			09 11							1 3 03
06 0070	04 10			10 04				01 05			1 3 03
06 0080	04 37			10 56				00 71			1 3 03
06 0090	04 56			10 88				00 59			1 3 03
06 0100	04 70			11 21				00 67			1 3 03
06 0110	04 79			11 40							1 3 03

77 11 0135	59 18	0		21 28			65 08	29 12			2 8 2 9
0125	15						23 10			013	

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C		Temperature °C		Wind				Mixed layer depth m					
			Dry ↓	bulb	Wet ↓	bulb	Dir.	Speed kn.								
Obs. time	Obs. depth m	Temperature °C		Salinity ‰	$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code					
		↓		↓	↓	↓	↓	↓								

77 11 0135

12	0000	15	84		06	88		06	65		1	3	03
12	0005	15	85									3	03
12	0010	15	81		06	92		06	93		1	3	03
12	0015	15	55		06	96					1	3	03
12	0020	15	39		06	96					1	3	03
12	0030	15	14		06	98		06	36		1	3	03
12	0040	03	58		07	03					1	3	03
12	0050	02	79		07	21		06	75		1	3	03
12	0060	02	27		07	61		06	68		1	3	03
12	0070	03	38		09	15		02	74		1	3	03
12	0080	04	14		10	10		00	89		1	3	03
12	0090	04	57		10	96		00	32		1	3	03
12	0100	04	65		11	15		00	29		1	3	03
12	0122				11	24		00	29		1	6	03

77	11	0136	60	12	0	19	09	65	08	29	22	0	0	2	9
		0290	13					18	16		016				

23	0000	13	76		05	71					1	3	03
23	0005	13	79		05	69		06	98		1	3	03
23	0010	13	73		05	65		07	03		1	3	03
23	0015	13	61		05	69		06	90		1	3	03
23	0020	12	05		06	30		06	99		1	3	03
23	0030	04	43		06	45		07	86		1	3	03
23	0040				06	62		06	68		1	3	03
23	0050	02	63		06	89		07	49		1	3	03
23	0060	03	77		06	99		07	78		1	3	03
23	0070	03	70		07	03		07	70		1	3	03
23	0080	03	67		07	10		07	74		1	3	03
23	0090	03	62		07	14		07	52		1	3	03
22	0100	03	37		07	19		07	58		1	3	03
22	0125	03	18		07	30		07	40		1	3	03
22	0150	03	26		07	35		06	84		1	3	03
22	0175	03	20		07	37		07	05		1	3	03
22	0200	03	06		07	46		07	00		1	3	03
22	0275	03	06		07	57		06	37		1	3	03

77	11	0137	58	35	0	18	14	65	08	30	14	1	1	3	9
		0450	14					20	20		019				

14	0000	14	78		06	62		07	02		1	3	03
14	0005	14	70		06	62		07	02		1	3	03
14	0010	14	72		06	62		06	95		1	3	03
14	0015	14	65		06	66		06	92		1	3	03
14	0020	14	32		06	66		06	84		1	3	03
14	0030	03	51		07	21		08	25		1	3	03
14	0040	02	92		07	35		08	17		1	3	03



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer depth m					
			Dry ↓	bulb		Wet ↓	bulb	Dir.	Speed kn.							
Obs. time	Obs. depth m	Temperature °C			Salinity ‰	$\sigma_t$	ml/l	Oxygen	Saturat. %	Salin. method	Extra info.	Card code				
		↓			↓	↓	↓	↓	↓							

77 11 0137

14	0050	02	60		07	50		08	16		1	3	03
14	0060	02	40		08	07		05	96		1	3	03
14	0070	03	47		09	39		02	22		1	3	03
14	0080	04	18		10	05		00	58		1	3	03
14	0090	04	40		10	44		00	48		1	3	03
14	0100	04	52		10	76		00	39		1	3	03
14	0125	04	60		10	94		00	58		1	3	03
14	0150	04	63		11	05		00	68		1	3	03
14	0200	04	76		11	29		00	63		1	3	03
14	0300	04	77		11	36		00	84		1	3	03
14	0400	04	80		11	39		00	82		1	3	03
14	0425	04	81		11	39		00	80		1	3	03
14	0440	04	78		11	39		00	71		1	3	03

77	11	0138	58	00	0	18	00	65	08	30	18	0	0	3	9
		0175	13					23	18		018				

19	0000	14	83		06	65		06	97		1	3	03
19	0005	14	83		06	65		06	94		1	3	03
19	0010	14	84		06	70		06	92		1	3	03
19	0015	14	83		06	66		06	94		1	3	03
19	0020	06	40		07	13		07	68		1	3	03
19	0030	03	55		07	35		08	24		1	3	03
19	0040	02	82		07	51		07	99		1	3	03
19	0050	02	21		07	80		06	79		1	3	03
19	0060	02	96		08	76		03	62		1	3	03
19	0070	03	96		09	89		00	78		1	3	03
19	0080	04	31		10	30		00	14		1	3	03
18	0085	04	35		10	34		00	30		1	3	03
18	0095	04	46		10	49		00	22		1	3	03
18	0120	04	52		10	69		00	28		1	3	03
18	0145	04	57		10	83		00	23		1	3	03
18	0165	04	53		10	83		00	31		1	3	03

77	11	0139	57	39	0	18	12	65	08	30	22	0	0	3	9
		0095	13					23	18		014				

22	0000	14	16		06	74		07	03		1	3	03
22	0005	14	17		06	70					1	3	03
22	0010	14	16		06	74		07	01		1	3	03
22	0015	10	90		06	97					1	3	03
22	0020	06	11		07	17					1	3	03
22	0030	03	93		07	33		08	17		1	3	03
22	0040	03	58		07	45					1	3	03
22	0050	02	60		07	74		07	15		1	3	03
22	0060	02	69		08	23		05	25		1	3	03
22	0070	03	52		09	19		01	53		1	3	03



Country	Ship	Station number	Latitude		0:N+E 1:N+W 2:S+E 3:S+W	Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			°	'		°	'								
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb		Wind Dir.   Speed kn.		Mixed layer depth m					
Obs. time	Obs. depth m	Temperature °C ↓			Salinity ‰ ↓	$\sigma_t$ ↓	ml/l ↓	Oxygen Saturat. % ↓	Salin. method	Extra info.	Card code				

77 11 0139

22 0080	03 76		09 51				00 87				1 3 03				
22 0090	04 21		10 11				00 07				1 3 03				

77 11 0140	57 40	0	17 56		65 08		30 23				0 0 3 9				
0105	13				23 18		019								

23 0000	14 39		06 70				07 13				1 3 03				
23 0005	14 37		06 70								1 3 03				
23 0010	14 38		06 68				07 06				1 3 03				
23 0015	14 37		06 70								1 3 03				
23 0020	14 13		06 74								1 3 03				
23 0030	10 93		07 00				07 34				1 3 03				
23 0040	02 67		07 86								1 3 03				
23 0050	02 90		08 48				04 40				1 3 03				
23 0060	03 41		09 17				02 17				1 3 03				
23 0070	04 01		09 86				00 51				1 3 03				
23 0080	04 24		10 11				00 16				1 3 03				
23 0090	04 39		10 30				00 13				1 3 03				

77 11 0141	57 42	0	17 39		65 08		31 01				0 0 3 9				
0095	13				23 16		015								

01 0000	14 60		06 77				06 93				1 3 03				
01 0005	14 58		06 75								1 3 03				
01 0010	14 56		06 74				06 95				1 3 03				
01 0015	14 45		06 74								1 3 03				
01 0020	05 07		06 96								1 3 03				
01 0030	03 54		07 21				08 35				1 3 03				
01 0040	03 10		07 33								1 3 03				
01 0050	02 92		07 44				08 20				1 3 03				
01 0060	02 43		07 72				07 23				1 3 03				
01 0070	02 88		08 58				04 21				1 3 03				
01 0080	04 02		09 90				00 50				1 3 03				
01 0090	04 33		10 30				00 15				1 3 03				

77 11 0142	57 43	0	17 22		65 08		31 02				0 0 3 9				
0150	12				23 12		015								

03 0000	14 35		06 69				06 96				1 3 03				
03 0005	14 38		06 70								1 3 03				
03 0010	14 37		06 70				06 87				1 3 03				
03 0015	14 34		06 72								1 3 03				
03 0020	04 37		07 04								1 3 03				
03 0030	03 72		07 26				08 32				1 3 03				
03 0040	03 02		07 33								1 3 03				
03 0050	03 01		07 41				08 03				1 3 03				

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C		Temperature °C		-Wind				Mixed layer depth m					
			Dry ↓	bulb	Wet ↓	bulb	Dir.	Speed kn.								
Obs. time	Obs. depth m	Temperature °C		Salinity ‰	$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code					
		↓		↓	↓	↓	↓	↓								

77 11 0142

03	0060	02	27		07	57				07	60		1	3	03
03	0070	02	98		08	74				03	73		1	3	03
02	0080	03	78		09	69				00	98		1	3	03
02	0090	04	34		10	20				00	35		1	3	03
02	0100	04	41		10	36				00	12		1	3	03
02	0125	04	51		10	61				00	07		1	3	03
02	0140	04	52		10	66				00	11		1	3	03

77 11 0143 57 45 0 17 06 65 08 31 04 0 0 2 9  
0074 13 27 12 018

04	0000	14	71		06	64				06	81		1	3	03
04	0005	14	73		06	65							1	3	03
04	0010	14	72		06	65				06	91		1	3	03
04	0015	14	73		06	65							1	3	03
04	0020	14	38		06	65							1	3	03
04	0030	03	82		07	19				08	30		1	3	03
04	0040	04	06		07	19							1	3	03
04	0050	03	32		07	41				08	04		1	3	03
04	0060	02	74		07	54				07	83		1	3	03
04	0070	03	98		09	93				00	37		1	3	03

77 11 0144 57 46 0 16 50 65 08 31 06 0 0 2 9  
0027 13 27 08 012

06	0000	14	23		06	72				07	04		1	3	03
06	0005	14	31		06	72							1	3	03
06	0010	14	21		06	72				07	16		1	3	03
06	0015	12	29		06	77							1	3	03
06	0020	08	10		07	07							1	3	03
06	0025	07	46		07	12				07	21		1	3	03

77 11 0145 57 37 0 17 02 65 08 31 07 0 0 2 9  
0055 14 27 08 013

07	0000	14	61		06	66				06	91		1	3	03
07	0005	14	59		06	66							1	3	03
07	0010	14	43		06	74				06	99		1	3	03
07	0015	14	18		06	78							1	3	03
07	0020	07	76		07	08							1	3	03
07	0030	04	97		07	29				07	84		1	3	03
07	0040	04	18		07	38				07	97		1	3	03

77 11 0146 57 31 0 17 06 65 08 31 08 0 0 2 9  
0064 14 27 06 012

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		

77 11 0146

08 0000	14 79			06 85				06 95				1 3 03			
08 0005	14 61			06 83								1 3 03			
08 0010	14 59			06 83				06 93				1 3 03			
08 0015	14 57			06 83								1 3 03			
08 0020	08 96			07 19								1 3 03			
08 0030	05 78			07 35				07 61				1 3 03			
08 0040	04 77			07 36								1 3 03			
08 0050	04 67			07 37				07 71				1 3 03			
08 0060	04 47			07 39				07 62				1 3 03			

77 11 0147	57 26	0	17 01	65 08			31	09				0 0 2 9			
0051	15			27 06				017							

09 0000	14 57			06 82				06 98				1 3 03			
09 0005	14 53			06 82								1 3 03			
09 0010	14 45			06 85				06 99				1 3 03			
09 0015	14 67			06 95								1 3 03			
09 0020	10 38			07 05								1 3 03			
09 0030	05 93			07 29				07 58				1 3 03			
09 0040	05 06			07 35								1 3 03			
09 0050	03 99			07 41				07 71				1 3 03			

77 11 0148	57 07	0	17 40	65 08			31	13				0 0 2 9			
0107	14			18 08				008							

13 0000	14 50			06 78				07 08				1 3 03			
13 0005	14 46			06 78				07 02				1 3 03			
13 0010	14 10			06 79				07 07				1 3 03			
13 0015	13 35			06 82				07 03				1 3 03			
13 0020	08 86			07 10				07 26				1 3 03			
13 0030	03 84			07 35				08 12				1 3 03			
13 0040	03 19			07 46				08 01				1 3 03			
13 0050	02 70			07 91				06 51				1 3 03			
13 0060	03 31			08 93				02 53				1 3 03			
13 0070	03 99			09 83				00 03				1 3 03			
13 0080	04 23			10 12				00 06				1 3 03			
13 0090	04 35			10 28				00 03				1 3 03			
13 0100	04 44			10 37				00 03				1 3 03			
13 0105	04 43			10 45								1 3 03			

77 11 0149	56 33	0	17 04	65 08			31	17				0 0 2 9			
0067	14			18 06											

17 0000	15 27			07 06				06 97				1 3 03			
17 0005	15 24			07 06								1 3 03			
17 0010	15 01			07 06				06 87				1 3 03			



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.	depth m					
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml / l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		
		↓			↓			↓	↓	↓	↓					

77 11 0149

17 0015	14 73			07 08								1 3 03
17 0020	09 80			07 28								1 3 03
17 0030	03 72			07 33				08 12				1 3 03
17 0040	03 35			07 46								1 3 03
17 0050	03 17			07 51				07 87				1 3 03
17 0060	03 04			08 39				04 40				1 3 03

77 11 0150	56 30	0	16 52	65 08		31	19	0 0 2 9
0066	14			18 06			019	

19 0000	14 88			07 08			07 04	1 3 03
19 0005	14 83			07 08				1 3 03
19 0010	14 51			07 12			07 06	1 3 03
19 0015	14 41			07 14				1 3 03
19 0020	13 24			07 20				1 3 03
19 0030	04 73			07 46			07 77	1 3 03
19 0040	03 16			07 58				1 3 03
19 0050	03 00			07 78			06 71	1 3 03
19 0060	02 98			08 08			04 75	1 3 03

77 11 0151	56 19	0	16 41	65 08		31	20	0 0 1 9
0032	13			18 04			007	

20 0000	12 67			07 12			07 21	1 3 03
20 0005	12 43			07 26				1 3 03
20 0010	12 11			07 26			07 28	1 3 03
20 0015	08 48			07 31				1 3 03
20 0020	05 55			07 34			07 82	1 3 03
20 0030	03 95			07 36			08 04	1 3 03

77 11 0152	55 10	0	12 43	65 09		01	14	2 8 3 9
0030	15			11 06			018	

14 0000	14 86			08 36			06 78	1 3 03
14 0005	14 81			08 38			06 77	1 3 03
14 0010	14 80			08 41			06 76	1 3 03
14 0015	14 70			08 54			06 74	1 3 03
14 0020	10 55			08 35			06 51	1 3 03
14 0027	13 73			11 90			05 22	1 3 03

77 11 0153	55 36	0	12 51	65 09		01	17	2 8 2 9
0008	15			09 12			008	

17 0000	15 24			10 092			06 39	3 3 03
17 0002	15 22			10 101			06 34	3 3 03

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0	1	2	3	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		
			↓		↓		↓	↓	↓	↓	↓					
77	11	0153														
	17	0004	15	21		10	092			06	34		3	3	03	
	17	0006	15	21		10	092			06	35		3	3	03	
77	11	0154	55	46	0	12	48	65	09	01	20		2	8	2	9
		0017	14					05	12		010					
	20	0000	15	47		11	289			06	37		3	3	03	
	20	0005	15	36		11	639			06	30		3	3	03	
	20	0010	15	41		16	456			05	89		3	3	03	
	20	0015	12	14		27	508			03	91		3	3	03	
77	11	0155	55	52	0	12	45	65	09	01	21		2	8	2	9
		0045	14					05	12		013					
	21	0000	15	29		12	483			06	34		3	3	03	
	21	0005	15	29		12	760			06	28		3	3	03	
	21	0010	15	44		15	230			06	22		3	3	03	
	21	0015	13	76		24	173			04	98		3	3	03	
	21	0020	10	68		30	192			03	69		3	3	03	
	21	0030	09	48		31	861			03	17		3	3	03	
	21	0040	09	37		31	936			03	09		3	3	03	
77	11	0156	56	07	0	12	32	65	09	01	23		2	8	2	9
		0026	14					05	08							
	23	0000	15	31		15	861			06	29		3	3	03	
	23	0005	15	32		17	509			06	08		3	3	03	
	23	0010	14	83		20	002			05	71		3	3	03	
	23	0015	10	01		31	573			03	89		3	3	03	
	23	0020	08	62		32	645			03	79		3	3	03	
	23	0023	08	42		32	797			03	69		3	3	03	
77	11	0157	56	14	0	12	22	65	09	02	00		2	8	2	9
		0023	14					05	14		012					
	00	0000	15	74		18	097			06	27		3	3	03	
	00	0005	15	71		18	122			06	37		3	3	03	
	00	0010	16	26		20	072			05	87		3	3	03	
	00	0015	11	86		30	350			04	01		3	3	03	
	00	0020	09	43		32	738			04	53		3	3	03	
77	11	0158	56	33	0	12	13	65	09	02	03		2	8	3	9
		0045	13					07	14		012					
	03	0000	15	31		19	959			06	15		3	3	03	

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0: N	1: N+W	2: S+E	3: S+W	0: E	1: W								
		Depth to bottom m	Temperature °C		Temperature °C		Wind				Mixed layer depth m					
			Dry ↓	bulb	Wet ↓	bulb	Dir.	Speed kn.								
Obs. time	Obs. depth m	Temperature °C		Salinity ‰	$\sigma_t$	ml/l	Oxygen	Saturat. %	Salin. method	Extra info.	Card code					
		↓		↓	↓	↓	↓	↓								

77 11 0158

03	0005	15 32		19 895		06 28		3 3 03
03	0010	15 39		19 969		06 26		3 3 03
03	0015	15 60		22 890		05 94		3 3 03
03	0020	13 81		31 124		05 23		3 3 03
03	0030	11 79		32 314		04 90		3 3 03
03	0040	10 56		32 570		04 83		3 3 03

77 11 0159 56 58 0 11 46 65 09 02 06 1 1 3 9  
0100 14 07 14 008

06	0000	14 97		19 922		06 30		3 3 03
06	0005	14 99		19 911				3 3 03
06	0010	15 20		20 700		06 06		3 3 03
06	0015	15 50		26 734				3 3 03
06	0020	15 32		30 454				3 3 03
06	0030	14 20		32 025		05 42		3 3 03
06	0040	12 30		32 522				3 3 03
06	0050	09 29		33 205		04 85		3 3 03
06	0060	08 61		33 705		04 57		3 3 03
06	0070	08 39		33 863		04 55		3 3 03
06	0080	08 33		33 948		04 56		3 3 03
06	0090	08 35		33 960		04 50		3 3 03

77 11 0160 57 12 0 11 40 65 09 02 08 1 1 3 9  
0075 14 05 16 004

08	0000	15 03		20 805		06 31		3 3 03
08	0005	15 42		25 751				3 3 03
08	0010	15 50		26 693		05 91		3 3 03
08	0015	15 35		27 323				3 3 03
08	0020	15 48		28 191				3 3 03
08	0030	14 93		32 049		05 80		3 3 03
08	0040	13 11		32 677				3 3 03
08	0050	11 31		33 310		05 03		3 3 03
08	0060	09 39		33 754		05 02		3 3 03
08	0070	08 82		34 290		04 94		3 3 03

77 11 0161 58 26 0 11 02 65 09 23 14 2 8 1 9  
0058 13 20 12 000

14	0000	14 24		29 908				3 0 03
14	0005	14 27		29 874				3 0 03
14	0010	14 22		29 954				3 0 03
14	0015	14 31		31 494				3 0 03
14	0020	14 28		31 532				3 0 03
14	0035	14 35		31 662				3 0 03



Country	Ship	Station number	Latitude		0-N+E 1:N+W 2:S+E 3:S+W	Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			o	'		o	'								
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb		Wind Dir.   Speed kn.				Mixed layer depth m			
Obs. time	Obs. depth m		Temperature °C ↓			Salinity ‰ ↓		$\sigma_t$ ↓	ml/l ↓	Oxygen Saturat. % ↓	Salin. method	Extra info.	Card code		

77 11 0161

14	0045	14	24		31	828						3	0	03		
14	0050	14	31		31	858						3	0	03		
14	0055	14	35		31	928						3	0	03		

77	11	0162	57	54	0	11	32	65	10	04	15	2	8	2	9	
		0037	14					20	10		000					

15	0000	13	76		22	489						3	0	03		
15	0005	13	84		23	430						3	0	03		
15	0010	14	22		24	581						3	0	03		
15	0015	14	19		25	179						3	0	03		
15	0020	14	26		27	224						3	0	03		
15	0025	14	12		30	835						3	0	03		
15	0030	13	99		31	514						3	0	03		

77	11	0163	57	53	0	11	25	65	10	04	16	2	7	2	9	
		0055	14					20	10		017					

16	0000	13	96		23	842						3	0	03		
16	0005	13	97		23	842						3	0	03		
16	0010	13	91		23	915						3	0	03		
16	0015	13	98		24	165						3	0	03		
16	0020	14	24		26	989						3	0	03		
16	0030	13	95		31	849						3	0	03		
16	0040	13	88		32	991						3	0	03		
16	0050	11	73		34	471						3	0	03		

77	11	0164	57	52	0	11	21	65	10	04	17	1	3	2	9	
		0063	14					23	08		017					

17	0000	13	97		23	578						3	0	03		
17	0005	13	98		23	593						3	0	03		
17	0010	13	87		23	862						3	0	03		
17	0015	13	91		24	119						3	0	03		
17	0020	14	16		27	695						3	0	03		
17	0030	14	07		31	757						3	0	03		
17	0040	13	85		33	367						3	0	03		
17	0050	12	76		33	998						3	0	03		
17	0055	12	76		34	509						3	0	03		

77	11	0165	57	52	0	11	18	65	10	04	17	1	2	2	9	
		0100	13					27	08		007					

17	0000	14	02		22	280						3	0	03		
17	0005	14	02		22	699						3	0	03		

Country	Ship	Station number	Latitude		0:N+E 1:N+W 2:S+E 3:S+W	Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			°	'		°	'								
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb		Wind Dir.   Speed kn.		Mixed layer depth m					
Obs. time	Obs. depth m	Temperature °C ↓			Salinity ‰ ↓	$\sigma_t$ ↓	ml/l ↓	Oxygen ↓	Saturat. ‰ ↓	Salin. method	Extra info.	Card code			
77 11	0165	57 52	0	11 18	65 10	04	17	1 2 2 9							
	0100	13			27 08		007								
	17 0010	13 98		24 054				3 0 03							
	17 0015	14 20		25 548				3 0 03							
	17 0020	14 22		27 581				3 0 03							
	17 0030	14 12		32 615				3 0 03							
	17 0040	13 48		33 333				3 0 03							
	17 0050	13 08		34 380				3 0 03							
	17 0060	10 33		34 714				3 0 03							
	17 0070	08 70		34 932				3 0 03							
	17 0080	08 31		34 965				3 0 03							
	17 0090	07 44		35 082				3 0 03							
77 11	0166	57 51	0	11 15	65 10	04	18	1 1 2 9							
	0072	13			27 08		007								
	18 0000	13 97		22 393				3 0 03							
	18 0005	13 98		22 420				3 0 03							
	18 0010	14 31		25 118				3 0 03							
	18 0015	14 12		26 154				3 0 03							
	18 0020	14 17		27 753				3 0 03							
	18 0030	13 91		32 372				3 0 03							
	18 0040	13 77		33 525				3 0 03							
	18 0050	10 83		34 603				3 0 03							
	18 0060	10 51		34 685				3 0 03							
77 11	0167	57 50	0	11 04	65 10	04	19	0 0 2 9							
	0048	13			27 08		009								
	19 0000	13 85		23 544				3 0 03							
	19 0005	13 86		23 630				3 0 03							
	19 0015	13 73		31 381				3 0 03							
	19 0020	13 47		32 727				3 0 03							
	19 0030	13 52		33 858				3 0 03							
	19 0040	13 28		34 360				3 0 03							
77 11	0168	57 48	0	10 52	65 10	04	20	0 0 1 9							
	0056	12 5			25 06		000								
	20 0000	13 74		24 287				3 0 03							
	20 0005	13 93		26 475				3 0 03							
	20 0010	13 62		32 427				3 0 03							
	20 0015	13 35		33 435				3 0 03							
	20 0020	13 28		33 636				3 0 03							
	20 0030	13 15		33 876				3 0 03							
	20 0040	13 10		33 902				3 0 03							
	20 0050	13 00		33 860				3 0 03							

Country	Ship	Station number	Latitude		0:N+E 1:N+W 2:S+E 3:S+W	Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			o	'		o	'								
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb		Wind Dir.   Speed kn.		Mixed layer depth m					
Obs. time	Obs. depth m		Temperature °C ↓			Salinity ‰ ↓		$\sigma_t$ ↓	ml/l ↓	Oxygen Saturat. % ↓	Salin. method	Extra info.	Card code		
77	11	0169	57	48	0	10	42	65	10	04	21	1	3	1	9
		0077	12	5				25	06		026				
		21 0000	13	79		28	025					3	0	03	
		21 0005	13	77		32	952					3	0	03	
		21 0010	13	92		33	084					3	0	03	
		21 0015	13	78		33	204					3	0	03	
		21 0020	13	83		33	330					3	0	03	
		21 0030	13	60		33	511					3	0	03	
		21 0040	13	29		33	824					3	0	03	
		21 0050	13	12		33	861					3	0	03	
		21 0060	12	19		34	548					3	0	03	
		21 0070	09	59		34	770					3	0	03	
77	11	0170	57	52	0	10	36	65	10	04	22	1	3	1	9
		0120	12	8				25	04		000				
		22 0000	13	66		25	756					3	0	03	
		22 0005	13	85		31	165					3	0	03	
		22 0010	13	76		32	463					3	0	03	
		22 0015	13	67		33	018					3	0	03	
		22 0020	13	23		33	367					3	0	03	
		22 0030	12	98		34	428					3	0	03	
		22 0040	12	82		34	608					3	0	03	
		22 0050	11	71		34	660					3	0	03	
		22 0060	08	92		34	855					3	0	03	
		22 0070	07	87		34	974					3	0	03	
		22 0080	07	29		34	961					3	0	03	
		22 0090	07	42		35	060					3	0	03	
		22 0100	07	20		35	121					3	0	03	
		22 0110	07	08		35	146					3	0	03	
77	11	0171	57	56	0	10	30	65	10	04	23	1	3	1	9
		0115	13					27	02		000				
		23 0000	13	60		28	047					3	0	03	
		23 0005	13	53		28	047					3	0	03	
		23 0010	13	88		31	333					3	0	03	
		23 0015	13	91		31	530					3	0	03	
		23 0020	13	88		32	535					3	0	03	
		23 0030	13	70		34	175					3	0	03	
		23 0040	13	56		34	299					3	0	03	
		23 0050	13	33		34	364					3	0	03	
		23 0060	12	91		34	468					3	0	03	
		23 0070	09	31		34	795					3	0	03	
		23 0080	07	58		35	017					3	0	03	
		23 0090	07	21		35	099					3	0	03	
		23 0100	07	19		35	132					3	0	03	
77	11	0172	58	03	0	10	19	65	10	05	00	1	3	1	9
		0102	13					25	04		000				



Country	Ship	Station number	Latitude			Longitude	Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E									
		Depth to bottom m	Temperature °C		Temperature °C		Wind		Mixed layer depth m					
			Dry ↓ bulb		Wet ↓ bulb		Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C		Salinity ‰	$\sigma_t$	ml/l	Oxygen	Saturat. %	Salin. method	Extra ins.	Card code			
		↓		↓	↓	↓	↓	↓						

77 11 0172

00	0000	13	88	25	847					3	0	03
00	0005	14	22	28	270					3	0	03
00	0010	14	26	31	679					3	0	03
00	0015	14	08	32	596					3	0	03
00	0020	13	92	33	026					3	0	03
00	0030	13	97	33	809					3	0	03
00	0040	13	84	34	126					3	0	03
00	0050	13	66								0	03
00	0060	13	43	34	337					3	0	03
00	0070	13	15	34	397					3	0	03
00	0080	10	59	34	765					3	0	03
00	0090	07	26	35	106					3	0	03

77 11 0173 58 16 0 10 11 65 10 05 02 1 1 1 9  
0475 13 25 06 018

03	0000	13	58	30	937			06	11	3	0	03
03	0005	13	62	31	860			05	97	3	0	03
03	0010	13	49	33	435			05	42	3	0	03
03	0015	13	58	33	765			05	69	3	0	03
03	0020	13	40	34	245			05	56	3	0	03
03	0030	11	71	34	607			05	28	3	0	03
03	0040	10	14	34	731			05	28	3	0	03
03	0050	08	66	34	863			05	41	3	0	03
03	0060	07	74	34	961			05	44	3	0	03
03	0070	07	43	35	041			05	53	3	0	03
03	0080	07	34	35	074			05	49	3	0	03
03	0090	07	31	35	090			05	53	3	0	03
02	0100	07	24	35	105			05	49	3	0	03
02	0125	07	11	35	128			05	60	3	0	03
02	0150	06	88	35	152			05	67	3	0	03
02	0175	06	85	35	163			05	71	3	0	03
02	0200	06	80	35	170			05	72	3	0	03
02	0250	06	42	35	130			05	94	3	0	03
02	0300	06	36	35	149			06	00	3	0	03
02	0400	05	98	35	142			05	90	3	0	03

77 11 0174 58 15 0 10 34 65 10 05 04 1 1 1 9  
0275 13 99 04 000

04	0000	13	45	28	055					3	0	03
04	0005	13	94	31	845					3	0	03
04	0010	13	81	33	195					3	0	03
04	0015	13	88	33	405					3	0	03
04	0020	13	89	33	435					3	0	03
04	0030	13	82	33	853					3	0	03
04	0040	13	62	34	115					3	0	03

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			1:N+W	2:S+E	3:S+W	1	2	3								
		Depth to bottom m	Temperature °C			Temperature °C			Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. %	Salin. method	Extra info.	Card code		
		↓			↓			↓	↓	↓	↓					

77 11 0174

04	0050	13	55		34	245						3	0	03		
04	0060	13	38		34	342						3	0	03		
04	0070	13	08		34	391						3	0	03		
04	0080	11	10		34	544						3	0	03		
04	0090	07	90		34	851						3	0	03		
04	0100	07	66		34	900						3	0	03		
04	0125	06	92		35	017						3	0	03		
04	0150	07	14		35	118						3	0	03		
04	0175	06	83		35	114						3	0	03		
04	0200	06	80		35	141						3	0	03		
04	0250	06	68		35	165						3	0	03		

77	11	0175	58	22	0	11	23	65	10	06	07	2	8	1	9	
		0025	13					20	18		025					

07	0000	13	25		25	403				06	46	3	3	03		
07	0005	13	27		25	402						3	3	03		
07	0010	13	25		25	351				06	40	3	3	03		
07	0015	13	25		25	462						3	3	03		
07	0020	13	30		25	617						3	3	03		
07	0024	13	42		25	783				05	59	3	3	03		

77	11	0176	58	22	0	11	26	65	10	06	08	2	8	1	9	
		0023	13					20	18		018					

08	0000	13	34		25	044				06	39	3	3	03		
08	0005	13	35		25	046						3	3	03		
08	0010	13	29		25	116				06	44	3	3	03		
08	0015	13	31		25	192						3	3	03		
08	0020	13	47		25	419				06	40	3	3	03		

77	11	0177	58	19	0	11	22	65	10	06	08	2	8	1	9	
		0033	13					20	19		024					

08	0000	13	55		24	328				06	40	3	3	03		
08	0005	13	57		24	330						3	3	03		
08	0010	13	41		24	665				06	37	3	3	03		
08	0015	13	39		24	984						3	3	03		
08	0020	13	42		25	380				06	35	3	3	03		
08	0030	13	93		30	480				04	48	3	3	03		

77	11	0178	58	16	0	11	22	65	10	06	09	2	8	2	9	
		0042	13					20	19		022					

09	0000	13	78		23	803				06	25	3	3	03		
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Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		
			↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
77	11	0178														
	09	0005	13	77		23	815						3	3	03	
	09	0010	13	75		23	852			06	32		3	3	03	
	09	0015	13	71		23	868						3	3	03	
	09	0020	13	71		24	357			06	19		3	3	03	
	09	0025	13	87		27	043						3	3	03	
	09	0030	13	60		31	092			04	34		3	3	03	
	09	0035	13	47		32	032						3	3	03	
	09	0040	13	28		32	469			04	49		3	3	03	
77	11	0179	58	16	0	11	26	65	10	06	10		2	8	1	9
		0056	13					20	19		016					
	10	0000	13	65		24	062			06	39		3	3	03	
77	10	0005	13	65		24	058						3	3	03	
	10	0010	13	63		24	054			06	32		3	3	03	
	10	0015	13	65		25	164						3	3	03	
	10	0020	14	02		26	608						3	3	03	
	10	0030	13	43		31	554			04	17		3	3	03	
	10	0040	12	78		32	883						3	3	03	
	10	0050	09	26		33	557			03	76		3	3	03	
77	11	0180	58	19	0	11	33	65	10	06	11		4	8	2	9
		0119	13					20	12		005					
	11	0000	13	33		24	092			06	32		3	3	03	
	11	0005	13	35		24	112						3	3	03	
	11	0010	13	45		24	621			06	27		3	3	03	
	11	0015	13	76		25	424						3	3	03	
	11	0020	13	98		26	348			05	65		3	3	03	
	11	0030	13	58		31	187			04	06		3	3	03	
	11	0040	12	48		32	116			04	09		3	3	03	
	11	0050	09	99		32	822			03	94		3	3	03	
	11	0060	06	37		34	227			03	28		3	3	03	
	11	0070	06	21		34	388			03	11		3	3	03	
	11	0080	06	22		34	451			02	98		3	3	03	
	11	0090	06	25		34	480			02	70		3	3	03	
	11	0100	06	26		34	505			02	47		3	3	03	
77	11	0110	06	27		34	526			02	27		3	3	03	
		0275														
77	11	0181	58	14	0	11	35	65	10	07	09		4	8	1	9
		0041	14					23	04		012					
	09	0000	13	20		21	295			06	19		3	3	03	
	09	0005	13	28		21	534			05	84		3	3	03	
	09	0010	13	57		22	242			05	18		3	3	03	
	09	0015	11	93		24	425			02	65		3	3	03	



Country	Ship	Station number	Latitude		0-N+E 1-N+W 2-S+E 3-S+W	Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			°	'		°	'								
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb		-Wind Dir.   Speed kn.				Mixed layer depth m			
Obs. time	Obs. depth m		Temperature °C ↓			Salinity ‰ ↓		$\sigma_t$ ↓	ml/l Oxygen ↓		Saturat. ‰ ↓		Salin. method	Extra info.	Card code

77 11 0181

09	0020	05	93		28	364				00	95		3	3	03
09	0025	05	32		28	612				00	16		3	3	03
09	0030	05	20		28	664				00	16		3	3	03
09	0035	05	15		28	684				00	08		3	3	03
09	0040	05	09		28	697				00	08		3	3	03

77	11	0182	58	15	0	11	38	65	10		07	14	1	6	1	9
		0058	14					23	04			008				

14	0000	13	31		21	278				06	15		3	3	03
14	0005	13	28		21	292							3	3	03
14	0010	13	88		22	137				04	96		3	3	03
14	0015	12	93		24	312				02	98		3	3	03
14	0020	05	79		28	390				00	17		3	3	03
14	0030	05	15		28	662				00	15		3	3	03
14	0040	05	12		28	676				00	19		3	3	03
14	0050	05	05		28	686				00	12		3	3	03

77	11	0183	58	17	0	11	41	65	10		07	14	1	6	1	9
		0060	14					23	04			007				

14	0000	13	28		20	867				06	51		3	3	03
14	0005	13	20		20	894							3	3	03
14	0010	13	85		22	535				04	21		3	3	03
14	0015	09	37		26	870				00	87		3	3	03
14	0020	05	20		28	506				00	32		3	3	03
14	0030	05	10							00	30			3	03
14	0040	05	03		28	691				00	35		3	3	03
14	0050	04	90		28	737				00	35		3	3	03

77	11	0184	58	19	0	11	46	65	10		07	15	1	4	1	9
		0040	15	5				23	04			000				

15	0000	12	98		19	990				07	17		3	3	03
15	0005	13	27		20	888				06	06		3	3	03
15	0010	14	05		24	159				04	06		3	3	03
15	0015	13	53		25	756				03	15		3	3	03
15	0020	12	13		27	061				01	69		3	3	03
15	0030	05	53		32	187				00	60		3	3	03
15	0038	05	41		32	511				00	23		3	3	03

77	11	0185	58	20	0	11	53	65	10		07	16	1	2	1	9
		0050	15	5				23	04			002				

16	0000	13	09		18	451				06	77		3	3	03
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Country	Ship	Station number	Latitude		0N+E 1:N+W 2:S+E 3:S+W	Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			°	'		°	'								
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb		Wind Dir. ↓ Speed kn.		Mixed layer depth m					
Obs. time	Obs. depth m	Temperature °C ↓			Salinity ‰ ↓	$\sigma_t$ ↓	ml/l ↓	Oxygen Saturat. ‰ ↓	Salin. method	Extra info.	Card code				

77 11 0185

16	0005	13	93		21	883		04	49			3	3	03
16	0010	13	71		24	066		03	32			3	3	03
16	0015	07	48		28	236		00	21			3	3	03
16	0020	05	85		30	218						3	3	03
16	0030	06	02		30	841						3	3	03
16	0040	05	95		30	937						3	3	03
16	0045	05	89		30	947						3	3	03

77 11 0186 58 16 0 11 49 65 10 08 07 0 0 1 9  
0023 09 29 06 000

07	0000	12	48		20	136		07	20			3	3	03
07	0005	13	47		21	166						3	3	03
07	0010	13	47		24	311		05	00			3	3	03
07	0015	13	79		26	011						3	3	03
07	0021	11	54		27	668		01	43			3	3	03

77 11 0187 58 11 0 11 51 65 10 08 08 0 0 1 9  
0023 09 29 06 016

08	0000	12	45		20	391		06	93			3	3	03
08	0005	13	27		22	100						3	3	03
08	0010	13	25		23	915		05	58			3	3	03
08	0015	13	42		25	783						3	3	03
08	0021	12	92		26	712		03	14			3	3	03

77 11 0188 58 08 0 11 50 65 10 08 08 0 0 1 9  
0019 09 29 06 019

08	0000	12	98		22	869		06	39			3	3	03
08	0005	13	09		23	281						3	3	03
08	0010	13	21		23	833		05	71			3	3	03
08	0015	13	18		24	216						3	3	03
08	0018	12	99		25	518		04	39			3	3	03

77 11 0189 58 04 0 11 47 65 10 08 09 0 0 1 9  
0021 09 29 06 021

09	0000	13	10		22	020		06	04			3	3	03
09	0005	13	11		22	431						3	3	03
09	0010	13	19		23	516		05	91			3	3	03
09	0015	13	22		24	246		05	36			3	3	03
09	0020	13	22		25	127		04	11			3	3	03

77 11 0190 57 59 0 11 46 65 10 08 10 0 0 1 9  
0030 09 29 06 004

Country	Ship	Station number	Latitude			Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0	1	2	3	0								
		Depth to bottom m	Temperature °C		Temperature °C		-Wind		Mixed layer depth m						
			Dry ↓	bulb	Wet ↓	bulb	Dir.	Speed kn.							
Obs. time	Obs. depth m	Temperature °C		Salinity ‰	$\sigma_t$	ml/l	Oxygen	Saturat. %	Salin. method	Extra info.	Card code				
		↓		↓	↓	↓	↓	↓							

77 11 0190

10	0000	12	89		20	285			06	62		3	3	03
10	0005	13	17		21	693						3	3	03
10	0010	13	36		23	730			05	85		3	3	03
10	0015	13	68		24	488						3	3	03
10	0020	14	00		29	532			04	05		3	3	03
10	0028	13	40		32	052			04	13		3	3	03

77 11 0191 57 55 0 11 36 65 10 08 11 0 0 1 9  
0058 10 29 04 000

11	0000	12	60		18	604			06	58		3	3	03
11	0005	13	39		22	466						3	3	03
11	0010	13	89		24	385			05	76		3	3	03
11	0015	14	14		26	224						3	3	03
11	0020	14	03		30	512						3	3	03
11	0030	13	35		33	155			04	88		3	3	03
11	0040	12	95		33	657			04	77		3	3	03
11	0050	12	87		33	824			04	86		3	3	03

77 11 0192 57 54 0 11 32 65 10 08 11 0 0 1 9  
0037 11 05 04 000

11	0000	13	16		19	994			06	41		3	3	03
11	0005	13	81		23	276						3	3	03
11	0010	13	91		24	230			05	96		3	3	03
11	0015	14	12		26	262						3	3	03
11	0020	14	07		30	427			04	89		3	3	03
11	0030	13	02		33	741			04	93		3	3	03
11	0035	12	70		34	002			04	97		3	3	03

77 11 0193 58 30 0 10 47 65 11 10 14 2 8 1 0  
0128 06 5 09 10 012

14	0000	09	65		31	375						3	0	03
14	0010	09	70		31	449						3	0	03
14	0020	11	62		33	567						3	0	03
14	0030	11	77		34	122						3	0	03
14	0040	11	22		34	170						3	0	03
14	0050	10	65		34	383						3	0	03
14	0060	09	83		34	642						3	0	03
14	0080	08	73		34	941						3	0	03
14	0100	08	00		35	008						3	0	03
14	0120	07	60		35	155						3	0	03

77 11 0194 58 26 0 11 04 65 11 15 14 0 0 0 0  
0058 -02 09 08 006



Country	Ship	Station number	Latitude		Longitude	Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0	,									
			Temperature °C		Temperature °C		Wind						
Depth to bottom m			Dry ↓ bulb		Wet ↓ bulb		Dir.   Speed kn.		Mixed layer depth m				
Obs. time	Obs. depth m	Temperature °C		Salinity ‰	$\sigma_t$	Oxygen ml/l		Saturat. %	Salin. method	Extra info.	Card code		

77 11 0194

14	0000	05	97		24	184					3	0	03
14	0005	06	02		24	213					3	0	03
14	0010	07	86		28	231					3	0	03
14	0015	07	88		29	525					3	0	03
14	0020	10	68		31	785					3	0	03
14	0025	10	67		32	505					3	0	03
14	0030	11	19		32	813					3	0	03
14	0040	11	36		33	557					3	0	03
14	0050	11	44		33	603					3	0	03
14	0055	11	17		34	227					3	0	03

77 11 0195  
0064

57	53	0	11	25	65	11	29	15	2	8	2	0	
	02				14	18		008					
15	0000	05	40		26	842					3	4	03
15	0005	05	42		26	853					3	4	03
15	0010	05	52		26	914					3	4	03
15	0015	06	23		28	791					3	4	03
15	0020	07	29		33	989					3	4	03
15	0030	07	91		34	480					3	4	03
15	0040	06	66		34	871					3	4	03
15	0050	06	47		34	918					3	4	03

77 11 0196  
0065

57	52	0	11	21	65	11	29	16	2	8	3	0	
	02				14	18		009					
16	0000	05	65		27	155					3	4	03
16	0005	05	65		27	158					3	4	03
16	0010	05	79		27	266					3	4	03
16	0015	07	36		31	867					3	4	03
16	0020	07	36		34	280					3	4	03
16	0030	08	21		34	849					3	4	03
16	0040	07	20		35	068					3	4	03
16	0050	06	15		34	912					3	0	03
16	0060	06	21		34	927					3	4	03

77 11 0197  
0085

57	52	0	11	18	65	11	29	17	2	8	3	0	
	02				14	18		008					
17	0000	06	08		27	497					3	4	03
17	0005	06	10		27	497					3	0	03
17	0010	06	18		27	555					3	4	03
17	0015	09	47		32	101					3	4	03
17	0020	06	48		33	973					3	4	03
17	0030	06	76		34	628					3	4	03
17	0040	05	48		34	635					3	4	03

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0	'	''	0	'	''								
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer depth m					
			Dry ↓	bulb		Wet ↓	bulb	Dir.	Speed kn.							
Obs. time	Obs. depth m	Temperature °C			Salinity ‰	$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code				
			↓		↓	↓	↓	↓	↓							

77 11 0197

17 0050	05 44		34 661									3 4 03				
17 0060	05 67		34 731									3 4 03				
17 0070	06 01		34 849									3 4 03				
17 0080	05 90		34 834									3 4 03				

77 11 0198 57 51 0 11 15 65 11 29 17 2 8 3 0  
0067 02 14 18 004

17 0000	05 62		27 078									3 4 03				
17 0005	06 09		27 548									3 4 03				
17 0010	05 98		31 245									3 4 03				
17 0015	09 10		32 876									3 4 03				
17 0020	05 06		33 727									3 4 03				
17 0030	05 12		34 179									3 4 03				
17 0040	05 50		34 535									3 4 03				
17 0050	05 62		34 583									3 4 03				
17 0060	05 08		34 607									3 4 03				

77 11 0199 57 50 0 11 04 65 11 29 19 2 8 5 0  
0047 02 14 18 004

19 0000	06 04		29 217									3 4 03				
19 0005	05 61		31 603									3 4 03				
19 0010	05 20		34 191									3 4 03				
19 0015	05 10		34 186									3 4 03				
19 0020	05 02		34 183									3 4 03				
19 0030	04 83		34 207									3 4 03				
19 0040	04 67		34 268									3 4 03				

77 11 0200 58 14 0 11 35 65 11 30 11 6 8 2 0  
0040 01 11 22 006

11 0000	02 99		23 005				07 13					3 3 03				
11 0005	03 00		22 999				07 06					3 3 03				
11 0010	03 77		23 204				06 71					3 3 03				
11 0015	07 79		25 928				02 83					3 3 03				
11 0020	07 04		27 864				00 33					3 3 03				
11 0025	05 44		28 585				00 10					3 3 03				
11 0030	05 33		28 629				00 06					3 3 03				
11 0035	05 24		28 650				00 11					3 3 03				
11 0038	05 22		28 657				00 11					3 3 03				

77 11 0201 58 15 0 11 03 65 12 01 09 1 2 2 0  
0103 01 05 08 006

09 0000 06 73 31 106 3 0 03

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.	depth m					
Obs. time	Obs. depth m	Temperature °C	Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code				
		↓	↓			↓	↓	↓	↓							

77 11 0201

09	0005	06	67	31	680							3	0	03
09	0010	08	02	33	714							3	0	03
09	0015	08	84	34	503							3	0	03
09	0020	06	82	34	618							3	0	03
09	0030	06	37	34	660							3	0	03
09	0040	06	35	34	660							3	0	03
09	0050	06	13	34	681							3	0	03
09	0060	05	91	34	686							3	0	03
09	0070	05	82	34	674							3	0	03
09	0080	05	78	34	668							3	0	03
09	0090	05	76	34	686							3	0	03

77 11 0202 58 20 0 11 10 65 12 01 11 1 2 2 0  
0050 01 05 08 004

11	0000	04	69	27	098							3	4	03
11	0005	04	76	27	098							3	4	03
11	0010	05	37	27	745							3	4	03
11	0015	06	43	29	962							3	4	03
11	0020	08	02	32	198							3	4	03
11	0030	08	06	34	709							3	4	03
11	0040	07	75	34	773							3	4	03
11	0045	07	66	34	809							3	4	03

77 11 0203 58 20 0 11 06 65 12 01 11 2 7 2 0  
0050 03 02 04 004

11	0000	04	58	26	863							3	4	03
11	0005	04	78	26	981							3	4	03
11	0010	05	52	28	210							3	4	03
11	0015	06	72	32	490							3	4	03
11	0025	05	23	34	270							3	4	03
11	0035	05	50	34	548							3	4	03
11	0040	05	56	34	564							3	4	03

77 11 0204 58 20 0 11 02 65 12 01 12 4 9 2 0  
0090 01 5 02 04 000

12	0000	04	99	28	244							3	4	03
12	0005	06	16	30	071							3	4	03
12	0010	06	16	31	443							3	4	03
12	0015	06	31	33	969							3	4	03
12	0020	06	28	34	640							3	4	03
12	0030	06	21	34	646							3	4	03
12	0040	06	05	34	666							3	4	03
12	0050	05	98	34	673							3	4	03



Country	Ship	Station number	Latitude			Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			1.N+W	2.S+E	3.S+W	0	1								
		Depth to bottom m	Temperature °C		Temperature °C		-Wind		Mixed layer						
			Dry ↓ bulb		Wet ↓ bulb		Dir.	Speed kn.	depth m						
Obs. time	Obs. depth m	Temperature °C		Salinity ‰		$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code			
		↓		↓		↓	↓	↓	↓						

77 11 0204

12	0060	05	77	34	648								3	4	03
12	0070	05	68	34	643								3	4	03
12	0080	05	64	34	640								3	4	03

77 11 0205 58 19 0 10 57 65 12 01 14 4 9 2 0  
0115 02 02 04 000

14	0000	05	61	29	770								3	4	03
14	0005	06	41	30	263								3	4	03
14	0010	07	46	31	339								3	4	03
14	0015	07	17	33	458								3	4	03
14	0020	08	32	34	664								3	4	03
14	0030	06	62	34	715								3	4	03
14	0040	06	22	34	736								3	0	03
14	0050	06	05	34	724								3	4	03
14	0060	05	79	34	711								3	4	03
14	0070	05	67	34	706								3	4	03
14	0080	05	59	34	708								3	4	03
14	0090	05	55	34	730								3	4	03
14	0100	05	46	34	730								3	4	03
14	0110	05	39	34	735								3	4	03

77 11 0206 58 18 0 10 51 65 12 01 15 2 8 2 0  
0150 02 36 12 004

15	0000	05	50	29	426								3	4	03
15	0005	05	63	29	531								3	4	03
15	0010	08	01	31	806								3	4	03
15	0015	08	15	32	910								3	4	03
15	0020	07	96	33	716								3	4	03
15	0030	07	86	34	387								3	4	03
15	0040	07	37	34	829								3	4	03
15	0050	06	81	34	938								3	4	03
15	0060	06	12	34	915								3	4	03
15	0070	06	10	34	915								3	4	03
15	0080	05	93	34	872								3	4	03
15	0090	05	99	34	882								3	4	03
15	0100	06	13	34	918								3	4	03
15	0125	06	20	34	956								3	4	03
15	0145	05	89	34	957								3	4	03

77 11 0207 58 16 0 10 44 65 12 01 17 2 8 2 0  
0190 02 36 12 000

17	0000	06	03	29	986								3	4	03
17	0005	07	01	30	422								3	4	03

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		

77 11 0207

17	0010	09	30		33	551						3	4	03		
17	0015	09	21		33	619						3	4	03		
17	0020	09	12		33	660						3	4	03		
17	0030	09	16		33	888						3	4	03		
17	0040	08	48		34	803						3	4	03		
17	0050	07	46		34	906						3	4	03		
17	0060	07	44		35	032						3	4	03		
17	0070	07	52		35	029						3	4	03		
17	0080	07	34		35	071						3	4	03		
17	0090	07	29		35	089						3	4	03		
17	0100	07	16		35	097						3	4	03		
17	0125	06	92		35	152						3	4	03		
17	0150	06	78		35	154						3	4	03		
17	0175	06	79		35	177						3	4	03		

77 11 0208 58 15 0 10 34 65 12 01 18 2 8 3 0  
0275 02 36 12 000

19	0000	05	96		29	820						3	4	03		
19	0005	07	91		33	200						3	4	03		
19	0010	08	17		33	965						3	4	03		
19	0015	07	71		34	056						3	4	03		
19	0020	07	70		34	073						3	4	03		
19	0030	07	62		34	145						3	4	03		
19	0040	07	98		34	342						3	4	03		
19	0050	07	96		34	371						3	4	03		
19	0060	07	94		34	544						3	4	03		
19	0070	07	75		34	804						3	4	03		
19	0080	07	48		35	004						3	4	03		
18	0090	07	19		35	104						3	4	03		
18	0100	07	08		35	118						3	4	03		
18	0125	06	94		35	157						3	4	03		
18	0150	06	89		35	173						3	4	03		
18	0175	06	96		35	207						3	4	03		
18	0200	06	95		35	215						3	4	03		
18	0250	06	96		35	224						3	4	03		

77 11 0209 58 16 0 10 11 65 12 01 21 1 3 2 0  
0475 01 02 10 004

22	0000	04	73		28	274						3	4	03		
22	0005	05	88		29	315						3	4	03		
22	0010	06	26		29	864						3	4	03		
22	0015	06	88		30	294						3	4	03		
22	0020	09	08		32	153						3	4	03		
22	0030	09	95		33	625						3	4	03		
22	0040	10	82		34	368						3	4	03		

Country	Ship	Station number	Latitude			Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0								
		Depth to bottom m	Temperature °C Dry ↓ bulb		Temperature °C Wet ↓ bulb	-Wind Dir.   Speed kn.				Mixed layer depth m					
Obs. time	Obs. depth m	Temperature °C			Salinity ‰	$\sigma_t$	ml / l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code			

77 11 0209

22	0050	08	57		34	529						3	4	03
22	0060	07	72		34	786						3	4	03
22	0070	07	66		34	921						3	4	03
22	0080	07	25		35	000						3	0	03
22	0090	07	22		35	076						3	4	03
21	0096	06	95		35	103						3	4	03
21	0115	06	95		35	140						3	4	03
21	0134	06	84		35	151						3	4	03
21	0153	06	79		35	157						3	4	03
21	0230	06	56		35	176						3	4	03
21	0307	05	55		35	158						3	4	03

77	11	0210	58	26	0	10	00	65	12	02	00	0	0	1	0
		0485	02					34	02		009				

00	0000	04	58		28	384						3	0	03
00	0005	04	53		28	390						3	0	03
00	0010	05	03		28	734						3	0	03
00	0015	07	24		30	949						3	0	03
00	0020	09	17		32	067						3	0	03
00	0030	10	14		32	678						3	0	03
00	0040	10	34		32	986						3	0	03
00	0050	10	69		33	468						3	0	03
00	0060	11	23		34	207						3	0	03
00	0070	11	10		34	426						3	0	03
00	0080	08	62		34	450						3	0	03
00	0090	07	80		34	891						3	0	03
00	0100	07	62		34	953						3	0	03
00	0125	07	43		35	102						3	0	03
00	0150	07	01		35	082						3	0	03
00	0175	06	87		35	134						3	0	03
00	0200	06	68		35	139						3	0	03
00	0300	06	44		35	161						3	0	03
00	0400	05	93		35	154						3	0	03

77	11	0211	58	29	0	10	18	65	12	02	02	0	0	2	0
		0400	01					00	00		012				

03	0000	05	37		29	085						3	0	03
03	0005	05	38		29	098						3	0	03
03	0010	05	37		29	116						3	0	03
03	0015	07	35		30	543						3	0	03
03	0020	08	13		31	182						3	0	03
03	0030	10	51		32	943						3	0	03
03	0040	10	70		33	843						3	0	03
03	0050	10	36		34	486						3	0	03
03	0060	09	38		34	662						3	0	03



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W										
		Depth to bottom m	Temperature °C		Temperature °C		Wind				Mixed layer depth m					
			Dry ↓	bulb	Wet ↓	bulb	Dir.	Speed kn.								
Obs. time	Obs. depth m	Temperature °C			Salinity ‰	$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code				
		↓	↓		↓	↓	↓	↓	↓							

77 11 0211

03	0070	08	07		34	939					3	0	03
03	0080	07	69		35	055					3	0	03
03	0090	07	51		35	098					3	0	03
02	0100	07	49		35	106					3	0	03
02	0125	07	32		35	122					3	0	03
02	0150	06	95		35	115					3	0	03
02	0175	06	75		35	139					3	0	03
02	0200	06	53		35	126					3	0	03
02	0300	06	40		35	161					3	0	03
02	0375	06	16		35	163					3	0	03

77 11 0212 58 31 0 10 33 65 12 02 05 0 0 2 0  
0190 02 99 02 000

05	0000	05	98		30	255					3	0	03
05	0005	06	30		31	159					3	0	03
05	0010	07	00		32	633					3	0	03
05	0015	07	19		33	309					3	0	03
05	0020	07	68		33	840					3	0	03
05	0030	08	61		34	541					3	0	03
05	0040	08	14		34	883					3	0	03
05	0050	07	61		34	984					3	0	03
05	0060	07	46		35	060					3	0	03
05	0070	07	32		35	089					3	0	03
05	0080	07	15		35	101					3	0	03
05	0090	07	04		35	123					3	0	03
05	0100	06	95		35	126					3	0	03
05	0125	06	80		35	134					3	0	03
05	0150	06	72		35	139					3	0	03
05	0175	06	61		35	157					3	0	03

77 11 0213 58 32 0 10 41 65 12 02 06 0 0 2 0  
0135 02 00 00 000

06	0000	04	81		27	245					3	0	03
06	0005	05	10		27	597					3	0	03
06	0010	05	79		29	971					3	0	03
06	0015	07	11		32	676					3	0	03
06	0020	06	69		33	978					3	0	03
06	0030	06	75		34	631					3	0	03
06	0040	06	44		34	847					3	0	03
06	0050	05	97		34	798					3	0	03
06	0060	05	94		34	811					3	0	03
06	0070	05	96		34	822					3	0	03
06	0080	05	86		34	804					3	0	03
06	0090	05	73		34	802					3	0	03
06	0100	05	77		34	782					3	0	03

Country	Ship	Station number	Latitude			Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0								
		Depth to bottom m	Temperature °C Dry ↓ bulb		Temperature °C Wet ↓ bulb	Wind Dir.   Speed kn.				Mixed layer depth m					
Obs. time	Obs. depth m	Temperature °C ↓		Salinity ‰ ↓	$\sigma_t$ ↓	ml/l ↓	Oxygen ↓	Saturat. ‰ ↓	Salin. method	Extra info.	Card code				
77 11	0213														
	06 0125		05 69		34 829								3 0 03		
77 11	0214		58 33	0	10 48		65 12		02 07				1 4 2 0		
	0105		02				02 04		007						
	07 0000		05 03		27 317								3 0 03		
	07 0005		05 01		27 324								3 0 03		
	07 0010		05 69		30 645								3 0 03		
	07 0015		05 52		32 556								3 0 03		
	07 0020		05 73		33 741								3 0 03		
	07 0030		05 98		34 619								3 0 03		
	07 0040		05 98		34 659								3 0 03		
	07 0050		05 95		34 668								3 0 03		
	07 0060		05 90		34 679								3 0 03		
	07 0070		05 82		34 690								3 0 03		
	07 0080		05 82		34 693								3 0 03		
	07 0090		05 90		34 706								3 0 03		
	07 0100		05 95		34 718								3 0 03		
77 11	0215		58 33	0	10 54		65 12		02 08				1 5 2 0		
	0080		02				02 04		007						
	08 0000		04 82		27 365								3 0 03		
	08 0005		04 80		27 361								3 0 03		
	08 0010		05 97		29 016								3 0 03		
	08 0015		08 61		31 965								3 0 03		
	08 0020		08 62		33 650								3 0 03		
	08 0030		08 30		34 431								3 0 03		
	08 0040		07 94		34 765								3 0 03		
	08 0050		07 54		34 790								3 0 03		
	08 0060		06 38		34 709								3 0 03		
	08 0070		06 04		34 674								3 0 03		
77 11	0216		58 34	0	10 57		65 12		02 09				1 5 2 0		
	0058		02				02 04		008						
	09 0000		04 03		27 287								3 0 03		
	09 0005		03 97		27 287								3 0 03		
	09 0010		04 16		27 366								3 0 03		
	09 0015		07 53		30 412								3 0 03		
	09 0020		07 04		32 642								3 0 03		
	09 0030		08 17		34 059								3 0 03		
	09 0040		08 45		34 715								3 0 03		
	09 0050		07 73		34 806								3 0 03		
77 11	0217		58 34	0	11 01		65 12		02 10				1 5 2 0		
	0049		01				07 04		006						

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0	1	2	3	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		
			↓		↓		↓	↓	↓	↓	↓					

77 11 0217

10	0000	04	37		27	414						3	0	03		
10	0005	04	29		27	410						3	0	03		
10	0010	04	71		27	947						3	0	03		
10	0015	07	24		30	399						3	0	03		
10	0020	08	30		31	562						3	0	03		
10	0030	08	82		34	383						3	0	03		
10	0040	08	33		34	750						3	0	03		

77	11	0218	58	35	0	11	09	65	12	02	11	1	3	1	0	
		0030	00					07	04		011					

11	0000	03	52		27	311						3	0	03		
11	0005	03	60		27	309						3	0	03		
11	0010	03	74		27	445						3	0	03		
11	0015	06	27		29	240						3	0	03		
11	0020	07	55		30	809						3	0	03		
11	0025	08	60		32	034						3	0	03		

77	11	0219	58	35	0	11	05	65	12	02	11	1	3	1	0	
		0100	00					07	04		011					

11	0000	03	41		27	039						3	0	03		
11	0005	03	32		27	022						3	0	03		
11	0010	03	46		27	074						3	0	03		
11	0015	05	09		28	371						3	0	03		
11	0020	07	61		30	850						3	0	03		
11	0030	09	38		33	853						3	0	03		
11	0040	08	06		34	839						3	0	03		
11	0050	07	63		34	906						3	0	03		
11	0060	07	35		34	923						3	0	03		
11	0070	07	18		34	937						3	0	03		
11	0080	07	12		34	940						3	0	03		
11	0090	07	05		34	949						3	0	03		

77	11	0220	58	05	0	11	17	65	12	02	15	1	6	2	0	
		0043	01					09	06		000					

15	0000	04	77		25	621						3	0	03		
15	0005	05	07		26	117						3	0	03		
15	0010	05	31		26	258						3	0	03		
15	0015	06	11		27	045						3	0	03		
15	0020	07	43		33	742						3	0	03		
15	0030	06	42		34	550						3	0	03		
15	0040	06	27		34	560						3	0	03		

77	11	0221	58	05	0	11	13	65	12	02	16	2	7	2	0	
		0053	01					09	06		000					



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. %	Salin. method	Extra info.	Card code		
		↓			↓			↓	↓	↓	↓					

77 11 0221

16	0000	04	02		25	061						3	0	03		
16	0005	04	33		25	602						3	0	03		
16	0010	04	98		26	103						3	0	03		
16	0015	08	05		33	292						3	0	03		
16	0020	09	26		34	390						3	0	03		
16	0030	08	11		34	674						3	0	03		
16	0040	05	98											0	03	
16	0050	06	47		34	731						3	0	03		

77	11	0222	58	04	0	11	09	65	12	02	16	1	4	2	0	
		0100	00					09	06		004					

16	0000	03	94		23	996						3	0	03		
16	0005	03	98		24	007						3	0	03		
16	0010	08	27		31	160						3	0	03		
16	0015	10	16		33	406						3	0	03		
16	0020	06	55		34	243						3	0	03		
16	0030	05	46		34	216						3	0	03		
16	0040	05	54		34	247						3	0	03		
16	0050	05	72		34	342						3	0	03		
16	0060	06	42		34	558						3	0	03		
16	0070	06	08		34	636						3	0	03		
16	0080	06	12		34	743						3	0	03		
16	0090	06	22		34	780						3	0	03		

77	11	0223	58	03	0	11	04	65	12	02	17	0	0	3	0	
		0130	00					09	06		004					

17	0000	03	81		25	388						3	0	03		
17	0005	05	38		28	619						3	0	03		
17	0010	10	06		33	963						3	0	03		
17	0015	10	06											0	03	
17	0020	07	39		34	125						3	0	03		
17	0030	07	34		34	235						3	0	03		
17	0040	07	39		34	432						3	0	03		
17	0050	07	28		34	443						3	0	03		
17	0060	07	19		34	456						3	0	03		
17	0070	06	85		34	468						3	0	03		
17	0080	06	85		34	489						3	0	03		
17	0090	06	90		34	597						3	0	03		
17	0100	06	74		34	794						3	0	03		
17	0120	06	73		34	925						3	0	03		

77	11	0224	58	02	0	10	57	65	12	02	18	0	0	2	0	
		0157	00					09	08		000					

18	0000	05	55		30	692						3	0	03		
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Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. %	Salin. method	Extra info.	Card code		

77 11 0224

18	0005	06	63		33	142						3	0	03		
18	0010	07	24		34	029						3	0	03		
18	0015	07	26		34	143						3	0	03		
18	0020	07	16		34	176						3	0	03		
18	0030	07	14		34	223						3	0	03		
18	0040	07	09		34	239						3	0	03		
18	0050	07	07		34	325						3	0	03		
18	0060	07	13		34	391						3	0	03		
18	0070	07	26		34	523						3	0	03		
18	0080	07	31		34	615						3	0	03		
18	0090	06	61		34	734						3	0	03		
18	0100	07	04		34	950						3	0	03		
18	0125	06	73		35	136						3	0	03		
18	0150	06	75		35	141						3	0	03		

77 11 0225 58 01 0 10 49 65 12 02 19 1 4 3 0  
0202 01 09 14 000

19	0000	07	06		33	637						3	0	03		
19	0005	07	02		33	657						3	0	03		
19	0010	06	95		33	772						3	0	03		
19	0015	07	27		34	193						3	0	03		
19	0020	07	36		34	275						3	0	03		
19	0030	07	29		34	368						3	0	03		
19	0040	07	13		34	415						3	0	03		
19	0050	06	93		34	495						3	0	03		
19	0060	06	96		34	670						3	0	03		
19	0070	06	83		34	764						3	0	03		
19	0080	06	86		34	900						3	0	03		
19	0090	06	92		34	972						3	0	03		
19	0100	07	06		35	070						3	0	03		
19	0125	06	70		35	148						3	0	03		
19	0150	06	75		35	173						3	0	03		
19	0175	06	64		35	175						3	0	03		
19	0190	06	69		35	172						3	0	03		

77 11 0226 58 00 0 10 42 65 12 02 20 2 8 3 0  
0170 01 09 14 007

20	0000	06	78		33	742						3	0	03		
20	0005	06	78		33	738						3	0	03		
20	0010	07	26		34	178						3	0	03		
20	0015	07	28		34	309						3	0	03		
20	0020	07	30		34	383						3	0	03		
20	0030	07	25		34	444						3	0	03		
20	0040	07	22		34	509						3	0	03		
20	0050	07	21		34	644						3	0	03		

Country	Ship	Station number	Latitude			Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0-N+E	1-N+W	2-S+E	3-S+W	0								
		Depth to bottom m	Temperature °C		Temperature °C		Wind		Mixed layer depth m						
			Dry ↓ bulb		Wet ↓ bulb		Dir.	Speed kn.							
Obs. time	Obs. depth m	Temperature °C		Salinity ‰		$\sigma_t$	Oxygen		Saturat. %	Salin. method	Extra info.	Card code			
		↓		↓		↓	ml/l	↓	↓						

77 11 0226

20	0060	06	94		34	682					3	0	03
20	0070	06	80		34	782					3	0	03
20	0080	06	83		34	835					3	0	03
20	0090	07	17		35	048					3	0	03
20	0100	06	98		35	091					3	0	03
20	0125	06	78		35	137					3	0	03
20	0150	06	73		35	152					3	0	03

77	11	0227	57	58	0	10	35	65	12	02	22	2	8	3	0
		0135	01					09	18		012				

22	0000	07	77		33	337					3	0	03
22	0005	07	74		33	320					3	0	03
22	0010	07	76		33	438					3	0	03
22	0015	06	95		33	928					3	0	03
22	0020	06	92		33	975					3	0	03
22	0030	07	09		34	198					3	0	03
22	0040	06	99		34	291					3	0	03
22	0050	06	95		34	336					3	0	03
22	0060	06	88		34	370					3	0	03
22	0070	07	31		34	584					3	0	03
22	0080	07	14		34	689					3	0	03
22	0090	07	09		34	715					3	0	03
22	0100	06	86		34	826					3	0	03
22	0125	06	86		34	984					3	0	03

77	11	0228	57	12	0	11	40	65	12	06	15	2	8	3	0
		0067	02					36	14		012				

15	0000	04	19		23	898			07	49		3	3	03
15	0005	04	16		23	835						3	3	03
15	0010	04	19		23	897			07	48		3	3	03
15	0015	07	77		30	887			06	33		3	3	03
15	0020	05	78		34	069			06	66		3	3	03
15	0030	05	59		34	370			06	63		3	3	03
15	0040	05	60		34	386			06	58		3	3	03
15	0050	05	80		34	477			06	58		3	3	03
15	0060	05	94		34	540			06	52		3	3	03

77	11	0229	56	58	0	11	46	65	12	06	17	2	8	3	0
		0090	01					32	14		012				

17	0000	04	20		22	388			07	56		3	3	03
17	0005	04	12		22	364						3	3	03
17	0010	04	20		22	467			07	55		3	3	03
17	0015	09	06		31	786			05	81		3	3	03



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. %	Salin. method	Extra info.	Card code		

77 11 0229

17	0020	08	76		33	596				05	56		3	3	03
17	0030	08	26		34	059				05	73		3	3	03
17	0040	08	08		34	360				05	69		3	3	03
17	0050	07	62		34	574				05	74		3	3	03
17	0060	06	89		34	597				05	93		3	3	03
17	0070	06	66		34	575				06	15		3	3	03

77 11 0230  
0023

56	14	0	12	22	65	12			06	22		7	8	3	0
	01				29	08				008					
22	0000	03	14		21	888				07	82		3	3	03
22	0005	03	11		21	841							3	3	03
22	0010	09	11		27	707				05	56		3	3	03
22	0015	10	24		32	829				04	60		3	3	03
22	0020	10	27		33	011				04	88		3	3	03

77 11 0231  
0049

55	00	0	14	05	65	12			07	10		2	8	2	0
	05				27	08				043					
10	0000	05	53		08	63	Q			07	97		1	3	03
10	0005	05	52		08	47				07	99		1	3	03
10	0010	05	54		08	51				08	05		1	3	03
10	0015	05	60		08	52				08	00		1	3	03
10	0020	05	54		08	52				08	12		1	3	03
10	0030	05	54		08	53				07	97		1	3	03
10	0040	05	55		08	63				07	89		1	3	03
10	0045	09	96		18	47				04	47		1	3	03

77 11 0232  
0044

55	18	0	14	24	65	12			07	13		6	8	2	0
	03				36	08				037					
13	0000	05	05		07	66				08	05		1	3	03
13	0005	05	04		07	66				08	08		1	3	03
13	0010	05	07		07	66				08	05		1	3	03
13	0015	05	14		07	68				08	10		1	3	03
13	0020	05	28		07	73				07	97		1	3	03
13	0030	05	19		07	77				08	01		1	3	03
13	0040	06	49		09	29				07	37		1	3	03

77 11 0233  
0087

55	23	0	15	20	65	12			07	16		2	8	2	0
	02				05	04				038					
16	0000	05	20		07	67				07	91		1	3	03
16	0005	05	15		07	67							1	3	03
16	0010	05	10		07	67				07	99		1	3	03

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		

77 11 0233

16	0015	05 10		07 68								1	3	03		
16	0020	05 10		07 68						08 00		1	3	03		
16	0030	05 19		07 68						08 09		1	3	03		
16	0040	05 30		07 71						07 92		1	3	03		
16	0050	06 71		09 12						06 78		1	3	03		
16	0060	09 22		14 63						02 99		1	3	03		
16	0070	07 85		16 36						00 29		1	3	03		
16	0080	07 83		16 48						00 21		1	3	03		

77 11 0234 0093 55 15 0 15 59 65 12 07 19 7 8 2 0  
02 09 04 040

19	0000	05 86		08 08						07 89		1	3	03		
19	0005	05 84		08 03						07 82		1	3	03		
19	0010	05 85		08 08						07 78		1	3	03		
19	0015	05 81		08 08						08 44		1	3	03		
19	0020	05 77		08 08						07 89		1	3	03		
19	0030	05 71		08 08						07 82		1	3	03		
19	0040	05 75		08 16						07 74		1	3	03		
19	0050	08 53		12 32						03 68		1	3	03		
19	0060	09 26		13 01						03 69		1	3	03		
19	0070	09 81		14 03						04 22		1	3	03		
19	0080	09 24		16 19						03 14		1	3	03		
19	0087	09 14		16 48						02 90		1	3	03		

77 11 0235 0090 55 13 0 17 04 65 12 07 24 2 8 2 0  
02 32 06 055

24	0000	05 48		07 93						07 89		1	3	03		
24	0005	05 48		07 93								1	3	03		
24	0010	05 49		07 93						07 93		1	3	03		
24	0015	05 56		07 98								1	3	03		
24	0020	05 60		08 00						07 90		1	3	03		
24	0030	05 59		08 01						07 82		1	3	03		
24	0040	05 64		08 02						07 89		1	3	03		
24	0050	05 61		08 02						07 87		1	3	03		
24	0060	06 49		09 13						06 73		1	3	03		
24	0070	08 67		12 79						03 29		1	3	03		
24	0080	08 37		13 81						02 12Q		1	3	03		

77 11 0236 0095 55 38 0 18 36 65 12 08 05 1 4 2 0  
01 29 10 065

05	0000	05 39		07 64						07 73		1	3	03		
05	0005	05 39		07 63								1	3	03		
05	0010	05 43		07 63						08 03		1	3	03		

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			1:N+W	2:S+E	3:S+W	1	2	3								
		Depth to bottom m	Temperature °C Dry ↓ bulb		Temperature °C Wet ↓ bulb	-Wind Dir.   Speed kn.				Mixed layer depth m						
Obs. time	Obs. depth m	Temperature °C ↓		Salinity ‰ ↓	$\sigma_t$ ↓	ml/l ↓	Oxygen Saturat. ‰ ↓	Salin. method	Extra info.	Card code						

77 11 0236

05	0015	05 36		07 63								1	3	03
05	0020	05 32		07 63			07 83					1	3	03
05	0030	05 37		07 63			07 86					1	3	03
05	0040	05 36		07 63			07 83					1	3	03
05	0050	05 45		07 63			07 84					1	3	03
05	0060	05 40		07 64			07 62					1	3	03
05	0070	05 05		09 88			03 27					1	3	03
05	0080	05 27		11 26			01 62					1	3	03
05	0090	07 49		12 69			02 29					1	3	03

77	11	0237	56 07	0	19 19	65 12	08	10	2 7 3 0
		0115	01			27 14		055	

10	0000	04 68		07 52			08 05					1	3	03
10	0005	04 69		07 52								1	3	03
10	0010	04 68		07 52			08 04					1	3	03
10	0015	04 68		07 52								1	3	03
10	0020	04 68		07 52			07 98					1	3	03
10	0030	04 65		07 52			08 09					1	3	03
10	0040	04 64		07 52			07 99					1	3	03
10	0050	04 65		07 52			08 01					1	3	03
10	0060	03 69		09 12			03 65					1	3	03
10	0070	04 57		10 57			02 17					1	3	03
10	0080	04 91		11 12			01 60					1	3	03
10	0090	05 01		11 26			01 39					1	3	03
10	0100	05 04		11 29			01 39					1	3	03
10	0110	05 02		11 30			01 35					1	3	03

77	11	0238	56 51	0	18 52	65 12	08	15	2 8 4 0
		0110	01			25 22		050	

15	0000	04 49		07 37			08 25					1	3	03
15	0005	04 44		07 37								1	3	03
15	0010	04 46		07 37			08 16					1	3	03
15	0015	04 48		07 37								1	3	03
15	0020	04 43		07 37			08 18					1	3	03
15	0030	04 46		07 37			08 20					1	3	03
15	0040	04 53		07 37			08 15					1	3	03
15	0050	04 55		07 37			08 19					1	3	03
15	0060	03 26		08 92			03 74					1	3	03
15	0070	03 89		09 90			01 90					1	3	03
15	0080	04 30		10 54			01 07					1	3	03
15	0090	04 47		10 86			01 05					1	3	03
15	0100	04 62		11 15			00 93					1	3	03

77	11	0239	56 59	0	18 47	65 12	08	16	7 8 4 0
		0073	01			27 22		042	



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			Wind		Mixed layer					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.	depth m					
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		

77 11 0239

16	0000	03	99		07	38				08	25		1	3	03
16	0005	03	95		07	34							1	3	03
16	0010	03	98		07	36				08	22		1	3	03
16	0015	03	98		07	36							1	3	03
16	0020	03	98		07	36				08	24		1	3	03
16	0030	04	04		07	37				08	21		1	3	03
16	0040	04	06		07	37				08	19		1	3	03
16	0050	03	20		08	28				05	33		1	3	03
16	0060	03	38		08	94				03	49		1	3	03
16	0070	03	57		09	30				02	56		1	3	03

77	11	0240	57	05	0	18	42	65	12	08	18	2	8	3	0
		0026	01					27	22		026				

18	0000	03	77		07	32				08	31		1	3	03
18	0005	03	75		07	33							1	3	03
18	0010	03	75		07	32				08	33		1	3	03
18	0015	03	76		07	32							1	3	03
18	0020	03	76		07	33				08	27		1	3	03

77	11	0241	57	26	0	19	08	65	12	08	20	2	8	2	0
		0051	02					25	18		025				

20	0000	04	28		07	27				08	27		1	3	03
20	0005	04	25		07	30							1	3	03
20	0010	04	26		07	30				08	23		1	3	03
20	0015	04	24		07	32							1	3	03
20	0020	04	25		07	32				08	18		1	3	03
20	0030	04	53		07	33				08	13		1	3	03
20	0040	04	06		07	71				06	83		1	3	03

77	11	0242	57	24	0	19	26	65	12	08	22	2	8	3	0
		0122	02					25	18		035				

22	0000	04	40		07	34				08	21		1	3	03
22	0005	04	43		07	34							1	3	03
22	0010	04	35		07	34				08	24		1	3	03
22	0015	04	38		07	35							1	3	03
22	0020	04	38		07	35				08	12		1	3	03
22	0030	04	37		07	35				08	09		1	3	03
22	0040	04	54		07	38				08	80		1	3	03
22	0050	03	64		08	03				05	79		1	3	03
22	0060	03	45		09	08				03	09		1	3	03
22	0070	04	12		10	17				01	13		1	3	03
22	0080	04	40		10	64				00	73		1	3	03
22	0090	04	50		10	81				00	83		1	3	03

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice	
			0:N+E	1:N+W	2:S+E	3:S+W	0	1									2
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb			Wind Dir.   Speed kn.		Mixed layer depth m						
Obs. time	Obs. depth m		Temperature °C ↓			Salinity ‰ ↓			σ <sub>t</sub> ↓		ml/l Oxygen ↓		Saturat. % ↓		Salin. method	Extra info.	Card code

77 11 0242

22 0100	04 53	10 90	00 64	1 3 03
22 0115	05 10	11 87	01 08	1 3 03

77 11 0243	57 22	0	19 44	65 12	09 00	2 8 4 0
0130	02			25 18	051	

00 0000	04 59	07 40	08 16	1 3 03
00 0005	04 58	07 37		1 3 03
00 0010	04 56	07 38	08 13	1 3 03
00 0015	04 56	07 39		1 3 03
00 0020	04 57	07 39	08 13	1 3 03
00 0030	04 56	07 39	08 14	1 3 03
00 0040	04 58	07 39	08 12	1 3 03
00 0050	04 57	07 40	08 08	1 3 03
00 0060	03 36	08 94	03 41	1 3 03
00 0070	03 91	09 86	01 21	1 3 03
00 0080	04 24	10 42	01 08	1 3 03
00 0090	04 59	10 97	00 58	1 3 03
00 0100	04 76	11 26	00 65	1 3 03
00 0125	05 23	12 06	00 53	1 3 03

77 11 0244	57 20	0	20 03	65 12	09 01	2 8 3 0
0250	02			25 18	063	

02 0000	05 26	07 49	07 98	1 3 03
02 0005	05 21	07 48	07 94	1 3 03
02 0010	05 22	07 47	08 00	1 3 03
02 0015	05 19	07 47	07 97	1 3 03
02 0020	05 20	07 46	07 99	1 3 03
02 0030	05 21	07 46	07 97	1 3 03
02 0040	05 20	07 46	07 98	1 3 03
02 0050	05 24	07 46	07 91	1 3 03
02 0060	05 22	07 46	07 94	1 3 03
02 0070	03 06	08 67	04 43	1 3 03
02 0080	04 15	10 01	01 80	1 3 03
02 0090	04 49	10 87	01 23	1 3 03
01 0100	04 62	11 13	01 21	1 3 03
01 0125	05 13	11 93	01 17	1 3 03
01 0150	05 54	12 43	00 72	1 3 03
01 0175	05 64	12 68	00 24	1 3 03
01 0200	05 73	12 83	00 42	1 3 03
01 0225	05 82	12 91	00 31	1 3 03
01 0240	05 87	12 92	00 19	1 3 03

77 11 0245	57 18	0	20 21	65 12	09 04	2 8 4 0
0180	03			25 16	063	



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			1:N+W	2:S+E	3:S+W	1:N+W	2:S+E	3:S+W								
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	Oxygen		Saturat. ‰	Salin. method	Extra info.	Card code		
		↓			↓			↓	ml/l	↓	↓					

77 11 0245

05	0000	05	18		07	43				08	05		1	3	03
05	0005	05	16		07	42							1	3	03
05	0010	05	17		07	42				08	10		1	3	03
05	0015	05	18		07	42							1	3	03
05	0020	05	15		07	45				08	06		1	3	03
05	0030	05	15		07	42				08	00		1	3	03
05	0040	05	12		07	43				08	06		1	3	03
05	0050	05	11		07	42				08	01		1	3	03
05	0060	05	12		07	42				08	06		1	3	03
05	0070	04	11		09	33				03	22		1	3	03
05	0080	04	19		10	32				01	32		1	3	03
04	0090	04	63		10	96				01	44		1	3	03
04	0100	04	87		11	37				01	60		1	3	03
04	0125	05	20		12	01				01	17		1	3	03
04	0150	05	47		12	37				00	30		1	3	03
04	0175	05	50		12	44				00	24		1	3	03

77	11	0246	57	16	0	20	39	65	12	09	06		2	8	4	0
		0080	03					25	12		068					

06	0000	05	52		07	52				07	93		1	3	03
06	0005	05	48		07	52							1	3	03
06	0010	05	51		07	52				07	93		1	3	03
06	0015	05	50		07	53							1	3	03
06	0020	05	51		07	53				07	90		1	3	03
06	0030	05	52		07	53				07	87		1	3	03
06	0040	05	51		07	53				07	94		1	3	03
06	0050	05	49		07	53				07	97		1	3	03
06	0060	05	49		07	53				07	90		1	3	03
06	0070	05	75		07	64				07	64		1	3	03

77	11	0247	57	13	0	20	56	65	12	09	07		2	8	4	0
		0026	03					25	12		026					

07	0000	05	62		07	43				07	42		1	3	03
07	0005	05	61		07	43							1	3	03
07	0010	05	60		07	43				08	05		1	3	03
07	0015	05	59		07	45							1	3	03
07	0020	05	61		07	45				08	04		1	3	03

77	11	0248	58	00	0	19	54	65	12	09	13		2	8	4	0
		0205	03					18	22		052					

14	0000	04	65		07	23				08	26		1	3	03
14	0005	04	60		07	23							1	3	03
14	0010	04	61		07	23				08	23		1	3	03



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		

77 11 0248

14	0015	04	58		07	23						1	3	03		
14	0020	04	58		07	23				08	28	1	3	03		
14	0030	04	59		07	23				08	26	1	3	03		
14	0040	04	67		07	24				08	23	1	3	03		
14	0050	04	75		07	26				08	19	1	3	03		
14	0060	03	28		08	43				04	69	1	3	03		
14	0070	03	80		09	69				01	76	1	3	03		
13	0080	04	15		10	20				01	17	1	3	03		
13	0090	04	43		10	67				00	70	1	3	03		
13	0100	04	53		10	86				00	65	1	3	03		
13	0125	05	13		11	91				00	82	1	3	03		
13	0150	05	44		12	26				00	51	1	3	03		
13	0190	05	50		12	87				00	15	1	3	03		

77 11 0249 58 27 0 20 20 65 12 09 17 2 8 4 0  
 0125 03 18 24 048

17	0000	04	63		07	12				08	23	1	3	03		
17	0005	04	63		07	09						1	3	03		
17	0010	04	69		07	12				08	24	1	3	03		
17	0015	04	61		07	12						1	3	03		
17	0020	04	61		07	12				08	21	1	3	03		
17	0030	04	59		07	12				08	24	1	3	03		
17	0040	04	60		07	12				08	20	1	3	03		
17	0050	04	47		07	15				08	12	1	3	03		
17	0060	03	10		08	36				04	83	1	3	03		
17	0070	03	93		09	71				01	93	1	3	03		
17	0080	04	26		10	41				00	81	1	3	03		
17	0090	04	52		10	81				00	58	1	3	03		
17	0100	04	63		11	06				00	56	1	3	03		
17	0115	04	72		11	23				00	55	1	3	03		

77 11 0250 59 18 0 21 28 65 12 09 23 2 8 4 0  
 0110 04 16 22 065

23	0000	04	72		07	37				08	12	1	3	03		
23	0005	04	72		07	38						1	3	03		
23	0010	04	68		07	37				08	13	1	3	03		
23	0015	04	70		07	37						1	3	03		
23	0020	04	68		07	37				08	13	1	3	03		
23	0030	04	68		07	37				08	17	1	3	03		
23	0040	04	68		07	37				08	13	1	3	03		
23	0050	04	72		07	37				08	18	1	3	03		
23	0060	04	81		07	37				08	13	1	3	03		
23	0070	04	52		07	99				06	56	1	3	03		
23	0080	04	17		09	35				02	80	1	3	03		
23	0090	04	21		09	72				01	89	1	3	03		

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	Oxygen		Saturat. %	Salin. method	Extra info.	Card code		
		↓			↓			↓	ml/l	↓	↓					

77 11 0250

23 0100 04 16 09 76 01 85 1 3 03

77 11 0251 59 22 0 22 28 65 12 10 04 7 8 4 0  
0100 01 14 24 018

04 0000 03 90 06 80 08 44 1 3 03  
 04 0005 03 90 06 79 1 3 03  
 04 0010 03 90 06 79 08 40 1 3 03  
 04 0015 03 97 06 97 1 3 03  
 04 0020 04 11 07 15 08 34 1 3 03  
 04 0030 04 34 07 20 08 19 1 3 03  
 04 0040 04 39 07 31 08 23 1 3 03  
 04 0050 04 45 07 31 08 21 1 3 03  
 04 0060 04 55 07 33 08 10 1 3 03  
 04 0070 04 63 07 47 07 63 1 3 03  
 04 0080 04 19 08 75 03 66 1 3 03  
 04 0090 04 27 09 76 01 63 1 3 03

77 11 0252 59 35 0 23 18 65 12 10 07 7 8 4 0  
0070 00 5 09 24 025

07 0000 03 99 06 92 08 30 1 3 03  
 07 0005 03 98 06 92 1 3 03  
 07 0010 03 98 06 92 08 37 1 3 03  
 07 0015 03 96 06 93 1 3 03  
 07 0020 03 98 06 93 08 44 1 3 03  
 07 0030 03 73 07 02 08 26 1 3 03  
 07 0040 03 64 07 12 08 32 1 3 03  
 07 0050 03 96 07 20 08 06 1 3 03  
 07 0060 03 99 07 30 07 87 1 3 03

77 11 0253 59 41 0 24 00 65 12 10 14 7 8 4 0  
0075 00 09 20 014

14 0000 03 75 06 35 08 33 1 3 03  
 14 0005 03 72 06 35 08 33 1 3 03  
 14 0010 03 75 06 32 08 30 1 3 03  
 14 0015 03 98 06 41 08 22 1 3 03  
 14 0020 04 29 06 45 08 14 1 3 03  
 14 0030 04 81 06 66 07 97 1 3 03  
 14 0040 04 88 06 80 07 68 1 3 03  
 14 0050 04 88 07 11 07 24 1 3 03  
 14 0060 04 91 07 81 05 42 1 3 03  
 14 0070 04 69 08 72 03 25 1 3 03

77 11 0254 59 51 0 24 50 65 12 10 17 7 8 3 0  
0071 01 11 18 018



Country	Ship	Station number	Latitude		Longitude	Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			1:N+W	2:S+E									
		Depth to bottom m	Temperature °C Dry ↓ bulb		Temperature °C Wet ↓ bulb		Wind Dir.   Speed kn.		Mixed layer depth m				
Obs. time	Obs. depth m	Temperature °C ↓		Salinity ‰ ↓	$\sigma_t$ ↓	ml/l ↓	Oxygen Saturat. % ↓	Salin. method	Extra info.	Card code			

77 11 0254

17	0000	03	45	06	03	08	29	1	3	03		
17	0005	03	38	06	03			1	3	03		
17	0010	03	38	06	03	08	37	1	3	03		
17	0015	03	39	06	02			1	3	03		
17	0020	03	65	06	07	08	19	1	3	03		
17	0030	04	35	06	28	07	65	1	3	03		
17	0040	04	48	06	56	07	08	1	3	03		
17	0050	04	58	06	95	06	33	1	3	03		
17	0060	04	62	07	39	04	79	1	3	03		
17	0065	04	60	07	85	04	67	1	3	03		

77 11 0255 59 55 0 25 36 65 12 10 20 2 8 3 0  
0062 01 14 16 013

20	0000	02	93	05	54	08	54	1	3	03		
20	0005	02	92	05	54			1	3	03		
20	0010	02	93	05	53	08	55	1	3	03		
20	0015	03	13	05	56	08	50	1	3	03		
20	0020	03	72	05	65	08	27	1	3	03		
20	0030	03	86	05	93	07	70	1	3	03		
20	0040	04	34	06	48	06	51	1	3	03		
20	0050	04	75	07	98	03	77	1	3	03		
20	0060	04	55	08	66	02	67	1	3	03		

77 11 0256 60 09 0 26 20 65 12 10 23 2 8 3 0  
0052 02 18 08 018

23	0000	02	21	04	76	08	87	1	3	03		
23	0005	02	20	04	74	08	88	1	3	03		
23	0010	02	21	04	74	08	87	1	3	03		
23	0015	02	21	04	74	08	84	1	3	03		
23	0020	02	88	04	97	08	53	1	3	03		
23	0030	03	47	05	16	09	05	1	3	03		
23	0040	03	78	05	53	07	62	1	3	03		
23	0044	03	94	05	85	06	92	1	3	03		

77 11 0257 59 11 0 21 46 65 12 13 23 7 8 3 0  
0122 -04 34 10 091

23	0000	04	54	07	39	08	15	1	3	03		
23	0005	04	55	07	39			1	3	03		
23	0010	04	56	07	39	08	13	1	3	03		
23	0015	04	53	07	39			1	3	03		
23	0020	04	54	07	39	08	20	1	3	03		
23	0030	04	57	07	40	08	15	1	3	03		
23	0040	04	64	07	40	08	10	1	3	03		



Country	Ship	Station number	Latitude		Longitude	Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			1:N+W	2:S+E									
		Depth to bottom m	Temperature °C Dry ↓ bulb		Temperature °C Wet ↓ bulb	Wind Dir.   Speed kn.		Mixed layer depth m					
Obs. time	Obs. depth m	Temperature °C ↓		Salinity ‰ ↓	$\sigma_t$ ↓	ml/l ↓	Oxygen	Saturat. % ↓	Salin. method	Extra info.	Card code		

77 11 0257

23	0050	04 66		07 41		08 10		1 3 03			
23	0060	04 68		07 41		08 14		1 3 03			
23	0070	04 69		07 41		08 11		1 3 03			
23	0080	04 68		07 44		08 07		1 3 03			
23	0090	04 59		07 84		07 00		1 3 03			
23	0100	04 28		09 75		02 10		1 3 03			
23	0110	04 39		10 60		00 70		1 3 03			

77 11	0258	59 02	0	21 05	65 12	14	02	2 8 3 0			
	0180	-02			36 10		043				

03	0000	04 72		07 45		08 07		1 3 03			
03	0005	04 68		07 44				1 3 03			
03	0010	04 70		07 42		08 19		1 3 03			
03	0015	04 71		07 42				1 3 03			
03	0020	04 69		07 42		08 12		1 3 03			
03	0030	04 70		07 42		08 15		1 3 03			
03	0040	04 68		07 41		08 09		1 3 03			
03	0050	04 86		07 55		07 71		1 3 03			
03	0060	04 85		07 63		07 43		1 3 03			
03	0070	04 54		08 04		06 17		1 3 03			
03	0080	03 94		09 23		03 14		1 3 03			
02	0090	03 90		09 40		02 66		1 3 03			
02	0100	04 07		09 79		01 85		1 3 03			
02	0125	04 56		10 95		00 37Q		1 3 03			
02	0150	04 61		11 05		00 33		1 3 03			
02	0170	04 66		11 19		00 21		1 3 03			

77 11	0259	58 53	0	20 19	65 12	14	06	2 8 4 0			
	0170	-01 5			36 28		020				

06	0000	04 05		07 16		08 24		1 3 03			
06	0005	04 03		07 16				1 3 03			
06	0010	04 03		07 15		08 29		1 3 03			
06	0015	04 00		07 16				1 3 03			
06	0020	04 06		07 18		08 23		1 3 03			
06	0030	04 25		07 25		08 19		1 3 03			
06	0040	04 27		07 24		08 20		1 3 03			
06	0050	03 55		08 16		05 49		1 3 03			
06	0060	03 57		09 31		02 63		1 3 03			
06	0070	04 17		10 31		00 85		1 3 03			
06	0080	04 37		10 59		00 42		1 3 03			
06	0090	04 43		10 71		00 41		1 3 03			
06	0100	04 51		10 83		00 44		1 3 03			
06	0125	04 65		11 13		00 46		1 3 03			
06	0150	04 77		11 34		00 41		1 3 03			
06	0160	04 79		11 39		00 45		1 3 03			

Country	Ship	Station number	Latitude		0:N+E 1:N+W 2:S+E 3:S+W	Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			°	'		°	'								
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb		Wind Dir.   Speed kn.				Mixed layer depth m			
Obs. time	Obs. depth m	Temperature °C ↓			Salinity ‰ ↓	$\sigma_t$ ↓	ml/l ↓	Oxygen ↓	Saturat. % ↓	Salin. method	Extra info.	Card code			
77 11	0260 0120	58 47	0	19 06	65 12 32 22	14	11	055	1 4 4 0						
11	0000	04 11		07 25		08 21			1 3 03						
11	0005	04 15		07 25					1 3 03						
11	0010	04 09		07 26		08 20			1 3 03						
11	0015	04 12		07 26					1 3 03						
11	0020	04 10		07 25		08 24			1 3 03						
11	0030	04 13		07 25		08 23			1 3 03						
11	0040	04 12		07 25		08 22			1 3 03						
11	0050	04 14		07 25		07 65			1 3 03						
11	0060	04 38		07 71		06 73			1 3 03						
11	0070	03 88		09 14		03 15			1 3 03						
11	0080	03 91		09 56		02 27			1 3 03						
11	0090	04 10		10 05		01 48			1 3 03						
11	0100	04 34		10 56		00 73			1 3 03						
77 11	0261 0459	58 35	0	18 15	65 12 32 16	14	16	017	2 7 3 0						
18	0000	04 06		07 05		08 26			1 3 03						
18	0005	03 99		07 05		08 25			1 3 03						
18	0010	04 02		07 05		08 23			1 3 03						
18	0015	04 00		07 05		08 27			1 3 03						
18	0020	04 16		07 09		08 15			1 3 03						
18	0030	04 25		07 09		08 21			1 3 03						
18	0040	04 49		07 13		07 96			1 3 03						
18	0050	04 57		07 25		07 80			1 3 03						
18	0060	04 56		07 30		07 73			1 3 03						
18	0070	04 74		07 63		06 53			1 3 03						
18	0080	03 94		08 35		04 76			1 3 03						
18	0090	04 13		10 08		01 20			1 3 03						
16	0100	04 27		10 33		00 88			1 3 03						
16	0125	04 52		10 81		00 37			1 3 03						
16	0150	04 63		11 05		00 48			1 3 03						
16	0175	04 69		11 17		00 50			1 3 03						
16	0200	04 71		11 20		00 48			1 3 03						
16	0300	04 74		11 25		00 53			1 3 03						
16	0400	04 75		11 28		00 52			1 3 03						
16	0440	04 76		11 29		00 49			1 3 03						
77 11	0262 0175	58 00	0	18 00	65 12 34 16	14	22	039	1 4 3 0						
22	0000	03 56		07 03		08 50			1 3 03						
22	0005	03 52		07 03		08 50			1 3 03						
22	0010	03 53		07 04		08 43			1 3 03						
22	0015	03 51		07 03		08 45			1 3 03						
22	0020	03 51		07 03		08 48			1 3 03						



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			1.N+W	2.S+E	3.S+W	1	2	3								
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.	depth m					
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		
		↓			↓			↓	↓	↓	↓					

77 11 0262

22	0030	03	51		07	04				08	46		1	3	03
22	0040	03	59		07	24				07	99		1	3	03
22	0050	03	59		08	82				03	66		1	3	03
22	0060	03	80		09	41				02	30		1	3	03
22	0070	04	06		10	04				01	09		1	3	03
22	0080	04	35		10	35				00	61		1	3	03
22	0090	04	40		10	54				00	30		1	3	03
22	0100	04	41		10	57				00	27		1	3	03
22	0125	04	44		10	59				00	22		1	3	03
22	0150	04	43		10	63				00	23		1	3	03

77 11 0263 57 39 0 18 12 65 12 15 01 1 4 3 0  
0097 -03 5 34 12 033

01	0000	03	80		06	97				08	39		1	3	03
01	0005	03	76		06	97							1	3	03
01	0010	03	77		06	97				08	40		1	3	03
01	0015	03	72		06	93							1	3	03
01	0020	03	72		06	97				08	41		1	3	03
01	0030	03	75		06	97				08	41		1	3	03
01	0040	03	83		07	60				06	77		1	3	03
01	0050	03	41		08	62				04	10		1	3	03
01	0060	03	72		09	52				01	66		1	3	03
01	0070	04	00		09	92				00	90		1	3	03
01	0080	04	16		10	12				00	34		1	3	03
01	0090	04	14		10	13				00	36		1	3	03

77 11 0264 57 40 0 17 56 65 12 15 02 1 4 3 0  
0102 -02 34 12 009

02	0000	03	72		06	97				08	40		1	3	03
02	0005	03	70		06	97							1	3	03
02	0010	03	83		07	02				08	36		1	3	03
02	0015	03	87		07	05							1	3	03
02	0020	03	95		07	06				08	29		1	3	03
02	0030	04	01		07	06				08	30		1	3	03
02	0040	04	03		07	07				08	25		1	3	03
02	0050	04	05		07	07				08	25		1	3	03
02	0060	04	31		07	56				06	68		1	3	03
02	0070	03	56		08	65				04	06		1	3	03
02	0080	03	85							02	20			3	03
02	0090	04	26		10	33				00	37		1	3	03

77 11 0265 57 42 0 17 39 65 12 15 04 1 4 3 0  
0090 -01 02 06 052

04 0000 03 73 07 06 08 32 1 3 03



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W										
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. %	Salin. method	Extra info.	Card code		

77 11 0265

04	0005	03	72		07	03						1	3	03		
04	0010	03	69		07	06			08	35		1	3	03		
04	0015	03	72		07	05						1	3	03		
04	0020	03	73		07	05			08	31		1	3	03		
04	0030	03	74		07	05			08	33		1	3	03		
04	0040	03	78		07	05			08	51		1	3	03		
04	0050	03	79		07	06			08	33		1	3	03		
04	0060	04	36		07	51			06	79		1	3	03		
04	0070	03	78		07	93			05	97		1	3	03		
04	0080	03	63		08	85			03	59		1	3	03		

77 11 0266

	0141	57	43	0	17	22		65	12	15	06	1	4	3	0	
		-01						02	06		029					
06	0000	03	56		06	92				08	38	1	3	03		
06	0005	03	58		06	86						1	3	03		
06	0010	03	60		06	90				08	46	1	3	03		
06	0015	03	52		06	89						1	3	03		
06	0020	03	53		06	89				08	37	1	3	03		
06	0030	03	70		06	91				08	32	1	3	03		
06	0040	03	87		06	94				08	34	1	3	03		
06	0050	04	04		07	01				08	20	1	3	03		
06	0060	04	06		07	03				08	29	1	3	03		
06	0070	04	13		07	05				08	17	1	3	03		
06	0080	04	22		07	22				07	34	1	3	03		
06	0090	03	81		09	35				02	18	1	3	03		
06	0100	04	21		10	23				00	68	1	3	03		
06	0125	04	38		10	57				00	30	1	3	03		

77 11 0267

	0070	57	45	0	17	06		65	12	15	07	1	6	3	0	
		-00	5					36	14		019					
07	0000	03	37		06	79				08	47	1	3	03		
07	0005	03	37		06	81						1	3	03		
07	0010	03	37		06	80				08	48	1	3	03		
07	0015	03	38		06	79						1	3	03		
07	0020	03	55		06	82				08	37	1	3	03		
07	0030	03	57		06	82				08	41	1	3	03		
07	0040	03	56		06	84				08	39	1	3	03		
07	0050	03	62		06	84				08	38	1	3	03		
07	0060	03	71		06	86				08	32	1	3	03		

77 11 0268

	0034	57	46	0	16	50		65	12	15	09	1	6	3	0	
		-04						02	14		012					
09	0000	02	39		06	87				08	72	1	3	03		

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		

77 11 0268

09	0005	02	39		06	88								1	3	03
09	0010	02	39		06	88				08	67			1	3	03
09	0015	02	64		06	95								1	3	03
09	0020	01	60		06	95				08	92			1	3	03
09	0030	01	64		06	95				08	95			1	3	03

77	11	0269	57	07	0	17	40	65	12	15	13			1	4	3	0
		0110	00					02	14		045						

13	0000	03	90		06	92				08	42			1	3	03
13	0005	03	86		06	91				08	39			1	3	03
13	0010	03	88		06	91				08	39			1	3	03
13	0015	03	85		06	91				08	43			1	3	03
13	0020	03	86		06	91				08	41			1	3	03
13	0030	03	82		06	91				08	59			1	3	03
13	0040	03	84		06	91				08	42			1	3	03
13	0050	04	00		06	96				08	30			1	3	03
13	0060	04	05		07	31				07	40			1	3	03
13	0070	03	49		07	88				06	29			1	3	03
13	0080	03	27		08	62				04	06			1	3	03
13	0090	03	87		09	68				00	88			1	3	03
13	0100	04	19		10	17				00	22			1	3	03
13	0105	04	17		10	17				00	20			1	3	03

77	11	0270	56	33	0	17	04	65	12	15	18			1	2	3	0
		0073	-01					02	12		035						

18	0000	03	76		06	98				08	35			1	3	03
18	0005	03	71		06	96								1	3	03
18	0010	03	71		06	98				08	33			1	3	03
18	0015	03	70		06	98								1	3	03
18	0020	03	69		06	98								1	3	03
18	0030	03	69		06	99				08	33			1	3	03
18	0040	03	85		07	02				08	27			1	3	03
18	0050	04	00		07	13				08	15			1	3	03
18	0060	04	13		07	18				07	93			1	3	03
18	0070	04	06		07	42				07	18			1	3	03

77	11	0271	56	30	0	16	52	65	12	15	19			1	2	3	0
		0068	-01					02	14		020						

19	0000	03	53		07	04				08	25			1	3	03
19	0005	03	54		07	00								1	3	03
19	0010	03	53		07	01				08	32			1	3	03
19	0015	03	52		07	01								1	3	03
19	0020	03	58		07	02								1	3	03



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0:N+E	1:N+W								
		Depth to bottom m	Temperature °C		Temperature °C		Wind				Mixed layer depth m					
			Dry ↓	bulb	Wet ↓	bulb	Dir.	Speed kn.								
Obs. time	Obs. depth m	Temperature °C		Salinity ‰	$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code					
		↓	↓	↓	↓	↓	↓	↓								

77 11 0271

19 0030	03 70		07 03			08 26			1 3 03							
19 0040	03 71		07 11	Q					1 3 03							
19 0050	03 72		07 05			08 20			1 3 03							
19 0060	03 64		07 07			08 21			1 3 03							

77 11 0272	56 19	0	16 41		65 12	15	20		1 3 3 0							
0040	-01				02 14		040									

20 0000	03 15		07 06			08 46			1 3 03							
20 0005	03 18		07 06						1 3 03							
20 0010	03 18		07 06			08 36			1 3 03							
20 0015	03 17		07 08						1 3 03							
20 0020	03 17		07 08						1 3 03							
20 0030	03 15		07 06			08 39			1 3 03							

77 11 0273	55 42	0	15 57		65 12	16	01		2 8 3 0							
0069	00				02 14		038									

01 0000	03 35		07 28			08 12			1 3 03							
01 0005	03 29		07 27						1 3 03							
01 0010	03 32		07 30			08 11			1 3 03							
01 0015	03 32		07 29						1 3 03							
01 0020	03 33		07 30						1 3 03							
01 0030	03 40		07 30			08 07			1 3 03							
01 0040	04 00		07 46			07 68			1 3 03							
01 0050	05 19		08 02			07 89			1 3 03							
01 0060	09 01		13 24			03 04			1 3 03							

77 11 0274	55 32	0	15 05		65 12	16	05		2 8 3 0							
0079	00				09 14		041									

05 0000	03 63		07 36			08 23			1 3 03							
05 0005	03 60		07 36						1 3 03							
05 0010	03 60		07 35			08 26			1 3 03							
05 0015	03 59		07 35						1 3 03							
05 0020	03 57		07 35						1 3 03							
05 0030	03 59		07 35			08 16			1 3 03							
05 0040	03 58		07 37			08 16			1 3 03							
05 0050	04 50		07 67			07 44			1 3 03							
05 0060	05 73		08 09			07 54			1 3 03							
05 0070	08 38		14 39			03 31			1 3 03							

77 11 0275	55 10	0	12 44		65 12	16	13		2 8 3 0							
0032	02				11 12		013									

13 0000	04 32		08 69			08 28			1 3 03							
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Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice				
			°	'	"	°	'	"												
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb			Wind Dir.   Speed kn.		Mixed layer depth m									
		Obs. time	Obs. depth m			Temperature °C ↓			Salinity ‰ ↓			$\sigma_t$ ↓		ml/l Oxygen ↓		Saturat. % ↓		Salin. method	Extra info.	Card code

77 11 0275

13	0005	04	36	08	69	08	27	1	3	03
13	0010	04	36	08	71	08	25	1	3	03
13	0015	04	20	08	81	08	28	1	3	03
13	0020	04	14	09	07	08	24	1	3	03
13	0028	04	27	13	76	07	62	1	3	03



# "Skagerak"

Chemical Observations









Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E 1:N+W 2:S+E 3:S+W										

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 11	0003							
22	0040	04 86	04 48		0 21			06
22	0050	07 46	06 60	228	0 62	8 04		06
22	0060	08 27	08 13	165	1 04	7 73		06
22	0070	07 71	09 25	072	1 53	7 58		06
22	0080	07 84	09 43	077	1 51	7 38		06
						7 37		
77 11	0004	55 15	0 15 59	965	01 09	01 0093		
01	0000	04 63	04 29	373	0 08			06
		00 44	0 02	01 6		8 15		
01	0005	04 60	04 29	369	0 09			06
		00 48	0 02	01 7		8 15		
01	0010	04 59	04 29	375	0 08			06
		01 10	0 02	01 7		8 15		
01	0015	04 58	04 29	374	0 04			06
		01 09	0 02	01 5		8 15		
01	0020	04 57	04 29	374	0 04			06
		01 17	0 04	01 2		8 15		
01	0030	04 58	04 29	345	0 09			06
		01 13	0 04	01 0		8 16		
01	0040	04 60	04 30	372	0 06			06
		01 26	0 04	01 5		8 25		
01	0050	05 38	04 71	332	0 24			06
		01 66	0 02	01 2		7 97		
01	0060	07 95	08 23	153	0 74			06
		04 00	0 02	00 9		7 57		
01	0070	08 15	09 11	130	1 10			06
		04 79	0 04	00 9		7 50		
01	0080	08 04	09 56	175	0 99			06
		04 29	0 02	00 7		7 64		
01	0087	08 16	09 96	213	0 92			06
		03 64	0 02	01 0		7 83		
77 11	0005	55 13	0 17 04	965	01 09	05 0086		
05	0000	04 33	04 27	372	0 16			06
		02 00	0 04	13 5		8 15		
05	0005	04 28	04 27		0 16			06
		01 57	0 04	13 9		8 21		
05	0010	04 34	04 27	367	0 19			06
		01 68	0 04	10 4		8 20		
05	0015	04 26	04 27		0 13			06
		01 64	0 04	09 7		8 19		
05	0020	04 24	04 27		0 12			06
		02 57	0 02	09 3		8 22		



Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W							

Obs. time	Obs. depth m	Temperature °C		Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		↓	↓	Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	

77 11 0005

05	0030	04 27		04 27	373				06
		01 93		0 04	10 9		8 17		
05	0040	04 27		04 28		0 13			06
		01 71		0 02	11 6		8 18		
05	0050	04 35		04 28	372				06
		02 07		0 04	10 9		8 15		
05	0060	04 73		04 99	238				06
		03 18		0 02	12 3		7 60		
05	0070	06 18		06 54	176				06
		04 32		0 04	07 6		7 54		
05	0080	07 32		07 90	129				06
		05 11		0 02	02 7		7 46		

77 11 0006

14	0000	04 65	0 15 21	04 58	965	01 09	14 0082		
		00 18		0 02	13 2		8 15		06
14	0005	04 63		04 58		0 15			06
		00 96		0 02	13 7		8 27		
14	0010	04 63		04 56	375				06
		01 26		0 02	16 0		8 22		
14	0015	04 61		04 56		0 17			06
		01 53		0 05	16 0		8 22		
14	0020	04 62		04 58		0 17			06
		01 66			13 8		8 22		
14	0030	04 62		04 58	374				06
		01 71		0 02	11 4		8 18		
14	0040	04 63		04 58	373				06
		01 69			02 2		8 22		
14	0050	07 43		06 60	236				06
		01 66		0 02	08 4		7 77		
14	0060	08 25		07 89	200				06
		03 39			07 8		7 71		
14	0070	07 72		08 91	077				06
		03 64			07 6	1 48	7 41		
14	0078	07 78		09 29	066				06
		05 25			07 9	1 51	7 41		

77 11 0007

23	0000	04 10	0 19 19	04 16	965	01 12	23 0125		
		00 56		0 07	14 9		8 06		06
23	0005	04 06		04 17		0 12			06
		00 67			15 6		8 04		
23	0010	04 06		04 17		0 13			06
		00 82			15 9		8 07		

Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E 1:N+W 2:S+E 3:S+W										

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 11 0007

23	0015	04 06	04 17		0 13			06
		00 93	0 10	15 4		8 06		
23	0020	04 06	04 15		0 15			06
		00 41		15 6		8 11		
23	0030	04 05	04 16	374	0 13			06
		00 96		15 1		8 08		
23	0040	04 06	04 17		0 15			06
		01 09	0 07	14 5		8 11		
23	0050	04 08	04 18	376	0 16			06
		00 54		12 7		8 08		
23	0060	04 10	04 19		0 21			06
		00 89		11 2		8 04		
23	0070	04 31	05 56	169	0 79			06
		04 25	0 02	11 3		7 42		
23	0080	04 37	06 06	138	0 97			06
		02 32		13 3		7 30		
23	0090	04 52	06 30	113	1 12			06
		03 32		09 3		7 26		
23	0100	04 76	06 51	105	1 14			06
		05 39	0 02	09 3		7 26		
23	0120	05 44	06 84	096	1 25			06
		02 75		10 8		7 24		

77 11 0008

		56 51	0 18 52	965	01 13	04 0115		
04	0000	04 03	04 15	378	0 15			06
						8 08		
04	0005	03 97	04 15		0 15			06
						8 05		
04	0010	03 99	04 15	421	0 18			06
						8 05		
04	0015	03 99	04 15		0 18			06
						8 08		
04	0020	03 96	04 15		0 18			06
						8 07		
04	0030	03 97	04 15	423	0 17			06
						8 09		
04	0040	03 97	04 15		0 18			06
						8 07		
04	0050	03 98	04 15	380	0 19			06
						8 07		
04	0060	04 01	04 18		0 20			06
						8 05		
04	0070	03 84	05 50	089	1 39			06
						7 25		
04	0080	04 34	06 02	071	1 52			06
						7 20		

Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W	0	1					

Obs. time	Obs. depth m	Temperature °C		Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		↓	↓	↓	↓	↓	↓	↓	
		Nitrate-N μg.-atoms/dm <sup>3</sup>		Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 11 0008

04	0090	04	49	06	38	101	1	30				06
									7	28		
04	0100	04	83	06	63	087	1	66				06
									7	24		
04	0110	05	06	06	79	054	2	06				06
									7	22		

77 11 0009

56	59	0	18	47	965	01	13	06	0065			
06	0000	03	22	04	15	388	0	19		8	07	06
06	0005	03	17	04	15		0	18		8	07	06
06	0010	03	15	04	15	391	0	18		8	07	06
06	0015	03	13	04	15		0	19		8	07	06
06	0020	03	17	04	15		0	19		8	07	06
06	0030	03	16	04	15	385	0	19		8	07	06
06	0040	03	15	04	15	389	0	19		8	08	06
06	0050	03	18	04	15	359	0	20		8	10	06
06	0060	03	80	05	50	093	1	38		8	05	06
									7	24		

77 11 0010

57	05	0	18	42	965	01	13	07	0027			
07	0000	02	52	04	10	396	0	24		8	01	06
07	0005	02	51	04	11		0	24		8	05	06
07	0010	02	54	04	11	396	0	20		8	03	06
07	0015	02	51	04	12		0	26		8	04	06
07	0020	02	51	04	11		0	27		8	04	06
07	0025	02	47	04	12	395	0	27		8	05	06
									8	05		

77 11

0011

57 05 0 19 00

965

01 13

08 0115

08

0000

03 69

04 13

384

0 13

8 03

06

08

0005

03 64

04 14

0 13

8 03

06

8 03



Country	Ship	Station number	Latitude			Longitude			Year	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W	0	1					

Obs. time	Obs. depth m	Temperature °C		Chlorosity	Oxygen	Phosphate-P	Total P	Silicate-Si	Card code
		↓	↓	g./dm <sup>3</sup>	μmol/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	
		Nitrate-N		Nitrite-N	Ammonium-N	Organic N	pH	Alkalinity	
		μg.-atoms/dm <sup>3</sup>		μg.-atoms/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	↓	μval /dm <sup>3</sup>	

77 11 0011

08	0010	03 63		04 13	383	0 13			06
							8 02		
08	0015	03 61		04 14		0 15			06
							8 03		
08	0020	03 63		04 14		0 15			06
							8 03		
08	0030	03 61		04 14	382	0 13			06
							8 06		
08	0040	03 60		04 14		0 16			06
							8 05		
08	0050	03 61		04 14	381	0 13			06
							8 01		
08	0060	03 60		04 13	383	0 15			06
							8 08		
08	0070	03 52		05 14	140	1 04			06
							7 30		
08	0080	03 88		05 54	082	1 42			06
							7 21		
08	0090	04 14		05 82	067	1 53			06
							7 20		
08	0100	04 49		06 18	075	1 60			06
							7 24		
08	0110	04 71		06 46	138	1 62			06
							7 22		

77 11 0012 57 20 0 20 03 965 01 13 13 0250

13	0000	04 14		04 10	379	0 12			06
		00 44		0 10	10 0		8 01		
13	0005	04 10		04 10	377	0 13			06
		00 83			10 2		8 06		
13	0010	04 07		04 10	384	0 12			06
		00 79			10 3		8 05		
13	0015	04 07		04 10	376	0 16			06
		00 93		0 12	10 0		8 05		
13	0020	04 09		04 10	375	0 15			06
		01 02			10 2		8 04		
13	0030	04 09		04 10	379	0 13			06
		01 10			09 3		8 03		
13	0040	04 09		04 10		0 15			06
		01 41		0 10	08 4		8 03		
13	0050	04 07		04 10	383	0 17			06
		01 36			07 6		8 01		
13	0060	04 09		04 10	379	0 20			06
		01 36			06 3		8 04		
13	0070	04 05		04 12	366	0 20			06
		01 45		0 10	08 5		8 04		

Country	Ship	Station number	Latitude			Longitude			Year	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W	0:N+E	1:N+W					

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 11 0012

13	0080	03 97	05 50	067	1 93			06
		04 86		08 0		7 14		
13	0090	04 18	05 67	045	2 08			06
		05 14		03 9		7 10		
13	0100	04 34	06 00	062	1 60			06
		05 54		02 9		7 17		
13	0125	04 79	06 59	088	1 61			06
		05 29		07 6		7 26		
13	0150	05 19	06 87	072	2 22			06
		04 73		06 3		7 27		
13	0175	05 46	07 02	042	2 60			06
		04 64	0 14	08 2		7 23		
13	0200	05 46	07 13	050	2 46			06
				07 6		7 31		
13	0225	05 45	07 18	059	2 22			06
		05 79		05 4		7 25		
13	0245	05 42	07 20	051	2 23			06
		05 71	0 05	02 3		7 26		

77 11 0013

		58 00	0 19 54	965	01 13	18 0200		
18	0000	03 51	03 97	385	0 35			06
		01 83	0 14	10 2		8 02		
18	0005	03 52	03 97		0 29			06
		01 43		11 4		8 02		
18	0010	03 51	03 97	384	0 30			06
		01 43		10 9		8 03		
18	0015	03 49	03 97		0 30			06
		01 77	0 14	10 0		8 04		
18	0020	03 49	03 97		0 30			06
		01 33		10 6		8 04		
18	0030	03 49	03 97	383	0 32			06
		01 69		10 6		8 04		
18	0040	03 50	03 97		0 30			06
		01 66	0 17	10 1		8 06		
18	0050	03 50	03 97	378	0 30			06
		01 71		10 1		8 02		
18	0060	03 53	04 03	342	0 36			06
		01 89		10 6		7 97		
18	0070	03 67	05 21	108	1 74			06
		05 07	0 02	11 1		7 30		
18	0080	04 15	05 63	045	2 24			06
		06 21		09 2		7 20		
18	0090	04 46	05 91	030	2 33			06
		06 43		04 9		7 12		
18	0100	04 61	06 03	033	2 32			06
		06 75	0 02	09 2		7 17		
18	0125	05 08	06 67	044	2 25			06
		06 64		06 7		7 19		

Country	Ship	Station number	Latitude			Longitude			Year	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W							
			Temperature °C		Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>		Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code		
			Nitrate-N μg.-atoms/dm <sup>3</sup>		Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>		pH	Alkalinity μval /dm <sup>3</sup>			
77	11	0013											
	18	0150	05 27		06 83	030	2 57					06	
			06 54			11 1		7 19					
	18	0175	05 29		06 86	028	2 64					06	
			06 11		0 07	06 2		7 14					
	18	0190	05 30		06 88	027	2 65					06	
			06 11			10 2		7 17					
77	11	0014	58 35		0 18 14	965	01 15	17 0450					
	18	0000	02 36		04 08	413	0 36					06	
			01 01		0 20	00 9		7 96					
	18	0005	02 34		04 07		0 35					06	
			01 06			01 0		7 86					
	18	0010	02 32		04 08	348	0 38					06	
			01 15			01 1		7 94					
	18	0015	02 33		04 08		0 58					06	
			01 34		0 20	00 7		7 93					
	18	0020	02 29		04 08		0 42					06	
			01 40			00 8		7 97					
	18	0030	02 28		04 08	347	0 41					06	
			01 40			00 7		7 97					
	18	0040	02 30		04 08		0 38					06	
			01 45		0 20	01 1		8 01					
	18	0050	02 33		04 09	342	0 39					06	
			01 49			00 9		7 94					
	18	0060	03 52		05 01	136	1 62					06	
			03 43			00 6		7 29					
	18	0070	03 89		05 35	080	2 17					06	
			03 82		0 05	00 5		7 20					
	18	0080	04 20		05 56	033	2 60					06	
			04 00			00 6		7 13					
	18	0090	04 27		05 66	026	2 71					06	
			04 18			00 6		7 12					
	17	0100	04 35		05 69	021	2 87					06	
			04 21		0 02	00 6		7 04					
	17	0125	04 48		05 82	017	2 94					06	
			04 29			00 9		7 08					
	17	0150	04 53		05 87	015	2 91					06	
			04 71			00 9		7 11					
	17	0200	04 64		06 00	013	2 84					06	
			04 86		0 05	00 6		7 07					
	17	0300	04 75		06 12	018	2 81					06	
			04 39		0 05	00 6		7 10					
	17	0400	04 77		06 15	012	2 85					06	
			03 93		0 05	00 8		7 09					
	17	0440	04 79		06 14	014	2 95					06	
			03 73		0 02	00 9		7 08					



Country	Ship	Station number	Latitude °	0:N+E 1:N+W 2:S+E 3:S+W	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m				
Obs. time	Obs. depth m	Temperature °C ↓	Nitrate-N μg.-atoms/dm <sup>3</sup> ↓	Chlorosity g./dm <sup>3</sup> ↓	Nitrite-N μg.-atoms/dm <sup>3</sup> ↓	Ammonium-N μg.-atoms/dm <sup>3</sup> ↓	Oxygen μmol/dm <sup>3</sup> ↓	Phosphate-P μg.-atoms/dm <sup>3</sup> ↓	Organic N μg.-atoms/dm <sup>3</sup> ↓	Total P μg.-atoms/dm <sup>3</sup> ↓	pH ↓	Silicate-Si μg.-atoms/dm <sup>3</sup> ↓	Alkalinity μval/dm <sup>3</sup> ↓	Card code
77	11	0015	58 00	0	18 00	965	01	15	22	0175				
	23	0000	02 80		03 99	392	0	32						06
			01 41		0 22	08 9				7 98				
	23	0005	02 75		03 98			30						06
			01 30			09 2				7 99				
	23	0010	02 79		03 99	388		30						06
			01 30			09 3				7 97				
	23	0015	02 73		03 99			28						06
			01 36		0 20	09 7				7 99				
	23	0020	02 73		03 99			31						06
			01 36			07 8				7 98				
	23	0030	02 73		03 99	389		34						06
			01 36			09 1				7 99				
	23	0040	02 75		03 98			33						06
			01 30		0 24	08 9				8 01				
	23	0050	02 76		03 99	390		34						06
			01 34			06 8				7 97				
	23	0060	03 14		04 32	310		80						06
			01 94			07 6				7 68				
	22	0070	03 62		05 02	136		93						06
			03 43		0 02	05 5				7 21				
	22	0080	04 07		05 47	045		81						06
			03 93			06 1				7 10				
	22	0090	04 26		05 61	025		17						06
			03 57			08 3				7 10				
	22	0100	04 33		05 67	016		31						06
			03 71		0 05	05 4				7 08				
	22	0125	04 43		05 76	011		50						06
			03 46			08 3				7 06				
	22	0150	04 47		05 80	008		62						06
			04 32		0 05	04 9				7 07				
77	11	0016	57 40	0	17 56	965	01	16	02	0105				
	02	0000	02 62		04 04	409		32						06
										8 02				
	02	0005	02 51		04 04			30						06
										8 02				
	02	0010	02 50		04 04	400		32						06
										8 01				
	02	0015	02 48		04 04			32						06
										8 01				
	02	0020	02 56		04 03			32						06
										8 01				
	02	0030	02 53		04 04	398		32						06
										8 02				
	02	0040	02 55		04 04			32						06
										8 01				
	02	0050	02 56		04 04	395		32						06
										8 01				

Country	Ship	Station number	Latitude			Longitude			Year	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W							
Obs. time	Obs. depth m	Temperature °C.	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code					
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>						
77 11	0016												
02	0060	02 95	04 09	381	0 35	7 86		06					
02	0070	03 48	04 71	208	1 42	7 36		06					
02	0080	03 86	05 30	078	2 38	7 15		06					
02	0090	04 11	05 49	035	2 87	7 09		06					
02	0100	04 23	05 60	020	3 12	7 11		06					
77 11	0017	57 07	0 17 40	965	01 16	07 0110							
07	0000	02 89	04 12	389	0 28			06					
		00 50	0 20	05 3		8 06							
07	0005	02 79	04 12		0 29			06					
		00 61		02 2		8 06							
07	0010	02 74	04 12	393	0 29			06					
		00 55	0 20	02 3		8 03							
07	0015	02 73	04 12		0 29			06					
		00 70		01 8		8 04							
07	0020	02 77	04 12		0 28			06					
		00 38	0 17	02 6		8 08							
07	0030	02 72	04 12	392	0 30			06					
		00 20		04 5		8 07							
07	0040	02 71	04 12		0 29			06					
		00 32	0 20	03 8		8 06							
07	0050	02 75	04 13	384	0 37			06					
		00 61		00 9		8 03							
07	0060	03 14	04 51	267	1 04			06					
		01 60	0 10	00 7		7 66							
07	0070	03 57	05 07	116	1 94			06					
		03 00				7 30							
07	0080	03 96	05 39	051	2 71			06					
		02 75	0 05			7 21							
07	0090	04 23	05 58	015	3 06			06					
		02 50				7 18							
07	0100	04 29	05 62	013	3 34			06					
		03 04	0 07	01 1		8 05							
77 11	0018	56 33	0 17 04	965	01 16	13 0066							
13	0000	02 31	04 22	383	0 35	8 01		06					
13	0005	03 13	04 20		0 35	8 00		06					
13	0010	03 11	04 21	389	0 35	8 02		06					

Country	Ship	Station number	Latitude °	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E 1:N+W 2:S+E 3:S+W						
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code	
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>		

77 11 0018

13 0015	03 10	04 21		0 37		8 02		06
13 0020	03 08	04 22		0 37		8 04		06
13 0030	03 07	04 22	390	0 36		8 00		06
13 0040	03 33	04 26	378	0 38		7 98		06
13 0050	03 98	04 50	304	0 79		7 73		06
13 0060	03 92	05 34	044	3 00		7 12		06

77 11 0019

14 0000	03 59	04 38	965	01 16	14 0065			
14 0005	03 49	04 38	383	0 30		8 01		06
14 0010	03 48	04 38	385	0 33		8 04		06
14 0015	03 53	04 41		0 38		8 06		06
14 0020	03 67	04 46		0 45		8 01		06
14 0030	03 66	04 49	365	0 48		7 95		06
14 0040	03 66	04 52		0 48		7 94		06
14 0050	03 89	05 13	097	2 40		7 84		06
14 0060	04 07	05 49	010	3 74		7 20		06
						7 09		

77 11 0020

16 0000	03 19	04 41	965	01 16	16 0028			
16 0005	03 35	04 50	373	0 42		7 88		06
16 0010	03 39	04 50		0 46		7 94		06
16 0015	03 41	04 50	373	0 42		7 96		06
16 0020	03 38	04 50		0 45		7 97		06
16 0025	03 48	04 52		0 51		7 90		06
	03 74	04 74	269	1 12		7 54		06



Country	Ship	Station number	Latitude		Longitude	Year	Month	Day	Stat. time	Depth to bottom m	Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
			0:N+E 1:N+W 2:S+E 3:S+W	°									°	Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	
77	11	0039	55	00	0 14 05	965	04	06	10	0049									
	10	0000	02	55	04 17	442	0	03											06
			00	00	0 00	02 5											8 26		
	10	0005	02	53	04 53		0	00											06
			00	00	0 00	04 4											8 30		
	10	0010	02	56	04 54	443	0	03											06
			00	00	0 00	02 6											8 29		
	10	0015	02	40	04 55		0	00											06
			00	00		02 0											8 29		
	10	0020	02	35	04 57		0	00											06
			00	00	0 06	00 8											8 29		
	10	0030	01	24	04 74	407	0	09											06
			00	44		00 6											8 10		
	10	0040	01	10	06 64	390	0	13											06
			01	34	0 09	00 6											8 02		
	10	0047	02	01	07 53	318	0	64											06
			03	29		00 5											7 85		
77	11	0040	55	18	0 14 24	965	04	06	12	0047									
	12	0000	02	18	04 02	485	0	13											06
																	8 20		
	12	0005	02	17	04 04		0	12											06
																	8 22		
	12	0010	02	20	04 04	446	0	11											06
																	8 22		
	12	0015	01	81	04 39		0	10											06
																	8 04		
	12	0020	01	52	04 45		0	18											06
																	8 06		
	12	0030	01	47	04 50	402	0	18											06
																	7 90		
	12	0040	01	45	04 65	428	0	04											06
																	8 10		
	12	0045	02	43	06 64	330	0	43											06
																	7 82		
77	11	0041	55	23	0 15 20	965	04	06	15	0090									
	15	0000	02	90	04 34	439	0	18											06
																	8 10		
	15	0005	02	81	04 35		0	21											06
																	8 27		
	15	0010	02	76	04 35	441	0	15											06
																	8 26		
	15	0015	02	36	04 38		0	12											06
																	8 19		
	15	0020	02	07	04 40		0	13											06
																	8 16		

Country	Ship	Station number	Latitude		Longitude		Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E 1:N+W 2:S+E 3:S+W								

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 11 0041

15	0030	02 26	04 42	427	0 10			06
						8 16		
15	0040	01 87	04 50		0 22			06
						8 06		
15	0050	01 66	04 53	401	0 21			06
						8 00		
15	0060	03 91	05 84	313	0 51			06
						7 83		
15	0070	07 85	08 89	100	1 23			06
						7 37		
15	0080	07 94	09 18	089	1 45			06
						7 32		
15	0085	07 94	09 31	077	1 45			06
						7 33		

77 11 0042

		55 15	0 15 59	965	04 06	18 0093		
18	0000	02 50	04 36	434	0 14			06
		00 00	0 00	00 0		8 13		
18	0005	02 51	04 34	439	0 19			06
		00 00	0 00	00 0		8 16		
18	0010	02 49	04 34	440	0 14			06
		00 00	0 00	02 3		8 04		
18	0015	02 46	04 34	434	0 15			06
		00 00		09 1		8 16		
18	0020	02 13	04 36	428	0 15			06
		00 00	0 00	06 0		8 14		
18	0030	02 00	04 40	422	0 15			06
		00 40		02 5		8 09		
18	0040	01 99	04 50	448	0 19			06
		01 13	0 00	00 0		8 07		
18	0050	02 02	04 54	448	0 20			06
		01 43		04 6		8 00		
18	0060	06 29	06 89	241	0 62			06
		04 86	0 00	00 0		7 60		
18	0070	07 52	08 42	167	1 01			06
		05 46		00 0		7 45		
18	0080	08 06	09 20	107	1 33			06
		05 89	0 00	08 4		7 30		
18	0090	08 03	09 56	076	1 56			06
		05 29		00 2		7 25		

77 11 0043

		55 13	0 17 04	965	04 06	22 0091		
22	0000	02 43	04 25	418	0 14			06
		00 65	0 00	02 5		7 96		
22	0005	02 33	04 28		0 14			06
		00 59		02 2		8 02		

Country	Ship	Station number	Latitude °	0:N+E 1:N+W 2:S+E 3:S+W	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m
Obs. time	Obs. depth m	Temperature °C ↓	Chlorosity g./dm <sup>3</sup> ↓	Oxygen μmol/dm <sup>3</sup> ↓	Phosphate-P μg.-atoms/dm <sup>3</sup> ↓	Total P μg.-atoms/dm <sup>3</sup> ↓	Silicate-Si μg.-atoms/dm <sup>3</sup> ↓	Card code		
		Nitrate-N μg.-atoms/dm <sup>3</sup> ↓	Nitrite-N μg.-atoms/dm <sup>3</sup> ↓	Ammonium-N μg.-atoms/dm <sup>3</sup> ↓	Organic N μg.-atoms/dm <sup>3</sup> ↓	pH ↓	Alkalinity μval /dm <sup>3</sup> ↓			

77 11 0043

22	0010	02 32	04 28	418	0 14			06
		00 59	0 00	03 8		8 02		
22	0015	02 42	04 25		0 16			06
		00 59		09 1		8 06		
22	0020	02 27	04 28		0 16			06
		00 62	0 00	00 8		8 06		
22	0030	02 17	04 28	418	0 15			06
		00 68		00 0		8 06		
22	0040	01 50	04 40		0 26			06
		01 71	0 05	00 3		7 99		
22	0050	01 63	04 46	401	0 22			06
		01 93		06 9		7 97		
22	0060	02 27	04 59		0 32			06
		02 07	0 00	01 2		7 92		
22	0070	05 36	06 51	241	0 61			06
		03 68		00 0		7 62		
22	0080	06 88	07 82	171	0 97			06
		04 29	0 00	00 0		7 41		
22	0087	06 96	07 99	158	1 13			06
		04 59		00 0		7 40		

77 11 0044

55	38	0 18	36	965	04 07	05 0097		
05	0000	01 88	04 18	419	0 26			06
						7 99		
05	0005	01 85	04 18		0 25			06
05	0010	01 88	04 18	417	0 32			06
						7 89		
05	0015	01 93	04 18		0 27			06
						7 98		
05	0020	01 86	04 19	418	0 32			06
						8 00		
05	0030	02 09	04 21	420	0 24			06
						8 05		
05	0040	01 93	04 23		0 22			06
						8 04		
05	0050	01 81	04 25	412	0 23			06
						7 97		
05	0060	01 80	04 29		0 52			06
						7 99		
05	0070	03 30	05 00	214	0 88			06
						7 43		
05	0080	04 23	05 78	092	1 50			06
						7 15		
05	0090	04 60	06 22	081	1 46			06
						7 17		



Country	Ship	Station number	Latitude °	0:N+E 1:N+W 2:S+E 3:S+W	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m
Obs. time	Obs. depth m	Temperature °C ↓	Chlorosity g./dm <sup>3</sup> ↓	Oxygen μmol/dm <sup>3</sup> ↓	Phosphate-P μg.-atoms/dm <sup>3</sup> ↓	Total P μg.-atoms/dm <sup>3</sup> ↓	Silicate-Si μg.-atoms/dm <sup>3</sup> ↓	Card code		
		Nitrate-N μg.-atoms/dm <sup>3</sup> ↓	Nitrite-N μg.-atoms/dm <sup>3</sup> ↓	Ammonium-N μg.-atoms/dm <sup>3</sup> ↓	Organic N μg.-atoms/dm <sup>3</sup> ↓	pH ↓	Alkalinity μval/dm <sup>3</sup> ↓			
77 11 0045		56 07	0 19 19	965	04 07	09 0116				
09 0000		02 10 01 08	04 23 0 10	418 03 1	0 30	8 07		06		
09 0005		02 16 01 02	04 22	04 9	0 27	8 07		06		
09 0010		02 07 01 08	04 22 0 10	415 00 0	0 26	8 05		06		
09 0015		02 09 01 08	04 22	00 0	0 31	8 07		06		
09 0020		02 07 01 02	04 22 0 10	00 0	0 30	8 06		06		
09 0030		02 09 01 02	04 23	418 00 0	0 39	8 01		06		
09 0040		01 96 01 02	04 25 0 10	00 0	0 18	8 06		06		
09 0050		01 78 01 75	04 27	408 07 4	0 32	8 00		06		
09 0060		02 59 02 29	04 50 0 05	00 0	0 38	7 83		06		
09 0070		04 03 03 43	05 28	217 00 0	0 86	7 38		06		
09 0080		04 78 04 64	06 07 0 02	129 06 3	1 25	7 20		06		
09 0090		05 20 04 93	06 49	244 08 5	1 35	7 21		06		
09 0100		05 51 04 86	06 67 0 02	134 00 0	1 16	7 25		06		
09 0110		05 56 04 57	06 76	138 00 0	1 37	7 27		06		
77 11 0046		56 51	0 18 52	965	04 07	14 0118				
14 0000		01 56	04 14	426	0 21			06		
14 0005		01 74	04 14		0 13			06		
14 0010		01 67	04 14	425	0 18			06		
14 0015		01 62	04 16		0 19			06		
14 0020		01 56	04 16		0 19			06		
14 0030		01 68	04 14	424	0 16			06		
14 0040		01 58	04 15		0 16			06		
14 0050		01 53	04 18	420	0 16			06		
14 0060		01 71	04 18		0 16			06		

Country	Ship	Station number	Latitude °	0:N+E 1:N+W 2:S+E 3:S+W	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m
		Obs. time	Obs. depth m	Temperature °C ↓	Chlorosity g./dm <sup>3</sup> ↓	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup> ↓	Total P μg.-atoms/dm <sup>3</sup> ↓	Silicate-Si μg.-atoms/dm <sup>3</sup> ↓	Card code
				Nitrate-N μg.-atoms/dm <sup>3</sup> ↓	Nitrite-N μg.-atoms/dm <sup>3</sup> ↓	Ammonium-N μg.-atoms/dm <sup>3</sup> ↓	Organic N μg.-atoms/dm <sup>3</sup> ↓	pH ↓	Alkalinity μval /dm <sup>3</sup> ↓	

77 11 0046

14	0070	01 92	04 25	397	0 19					06
14	0080	03 66	05 09	163	1 27					06
14	0090	04 48	05 97	082	1 33					06
14	0100	04 94	06 53	071	1 52					06
14	0110	05 65	06 74	052	1 89					06

77 11 0047 56 59 0 18 47 965 04 07 15 0065

15	0000	01 80	04 13	425	0 20					06
15	0005	01 66	04 14		0 20					06
15	0010	01 68	04 14	424	0 19					06
15	0015	01 69	04 16		0 19					06
15	0020	01 68	04 15		0 19					06
15	0030	01 75	04 15	421	0 19					06
15	0040	01 70	04 16		0 22					06
15	0050	01 71	04 18	426	0 21					06
15	0060	01 63	04 20	396	0 29					06

77 11 0048 57 05 0 18 42 965 04 07 16 0030

16	0000	01 83	04 14	431	0 19					06
16	0005	01 83	04 14		0 19					06
16	0010	01 90	04 13		0 17					06
16	0015	01 83	04 13		0 15					06
16	0020	01 83	04 13		0 15					06
16	0028	01 82	04 16	431	0 15					06

Country	Ship	Station number	Latitude °	0:N+E 1:N+W 2:S+E 3:S+W	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m
Obs. time	Obs. depth m	Temperature °C ↓	Chlorosity g./dm <sup>3</sup> ↓	Oxygen μmol/dm <sup>3</sup> ↓	Phosphate-P μg.-atoms/dm <sup>3</sup> ↓	Total P μg.-atoms/dm <sup>3</sup> ↓	Silicate-Si μg.-atoms/dm <sup>3</sup> ↓	Card code		
		Nitrate-N μg.-atoms/dm <sup>3</sup> ↓	Nitrite-N μg.-atoms/dm <sup>3</sup> ↓	Ammonium-N μg.-atoms/dm <sup>3</sup> ↓	Organic N μg.-atoms/dm <sup>3</sup> ↓	pH ↓	Alkalinity μval /dm <sup>3</sup> ↓			
77 11 0049		57 05	0 19 00	965	04 07	18 0101				
18 0000		01 78	04 16	421	0 17			06		
18 0005		01 73	04 16		0 19			06		
18 0010		01 70	04 16	416	0 15			06		
18 0015		01 78	04 17		0 17			06		
18 0020		01 69	04 17		0 19			06		
18 0030		01 72	04 16	424	0 19			06		
18 0040		01 72	04 16		0 21			06		
18 0050		01 65	04 19	413	0 21			06		
18 0060		01 76	04 26		0 16			06		
18 0070		02 49	04 50	336	0 43			06		
18 0080		04 01	05 40	090	1 67			06		
18 0090		04 31	05 78	074	1 67			06		
77 11 0050		57 20	0 20 03	965	04 07	23 0248				
24 0000		01 66	04 20	422	0 09			06		
		01 14	0 18	05 4		7 99	1590			
24 0005		01 66	04 20	419	0 12			06		
		00 84		05 0		8 00	1540			
24 0010		01 69	04 20	420	0 12			06		
		00 78		00 0		8 00	1550			
24 0015		01 62	04 18	422	0 12			06		
		00 90	0 14	04 5		8 01	1540			
24 0020		01 62	04 18	422	0 13			06		
		00 99		00 0		8 02	1540			
24 0030		01 64	04 20	417	0 14			06		
		00 90		00 0		8 02	1550			
24 0040		01 64	04 21	419	0 12			06		
		01 16	0 14	00 0		8 02	1540			
24 0050		01 68	04 25	415	0 12			06		
		01 60		00 0		8 00	1540			
24 0060		01 79	04 28	394	0 17			06		
		01 55		07 7		7 92	1540			
24 0070		04 02	05 43	100	1 49			06		
		04 93	0 10	00 7		7 13	1640			
24 0080		04 31	05 70	039	1 81			06		
		04 43		00 0		7 03	1680			



Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W	0:N+E	1:N+W					
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code					
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval/dm <sup>3</sup>						

77 11 0050

23	0090	04 36	05 74	041	1 80			06
		04 36		00 0		7 12	1660	
23	0100	04 50	05 95	050	1 73			06
		05 40	0 10	00 0		7 09	1660	
23	0125	04 96	06 54	087	1 24			06
		05 18		00 0		7 12	1690	
23	0150	05 50	06 94	053	1 90			06
		05 21		00 0		7 08	1730	
23	0175	05 66	07 09	041	2 10			06
		04 07	0 10	00 0		7 09	1740	
23	0200	05 72	07 19	056	1 93			06
		05 43		00 0		7 11	1730	
23	0225	06 15	07 28	088	1 44			06
		05 50		00 0		7 18	1730	
23	0240	06 16	07 31	083	1 53			06
		05 11	0 08	00 0		7 19	1750	

77 11 0051

05	0000	01 02	03 98	432	0 22			06
		01 13	0 32	06 6		8 00		
05	0005	01 01	03 98	428	0 22			06
		00 76		06 2		8 03		
05	0010	00 98	03 98	438	0 25			06
		01 03		05 5		7 92		
05	0015	01 07	03 96		0 21			06
		00 78	0 20	01 3		7 92		
05	0020	01 04	03 98		0 22			06
		00 74		07 5		7 91		
05	0030	01 23	04 08	422	0 22			06
		01 13		01 0		7 91		
05	0040	01 10	04 14		0 25			06
		01 41	0 25	02 6		7 98		
05	0050	01 16	04 15	413	0 27			06
		01 60		00 0		7 95		
05	0060	01 52	04 23	397	0 21			06
		01 43		00 0		7 95		
05	0070	02 86	04 65	275	0 88			06
		03 00	0 16	02 4		7 49		
05	0080	04 38	05 57	053	2 25			06
		03 11		06 5		7 03		
05	0090	04 48	05 84	049	2 12			06
		03 11		00 4		7 18		
05	0100	04 70	06 24	060	1 78			06
		04 50	0 13	00 7		7 12		
05	0125	05 19	06 72	053	1 90			06
		03 21		00 0		7 11		
05	0150	05 24	06 82	037	2 02			06
		04 01		07 5		7 09		

Country	Ship	Station number	Latitude		Longitude	Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E 1:N+W 2:S+E 3:S+W							

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 11 0051

05 0175	05 33	06 86	027	2 10				06
	03 18	0 16	08 1		7 03			
05 0190	04 29	07 03	021	2 32				06
			00 0		7 03			

77 11 0052

58 35	0 18 14	965	04 08	13 0450				
13 0000	01 22	04 04	439	0 49				06
	00 00	0 27			7 96			
13 0005	01 11	04 04		0 47				06
	00 00				8 03			
13 0010	01 06	04 05	399	0 44				06
	00 00				8 02			
13 0015	01 08	04 05		0 47				06
	00 00	0 20			8 02			
13 0020	01 08	04 05		0 44				06
	00 00				8 03			
13 0030	00 98	04 06	434	0 44				06
	00 00				8 04			
13 0040	00 76	04 13	412	0 59				06
	00 74	0 20			7 90			
13 0050	01 17	04 23	388	0 77				06
	00 60				7 78			
13 0060	02 83	04 68	254	1 46				06
	01 79				7 39			
13 0070	03 76	05 16	112	2 02				06
	02 57	0 20			7 12			
13 0080	04 23	05 53	046	2 70				06
	02 36				7 01			
13 0088	04 34	05 78	040	2 56				06
	02 98	0 18			7 09			
13 0090	04 46	05 79	025	2 80				06
	02 71				6 99			
13 0110	04 54	05 88	026	2 60				06
	02 71				7 03			
13 0132	04 71	06 02	021	2 69				06
	03 64				7 02			
13 0153	04 70	06 07	024	2 52				06
					7 04			
13 0175	04 75	06 10	028	2 51				06
	03 86	0 25			7 03			
13 0265	04 72	06 20	037	2 34				06
	03 07				7 04			
13 0350	04 76	06 21	038	2 34				06
	03 79	0 20			7 04			
13 0390	04 77	06 21	039	2 30				06
	03 57				7 04			
13 0400	04 78	06 23	037	2 25				06
					7 01			

Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E 1:N+W 2:S+E 3:S+W										
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code					
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>						

77	11	0052						
	13	0440	04 78	06 23	037	3 05	7 04	06
77	11	0053	58 00	0 18 00	965	04 08	18 0180	
	18	0000	01 06 00 00	04 01	430	0 37	7 92	06
	18	0005	01 04 00 00	04 01		0 36	8 00	06
	18	0010	01 10 00 00	04 02	430	0 37	8 00	06
	18	0015	01 08 00 00	04 02		0 37	8 00	06
	18	0020	01 07 00 00	04 02		0 32	8 01	06
	18	0030	01 06 00 00	04 02	430	0 37	7 99	06
	18	0040	01 09 00 09	04 06		0 37	7 98	06
	18	0050	01 01 00 40	04 06	423	0 43	7 97	06
	18	0060	00 96 00 41	04 08	421	0 48	7 95	06
	18	0070	00 91 01 00	04 15	407	0 53	7 88	06
	18	0080	03 06 01 27	04 80	210	1 60	7 16	06
	18	0090	04 05 02 09	05 38	067	2 40	7 01	06
	18	0100	04 35 02 07	05 58	038	2 7	7 00	06
	18	0125	04 39 02 36	05 71	023	3 0	6 95	06
	18	0150	04 47 02 59	05 76	016	3 1	6 98	06
	18	0170	04 51 02 12	05 78	012	3 6	6 97	06
77	11	0054	57 40	0 17 56	965	04 08	21 0105	
	21	0000	01 10	04 03	393	0 38	8 07	06
	21	0005	01 07	04 03	324	0 37	8 08	06
	21	0010	01 08	04 03	433	0 39	8 05	06
	21	0015	01 10	04 03		0 37	8 05	06



Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W	0	1					

Obs. time	Obs. depth m.	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		↓	↓	↓	↓	↓	↓	
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval/dm <sup>3</sup>	
		↓	↓	↓	↓	↓	↓	

77 11 0054

21 0020	01 14	04 03		0 41		8 06		06
21 0030	01 13	04 06	436	0 40		8 04		06
21 0040	00 95	04 06		0 51		8 03		06
21 0050	00 99	04 15	417	0 50		7 86		06
21 0060	01 28	04 23	384	0 65		7 84		06
21 0070	03 49	05 01	165	1 85		7 21		06
21 0080	04 21	05 54	040	2 6		7 04		06
21 0090	04 43	05 71	026	2 7		7 01		06
21 0100	04 48	05 79	021	2 7		7 01		06

77 11 0055

01 0000	01 24	04 14	422	0 28		8 06		06
	00 46							
01 0005	01 23	04 14		0 42		8 02		06
01 0010	01 23	04 14	426	0 41		8 02		06
	00 34							
01 0015	01 25	04 17		0 37		8 02		06
01 0025	01 29	04 15	394	0 34		8 01		06
	00 58							
01 0035	01 22	04 15		0 40		8 01		06
01 0045	00 91	04 17	414	0 44		7 95		06
	00 84							
01 0055	01 41	04 25	383	0 59		7 83		06
	01 58							
01 0065	03 43	04 95	171	1 72		7 24		06
	01 40							
01 0075	04 13	05 40	065	2 40		7 04		06
	02 57							
01 0085	04 26	05 57	029	2 80		7 02		06
	02 86							
01 0095	04 32	05 61	025	2 82		6 99		06
	02 50							
01 0105	04 35	05 67	023	3 00		6 99		06
	02 93							

Country	Ship	Station number	Latitude °	0:N+E 1:N+W 2:S+E 3:S+W	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code		
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval/dm <sup>3</sup>			
77 11 0056	56 33	0 17 04	965	04 09	06 0070					
06 0000	01 38	04 16	423	0 43		7 86	06			
06 0005	01 24	04 17		0 44		7 93	06			
06 0010	01 25	04 17	421	0 40		7 98	06			
06 0015	01 29	04 17		0 53		7 97	06			
06 0020	01 27	04 15		0 40		7 98	06			
06 0030	01 34	04 17	424	0 43		8 00	06			
06 0040	01 29	04 18		0 45		7 99	06			
06 0050	01 31	04 18	419	0 49		7 98	06			
06 0060	02 95	04 21	216	1 54		7 92	06			
77 11 0057	56 30	0 16 52	965	04 09	07 0065					
07 0000	01 62	04 19	426	0 43		7 99	06			
07 0005	01 37	04 19		0 48		8 01	06			
07 0010	01 36	04 19	423	0 42		8 02	06			
07 0015	01 38	04 17		0 41		8 02	06			
07 0020	01 38	04 17		0 41		8 01	06			
07 0030	01 47	04 15	420	0 46		7 99	06			
07 0040	01 40	04 19		0 46		8 01	06			
07 0050	01 39	04 17	426	0 54		8 00	06			
07 0060	01 41	04 19	419	0 56		8 01	06			
77 11 0058	56 19	0 16 41	965	04 09	09 0028					
09 0000	01 57	04 18	431	0 41		8 08	06			
09 0005	01 55	04 18		0 42		8 07	06			
09 0010	01 64	04 18	428	0 49		8 06	06			

Country	Ship	Station number	Latitude		Longitude	Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E 1:N+W 2:S+E 3:S+W							

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 11 0058

09 0015	01 56	04 17		0 45				06
09 0020	01 56	04 21		0 44		8 08		06
09 0025	01 57	04 19	431	0 40		8 07		06
						8 07		

77 11 0063

11 0000	55 00	0 14 05	965	06 13	11 0049			
	12 19	04 40	349	0 09				06
	00 05	0 00	04 4			8 34	1610	
11 0005	12 22	04 39	346	0 04				06
	00 05	0 00	03 9			8 34	1600	
11 0010	11 90	04 39	347	0 00				06
	00 06	0 01	03 9			8 34	1600	
11 0015	09 93	04 40	360 <sub>Q</sub>	0 02				06
	00 06	0 02	03 3			8 09	1590	
11 0020	07 61	04 46	360	0 04				06
	00 10	0 01	03 6			8 22	1500	
11 0030	06 77	04 70	352	0 04				06
	00 08	0 00	03 1			8 19	1690	
11 0040	08 10	06 11	308	0 10				06
	00 12	0 00	03 1			8 10	1680	
11 0046	06 81	07 70	241	0 35				06
	01 40	0 17	03 9			7 88	1800	

77 11 0064

13 0000	55 18	0 14 24	965	06 13	13 0049			
	11 66	04 36	355	0 07				06
						8 26		
13 0005	11 68	04 35	355	0 02				06
						8 32		
13 0010	11 04	04 36	360	0 09				06
						8 33		
13 0015	09 56	04 38	378	0 08				06
						8 33		
13 0020	06 97	04 37	390	0 07				06
						8 30		
13 0030	05 91	04 41	369	0 15				06
						8 17		
13 0040	05 01	04 61	356	0 08				06
						8 08		
13 0046	06 20	09 31	248	0 37				06
						7 82		



Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m	Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
			0.N+E	1.N+W	2.S+E	3.S+W	0	1														
77	11	0065	55	23	0	15	20	965	06	13	17	0089										
	17	0000	10	06	04	40	369	0	01										8	32		06
	17	0005	09	93	04	38	371	0	09										8	38		06
	17	0010	09	73	04	38	368	0	00										8	37		06
	17	0015	06	71	04	34	386Q	0	08										8	36		06
	17	0020	06	39	04	34	382	0	07										8	29		06
	17	0030	05	32	04	38	378	0	08										8	26		06
	17	0040	02	95	04	45	373	0	11										8	03		06
	17	0050	01	90	04	74	359	0	22										7	92		06
	17	0060	04	48	07	35	168	0	44										7	43		06
	17	0070	07	78	09	15	070	1	30										7	32		06
	17	0080	07	89	09	41	052	1	33										7	30		06
77	11	0066	55	15	0	15	59	965	06	13	19	0093										
	19	0000	10	59	04	31	364	0	05													06
			00	00	0	00	02 9												8	36	1550	06
	19	0005	10	61	04	29	362	0	08													06
			00	00			00 6												8	35	1550	06
	19	0010	10	14	04	30	362	0	03													06
			00	05	0	00	06 5												8	33	1550	06
	19	0015	08	86	04	38	377	0	08													06
			00	05			04 3												8	35	1560	06
	19	0020	08	37	04	38	409	0	09													06
			00	05	0	00	01 7												8	33	1570	06
	19	0030	06	64	04	39	385	0	07													06
			00	07			02 7												8	31	1560	06
	19	0040	05	41	04	41	377	0	11													06
			00	00	0	03	01 8												8	23	1590	06
	19	0050	02	77	04	54	368	0	15													06
			00	34			03 2												8	00	1630	06
	19	0060	02	46	05	19	304	0	17													06
			00	02	0	10	03 0												7	70	1570	06
	19	0070	06	75	07	94	125	0	71													06
			02	45			02 5												7	37	1810	06
	19	0080	07	58	09	11	048	1	47													06
			06	65	0	10	02 0												7	26	1880	06
	19	0087	07	72	09	26	035	1	52													06
			07	07	0	04	02 4												7	26	1900	06

Country	Ship	Station number	Latitude °	0:N+E 1:N+W 2:S+E 3:S+W	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m	
Obs. time	Obs. depth m	Temperature °C			Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>		Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>			Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>		pH	Alkalinity μval /dm <sup>3</sup>	
77 11	0067	55 13	0 17	04	965	06 13	23	0087			
	23 0000	10 50	04 17		358	0 02				06	
		00 05	0 00		04 4			8 36	1580		
	23 0005	10 47	04 20		357	0 09				06	
		00 22			01 4			8 36	1580		
	23 0010	10 20	04 21		362	0 05				06	
		00 20	0 00		07 8			8 34	1580		
	23 0015	08 82	04 25		378	0 05				06	
		00 07			04 0			8 34	1570		
	23 0020	06 94	04 27		391	0 10				06	
		00 10	0 00		04 4			8 31	1570		
	23 0030	05 02	04 27		378Q	0 05				06	
		00 05			02 6			8 17	1570		
	23 0040	05 18	04 34		382	0 16				06	
		00 00	0 00		03 2			8 19	1570		
	23 0050	03 73	04 41		373	0 10				06	
		00 05			03 0			8 06	1580		
	23 0060	02 68	05 18		310	0 21				06	
		00 10	0 05		04 0			7 70	1640		
	23 0070	03 93	06 38		218	0 40				06	
		00 42			03 3			7 46	1700		
	23 0080	04 43	06 67		184	0 59				06	
		00 90	0 15		02 8			7 40	1760		
77 11	0068	55 38	0 18	36	965	06 14	05	0095			
	05 0000	10 12	04 19		396	0 08				06	
								8 66	1560		
	05 0005	10 11	04 16		394	0 21				06	
								8 65	1560		
	05 0010	10 09	04 16		393	0 15				06	
								8 64	1570		
	05 0015	09 89	04 16		395	0 08				06	
								8 65	1560Q		
	05 0020	06 77	04 16		408	0 11				06	
								8 61	1580		
	05 0030	03 37	04 14		399	0 10				06	
								8 21	1570		
	05 0040	03 27	04 19		395	0 16				06	
								8 11	1570		
	05 0050	02 18	04 19		394Q	0 13				06	
								8 04	1600		
	05 0060	02 25	04 23		380	0 24				06	
								7 95	1600		
	05 0070	02 36	04 40		318	0 22				06	
								7 72	1600Q		
	05 0080	03 31	05 18		192	0 57				06	
								7 37	1640		
	05 0090	04 27	06 29		099	0 88				06	
								7 34	1740		

Country	Ship	Station number	Latitude		Longitude	Year 1	Month	Day	Stat. time	Depth to bottom m	Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
			0: N+E 1: N+W 2: S+E 3: S+W	0									0	Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	
77	11	0069	56	07	0 19 19	965	06	14	09	0117									
	09	0000	10	28	04 07	397	0	08									8 62	1570	06
	09	0005	10	30	04 07	395Q	0	03									8 60	1570	06
	09	0010	10	25	04 10	396	0	08									8 59	1570	06
	09	0015	07	48	04 06	377	0	11									8 51	1580	06
	09	0020	06	41	04 12	400	0	11									8 41	1570	06
	09	0030	03	52	04 15	393	0	18									8 19	1560	06
	09	0040	02	73	04 17	389	0	14									8 03	1560	06
	09	0050	02	85	04 19	397	0	18									8 07	1560	06
	09	0060	02	32	04 23	389	0	10									8 07	1570	06
	09	0070	02	22	04 36	334	0	20									7 84	1600	06
	09	0080	03	65	05 24	124	0	76									7 22	1640	06
	09	0090	04	28	05 81	057	1	06									7 17	1710	06
	09	0100	04	04	06 17	099	0	92									7 20	1710	06
	09	0110	04	94	06 38	073	1	01									7 20	1740	06
			04	75	0 07	04 7													
77	11	0070	56	51	0 18 52	965	06	14	14	0104									
	14	0000	11	60	04 06	382	0	07									8 52		06
	14	0005	11	34	04 06	382	0	01									8 55		06
	14	0010	10	50	04 07	396	0	01									8 69		06
	14	0015	08	31	04 09	409	0	07									8 59		06
	14	0020	06	77	04 12	402	0	03									8 45		06
	14	0030	04	13	04 15	400	0	08									8 27		06
	14	0040	03	48	04 17	442	0	07									8 22		06
	14	0050	02	97	04 20	404	0	09									8 12		06
	14	0060	02	45	04 24	391	0	10									8 02		06



Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m
			0-N+E	1-N+W	2-S+E	3-S+W							

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 11 0070

14	0070	02 47	04 50	285	0 42			06
						7 51		
14	0080	03 91	05 41	092	0 91			06
						7 20		
14	0090	04 49	05 98	082	1 01			06
						7 19		
14	0100	04 90	06 49	070	1 43			06
						7 19		

77 11 0071

		56 59	0 18 47	965	06 14	16 0064		
16	0000	11 03	04 06	388	0 07			06
						8 47		
16	0005	10 55	04 06	391	0 06			06
						8 55		
16	0010	10 08	04 05	396Q	0 04			06
						8 54		
16	0015	09 28	04 07	402	0 06			06
						8 52		
16	0020	06 19	04 09	410Q	0 04			06
						8 43		
16	0030	03 54	04 12	405Q	0 06			06
						8 15		
16	0040	02 88	04 15	401	0 07			06
						8 09		
16	0050	02 98	04 20	402Q	0 07			06
						8 07		
16	0060	01 96	04 23	388	0 09			06
						7 99		

77 11 0072

		57 05	0 18 42	965	06 14	16 0029		
16	0000	11 44	04 07	381	0 04			06
						8 63		
16	0005	10 74	04 06	385	0 06			06
						8 60		
16	0010	10 23	04 06	383	0 07			06
						8 54		
16	0015	09 04	04 08	374	0 11			06
						8 43		
16	0020	08 74	04 08	370	0 18			06
						8 35		
16	0027	08 39	04 06	399	0 22			06
						8 30		



Country	Ship	Station number	Latitude		Longitude		Year	Month	Day	Stat. time	Depth to bottom m							
			0:N+E	1:N+W	2:S+E	3:S+W												
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code										
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>											
77 11 0075		57 22	0 19 44	965	06 14	22 0175												
22 0000		10 31	03 91	389	0 00			06										
22 0005		10 34	03 91	358	0 03	8 44		06										
22 0010		09 53	03 91	396	0 01	8 49		06										
22 0015		07 02	03 91	403	0 06	8 49		06										
22 0020		06 01	03 91	400	0 06	8 40		06										
22 0030		02 86	03 96	402	0 15	8 34		06										
22 0040		01 67	04 04	401	0 25	8 13		06										
22 0050		01 68	04 12	389	0 25	7 99		06										
22 0060		01 54	04 17	360	0 42	7 95		06										
22 0070		02 80	04 73	208	1 11	7 81		06										
22 0080		04 03	05 56	070	1 29	7 36		06										
22 0090		04 45	06 01	070	1 40	7 14		06										
22 0100		04 80	06 33	076	1 39	7 14		06										
22 0125		05 55	07 03	073	1 70	7 19		06										
22 0150		05 61	07 06	039	2 23	7 21		06										
22 0165		05 73		035	2 34	7 17		06										
						7 16												
77 11 0076		57 20	0 20 03	965	06 15	00 0253												
01 0000		10 86	04 04	389	0 14			06										
01 0005		10 82	04 04	395	0 04	8 55	1540	06										
01 0010		10 19	04 04	405	0 07	8 61	1550	06										
01 0015		09 78	04 04	408Q	0 07	8 66	1560	06										
01 0020		08 06	04 12	420Q	0 04	8 63	1560	06										
01 0030		05 50	04 15	399Q	0 02	8 57	1570	06										
01 0040		03 31	04 15	405	0 03	8 41	1560	06										
		00 17	0 05	04 0		8 20	1550											



Country	Ship	Station number	Latitude			Longitude	Year	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E						

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval/dm <sup>3</sup>	

77 11 0076

01	0050	02 46	04 18	393	0 11			06
		00 15		06 9		8 07	1540	
01	0060	02 43	04 22	394	0 14			06
		00 17	0 05	04 2		8 01	1560	
01	0070	02 45	04 44	303	0 34			06
		00 17		04 5		7 62	1540Q	
01	0080	03 94	05 35	079	1 26			06
		01 60	0 14	03 6		7 18	1680	
01	0090	04 06	06 11	056	1 22			06
		06 35		02 9		7 18	1690	
01	0100	04 86	06 49	074	1 30			06
		07 65	0 14	02 9		7 18	1700	
00	0125	05 35	07 02	061	1 96			06
						7 14	1700	
00	0150	05 63	07 05	041	2 32			06
		07 13	0 14	03 2		7 12	1730	
00	0175	05 69	07 11	044	2 30			06
		07 60		02 4		7 15	1760	
00	0200	05 79	07 19	052	2 12			06
		07 67	0 10	02 7		7 14	1760	
00	0225	05 96	07 24	058	1 99			06
		07 67		02 3		7 17	1780	
00	0245	06 02	07 29	032	3 60			06
		07 55	0 34	00 4		7 19	1760Q	

77 11 0077

02	0000	10 14	03 94	380	0 04			06
						8 45		
02	0005	10 49	03 96	388	0 03			06
						8 48		
02	0010	09 67	03 96	393	0 02			06
						8 56		
02	0015	08 13	04 02	397	0 03			06
						8 53		
02	0020	06 56	04 12	436Q	0 11			06
						8 43		
02	0030	03 18	04 15	395	0 11			06
						8 16		
02	0040	02 17	04 15	396Q	0 10			06
						8 08		
02	0050	03 07	04 18	394	0 16			06
						8 12		
02	0060	02 36	04 24	385	0 12			06
						8 01		
02	0070	02 99	04 78	200	0 81			06
						7 39		
02	0080	04 07	05 55	059	1 57			06
						7 14		

Country	Ship	Station number	Latitude		Longitude		Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E 1:N+W 2:S+E 3:S+W								

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μvel /dm <sup>3</sup>	

77 11 0077

02	0090	04 48	06 01	062	1 47			06
						7 13		
02	0100	04 72	06 33	065	1 50			06
						7 16		
02	0125	05 25	06 78	060	1 85			06
						7 17		
02	0150	05 55	07 00	038	2 32			06
						7 15		
02	0175	05 71	07 07	025	1 92			06
						7 12		

77 11 0078

		57 16	0 20 39	965	06 15	03 0108		
03	0000	10 88	03 89	371	0 04			06
						8 44		
03	0005	10 55	03 89	376	0 02			06
						8 44		
03	0010	09 11	03 89	388	0 02			06
						8 41		
03	0015	06 85	03 91	391	0 04			06
						8 33		
03	0020	04 26	03 95	399	0 07			06
						8 32		
03	0030	03 02	04 05	402Q	0 14			06
						8 12		
03	0040	02 50	04 12	400	0 12			06
						8 09		
03	0050	02 40	04 15	404Q	0 13			06
						8 07		
03	0060	01 95	04 22	379	0 14			06
						7 93		
03	0070	03 55	05 14	124	1 10			06
						7 25		
03	0080	04 18	05 63	058	1 35			06
						7 13		
03	0090	04 37	05 88	058	1 38			06
						7 16		
03	0100	04 61	06 13	060	1 53			06

77 11 0079

		57 13	0 20 56	965	06 15	05 0034		
05	0000	11 08	03 83	365	0 08			06
						8 38		
05	0005	11 06	03 83	398	0 08			06
						8 38		
05	0010	10 24	03 83	368	0 12			06
						8 39		

Country	Ship	Station number	Latitude			Longitude	Year	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E						

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval/dm <sup>3</sup>	

77 11 0079

05 0015	09 74	03 83	373	0 09				06
						8 39		
05 0020	09 10	03 86	370	0 09				06
						8 36		
05 0030	05 41	03 94	380	0 14				06
						8 18		

77 11 0080

08 0000	10 55	03 79	366	0 13				06
						8 34		
08 0005	10 45	03 79	367	0 04				06
						8 38		
08 0010	10 15	03 79	370	0 02				06
						8 38		
08 0015	05 84	03 83	386	0 13				06
						8 30		
08 0020	04 23	03 96	389	0 16				06
						8 15		
08 0030	01 82	04 09	382	0 29				06
						7 94		
08 0040	01 64	04 12	374	0 47				06
						7 86		
08 0045	01 99	04 17	379	0 34				06
						7 89		

77 11 0081

09 0000	10 84	03 75	384	0 03				06
						8 38		
09 0005	10 85	03 76	381	0 07				06
						8 42		
09 0010	09 12	03 82	393	0 06				06
						8 41		
09 0015	06 93	03 82	394	0 10				06
						8 32		
09 0020	04 89	03 86	394Q	0 11				06
						8 21		
09 0030	03 52	03 90	410	0 13				06
						8 22		
09 0040	01 60	03 97	407	0 25				06
						8 05		
09 0050	01 41	04 12	373	0 43				06
						7 86		
09 0060	02 28	04 48	272	0 81				06
						7 53		
09 0070	03 76	05 27	094	1 58				06
						7 18		



Country	Ship	Station number	Latitude			Longitude			Year	Month	Day	Stat. time	Depth to bottom m
			0:R+E	1:N+W	2:S+E	3:S+W							

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 11 0081

09 0080 04 27 05 74 052 1 66 06

7 14

09 0085 04 36 05 88 052 1 65 06

7 16

77 11 0082 57 51 0 20 32 965 06 15 10 0100

10 0000 11 14 03 85 382 0 06 06

8 43

10 0005 11 16 03 86 385 0 01 06

8 50

10 0010 09 79 03 86 410 0 00 06

8 57

10 0015 09 30 03 89 404 0 02 06

8 53

10 0020 07 52 03 89 396 0 01 06

8 41

10 0030 03 35 03 94 401 0 03 06

8 21

10 0040 01 85 04 04 399Q 0 15 06

8 04

10 0050 01 68 04 12 386 0 22 06

7 94

10 0060 01 85 04 32 320 0 58 06

7 67

10 0070 03 37 05 02 138 1 24 06

7 28

10 0080 04 13 05 57 053 1 62 06

7 24

10 0090 04 56 06 18 056 1 51 06

7 18

77 11 0083 57 55 0 20 13 965 06 15 13 0122

13 0000 10 91 03 83 376 0 15 06

8 35

13 0005 10 96 03 82 350 0 10 06

8 35

13 0010 09 06 03 79 393 0 10 06

8 37

13 0015 06 17 03 81 399 06

8 28

13 0020 05 02 03 82 399 0 19 06

8 22

13 0030 03 55 03 90 406 0 16 06

8 19

13 0040 02 52 03 96 410 0 28 06

8 11

Country	Ship	Station number	Latitude		Longitude	Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E 1:N+W 2:S+E 3:S+W							
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code		
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval/dm <sup>3</sup>			

77 11 0083

13 0050	01 66	04 05	386	0 38				06
						7 94		
13 0060	01 68	04 20	364	0 40				06
						7 83		
13 0070	03 50	05 12	109	1 35				06
						7 20		
13 0080	04 14	05 63	052	1 67				06
						7 12		
13 0090	04 47	06 06	059	1 54				06
						7 14		
13 0100	04 68	06 27	066	1 51				06
						7 17		
13 0115	05 22	06 70	068	1 73				06
						7 24		

77 11 0084

15 0000	10 54	03 87	395	0 10				06
	00 12	0 00	02 9			8 50	1490	
15 0005	10 51	03 86	393	0 09				06
	00 07					8 53	1470	
15 0010	10 43	03 85	394	0 03				06
	00 15	0 02	01 0			8 53	1490	
15 0015	09 27	03 86	402	0 09				06
	00 20					8 49	1510	
15 0020	07 35	03 86	397	0 13				06
	00 16	0 03	02 9			8 38	1520	
15 0030	04 10	03 89	402	0 16				06
	00 15					8 23	1560	
15 0040	01 93	04 02	401	0 31				06
	00 15	0 00	01 3			8 16	1510	
15 0050	02 01	04 08	401	0 31				06
	00 15					8 04	1530	
15 0060	01 73	04 15	386	0 36				06
	00 16	0 00	00 2			7 95	1560	
15 0070	02 11	04 42	291	0 89				06
	00 27					7 57	1580	
14 0100	04 09	06 17	058	1 60				06
	06 11	0 06	00 6			7 10	1670	
14 0125	05 09	06 67	057	1 74				06
	06 30					7 11	1730	
14 0150	05 37	06 87	025	2 23				06
	07 70	0 10	00 3			7 09	1730	
14 0175	05 43	06 93	020	2 32				06
	07 80					7 10	1750	
14 0190	05 45	06 93	010	2 65				06
	07 67	0 17	02 4			7 07	1790	

Country	Ship	Station number	Latitude		Longitude		Year 1	Month	Day	Stat. time	Depth to bottom m	Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
			0:N+E 1:N+W 2:S+E 3:S+W	0 1 2 3	0 1 2 3	0 1 2 3								↓	↓	↓	↓	↓	↓	
77	11	0085	58	04	0	19	37	965	06	15	16	0150								
	16	0000	09	96		03	86	397	0	07								8	54	06
	16	0005	09	98		03	86	392	0	11								8	53	06
	16	0010	09	99		03	86	397	0	08								8	53	06
	16	0015	09	81		03	86	398	0	09								8	53	06
	16	0020	08	14		03	92	406	0	11								8	51	06
	16	0030	05	52		03	99	408	0	12								8	39	06
	16	0040	02	26		04	07	395	0	11								8	11	06
	16	0050	02	18		04	13	401	0	09								8	09	06
	16	0060	01	99		04	16	422	0	18								8	01	06
	16	0070	02	28		04	42	296	0	55								7	62	06
	16	0080	03	96		05	41	057	2	01								7	16	06
	16	0090	04	34		05	84	050	1	68								7	15	06
	16	0100	04	57		06	19	063	1	51								7	18	06
	16	0130	05	18		06	79	037	2	01								7	16	06
77	11	0086	58	08	0	19	19	965	06	15	18	0039								
	18	0000	10	15		03	93	393	0	08								8	41	06
	18	0005	10	09		03	93	395										8	54	06
	18	0010	07	26		03	96	402	0	06								8	44	06
	18	0015	04	18		03	98	398										8	22	06
	18	0020	02	29		04	05	400										8	03	06
	18	0030	02	31		04	11	400	0	23								8	06	06







Country	Ship	Station number	Latitude			Longitude	Year	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E						

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval/dm <sup>3</sup>	

77 11 0090

01 0015	07 93	03 96	402	0 09				06
	00 12					8 38	1500	
01 0020	04 31	03 95	388	0 21				06
	00 12	0 02	00 3			8 32		
01 0030	03 08	04 03	408	0 33				06
	00 17					8 10	1520	
01 0040	02 08	04 09	399	0 34				06
	00 13	0 02	00 1			8 02	1520	
01 0050	01 98	04 12	397	0 42				06
	00 18					7 99	1530	
01 0060	01 96	04 17	380	0 46				06
	00 17	0 06	04 3			7 92	1540	
01 0070	02 91	04 75	196	1 45				06
	00 80					7 36	1620	
01 0080	04 37	05 77	019	2 77				06
	04 62	0 03	02 4			7 09	1710	
01 0090	04 60	06 01	025	2 68				06
	07 02					7 13	1720	
01 0100	04 60	06 05	023	2 50				06
	07 76	0 02	01 7			7 15	1750	
01 0125	04 63	06 12	024	2 40				06
	07 36					7 09	1700	
01 0150	04 63	06 16	030	2 30				06
	07 36	0 06	01 9			7 09	1720	
01 0200	04 70	06 24	033	2 23				06
	07 55					7 10	1720	
01 0300	04 73	06 27	033	2 23				06
	07 60	0 07	02 2			7 10	1720	
01 0400	04 75	06 27	033	2 27				06
	07 60					7 11	1740	
01 0440	04 75	06 28	032	2 33				06
	07 60	0 15	05 5			7 11	1720	

77 11 0091 58 25 0 18 06 965 06 16 03 0100

03 0000	10 88	03 92	380	0 06				06
						8 51		
03 0005	10 83	03 91	379					06
						8 52		
03 0010	10 83	03 90	381	0 07				06
						8 47		
03 0015	08 52	03 92	403Q					06
						8 41		
03 0020	05 63	04 02	405					06
						8 30		
03 0030	03 58	04 04	405	0 20				06
						8 15		
03 0040	04 98	04 09	397					06
						8 17		





Country	Ship	Station number	Latitude	0:N+E 1:N+W 2:S+E 3:S+W	Longitude	Year 1	Month	Day	Stat. time	Depth to bottom m
Obs. time	Obs. depth m	Temperature °C		Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code	
		Nitrate-N μg.-atoms/dm <sup>3</sup>		Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>		

77 11 0093

06 0040	04 25	04 02	388				8 09		06
06 0050	02 26	04 37	295	0 96			7 59		06

77 11 0094

58 00	0 18 00	965	06 16	10 0200					
10 0000	11 11	04 14	373	0 08					06
	00 12	0 15	01 9				8 35	1540	
10 0005	11 02	04 12	372	0 02					06
	00 16						8 36	1540	
10 0010	11 00	04 13	372	0 00					06
	00 20	0 10					8 36	1540	
10 0015	10 80	04 13	375	0 06					06
	00 22						8 36	1520	
10 0020	07 82	04 14	389	0 18					06
	00 22	0 10					8 27	1540	
10 0030	05 05	04 14	388	0 23					06
	00 22						8 11	1530	
10 0040	03 71	04 15	391	0 20					06
	00 16	0 07	02 1				8 13	1560	
10 0050	02 58	04 15	389	0 38					06
	00 30						8 08	1550	
10 0060	02 18	04 19	373	0 45					06
	00 16	0 06	03 5				8 00	1550	
10 0070	02 66	04 68	202	1 22					06
	00 52						7 46	1600	
10 0080	03 99	05 41	042	2 36					06
	03 47	0 15	01 0				7 20	1670	
10 0090	04 27	05 63	016	2 76					06
	05 08						7 19	1690	
10 0100	04 37	05 61	016	2 79					06
	05 80	0 10	02 2				7 19	1720	
10 0125	04 50	05 85	011	2 97					06
	06 47						7 19	1770	
10 0150	04 48	05 87	012	2 99					06
	06 57	0 10	02 3				7 23	1770	
10 0172	04 57	05 95	015	2 95					06
	07 20						7 10	1760	
10 0197	04 60	05 97	011	2 96					06
	06 92	0 15	05 4				7 14	1690	

77 11 0095

57 39	0 18 12	965	06 16	13 0098					
13 0000	11 32	04 12	361	0 03					06
							8 31		
13 0005	11 30	04 14	360						06
							8 33		





Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m		Card code
			0.N+E	1.N+W	2.S+E	3.S+W									
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>								
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>								
77	11	0097	57 42	0 17 39	965	06 16	16 0093								
	16	0000	11 14	04 14	368	0 07							8 40		06
	16	0005	11 17	04 13									8 38		06
	16	0010	11 16	04 12	372	0 08							8 41		06
	16	0015	10 44	04 12	412								8 37		06
	16	0020	06 46	04 13	382								8 23		06
	16	0030	03 92	04 13	394	0 27							8 14		06
	16	0040	03 58	04 15	429								8 09		06
	16	0050	03 22	04 17	377	0 25							8 02		06
	16	0060	02 02	04 34	318								7 67		06
	16	0070	03 58	05 14	086	2 08							7 17		06
	16	0080	04 16	05 55	025								7 13		06
	16	0090	04 29	05 67	016	2 90							7 16		06
77	11	0098	57 43	0 17 22	965	06 16	18 0150								
	18	0000	11 06	04 05	371	0 15							8 31		06
	18	0005	11 10	04 05	375								8 37		06
	18	0010	11 05	04 04	370	0 16							8 41		06
	18	0015	10 35	04 08	384								8 37		06
	18	0020	05 52	04 12	401								8 23		06
	18	0030	04 29	04 13	397	0 27							8 22		06
	18	0040	03 03	04 14	397								8 04		06
	18	0050	02 31	04 18	380	0 45							7 93		06
	18	0060	02 74	04 69	215								7 35		06
	18	0070	03 83	05 33	053	2 50							7 10		06
	18	0080	04 24	05 36	023								7 02		06

Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E 1:N+W 2:S+E 3:S+W										

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		↓ Nitrate-N μg.-atoms/dm <sup>3</sup>	↓ Nitrite-N μg.-atoms/dm <sup>3</sup>	↓ Ammonium-N μg.-atoms/dm <sup>3</sup>	↓ Organic N μg.-atoms/dm <sup>3</sup>	↓ pH	↓ Alkalinity μval /dm <sup>3</sup>	

77 11 0098

18 0090	04 32	05 65	014			7 10		06
18 0100	04 41	05 70	013	3 30		7 07		06
18 0125	04 49	05 80	011			7 07		06
18 0140	04 48	05 82	012	3 45		7 07		06

77 11 0099

19 0000	11 65	03 98	363	0 04		8 36		06
19 0005	11 61	03 97	367			8 38		06
19 0010	11 51	04 02	385	0 02		8 42		06
19 0015	06 76	04 08	403			8 29		06
19 0020	04 41	04 07	392			8 11		06
19 0030	04 19	04 10	392	0 16		8 05		06
19 0040	03 01	04 12	391			8 03		06
19 0050	02 21	04 23	393	0 50		7 83		06
19 0060	03 35	04 24	111	2 01		7 23		06

77 11 0100

21 0000	12 41	03 85	345	0 26		8 52		06
21 0005	12 38	03 85	348			8 51		06
21 0010	12 25	03 85	350			8 53		06
21 0015	09 00	03 84	367	0 26		8 27		06

77 11 0101

01 0000	10 80	04 13	367	0 16		8 34	1560	06
01 0005	00 20	0 09						
	10 81	04 13	369	0 12		8 36	1550	06
	00 22	0 09						

Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W	0	1					

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 11 0101

01 0010	10 79	04 13	368	0 12				06
	00 25	0 06			8 35	1540		
01 0015	10 78	04 14	370	0 14				06
	00 25	0 05			8 35	1530		
01 0020	06 01	04 15	368	0 09				06
	00 11	0 07			8 10	1550		
01 0030	04 64	04 13	399	0 22				06
	00 23	0 05			8 14	1530		
01 0040	03 75	04 13	395	0 27				06
	00 20	0 05			8 11	1520		
01 0050	03 40	04 16	386	0 29				06
	00 15	0 02			8 05	1550		
01 0060	02 16	04 23	363	0 41				06
	00 15	0 02			7 89	1550		
01 0070	02 44	04 58	235	0 92				06
	00 35	0 07			7 42	1590		
01 0080	03 99	05 39	031	1 78				06
	03 00	0 10			7 13	1710		
01 0090	04 25	05 59	015	2 13				06
	04 70	0 05			7 09	1720		
01 0100	04 28	05 65	002	2 52				06
	04 32	1 24			7 10	1710		

77 11 0102 56 33 0 17 04 965 06 17 06 0071

06 0000	11 54	04 21	358	0 16				06
					8 18			
06 0005	11 49	04 21	358					06
					8 27			
06 0010	11 43	04 21	358	0 21				06
					8 28			
06 0015	07 49	04 19	396					06
					8 29			
06 0020	06 13	04 18	392					06
					8 20			
06 0030	05 74	04 22	376	0 25				06
					8 12			
06 0040	04 85	04 30	372					06
					8 09			
06 0050	03 67	04 39	356	0 27				06
					7 93			
06 0060	03 04	04 50	345	0 29				06
					7 85			





Country	Ship	Station number	Latitude		Longitude		Year 1	Month	Day	Stat. time	Depth to bottom m	Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
			0:N+E 1:N+W 2:S+E 3:S+W																	
														↓ Nitrate-N μg.-atoms/dm <sup>3</sup>	↓ Nitrite-N μg.-atoms/dm <sup>3</sup>	↓ Ammonium-N μg.-atoms/dm <sup>3</sup>	↓ Organic N μg.-atoms/dm <sup>3</sup>	↓ pH	↓ Alkalinity μval /dm <sup>3</sup>	

77 11 0108

16	0040	10 42	18 75	232																	06	
																		8 04				06
																		8 01				06
																		7 95				06
																		8 03				06

77 11 0109 56 58 0 11 46 965 08 25 18 0095

18	0000	17 12	09 84	280																		06
																		8 21				06
																		8 22				06
																		8 19				06
																		8 10				06
																		8 10				06
																		8 08				06
																		8 08				06
																		7 94				06
																		7 94				06
																		7 97				06
																		7 97				06
																		7 96				06
																		7 96				06
																		7 95				06
																		7 95				06
																		7 95				06
																		7 91				06

77 11 0110 56 33 0 12 13 965 08 25 21 0045

21	0000	17 12	10 66	275																		06
																		8 19				06
																		8 18				06
																		8 19				06
																		8 19				06
																		8 13				06
																		8 13				06
																		8 06				06

Country	Ship	Station number	Latitude		Longitude		Year	Month	Day	Stat. time	Depth to bottom m
			0:N+E 1:N+W 2:S+E 3:S+W								

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 11 0110

21 0030 11 29 18 17 230 06

21 0040 07 31 18 79 196 06

8 03

7 86

77 11 0111 56 14 0 12 22 965 08 26 00 0023

00 0000 16 97 08 93 281 06

00 0005 17 03 09 20 276 06

00 0010 17 24 10 12 278 06

00 0015 13 30 16 81 227 06

00 0020 08 31 18 59 188 06

8 18

8 20

8 18

8 05

7 89

77 11 0112 56 07 0 12 32 965 08 26 02 0026

02 0000 16 75 05 65 286 06

02 0005 16 19 08 91 275 06

02 0010 14 21 13 53 234 06

02 0015 11 01 17 51 206 06

02 0023 09 18 18 30 171 06

8 20

8 17

8 01

7 94

7 84

77 11 0113 55 52 0 12 45 965 08 26 04 0043

04 0000 16 86 04 91 290 06

04 0005 16 88 04 97 289 06

04 0010 14 74 12 91 233 06

04 0015 12 83 15 20 205 06

04 0020 09 82 17 69 162 06

04 0030 08 63 18 23 137 06

04 0040 08 56 18 28 136 06

8 27

8 27

8 06

7 97

7 84

7 76

7 75





Country	Ship	Station number	Latitude °	0:N+E 1:N+W 2:S+E 3:S+W	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m
Obs. time	Obs. depth m	Temperature °C ↓	Chlorosity g./dm <sup>3</sup> ↓	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup> ↓	Total P μg.-atoms/dm <sup>3</sup> ↓	Silicate-Si μg.-atoms/dm <sup>3</sup> ↓	Card code		
		Nitrate-N μg.-atoms/dm <sup>3</sup> ↓	Nitrite-N μg.-atoms/dm <sup>3</sup> ↓	Ammonium-N μg.-atoms/dm <sup>3</sup> ↓	Organic N μg.-atoms/dm <sup>3</sup> ↓	pH ↓	Alkalinity μval /dm <sup>3</sup> ↓			
77 11 0117										
18 0015		15 09	04 37	312	0 04			06		
						8 19				
18 0020		09 37	04 46	318	0 05			06		
						7 97				
18 0030		05 39	04 46	331	0 14			06		
						7 81				
18 0040		05 49	04 61	312	0 16			06		
						7 73				
18 0045		12 50	08 78	193	0 54			06		
						7 72				
77 11 0118		55 23	0 15 20	965	08 26	21 0090				
21 0000		15 30	04 34	313	0 00			06		
						8 23				
21 0005		15 29	04 34	316	0 00			06		
						8 21				
21 0010		15 30	04 32	310	0 00			06		
						8 23				
21 0015		15 30	04 32	306	0 00			06		
						8 25				
21 0020		15 28	04 32	311	0 00			06		
						8 25				
21 0030		12 14	04 35	286	0 00			06		
						8 01				
21 0040		05 20	04 45	330	0 10			06		
						7 83				
21 0050		05 16	05 56	262	0 25			06		
						7 50				
21 0060		07 36	07 89	134	0 65			06		
						7 32				
21 0070		07 98	08 99	033	1 86			06		
						7 11				
21 0080		07 78	09 38	014	1 74			06		
						7 09				
21 0085		07 84	09 50	003	2 65			06		
						7 21				
77 11 0119		55 15	0 15 59	965	08 27	00 0091				
00 0000		15 63	04 32	312	0 00			06		
		00 00	0 08	02 6		8 24	1550			
00 0005		15 61	04 32	306	0 00			06		
		00 00	0 03	03 4		8 26	1550			
00 0010		15 60	04 32	304	0 09			06		
		00 00	0 00	01 8		8 26	1550			
00 0015		15 59	04 32	310	0 05			06		
		00 00	0 00	02 1		8 25	1540			

Country	Ship	Station number	Latitude		Longitude		Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E 1:N+W 2:S+E 3:S+W								

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 11 0119

00	0020	14 36	04 35	298	0 06			06
		00 00	0 00	01 8		8 08	1550	
00	0030	09 39	04 28	306	0 11			06
		00 00	0 00	00 7		7 92	1560	
00	0040	04 79	04 42	332	0 17			06
		00 00	0 00	04 2		7 83	1560	
00	0050	04 10	04 52	322	0 27			06
		00 00	0 05	00 9		7 71	1560	
00	0060	04 99	05 43	275	0 18			06
		00 65	0 00	04 3		7 57	1630	
00	0070	06 38	07 44	154	0 57			06
		03 38	0 02	02 5		7 35	1750	
00	0080	07 19	08 82	025	1 53			06
		06 65	0 05	05 8		7 11	1820	
00	0087	07 59	09 20	012	2 03			06
		07 07	0 50	03 8		7 16	1860	

77 11 0120

		55 13	0 17 04	965	08 27	04 0089		
04	0000	15 62	04 26	303	0 00			06
		00 00	0 03	00 8		8 33		
04	0005	15 65	04 23	306	0 00			06
		00 00	0 02	00 9		8 37		
04	0010	15 63	04 26	308	0 00			06
		00 00	0 00	00 1		8 37		
04	0015	15 59	04 24	309	0 01			06
		00 00	0 00	00 0		8 37		
04	0020	13 72	04 24	287	0 00			06
		00 00	0 00	00 0		8 21		
04	0030	10 77	04 26	333	0 06			06
		00 00	0 02	00 1		8 10		
04	0040	04 91	04 40	327	0 09			06
		00 00	0 05	00 9		8 01		
04	0050	04 44	04 53	314	0 12			06
		00 16	0 08	00 6		7 91		
04	0060	06 12	05 93	247	0 26			06
		01 64	0 00	00 0		7 78		
04	0070	07 06	06 85	201	0 40			06
		02 54	0 00	00 7		7 60		
04	0080	06 61	07 49	156	0 61			06
		03 65	0 00	00 0		7 54		
04	0087	06 38	07 96	076	1 04			06
		05 50	0 03	00 9		7 44		



Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E 1:N+W 2:S+E 3:S+W										
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code					
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>						
77	11	0121	55 38	0 18 36	965	08 27	10 0095						
	10	0000	15 62	04 16	308	0 00		06					
	10	0005	15 60	04 15		0 00	8 36	06					
	10	0010	15 59	04 14	320	0 00	8 37	06					
	10	0015	15 59	04 14		0 00	8 32	06					
	10	0020	14 93	04 20		0 00	8 32	06					
	10	0030	13 36	04 19	288	0 00	8 27	06					
	10	0040	12 64	04 21		0 05	8 10	06					
	10	0050	05 63	04 27	343	0 09	8 03	06					
	10	0060	02 76	04 48	310	0 17	7 82	06					
	10	0070	03 30	05 26	195	0 57	7 60	06					
	10	0080	04 39	05 97	051	1 44	7 03	06					
	10	0090	05 05	06 87	072	1 34	7 03	06					
							7 09						
77	11	0122	56 07	0 19 19	965	08 27	14 0116						
	14	0000	15 42	04 06	314	0 00		06					
			00 07	0 13	04 6		8 31						
	14	0005	15 43	04 03		0 00		06					
			00 00		01 9		8 31						
	14	0010	15 46	04 05	310	0 00		06					
			00 07	0 05	01 2		8 31						
	14	0015	15 21	04 06		0 01		06					
			00 00		02 8		8 32						
	14	0020	14 40	04 21	294	0 04		06					
			00 00	0 02	00 4		8 16						
	14	0030	06 04	04 11	340	0 18		06					
			00 00	0 04	02 6		7 86						
	14	0040	02 65	04 21		0 24		06					
			00 34		01 9		7 72						
	14	0050	02 32	04 27	362	0 14		06					
			00 12	0 13	01 2		7 72						
	14	0060	02 31	04 40	304	0 37		06					
			00 67		01 0		7 49						
	14	0070	03 58	05 29	126	0 95		06					
			02 26	0 02	01 1		7 07						
	14	0080	04 30	05 85	044	1 63		06					
			04 60		01 5		6 99						

Country	Ship	Station number	Latitude			Longitude	Year 1	Month	Day	Stat. time	Depth to bottom m	
			0:N+E	1:N+W	2:S+E							3:S+W
		Obs. time	Obs. depth m	Temperature °C		Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>		Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
				Nitrate-N μg.-atoms/dm <sup>3</sup>		Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>		pH	Alkalinity μval /dm <sup>3</sup>	

77 11 0122

14	0090	04 63	06 30	077	1 19							06
		05 65	0 02	04 6					7 09			
14	0100	04 88	06 49	060	1 43							06
		06 86		01 8					7 08			
14	0110	04 81	06 63	072	1 37							06
		06 56	0 15	02 3					7 07			

77 11 0123

		56 51	0 18 52	965	08 27				19 0095			
19	0000	14 72	04 09	306	0 00							06
									8 21			
19	0005	14 73	04 10		0 00							06
									8 21			
19	0010	14 70	04 09	306	0 00							06
									8 22			
19	0015	14 56	04 09		0 00							06
									8 21			
19	0020	14 13	04 09		0 00							06
									8 20			
19	0030	02 95	04 18	361	0 12							06
									7 82			
19	0040	02 81			0 14							06
									7 75			
19	0050	02 55	04 29	343	0 14							06
									7 68			
19	0060	02 75	04 61	235	0 61							06
									7 32			
19	0070	03 76	05 31	074	1 80							06
									7 02			
19	0080	04 16	05 65	040	1 93							06
									6 99			
19	0090	04 36	05 67	048	1 73							06
									7 01			

77 11 0124

		56 59	0 18 47	965	08 28				03 0066			
03	0000	14 99	03 94	307	0 10							06
									8 28			
03	0005	14 95	03 95		0 02							06
									8 31			
03	0010	14 96	03 94	307	0 02							06
									8 31			
03	0015	14 96	03 94		0 12							06
									8 30			
03	0020	14 82	03 96		0 08							06
									8 31			
03	0030	04 80	04 09	348	0 26							06
									7 87			

Country	Ship	Station number	Latitude °	0:N+E 1:N+W 2:S+E 3:S+W	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m
		Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
				Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77	11	0124								
	03	0040	02 86		04 21	363	0 26			06
								7 81		
	03	0050	02 58		04 22	357	0 26			06
								7 72		
	03	0060	02 29		04 35	315	0 38			06
								7 56		
77	11	0125	57 05		0 18 42	965	08 28	05 0034		
	05	0000	14 66		03 98	304	0 05			06
								8 28		
	05	0005	14 71		03 98		0 05			06
								8 29		
	05	0010	14 69		03 98	306	0 04			06
								8 29		
	05	0015	14 72		03 97		0 04			06
								8 30		
	05	0020	14 65		03 98		0 08			06
								8 32		
	05	0030	05 33		04 08	351	0 14			06
								7 89		
77	11	0126	57 26		0 19 08	965	08 28	09 0049		
	09	0000	14 57		03 89	304	0 15			06
								8 21		
	09	0005	14 47		03 89		0 05			06
								8 21		
	09	0010	14 08		03 89	304	0 09			06
								8 19		
	09	0015	09 87		03 96		0 09			06
								8 02		
	09	0020	03 59		04 06		0 23			06
								7 83		
	09	0030	03 20		04 17	345	0 17			06
								7 70		
	09	0040	03 26		04 17	335	0 31			06
								7 67		
77	11	0127	57 24		0 19 26	965	08 28	11 0115		
	11	0000	15 26		03 97	308	0 04			06
								8 34		
	11	0005	15 30		03 96		0 03			06
								8 34		
	11	0010	14 98		03 96	305	0 01			06
								8 31		



Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E 1:N+W 2:S+E 3:S+W			0 1 2 3							

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 11 0127

11	0015	14 90		03 98				0 00				06
11	0020	14 26		04 04				0 00		8 30		06
11	0030	02 86		04 07	371					8 27		06
11	0040	02 79		04 16				0 05		7 92		06
11	0050	02 70		04 25	360			0 18		7 90		06
11	0060	02 39		04 34				0 24		7 82		06
11	0070	03 03		04 83	180			0 78		7 61		06
11	0080	04 15		05 64	055			1 34		7 29		06
11	0090	04 50		06 00	033			1 98		7 09		06
11	0100	04 72		06 30	063			1 45		7 08		06
										7 14		

77 11 0128

12	0000	15 55	0 19 44	965	08 28	12 0160						
12	0005	15 53	03 86	315	0 03					8 36		06
12	0010	15 22	03 85	288	0 05					8 37		06
12	0015	15 12	03 87		0 02					8 33		06
12	0020	15 34	03 87		0 00					8 28		06
12	0030	04 53	03 96	345	0 00					8 35		06
12	0040	03 39	04 04		0 22					7 88		06
12	0050	02 72	04 16	292	0 16					7 80		06
12	0060	02 47	04 22	309	0 13					7 80		06
12	0070	03 19	04 33	146	0 31					7 59		06
12	0080	04 12	05 01	052	1 10					7 20		06
12	0090	04 27	05 60	049	1 44					7 06		06
12	0100	04 73	05 92	070	1 47					7 05		06
			06 27		1 28					7 11		

Country	Ship	Station number	Latitude			Longitude	Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E						

Obs. time	Obs. depth m	Temperature °C		Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>		

77 11 0128

12 0125 05 35 06 77 048 2 08 06

12 0150 05 72 07 16 027 2 29 7 07 06

77 11 0129 57 20 0 20 03 965 08 28 14 0250

14 0000 15 78 03 83 314 0 00 8 36 1480 06

00 00 0 10 04 5 0 00 8 36 1480 06

14 0005 15 74 03 86 311 0 00 8 36 1480 06

00 00 03 6 8 36 1480 06

14 0010 15 62 03 83 304 0 11 8 34 1490 06

00 00 0 05 03 7 8 34 1490 06

14 0015 15 46 03 86 293 0 04 8 31 1480 06

00 00 02 5 8 31 1480 06

14 0020 15 31 04 05 257 0 05 8 09 1560 06

00 00 0 05 02 8 8 09 1560 06

14 0030 03 21 04 06 370 0 23 7 84 1500 06

00 00 0 05 01 3 7 84 1500 06

14 0040 02 91 04 14 271 0 24 7 82 1540 06

00 10 02 6 7 82 1540 06

14 0050 02 87 04 22 341 0 26 7 71 1560 06

00 40 0 36 03 6 7 71 1560 06

14 0060 02 57 04 32 315 0 26 7 58 1560 06

00 80 01 2 7 58 1560 06

14 0070 03 29 05 10 135 0 84 7 17 1620 06

01 70 0 05 02 4 7 17 1620 06

14 0080 03 98 05 52 058 1 40 7 07 1640 06

02 05 01 4 7 07 1640 06

14 0090 04 46 06 02 058 1 26 7 10 1680 06

04 65 01 8 7 10 1680 06

14 0100 04 64 06 26 080 1 11 7 08 1660 06

05 17 0 05 02 8 7 08 1660 06

14 0125 05 24 06 69 072 1 62 7 09 1720 06

07 58 0 02 01 2 7 09 1720 06

14 0150 05 58 06 98 043 2 29 7 07 1740 06

07 00 00 4 7 07 1740 06

14 0175 05 65 07 08 028 2 45 7 05 1750 06

07 35 01 1 7 05 1750 06

14 0200 05 73 07 12 032 2 28 7 04 1750 06

07 50 0 02 01 5 7 04 1750 06

14 0225 05 84 07 22 034 2 06 7 05 1730 06

07 90 00 9 7 05 1730 06

14 0245 05 91 07 28 021 1 85 7 04 1730 06

07 85 0 10 01 4 7 04 1730 06

Country	Ship	Station number	Latitude		Longitude		Year 1	Month	Day	Stat. time	Depth to bottom m	Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code	
			0: N+E 1: N+W 2: S+E 3: S+W	°	°	°								°	Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH		Alkalinity μval /dm <sup>3</sup>
77	11	0130	57	18	0	20	21	965	08	28	16	0190									
	16	0000	15	53		03	82	314	0	01								8	32		06
	16	0005	15	50		03	82		0	00								8	40		06
	16	0010	15	24		03	94	303	0	02								8	36		06
	16	0015	15	29		03	96		0	01								8	37		06
	16	0020	08	54		03	96		0	02								8	03		06
	16	0030	03	18		04	18	354	0	08								7	89		06
	16	0040	03	05		04	22		0	13								7	76		06
	16	0050	02	69		04	26	334	0	12								7	75		06
	16	0060	02	47		04	34	294	0	23								7	51		06
	16	0070	02	61		04	49	249	0	34								7	41		06
	16	0080	04	01		05	53	050	1	93								7	01		06
	16	0090	04	40		05	88	045	1	75								7	01		06
	16	0100	04	62		06	10	045	2	07								7	00		06
	16	0125	05	21		06	65	068	1	55								7	08		06
	16	0150	05	56		06	89	056	1	90								7	06		06
	16	0175	05	62		07	07	008	2	86								6	99		06
77	11	0131	57	16	0	20	39	965	08	28	18	0075									
	18	0000	15	58		03	79	315	0	01								8	37		06
	18	0005	15	57		03	77		0	00								8	37		06
	18	0010	15	64		03	79	307	0	01								8	37		06
	18	0015	15	67		03	83		0	00								8	36		06
	18	0020	14	44		04	03		0	00								8	19		06
	18	0030	06	80		04	02	321	0	09								7	88		06
	18	0040	03	11		04	13		0	25								7	79		06





Country	Ship	Station number	Latitude		Longitude	Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E 1:N+W 2:S+E 3:S+W							
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code		
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval/dm <sup>3</sup>			

77 11 0133

02	0095	04 60	06 10	025	1 71			06
		07 20	0 05	00 0		6 97		
02	0120	05 00	06 55	050	1 37			06
		07 92	0 05	00 0		7 03		
02	0145	05 33	06 85	029	1 81			06
		07 52	0 05	00 0		7 00		
02	0170	05 51	06 92	021	2 32			06
		08 20	0 23	00 0		6 99		

77 11 0134

06	0000	15 54	03 85	312	0 04			06
		00 00	0 10			8 35		
06	0005	15 52	03 84		0 07			06
		00 00		01 9		8 37		
06	0010	15 52	03 84	313	0 04			06
		00 00	0 07	01 5		8 38		
06	0015	15 48	03 84		0 03			06
		00 00		00 3		8 35		
06	0020	15 12	03 90		0 05			06
		00 00	0 05	00 6		8 28		
06	0030	12 28	03 98	281	0 16			06
		00 00	0 07	01 8		8 05		
06	0040	05 72	04 06		0 23			06
		00 10		00 6		7 87		
06	0050	03 51	04 19	326	0 27			06
		00 70	0 30	00 4		7 69		
06	0060	03 33	05 07		1 12			06
		02 95		00 6		7 11		
06	0070	04 10	05 59	047	1 32			06
		03 62	0 02	00 1		7 03		
06	0080	04 37	05 88	032	1 40			06
		05 66		00 0		7 00		
06	0090	04 56	06 06	026	1 46			06
		07 07	0 05	00 0		7 05		
06	0100	04 70	06 24	030	1 50			06
		07 65		00 5		7 04		
06	0110	04 79	06 35		1 72			06
		08 10	0 07	00 9		7 04		

77 11 0135

12	0000	15 84	03 82	297	0 04			06
		00 00	0 10	04 1		8 35		
12	0005	15 85			0 09			06
		00 00				8 35		
12	0010	15 81	03 84	309	0 10			06
		00 00	0 10	00 6		8 35		

Country	Ship	Station number	Latitude		Longitude	Year	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W						

Obs. time	Obs. depth m	Temperature °C		Chlorosity	Oxygen	Phosphate-P	Total P	Silicate-Si	Card code
		↓	↓	g./dm <sup>3</sup>	μmol/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	
		Nitrate-N	Nitrite-N	Ammonium-N	Organic N		pH	Alkalinity	
		μg.-atoms/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>			μval /dm <sup>3</sup>	

77 11 0135

12 0015	15 55	03 86			0 02				06
	00 00						8 30		
12 0020	15 39	03 86			0 06				06
	00 00	0 07		01 7			8 26		
12 0030	15 14	03 87			0 16				06
	00 00	0 05		00 5			8 08		
12 0040	03 58	03 90			0 40				06
							7 84		
12 0050	02 79	04 01		301	0 48				06
	00 77	0 37		01 4			7 71		
12 0060	02 27	04 23		298	0 83				06
							7 49		
12 0070	03 38	05 09		122	2 14				06
	05 45	0 07		00 4			7 15		
12 0080	04 14	05 62		040	2 79				06
							7 05		
12 0090	04 57	06 11		014	3 03				06
	07 30	0 12		00 2			7 01		
12 0100	04 65	06 21		013	2 95				06
	07 92	0 10		00 0			7 00		
12 0122		06 26		013	3 05				06
	08 10	0 12		00 2					

77 11 0136

60 12	0 19 09	965	08 29	22 0290					
23 0000	13 76	03 17			0 10				06
	00 00	0 03		04 6			8 05	1270	
23 0005	13 79	03 16		312	0 03				06
							8 08	1270	
23 0010	13 73	03 14		314	0 08				06
	00 00	0 03		00 8			8 17	1270	
23 0015	13 61	03 16		308	0 08				06
							8 10	1270	
23 0020	12 05	03 50		312	0 12				06
	00 00	0 03		00 9			8 01		
23 0030	04 43	03 58		351	0 34				06
	00 65	0 05		00 6			7 80	1410	
23 0040		03 67		298	0 40				06
							7 81	1450	
23 0050	02 63	03 82		334	0 45				06
	01 64	0 02		00 1			7 73	1500	
23 0060	03 77	03 88		347	0 48				06
							7 74	1500	
23 0070	03 70	03 90		344	0 52				06
	01 20	0 10		00 4			7 73	1510	
23 0080	03 67	03 94		346	0 50				06
							7 70		
23 0090	03 62	03 96		336	0 51				06
							7 69	1540	



Country	Ship	Station number	Latitude		Longitude		Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E 1:N+W 2:S+E 3:S+W								
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code			
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval/dm <sup>3</sup>				

77 11 0136

22	0100	03 37	03 99	338	0 61			06
		01 15	0 05	00 1		7 70	1500	
22	0125	03 18	04 06	330	0 74			06
		01 42	0 02	00 0		7 60	1500	
22	0150	03 26	04 09	305	0 70			06
		01 47	0 03	00 4		7 57	1510	
22	0175	03 20	04 10	315	0 70			06
						7 56	1500	
22	0200	03 06	04 15	313	0 84			06
		01 95	0 03	00 5		7 51	1510	
22	0275	03 06	04 21	284	1 02			06
		02 70	0 05	00 8		7 50	1510	

77 11 0137 58 35 0 18 14 965 08 30 14 0450

14	0000	14 78	03 67	314	0 00			06
		00 05		04 9		8 16	1460	
14	0005	14 70	03 67	314	0 00			06
						8 28	1450	
14	0010	14 72	03 67	310	0 02			06
		00 05	0 15	00 8		8 29	1520	
14	0015	14 65	03 70	309	0 00			06
						8 30		
14	0020	14 32	03 70	305	0 01			06
		00 00	0 10	00 1		8 25	1470	
14	0030	03 51	04 01	368	0 25			06
		00 00	0 07	00 0		7 89	1520	
14	0040	02 92	04 09	365	0 40			06
						7 79		
14	0050	02 60	04 17	364				06
		00 27	0 28	00 9		7 74	1550	
14	0060	02 40	04 49	266	0 33			06
						7 48		
14	0070	03 47	05 23	099	2 06			06
		04 40	0 08	00 0		7 10	1640	
14	0080	04 18	05 59	026	2 99			06
						6 98		
14	0090	04 40	05 82	021	3 05			06
						6 99	1710	
14	0100	04 52	06 00	017	2 64			06
		06 70	0 07	01 3		6 98	1710	
14	0125	04 60	06 10	026	2 56			06
		07 40	0 10	00 0		6 92	1700	
14	0150	04 63	06 16	030	2 64			06
		07 35	0 10	00 0		6 99	1700	
14	0200	04 76	06 29	028	2 52			06
		07 55	0 08	00 0		6 98	1730	
14	0300	04 77	06 33	038	2 35			06
		07 65	0 07	00 0		6 98	1730	

Country	Ship	Station number	Latitude		Longitude		Year 1	Month	Day	Stat. time	Depth to bottom m
			0: N-E 1: N-W 2: S-E 3: S-W	°	°						

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval/dm <sup>3</sup>	

77 11 0137

14 0400	04 80	06 34	037	2 33				06
	07 82	0 08	00 0		6 98	1730		
14 0425	04 81	06 34	036	2 40				06
					6 98	1720		
14 0440	04 78	06 34	032	2 32				06
	07 35	0 15	00 0			1730		

77 11 0138

58 00	0 18 00	965	08 30	18 0175				
19 0000	14 83	03 69	311	0 02				06
	00 07	0 15	03 9		8 17	1430		
19 0005	14 83	03 69	310	0 06				06
	00 05				8 25			
19 0010	14 84	03 72	309	0 05				06
		0 15	02 5		8 25			
19 0015	14 83	03 70	310	0 03				06
	00 05	0 12	00 3		8 25	1440		
19 0020	06 40	03 96	343	0 12				06
					7 86			
19 0030	03 55	04 09	368	0 26				06
	00 00	0 10	00 0		7 80			
19 0040	02 82	04 18	357	0 41				06
					7 72			
19 0050	02 21	04 34	303	0 80				06
	00 80	0 35	00 0		7 49			
19 0060	02 96	04 87	162	1 71				06
					7 15			
19 0070	03 96	05 50	035	2 72				06
	04 18	0 12	00 0		6 98			
19 0080	04 31	05 73	006	3 16				06
					6 96			
18 0085	04 35	05 76	013	3 16				06
					6 90			
18 0095	04 46	05 85	010	3 47				06
	05 37	0 15	00 0		6 93			
18 0120	04 52	05 96	012	3 25				06
	06 62	0 15	00 0		6 94			
18 0145	04 57	06 03	010	3 40				06
	06 75	0 15	00 5		6 94			
18 0165	04 53	06 03	014	3 42				06
	07 07	0 27	00 0		6 97			

77 11 0139

57 39	0 18 12	965	08 30	22 0095				
22 0000	14 16	03 74	314	0 03				06
					8 23			
22 0005	14 17	03 72		0 05				06
					8 24			

Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E 1:N+W 2:S+E 3:S+W										

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 11 0139

22	0010	14 16	03 74	313	0 00			06
						8 24		
22	0015	10 90	03 87		0 02			06
						8 08		
22	0020	06 11	03 98		0 15			06
						7 90		
22	0030	03 93	04 19	365	0 33			06
						7 82		
22	0040	03 58	04 14		0 39			06
						7 77		
22	0050	02 60	04 30	319	0 69			06
						7 54		
22	0060	02 69	04 58	234	1 25			06
						7 28		
22	0070	03 52	05 12	068	2 48			06
						7 00		
22	0080	03 76	05 29	039	2 91			06
						7 20		
22	0090	04 21	05 63	003	3 60			06
						6 96		

77 11 0140

23	0000	14 39	03 72	318	0 01			06
		00 07	0 10	03 9		8 23		
23	0005	14 37	03 72		0 00			06
						8 25		
23	0010	14 38	03 71	315	0 00			06
		00 00	0 10	00 0		8 27		
23	0015	14 37	03 72		0 00			06
						8 25		
23	0020	14 13	03 74		0 00			06
		00 00	0 10	00 6		8 24		
23	0030	10 93	03 88	328	0 02			06
		00 00	0 10	00 1		8 12		
23	0040	02 67	04 37		0 77			06
						7 53		
23	0050	02 90	04 71	196	1 43			06
		01 32	0 10	00 1		7 21		
23	0060	03 41	05 11	097	2 17			06
						7 02		
23	0070	04 01	05 49	023	3 00			06
		03 46	0 10	00 1		6 98		
23	0080	04 24	05 63	007	3 46			06
						6 93		
23	0090	04 39	05 73	006	3 40			06
		04 30	0 15	01 5		6 96		





Country	Ship	Station number	Latitude			Longitude	Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E						
			Temperature °C		Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>		Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
			Nitrate-N μg.-atoms/dm <sup>3</sup>		Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>		pH	Alkalinity μval/dm <sup>3</sup>	

77 11 0142

02	0090	04 34	05 67	016	3 26			6 95		06
02	0100	04 41	05 77	005	3 46			6 91		06
02	0125	04 51	05 91	003	3 44			6 95		06
02	0140	04 52	05 94	005	3 48			6 92		06

77 11 0143

57	45	0 17	06	965	08 31	04	0074			
04	0000	14 71	03 69	304	0 00			8 18		06
04	0005	14 73	03 69		0 01			8 27		06
04	0010	14 72	03 69	309	0 00			8 26		06
04	0015	14 73	03 69		0 00			8 23		06
04	0020	14 38	03 69		0 00			8 22		06
04	0030	03 82	03 99	371	0 35			7 85		06
04	0040	04 06	03 99		0 37			7 72		06
04	0050	03 32	04 12	359	0 39			7 73		06
04	0060	02 74	04 19	350	0 52			7 64		06
04	0070	03 98	05 53	016	3 29			7 97		06

77 11 0144

57	46	0 16	50	965	08 31	06	0027			
06	0000	14 23	03 73	314	0 03			8 02		06
06	0005	14 31	03 73		0 00			8 24		06
06	0010	14 21	03 73	320	0 01			8 20		06
06	0015	12 29	03 76		0 03			8 04		06
06	0020	08 10	03 92		0 18			7 79		06
06	0025	07 46	03 95	322	0 29			7 74		06

Country	Ship	Station number	Latitude	0:N+E 1:N+W 2:S+E 3:S+W	Longitude	Year 1	Month	Day	Stat. time	Depth to bottom m								
Obs. time	Obs. depth m	Temperature °C			Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>		Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code							
		Nitrate-N μg.-atoms/dm <sup>3</sup>			Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>		pH	Alkalinity μval /dm <sup>3</sup>								
77 11 0145		57 37	0	17 02	965	08 31	07 0055											
07 0000		14 61		03 70	309	0 07							8 19					06
07 0005		14 59		03 70			0 00						8 25					06
07 0010		14 43		03 74	312	0 00							8 24					06
07 0015		14 18		03 76			0 00						8 22					06
07 0020		07 76		03 93			0 11						7 92					06
07 0030		04 97		04 06	350	0 32							7 78					06
07 0040		04 18		04 10	356	0 43							7 74					06
77 11 0146		57 31	0	17 06	965	08 31	08 0064											
08 0000		14 79		03 80	310	0 00							8 23					06
08 0005		14 61		03 79			0 00						8 26					06
08 0010		14 59		03 79	309	0 00							8 28					06
08 0015		14 57		03 79			0 00						8 27					06
08 0020		08 96		03 99			0 14						7 97					06
08 0030		05 78		04 09	340	0 35							7 75					06
08 0040		04 77		04 09			0 40						7 71					06
08 0050		04 67		04 10	344	0 56							7 71					06
08 0060		04 47		04 11	340	0 47							7 68					06
77 11 0147		57 26	0	17 01	965	08 31	09 0051											
09 0000		14 57		03 78	312	0 07							8 14					06
09 0005		14 53		03 78			0 04						8 22					06
09 0010		14 45		03 80	312	0 03							8 23					06
09 0015		14 67		03 86			0 07						8 21					06
09 0020		10 38		03 91			0 11						7 93					06



Country	Ship	Station number	Latitude			Longitude	Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E						
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>			Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code	
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>		pH	Alkalinity μval /dm <sup>3</sup>			

77 11 0147

09 0030	05 93	04 06	338	0 37					06
09 0040	05 06	04 09		0 41			7 76		06
09 0050	03 99	04 12	344	0 49			7 71		06
							7 68		

77 11 0148

13 0000	14 50	03 76	316	0 00					06
	00 05	0 07	05 4				8 24		
13 0005	14 46	03 76	314	0 00			8 27		06
13 0010	14 10	03 77	316	0 01			8 28		06
	00 00	0 10	01 8				8 26		
13 0015	13 35	03 78	314	0 02			8 02		06
13 0020	08 86	03 94	324	0 03			7 90		06
	00 00	0 10	00 9				7 84		
13 0030	03 84	04 09	363	0 25			7 84		06
	00 00	0 07	00 5				7 84		
13 0040	03 19	04 15	358	0 31			7 84		06
13 0050	02 70	04 40	291	0 72			7 52		06
	00 70	0 28	00 9				7 10		
13 0060	03 31	04 97	113	1 85			7 10		06
13 0070	03 99	05 47	001	2 72			7 03		06
	03 00	0 08	00 5				7 02		
13 0080	04 23	05 63	003	3 49			7 05		06
13 0090	04 35	05 72	001	3 59			6 98	1710	06
	00 07	0 08	02 1				6 92	1700	
13 0100	04 44	05 78	001	3 49					06
	00 16	0 14	01 4						
13 0105	04 43	05 82		3 82					06
	00 00	0 08	02 3						

77 11 0149

17 0000	15 27	03 92	311	0 03					06
17 0005	15 24	03 92		0 03			8 30		06
17 0010	15 01	03 92	307	0 02			8 31		06
17 0015	14 73	03 93		0 02			8 29		06
							8 29		

Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W	0:E	1:W					

Obs. time	Obs. depth m	Temperature °C ↓	Chlorosity g./dm <sup>3</sup> ↓	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup> ↓	Total P μg.-atoms/dm <sup>3</sup> ↓	Silicate-Si μg.-atoms/dm <sup>3</sup> ↓	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup> ↓	Nitrite-N μg.-atoms/dm <sup>3</sup> ↓	Ammonium-N μg.-atoms/dm <sup>3</sup> ↓	Organic N μg.-atoms/dm <sup>3</sup> ↓	pH ↓	Alkalinity μval /dm <sup>3</sup> ↓	

77 11 0149

17 0020	09 80	04 05			0 09			06
17 0030	03 72	04 08		363	0 35	8 03		06
17 0040	03 35	04 15			0 39	7 86		06
17 0050	03 17	04 18		351	0 37	7 81		06
17 0060	03 04	04 66		196	1 42	7 73		06
						7 26		

77 11 0150

19 0000	14 88	03 93	0 16 52	965	08 31	19 0066		
19 0005	14 83	03 93		314	0 03			06
19 0010	14 51	03 95			0 01	8 25		06
19 0015	14 41	03 96		315	0 02	8 29		06
19 0020	13 24	03 99			0 00	8 30		06
19 0030	04 73	04 15		347	0 02	8 26		06
19 0040	03 16	04 22			0 29	8 18		06
19 0050	03 00	04 33		300	0 45	7 82		06
19 0060	02 98	04 49		212	0 71	7 67		06
					0 71	7 53		06
					1 21	7 30		

77 11 0151

20 0000	12 67	03 95	0 16 41	965	08 31	20 0032		
20 0005	12 43	04 04		322	0 09			06
20 0010	12 11	04 04			0 03	8 18		06
20 0015	08 48	04 07		325	0 04	8 16		06
20 0020	05 55	04 08			0 15	8 18		06
20 0030	03 95	04 09		349	0 27	7 99		06
					0 41	7 92		06
						7 83		

Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m	Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
			0:N+E 1:N+W 2:S+E 3:S+W	0 1 2 3	0 1 2 3	0:N+E 1:N+W 2:S+E 3:S+W	0 1 2 3	0 1 2 3								0 1 2 3	0 1 2 3	0 1 2 3	0 1 2 3	Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	
77	11	0152	55	10	0	12	43	965	09	01	14	0030										
	14	0000	14	86		04	65	303	0	03									8	21		06
	14	0005	14	81		04	66	302	0	00									8	20		06
	14	0010	14	80		04	67	302	0	09									8	20		06
	14	0015	14	70		04	75	301	0	09									8	18		06
	14	0020	10	55		04	64	291	0	07									7	98		06
	14	0027	13	73		06	64	233	0	43									7	91		06
77	11	0153	55	36	0	12	51	965	09	01	17	0008										
	17	0000	15	24		05	61	285	0	11									8	17		06
	17	0002	15	22		05	62	283	0	15									8	18		06
	17	0004	15	21		05	61	283	0	15									8	18		06
	17	0006	15	21		05	61	284	0	15									8	18		06
77	11	0154	55	46	0	12	48	965	09	01	20	0017										
	20	0000	15	47		06	29	284	0	26									8	18		06
	20	0005	15	36		06	49	281	0	29									8	19		06
	20	0010	15	41		09	21	263	0	45									8	18		06
	20	0015	12	14		15	52	175	0	82									7	91		06
77	11	0155	55	52	0	12	45	965	09	01	21	0045										
	21	0000	15	29		06	96	283	0	34									8	21		06
	21	0005	15	29		07	12	280	0	33									8	20		06
	21	0010	15	44		08	51	278	0	42									8	19		06
	21	0015	13	76		13	60	222	0	45									8	08		06
	21	0020	10	68		17	06	165	0	79									7	92		06



Country	Ship	Station number	Latitude	0:N+E 1:N+W 2:S+E 3:S+W	Longitude	Year 1	Month	Day	Stat. time	Depth to bottom m										
Obs. time	Obs. depth m	Temperature °C			Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>		Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code									
		↓			↓	↓	↓		↓	↓				↓						
		Nitrate-N μg.-atoms/dm <sup>3</sup>			Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>		pH	Alkalinity μval /dm <sup>3</sup>										
77 11 0155																				
	21 0030	09 48			18 02	142		1 09						7 85						06
	21 0040	09 37			18 08	138		1 20						7 83						06
77 11 0156		56 07	0	12 32		965		09 01	23 0026											
	23 0000	15 31			08 87	281		0 47						8 20						06
	23 0005	15 32			09 80	272		0 41						8 19						06
	23 0010	14 83			11 22	255		0 46						8 17						06
	23 0015	10 01			17 86	174		0 76						7 94						06
	23 0020	08 62			18 49	169		0 76						7 91						06
	23 0023	08 42			18 57	165		0 84						7 89						06
77 11 0157		56 14	0	12 22		965		09 02	00 0023											
	00 0000	15 74			10 14	280		0 08						8 22						06
	00 0005	15 71			10 15	284		0 09						8 25						06
	00 0010	16 26			11 26	262		0 04						8 21						06
	00 0015	11 86			17 16	179		0 40						7 95						06
	00 0020	09 43			18 54	202		0 60						7 99						06
77 11 0158		56 33	0	12 13		965		09 02	03 0045											
	03 0000	15 31			11 20	275		0 00						8 22						06
	03 0005	15 32			11 16	280		0 00						8 22						06
	03 0010	15 39			11 20	280		0 05						8 24						06
	03 0015	15 60			12 87	265		0 04						8 20						06
	03 0020	13 81			17 60	234		0 15						8 14						06
	03 0030	11 79			18 29	219		0 40						8 11						06

Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m
			0.N+E	1.N+W	2.S+E	3.S+W							
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code					
		↓ Nitrate-N μg.-atoms/dm <sup>3</sup>	↓ Nitrite-N μg.-atoms/dm <sup>3</sup>	↓ Ammonium-N μg.-atoms/dm <sup>3</sup>	↓ Organic N μg.-atoms/dm <sup>3</sup>	↓ pH	↓ Alkalinity μval /dm <sup>3</sup>						

77 11 0158								
03 0040	10 56	18 44	216	0 48		8 06		06
77 11 0159	56 58	0 11 46	965	09 02	06 0100			
06 0000	14 97	11 17	281	0 00		8 26		06
06 0005	14 99	11 17		0 00		8 26		06
06 0010	15 20	11 62	271	0 03		8 26		06
06 0015	15 50	15 07		0 02		8 19		06
06 0020	15 32	17 21		0 03		8 19		06
06 0030	14 20	18 12	242	0 16		8 17		06
06 0040	12 30	18 31		0 36		8 13		06
06 0050	09 29	18 81	217	0 68		8 05		06
06 0060	08 61	19 09	204	0 75		8 00		06
06 0070	08 39	19 19	203	0 83		8 00		06
06 0080	08 33	19 24	204	0 88		7 99		06
06 0090	08 35	19 25	201	0 92		7 99		06
77 11 0160	57 12	0 11 40	965	09 02	08 0075			
08 0000	15 03	11 67	282	0 01		8 33		06
08 0005	15 42	14 50		0 01		8 32		06
08 0010	15 50	15 04	264	0 02		8 31		06
08 0015	15 35	15 41		0 04		8 31		06
08 0020	15 48	15 91		0 05		8 30		06
08 0030	14 93	18 14	259	0 23		8 30		06
08 0040	13 11	18 51				8 23		06
08 0050	11 31	18 87	225	0 48		8 21		06

Country	Ship	Station number	Latitude			Longitude			Year	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W	0	1					

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77	11	0160										
08	0060	09 39	19 13	224	0 67							06
08	0070	08 82	19 44	221	0 75	8 17						06
						8 15						
77	11	0175	58 22	0 11 23	965	10 06	07 0025					
07	0000	13 25	14 31	288	0 06							06
07	0005	13 27	14 31		0 00	8 21						06
07	0010	13 25	14 28	286	0 02	8 21						06
07	0015	13 25	14 34		0 00	8 22						06
07	0020	13 30	14 43		0 02	8 22						06
07	0024	13 42	14 52	250	0 05	8 19						06
						8 10						
77	11	0176	58 22	0 11 26	965	10 06	08 0023					
08	0000	13 34	14 10	285	0 00							06
08	0005	13 35	14 10		0 02	8 20						06
08	0010	13 29	14 14	288	0 01	8 23						06
08	0015	13 31	14 18		0 03	8 22						06
08	0020	13 47	14 32	286	0 00	8 22						06
						8 21						
77	11	0177	58 19	0 11 22	965	10 06	08 0033					
08	0000	13 55	13 70	286	0 09							06
08	0005	13 57	13 70		0 02	8 21						06
08	0010	13 41	13 88	284	0 06	8 21						06
08	0015	13 39	14 07		0 04	8 20						06
08	0020	13 42	14 30	284	0 02	8 20						06
08	0030	13 93	17 23	200	0 36	8 21						06
						8 08						



Country	Ship	Station number	Latitude °	0:N+E 1:N+W 2:S+E 3:S+W	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m
Obs. time	Obs. depth m	Temperature °C		Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>		Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		↓ Nitrate-N μg.-atoms/dm <sup>3</sup>		↓ Nitrite-N μg.-atoms/dm <sup>3</sup>	↓ Ammonium-N μg.-atoms/dm <sup>3</sup>	↓ Organic N μg.-atoms/dm <sup>3</sup>		↓ pH	↓ Alkalinity μval /dm <sup>3</sup>	
77 11 0178		58 16	0 11 22	965	10 06	09 0042				
09 0000		13 78	13 38	279	0 24			8 18		06
09 0005		13 77	13 40		0 09			8 20		06
09 0010		13 75	13 42	282	0 05			8 20		06
09 0015		13 71	13 43		0 02			8 20		06
09 0020		13 71	13 71	276	0 05			8 19		06
09 0025		13 87	15 25		0 14			8 13		06
09 0030		13 60	17 59	194	0 32			8 07		06
09 0035		13 47	18 13		0 37			8 06		06
09 0040		13 28	18 38	200	0 41			8 04		06
77 11 0179		58 16	0 11 26	965	10 06	10 0056				
10 0000		13 65	13 54	285	0 04			8 20		06
10 0005		13 65	13 54		0 04			8 21		06
10 0010		13 63	13 53	282	0 02			8 20		06
10 0015		13 65	14 17		0 05			8 19		06
10 0020		14 02	15 00		0 11			8 12		06
10 0030		13 43	17 85	186	0 42			8 02		06
10 0040		12 78	18 62		0 41			8 05		06
10 0050		09 26	19 02	168	0 92			7 89		06
77 11 0180		58 19	0 11 33	965	10 06	11 0119				
11 0000		13 33	13 55	282	0 04			8 21		06
11 0005		13 35	13 56		0 08			8 21		06
11 0010		13 45	13 86	280	0 02			8 21		06
11 0015		13 76	14 32		0 00			8 19		06

Country	Ship	Station number	Latitude			Longitude	Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E						

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 11 0180

11 0020	13 98	14 85	252	0 07				06
11 0030	13 58	17 64	181	0 41		8 14		06
11 0040	12 48	18 18	183	0 43		8 01		06
11 0050	09 99	18 58	176	0 62		8 02		06
11 0060	06 37	19 41	146	1 48		7 95		06
11 0070	06 21	19 49	139	1 64		7 80		06
11 0080	06 22	19 53	133	1 98		7 81		06
11 0090	06 25	19 55	120	2 05		7 78		06
11 0100	06 26	19 57	110	2 50		7 71		06
11 0110	06 27	19 58	101	2 59		7 68		06
						7 66		

77 11 0181 58 14 0 11 35 965 10 07 09 0041

09 0000	13 20	11 96	276	0 04				06
09 0005	13 28	12 09	261	0 06		8 19		06
09 0010	13 57	12 50	231	0 18		8 18		06
09 0015	11 93	13 75	118	0 76		8 08		06
09 0020	05 93	16 01	042	3 02		7 79	1920	06
09 0025	05 32	16 16	007	3 23		7 29		06
09 0030	05 20	16 18	007	3 04		7 36		06
09 0035	05 15	16 19	004	3 17		7 34		06
09 0040	05 09	16 20	004	3 49		7 33		06
						7 29	2140	

77 11 0182 58 15 0 11 38 965 10 07 14 0058

14 0000	13 31	11 95	275	0 06				06
14 0005	13 28	11 95		0 07		8 21		06
						8 18		

Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W	0:E+W	1:W+E					
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>			Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code			
		↓	Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>					

77 11 0182

14	0010	13 88	12 43	222	0 15		8 08	06
14	0015	12 93	13 68	133	0 64		7 81	06
14	0020	05 79	16 02	008	3 02		7 27	06
14	0030	05 15	16 18	007	3 28		7 28	06
14	0040	05 12	16 19	008	3 17		7 27	06
14	0050	05 05	16 20	005	3 19		7 28	06

77 11 0183

14	0000	13 28	11 71	291	0 02	14 0060	8 18	06
14	0005	13 20	11 72		0 02		8 20	06
14	0010	13 85	12 66	188	0 25		7 99	06
14	0015	09 37	15 15	039	1 62		7 35	06
14	0020	05 20	16 09	014	2 61		7 28	06
14	0030	05 10		013	3 00		7 23	06
14	0040	05 03	16 20	016	3 05		7 28	06
14	0050	04 90	16 23	016	3 12		7 28	06

77 11 0184

15	0000	12 98	11 21	320	0 05	15 0040	8 21	06
15	0005	13 27	11 72	271	0 04		8 15	06
15	0010	14 05	13 59	181	0 32		7 98	06
15	0015	13 53	14 51	141	0 67		7 86	06
15	0020	12 13	14 68	075	0 93		7 63	06
15	0030	05 53	18 22	027	2 20		7 40	06
15	0038	05 41	18 40	010	3 75		7 40	06







Country	Ship	Station number	Latitude		Longitude	Year 1	Month	Day	Stat. time	Depth to bottom m
			0: N+ 1: N+W 2: S+ 3: S+W							

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 11 0191

11	0015	14 14	14 77		0 15			06
						8 25		
11	0020	14 03	17 25		0 43			06
						8 23		
11	0030	13 35	18 78	218	0 40			06
						8 20		
11	0040	12 95	19 07	213	0 36			06
						8 21		
11	0050	12 87	19 17	217	0 44			06
						8 21		

77 11 0192

		57 54	0 11 32	965	10 08	11 0037		
11	0000	13 16	11 21	286	0 02			06
						8 32		
11	0005	13 81	13 08		0 01			06
						8 31		
11	0010	13 91	13 63	266	0 02			06
						8 29		
11	0015	14 12	14 79		0 14			06
						8 25		
11	0020	14 07	17 20	218	0 12			06
						8 26		
11	0030	13 02	19 13	220	0 42			06
						8 20		
11	0035	12 70	19 27	222	0 43			06
						8 19		

77 11 0195

		57 53	0 11 25	965	11 29	15 0064		
15	0000	05 40	15 14		0 38			06
15	0005	05 42	15 14		0 41			06
15	0010	05 52	15 17		0 43			06
15	0015	06 23	16 26		0 51			06
15	0020	07 29	19 26		0 75			06
15	0030	07 91	19 55		0 76			06
15	0040	06 66	19 78		0 88			06
15	0050	06 47	19 81		0 98			06





Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W	0	1					

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 11 0198

17	0015	09 10	18 62		0 64			06
17	0020	05 06	19 11		0 88			06
17	0030	05 12	19 38		0 90			06
17	0040	05 50	19 59		0 91			06
17	0050	05 62	19 61		0 95			06
17	0060	05 08	19 63		0 98			06

77	11 0199	57 50	0 11 04	965	11 29	19 0047		
19	0000	06 04	16 50		0 54			06
19	0005	05 61	17 88		0 63			06
19	0010	05 20	19 38		0 78			06
19	0015	05 10	19 38		0 79			06
19	0020	05 02	19 38		0 83			06
19	0030	04 83	19 40		0 84			06
19	0040	04 67	19 43		0 89			06

77	11 0200	58 14	0 11 35	965	11 30	11 0040		
11	0000	02 99	12 93	318	0 62			06
11	0005	03 00	12 93	315	0 57	7 98		06
11	0010	03 77	13 04	300	0 63	8 01		06
11	0015	07 79	14 61	126	1 38	7 98		06
11	0020	07 04	15 72	015	2 91	7 71		06
11	0025	05 44	16 14	004	3 65	7 39		06
11	0030	05 33	16 17	003	3 55	7 35		06
11	0035	05 24	16 18	005	3 40	7 39		06
						7 39		

Country	Ship	Station number	Latitude °	0:N+E	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m
				1:N+W						
Obs. time	Obs. depth m	Temperature °C ↓	Chlorosity g./dm <sup>3</sup> ↓	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup> ↓	Total P μg.-atoms/dm <sup>3</sup> ↓	Silicate-Si μg.-atoms/dm <sup>3</sup> ↓	Card code		
		Nitrate-N μg.-atoms/dm <sup>3</sup> ↓	Nitrite-N μg.-atoms/dm <sup>3</sup> ↓	Ammonium-N μg.-atoms/dm <sup>3</sup> ↓	Organic N μg.-atoms/dm <sup>3</sup> ↓	pH ↓	Alkalinity μval /dm <sup>3</sup>			

77 11 0200

11 0038	05 22	16 18	005	3 50		7 40		06
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77 11 0202 58 20 0 11 10 965 12 01 11 0050

11 0000	04 69	15 28		0 41				06
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11 0005	04 76	15 28		0 47				06
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11 0010	05 37	15 65		0 40				06
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11 0015	06 43	16 93		0 50				06
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11 0020	08 02	18 22		0 59				06
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11 0030	08 06	19 10		0 79				06
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11 0040	07 75	19 14		0 86				06
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11 0045	07 66	19 16		0 88				06
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77 11 0203 58 20 0 11 06 965 12 01 11 0050

11 0000	04 58	15 15		0 53				06
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11 0005	04 78	15 21		0 47				06
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11 0010	05 52	15 92		0 48				06
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11 0015	06 72	18 39		0 62				06
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11 0025	05 23	19 43		0 69				06
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11 0035	05 50	19 59		0 74				06
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11 0040	05 56	19 60		0 76				06
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77 11 0204 58 20 0 11 02 965 12 01 12 0090

12 0000	04 99	15 94		0 47				06
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12 0005	06 16	16 99		0 51				06
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12 0010	06 16	17 78		0 57				06
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Country	Ship	Station number	Latitude		Longitude	Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E 1:N+W 2:S+E 3:S+W							
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code		
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>			

77 11 0204

12 0015	06 31	19 25			0 68			06
12 0020	06 28	19 64			0 74			06
12 0030	06 21	19 65			0 76			06
12 0040	06 05	19 66			0 81			06
12 0050	05 98	19 66			0 81			06
12 0060	05 77	19 65			0 79			06
12 0070	05 68	19 64			0 79			06
12 0080	05 64	19 64			0 77			06

77 11 0205 58 19 0 10 57 965 12 01 14 0115

14 0000	05 61	16 82			0 41			06
14 0005	06 41	17 11			0 35			06
14 0010	07 46	17 73			0 41			06
14 0015	07 17	18 96			0 66			06
14 0020	08 32	19 65			0 69			06
14 0030	06 62	19 69			0 75			06
14 0050	06 05	19 69			0 80			06
14 0060	05 79	19 68			0 77			06
14 0070	05 67	19 68			0 81			06
14 0080	05 59	19 68			0 84			06
14 0090	05 55	19 69			0 84			06
14 0100	05 46	19 69			0 80			06
14 0110	05 39	19 70			0 77			06

Country	Ship	Station number	Latitude °	0:N+E 1:N+W 2:S+E 3:S+W	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m	
Obs. time	Obs. depth m	Temperature °C		Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>		Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code	
		Nitrate-N μg.-atoms/dm <sup>3</sup>		Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>		pH	Alkalinity μval /dm <sup>3</sup>		
77	11	0206	58 18	0	10 51	965	12	01	15 0150		
	15	0000	05 50		16 63			0 36		06	
	15	0005	05 63		16 68			0 40		06	
	15	0010	08 01		18 00			0 47		06	
	15	0015	08 15		18 64			0 54		06	
	15	0020	07 96		19 10			0 62		06	
	15	0030	07 86		19 49			0 64		06	
	15	0040	07 37		19 76			0 80		06	
	15	0050	06 81		19 82			0 90		06	
	15	0060	06 12		19 81			0 91		06	
	15	0070	06 10		19 81			0 99		06	
	15	0080	05 93		19 78			0 91		06	
	15	0090	05 99		19 79			0 90		06	
	15	0100	06 13		19 81			0 91		06	
	15	0125	06 20		19 83			0 91		06	
	15	0145	05 89		19 83			1 08		06	
77	11	0207	58 16	0	10 44	965	12	01	17 0190		
	17	0000	06 03		16 95			0 45		06	
	17	0005	07 01		17 20			0 42		06	
	17	0010	09 30		19 01			0 48		06	
	17	0015	09 21		19 05			0 50		06	
	17	0020	09 12		19 07			0 52		06	
	17	0030	09 16		19 21			0 53		06	
	17	0040	08 48		19 73			0 81		06	
	17	0050	07 46		19 80			0 90		06	

Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W							

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 11 0207

17	0060	07 44	19 87		0 93			06
17	0070	07 52	19 87		0 90			06
17	0080	07 34	19 89		0 93			06
17	0090	07 29	19 90		0 96			06
17	0100	07 16	19 91		0 97			06
17	0125	06 92	19 94		1 02			06
17	0150	06 78	19 94		1 05			06
17	0175	06 79	19 96		1 02			06

77 11 0208 58 15 0 10 34 965 12 01 18 0275

19	0000	05 96	16 84		0 28			06
19	0005	07 91	18 22		0 37			06
19	0010	08 17	18 66		0 45			06
19	0015	07 71	19 30		0 45			06
19	0020	07 70	19 31		0 40			06
19	0030	07 62	19 36		0 41			06
19	0040	07 98	19 47		0 43			06
19	0050	07 96	19 48		0 50			06
19	0060	07 94	19 59		0 54			06
19	0070	07 75	19 73		0 75			06
19	0080	07 48	19 85		0 65			06
18	0090	07 19	19 91		0 86			06
18	0100	07 08	19 92		0 66			06
18	0125	06 94	19 94		0 78			06
18	0150	06 89	19 96		0 84			06



Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E 1:N+W 2:S+E 3:S+W										

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 11 0208

18 0175	06 96		19 98		0 65			06
18 0200	06 95		19 98		0 95			06
18 0250	06 96		19 98		0 77			06

77 11 0209 58 16 0 10 11 965 12 01 21 0475

22 0000	04 73		15 96		0 29			06
22 0005	05 88		16 56		0 35			06
22 0010	06 26		16 88		0 35			06
22 0015	06 88		17 12		0 37			06
22 0020	09 08		18 20		0 36			06
22 0030	09 95		19 05		0 41			06
22 0040	10 82		19 48		0 48			06
22 0050	08 57		19 58		0 68			06
22 0060	07 72		19 73		0 84			06
22 0070	07 66		19 81		0 84			06
22 0090	07 22		19 90		0 90			06
21 0096	06 95		19 91		0 90			06
21 0115	06 95		19 93		0 98			06
21 0134	06 84		19 94		1 03			06
21 0153	06 79		19 94		1 01			06
21 0230	06 56		19 96		1 03			06
21 0307	05 55		19 94		1 22			06

Country	Ship	Station number	Latitude °	0:N+E 1:N+W 2:S+E 3:S+W	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code		
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>			
77 11 0228		57 12	0 11 40	965	12 06	15 0067				
	15 0000	04 19	13 45	334	0 38		06			
	15 0005	04 16	13 42		0 33	8 13	06			
	15 0010	04 19	13 45	334	0 35	8 17	06			
	15 0015	07 77	17 47	283	0 54	8 16	06			
	15 0020	05 78	19 31	297	0 67	8 12	06			
	15 0030	05 59	19 48	296	0 75	8 14	06			
	15 0040	05 60	19 49	294	0 79	8 14	06			
	15 0050	05 80	19 55	294	0 75	8 12	06			
	15 0060	05 94	19 59	291	0 79	8 12	06			
						8 12				
77 11 0229		56 58	0 11 46	965	12 06	17 0090				
	17 0000	04 20	12 58	338	0 34		06			
	17 0005	04 12	12 57		0 40	8 25	06			
	17 0010	04 20	12 63	337	0 34	8 22	06			
	17 0015	09 06	17 99	259	0 56	8 22	06			
	17 0020	08 76	19 04	248	0 77	8 16	06			
	17 0030	08 26	19 30	256	0 79	8 16	06			
	17 0040	08 08	19 48	254	0 86	8 14	06			
	17 0050	07 62	19 60	256	0 92	8 14	06			
	17 0060	06 89	19 62	265	0 96	8 15	06			
	17 0070	06 66	19 61	275	0 96	8 15	06			
						8 16				
77 11 0230		56 14	0 12 22	965	12 06	22 0023				
	22 0000	03 14	12 30	349	0 41		06			
	22 0005	03 11	12 27		0 40	8 22	06			
						8 21				

Country	Ship	Station number	Latitude			Longitude			Year	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W	0	1					

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		↓	↓	↓	↓	↓	↓	
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval/dm <sup>3</sup>	
		↓	↓	↓	↓	↓	↓	

77 11 0230

22 0010	09 11	15 64	248	0 84			06
22 0015	10 24	18 59	205	0 90	8 10		06
22 0020	10 27	18 70	218	0 98	8 08		06
					8 09		

77 11 0231

10 0000	05 53	04 80Q	356	0 34			06
	00 62	0 45	01 1		8 10	1470	
10 0005	05 52	04 71	357	0 35			06
	00 62		01 6		8 10	1600	
10 0010	05 54	04 73	360	0 35			06
	00 62	0 45	00 4		8 10	1610	
10 0015	05 60	04 74	357	0 38			06
	01 00		00 3		8 13	1610	
10 0020	05 54	04 74	363	0 38			06
	00 72	0 40	01 5		8 09	1620	
10 0030	05 54	04 74	356	0 35			06
	00 93	0 42	01 5		8 09	1620	
10 0040	05 55	04 80	352	0 40			06
	00 88		01 2		8 11	1620	
10 0045	09 96	10 35	200	1 56			06
	04 19	0 16	01 9		7 84	1900	

77 11 0232

13 0000	05 05	04 26	360	0 38			06
					7 96		
13 0005	05 04	04 26	361	0 38			06
					8 05		
13 0010	05 07	04 26	360	0 37			06
					8 06		
13 0015	05 14	04 27	362	0 40			06
					8 06		
13 0020	05 28	04 30	356	0 41			06
					8 06		
13 0030	05 19	04 32	358	0 40			06
					8 05		
13 0040	06 49	05 17	329	0 47			06
					8 02		



Country	Ship	Station number	Latitude °	0:N+E 1:N+W 2:S+E 3:S+W	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code		
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval/dm <sup>3</sup>			
77 11 0233		55 23	0 15 20	965	12 07	16 0087				
16 0000		05 20	04 26	353	0 19		06			
16 0005		05 15	04 26		0 28	7 97	06			
16 0010		05 10	04 26	357	0 30	8 12	06			
16 0015		05 10	04 27		0 33	8 11	06			
16 0020		05 10	04 27	357	0 37	8 11	06			
16 0030		05 19	04 27	361	0 41	8 10	06			
16 0040		05 30	04 29	354	0 46	8 12	06			
16 0050		06 71	05 08	303	0 47	8 08	06			
16 0060		09 22	08 18	134	1 09	7 92	06			
16 0070		07 85	09 16	013	3 00	7 52	06			
16 0080		07 83	09 22	009	4 15	7 32	06			
						7 37				
77 11 0234		55 15	0 15 59	965	12 07	19 0093				
19 0000		05 86	04 49	352	0 34		06			
		00 37	0 30	04 5		8 03	1580			
19 0005		05 84	04 46	349	0 34		06			
		00 45		01 4		8 04	1580			
19 0010		05 85	04 49	347	0 45		06			
		00 60	0 30	02 3		8 06	1590			
19 0015		05 81	04 49	377	0 24		06			
		00 77		01 2		8 03	1600			
19 0020		05 77	04 49	352	0 35		06			
		00 95	0 30	00 6		8 04	1590			
19 0030		05 71	04 49	349	0 38		06			
		01 25	0 30	00 3		8 03	1600			
19 0040		05 75	04 54	346	0 37		06			
		01 26		00 8		8 00	1590			
19 0050		08 53	06 87	164	0 86		06			
		02 01	0 04	00 0		7 45	1750			
19 0060		09 26	07 26	165	0 97		06			
		04 19		00 0		7 49	1770			
19 0070		09 81	07 83	188	0 98		06			
		04 64	0 01	00 5		7 62	1780			
19 0080		09 24	09 05	140	1 64		06			
		05 68		01 9		7 48	1880			
19 0087		09 14	09 22	130	1 80		06			
		05 23	0 04	01 7		7 47	1890			



Country	Ship	Station number	Latitude		Longitude		Year 1	Month	Day	Stat. time	Depth to bottom m	Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code		
			0: N+E 1: N+W 2: S+E 3: S+W																			
														Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>		pH	Alkalinity μval/dm <sup>3</sup>		
77	11	0237	56	07	0	19	19	965	12	08	10	0115										
	10	0000	04	68	04	18		360	0	40											06	
			00	82	0	25		01	9									7	93			
	10	0005	04	69	04	18				0	35										06	
			00	95				03	6									7	96			
	10	0010	04	68	04	18		359		0	32										06	
			00	90	0	22		01	8									7	96			
	10	0015	04	68	04	18				0	40										06	
			01	20				00	8									7	96			
	10	0020	04	68	04	18		356		0	31										06	
			00	92	0	20		01	2									7	97			
	10	0030	04	65	04	18		361		0	32										06	
			00	87				01	2									7	97			
	10	0040	04	64	04	18		357		0	32										06	
			01	00	0	20		01	1									7	97			
	10	0050	04	65	04	18		358		0	35										06	
			01	15				01	1									7	97			
	10	0060	03	69	05	08		163		1	03										06	
			02	67	0	05		00	4									7	28			
	10	0070	04	57	05	89		097		1	33										06	
			05	55				00	6									7	18			
	10	0080	04	91	06	19		071		1	46										06	
			06	25	0	02		00	4									7	16			
	10	0090	05	01	06	27		062		1	47										06	
			07	78				01	8									7	15			
	10	0100	05	04	06	29		062		1	58										06	
			06	69	0	06		01	2									7	16			
	10	0110	05	02	06	29		060		1	64										06	
			06	91	0	06		01	1									7	13			
77	11	0238	56	51	0	18	52	965	12	08	15	0110										
	15	0000	04	49	04	10		368													06	
																		7	93			
	15	0005	04	44	04	10												8	04		06	
																		8	05			
	15	0010	04	46	04	10		364													06	
																		8	05			
	15	0015	04	48	04	10															06	
																		8	05			
	15	0020	04	43	04	10		365													06	
																		8	03			
	15	0030	04	46	04	10		366													06	
																		8	02			
	15	0040	04	53	04	10		364													06	
																		7	99			
	15	0050	04	55	04	10		366													06	
																		8	02			
	15	0060	03	26	04	97		167													06	
																		7	26			



Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W							

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 11 0238

15	0070	03 89	05 51	085				06
						7 13		
15	0080	04 30	05 87	048				06
						7 10		
15	0090	04 47	06 05	047				06
						7 09		
15	0100	04 62	06 21	042				06
						7 10		

77 11 0239

56	59	0	18 47	965	12 08	16 0073		
16	0000	03 99	04 10	368				06
						8 02		
16	0005	03 95	04 08					06
						8 04		
16	0010	03 98	04 09	367				06
						8 05		
16	0015	03 98	04 09					06
						8 05		
16	0020	03 98	04 09	368				06
						8 03		
16	0030	04 04	04 10	367				06
						8 03		
16	0040	04 06	04 10	366				06
						8 03		
16	0050	03 20	04 60	238				06
						7 50		
16	0060	03 38	04 98	156				06
						7 29		
16	0070	03 57	05 18	114				06
						7 22		

77 11 0240

57	05	0	18 42	965	12 08	18 0026		
18	0000	03 77	04 07	371				06
						8 00		
18	0005	03 75	04 08					06
						8 03		
18	0010	03 75	04 07	372				06
						8 02		
18	0015	03 76	04 07					06
						8 04		
18	0020	03 76	04 08	369				06
						7 99		

Country	Ship	Station number	Latitude °	0:N-E 1:N-W 2:S-E 3:S-W	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code		
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>			
77 11 0241		57 26	0 19 08	965	12 08	20 0051				
	20 0000	04 28	04 04	369	0 35		06			
	20 0005	04 25	04 06		0 35	8 05	06			
	20 0010	04 26	04 06	368	0 41	8 08	06			
	20 0015	04 24	04 07		0 34	8 06	06			
	20 0020	04 25	04 07	365	0 36	8 05	06			
	20 0030	04 53	04 08	363	0 35	8 05	06			
	20 0040	04 06	04 29	305	0 72	8 03	06			
						7 96				
77 11 0242		57 24	0 19 26	965	12 08	22 0122				
	22 0000	04 40	04 08	367	0 29		06			
	22 0005	04 43	04 08		0 57	8 05	06			
	22 0010	04 35	04 08	368	0 57	8 03	06			
	22 0015	04 38	04 09		0 33	8 02	06			
	22 0020	04 38	04 09	363	0 41	8 03	06			
	22 0030	04 37	04 09	361	0 33	8 04	06			
	22 0040	04 54	04 10	393	0 34	8 05	06			
	22 0050	03 64	04 46	258	0 90	8 04	06			
	22 0060	03 45	05 05	138	1 68	7 56	06			
	22 0070	04 12	05 66	050	2 28	7 23	06			
	22 0080	04 40	05 93	033	2 40	7 11	06			
	22 0090	04 50	06 02	037	2 53	7 12	06			
	22 0100	04 53	06 07	028	2 47	7 10	06			
	22 0115	05 10	06 62	048	1 98	7 11	06			
						7 16				





Country	Ship	Station number	Latitude		Longitude	Year	Month	Day	Stat. time	Depth to bottom m
			0:N+E 1:N+W 2:S+E 3:S+W							

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 11 0244

02	0070	03 06	04 82	198				
		02 43	0 12	00 0		7 32	1650	06
02	0080	04 15	05 57	080	1 54			06
		04 48				7 13	1690	
02	0090	04 49	06 06	055	1 62			06
		06 20	0 12	00 0		7 11	1730	
01	0100	04 62	06 20	054	1 58			06
		05 91	0 09	00 0		7 10	1700	
01	0125	05 13	06 65	052	1 92			06
		07 11	0 09	01 6		7 13	1760	
01	0150	05 54	06 93	032	2 50			06
		08 06	0 09	00 0		7 12	1770	
01	0175	05 64	07 08	011	3 00			06
		06 13	0 14	00 0		7 10	1770	
01	0200	05 73	07 16	019	2 52			06
		07 35	0 12	00 0		7 10	1760	
01	0225	05 82	07 20	014	2 48			06
		07 86	0 19	00 2		7 11	1780	
01	0240	05 87	07 21	008	2 53			06
		08 71	0 24	00 0		7 10	1770	

77 11 0245

		57 18	0 20 21	965	12 09	04 0180		
05	0000	05 18	04 13	360	0 29			06
						8 00		
05	0005	05 16	04 13		0 33			06
						8 05		
05	0010	05 17	04 13	362	0 35			06
						8 03		
05	0015	05 18	04 13		0 28			06
						8 04		
05	0020	05 15	04 14	360	0 24			06
						8 04		
05	0030	05 15	04 13	357	0 23			06
						8 04		
05	0040	05 12	04 13	360	0 29			06
						8 03		
05	0050	05 11	04 13	358	0 30			06
						8 02		
05	0060	05 12	04 13	360	0 23			06
						8 04		
05	0070	04 11	05 19	144	1 08			06
						7 24		
05	0080	04 19	05 74	059	1 57			06
04	0090	04 63	06 11	064	1 54			06
						7 10		
04	0100	04 87	06 33	071	1 50			06
						7 13		

Country	Ship	Station number	Latitude °	0:N+E	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m
				1:N+W						
Obs. time	Obs. depth m	Temperature °C ↓	Chlorosity g./dm <sup>3</sup> ↓	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup> ↓	Total P μg.-atoms/dm <sup>3</sup> ↓	Silicate-Si μg.-atoms/dm <sup>3</sup> ↓	Card code		
		Nitrate-N μg.-atoms/dm <sup>3</sup> ↓	Nitrite-N μg.-atoms/dm <sup>3</sup> ↓	Ammonium-N μg.-atoms/dm <sup>3</sup> ↓	Organic N μg.-atoms/dm <sup>3</sup> ↓	pH ↓	Alkalinity μval /dm <sup>3</sup> ↓			

77 11 0245

04 0125	05 20	06 70	052	1 98				06
						7 14		
04 0150	05 47	06 90	013	2 95				06
						7 09		
04 0175	05 50	06 93	011	3 40				06
						7 11		

77 11 0246

06 0000	05 52	04 18	354	0 33				06
						8 02		
06 0005	05 48	04 18		0 28				06
						8 02		
06 0010	05 51	04 18	354	0 29				06
						8 03		
06 0015	05 50	04 19		0 30				06
						8 03		
06 0020	05 51	04 19	353	0 29				06
						8 04		
06 0030	05 52	04 19	351	0 30				06
						8 02		
06 0040	05 51	04 19	355	0 25				06
						8 01		
06 0050	05 49	04 19	356	0 27				06
						8 02		
06 0060	05 49	04 19	353	0 32				06
						8 02		
06 0070	05 75	04 25	341	0 47				06
						7 94		

77 11 0247

07 0000	05 62	04 13	331	0 27				06
						8 14		
07 0005	05 61	04 13		0 27				06
						8 14		
07 0010	05 60	04 13	360	0 30				06
						8 13		
07 0015	05 59	04 14		0 33				06
						8 13		
07 0020	05 61	04 14	359	0 38				06
						8 14		

Country	Ship	Station number	Latitude °	0:N+E 1:N+W 2:S+E 3:S+W	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m
Obs. time	Obs. depth m	Temperature °C		Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>		Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>		Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>		pH	Alkalinity μval/dm <sup>3</sup>	
77 11	0248	58 00	0	19 54	965	12 09	13	0205		
14	0000	04 65		04 02	369	0 36				06
		00 26			02 9			8 03		
14	0005	04 60		04 02		0 31				06
		00 36		0 24	03 7			8 04		
14	0010	04 61		04 02	368	0 37				06
		00 31		0 24	02 4			8 04		
14	0015	04 58		04 02		0 34				06
		00 26			01 8			8 06		
14	0020	04 58		04 02	370	0 30				06
		00 36			02 3			8 05		
14	0030	04 59		04 02	369	0 33				06
		00 43		0 27	02 1			8 05		
14	0040	04 67		04 03	368	0 33				06
		00 27			01 7			8 04		
14	0050	04 75		04 04	366	0 33				06
		00 39		0 23	01 5			8 06		
14	0060	03 28		04 69	209	1 25				06
		02 92			01 6			7 35		
14	0070	03 80		05 39	079	2 10				06
		04 29		0 18	01 0			7 14		
13	0080	04 15		05 67	052	2 32				06
		05 37			01 4			7 10		
13	0090	04 43		05 94	031	2 44				06
		06 87		0 20	01 2			7 10		
13	0100	04 53		06 05	029	2 68				06
		01 85		0 15	00 7			7 10		
13	0125	05 13		06 64	037	2 43				06
		02 22		0 15	02 1			7 12		
13	0150	05 44		06 83	023	2 97				06
		02 82		0 18	02 0			7 12		
13	0190	05 50		07 18	007	4 50				06
		02 81		0 49	02 4			7 13		
77 11	0249	58 27	0	20 20	965	12 09	17	0125		
17	0000	04 63		03 95	368	0 29				06
								8 10		
17	0005	04 63		03 93		0 27				06
								8 10		
17	0010	04 69		03 95	368	0 21				06
								8 05		
17	0015	04 61		03 95		0 27				06
								8 06		
17	0020	04 61		03 95	367	0 27				06
								8 07		
17	0030	04 59		03 95	368	0 33				06
								8 04		
17	0040	04 60		03 95	366	0 32				06
								8 11		



Country	Ship	Station number	Latitude			Longitude			Year	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W	0	1					

Obs. time	Obs. depth m.	Temperature °C		Chlorosity	Oxygen	Phosphate-P	Total P	Silicate-Si	Card code
		↓		g./dm <sup>3</sup>	μmol/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	
		Nitrate-N	Nitrite-N	Nitrite-N	Ammonium-N	Organic N	pH	Alkalinity	
		μg.-atoms/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	↓	μval/dm <sup>3</sup>	

77 11 0249

17 0050	04 47		03 97	363	0 47		8 04		06
17 0060	03 10		04 65	216	1 42		7 43		06
17 0070	03 93		05 40	086	2 04		7 21		06
17 0080	04 26		05 80	036	2 50		7 13		06
17 0090	04 52		06 02	026	2 65		7 12		06
17 0100	04 63		06 16	025	2 59		7 13		06
17 0115	04 72		06 26	024	2 59		7 13		06

77 11 0250

23 0000	04 72		04 10	363	0 34		8 03		06
	00 38		0 24	02 9					
23 0005	04 72		04 10		0 42				06
	00 56			02 8			8 07		
23 0010	04 68		04 10	363	0 43				06
	00 65		0 25	02 6			8 08		
23 0015	04 70		04 10		0 41				06
	00 42			01 5			8 07		
23 0020	04 68		04 10	363	0 40				06
	00 50		0 27	00 0			8 12		
23 0030	04 68		04 10	365	0 39				06
	00 62		0 28	00 0			8 09		
23 0040	04 68		04 10	363	0 40				06
	00 34			00 0			8 06		
23 0050	04 72		04 10	365	0 36				06
	00 63		0 27	01 8			8 06		
23 0060	04 81		04 10	363	0 39				06
	00 45			02 6			8 06		
23 0070	04 52		04 44	293	0 80				06
	02 09		0 23	00 5			7 70		
23 0080	04 17		05 21	125	2 20				06
	05 32			01 5			7 25		
23 0090	04 21		05 41	084	2 28				06
	05 55		0 12	00 6			7 21		
23 0100	04 16		05 43	083	2 46				06
	06 40		0 10	01 2			7 22		







Country	Ship	Station number	Latitude		Longitude		Year	Month	Day	Stat. time	Depth to bottom m								
			0:N+E	1:N+W	2:S+E	3:S+W													
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>		Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code										
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval/dm <sup>3</sup>												
77 11 0255		59 55	0 25	36	965	12 10	20 0062												
20 0000		02 93	03 08	381	0 66		06												
		02 10	0 15	04 2		7 91													
20 0005		02 92	03 08		0 66		06												
		01 61	0 14	02 8		7 92													
20 0010		02 93	03 07	382	0 66		06												
		03 51	0 14	03 1		7 92													
20 0015		03 13	03 09	380	0 66		06												
		02 70	0 12	02 6		7 92													
20 0020		03 72	03 14	369	0 56		06												
		02 40	0 10	01 4		7 93													
20 0030		03 86	03 29	344	0 74		06												
		03 09	0 13	02 2		7 77													
20 0040		04 34	03 60	291	1 11		06												
		03 48	0 12	02 3		7 56													
20 0050		04 75	04 44	168	1 80		06												
		04 80	0 12	01 0		7 24													
20 0060		04 55	04 81	119	2 29		06												
		04 98	0 12	01 9		7 14													
77 11 0256		60 09	0 26	20	965	12 10	23 0052												
23 0000		02 21	02 64	396	0 62		06												
		03 87	0 20	03 2		7 95	1290												
23 0005		02 20	02 63	396	0 63		06												
		05 18	0 19	02 5		7 95	1290												
23 0010		02 21	02 63	396	0 59		06												
		03 88	0 17	02 9		7 96	1290												
23 0015		02 21	02 63	395	0 64		06												
		04 10	0 15	03 5		8 07	1280												
23 0020		02 88	02 76	381	0 59		06												
		03 93	0 13	02 6		7 95	1320												
23 0030		03 47	02 87	404	0 63		06												
		04 62	0 13	05 1		7 89	1320												
23 0040		03 78	03 07	340	0 74		06												
		04 22	0 14	02 4		7 74	1390												
23 0044		03 94	03 25	309	0 93		06												
		03 38	0 17	02 6		7 64	1410												
77 11 0257		59 11	0 21	46	965	12 13	23 0122												
23 0000		04 54	04 11	364			06												
						8 01	1570												
23 0005		04 55	04 11		0 28		06												
						8 01	1550												
23 0010		04 56	04 11	363	0 23		06												
						8 05	1580												
23 0015		04 53	04 11		0 28		06												
						8 05	1590												

Country	Ship	Station number	Latitude		Longitude		Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E 1:N+W 2:S+E 3:S+W								

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		↓ Nitrate-N μg.-atoms/dm <sup>3</sup>	↓ Nitrite-N μg.-atoms/dm <sup>3</sup>	↓ Ammonium-N μg.-atoms/dm <sup>3</sup>	↓ Organic N μg.-atoms/dm <sup>3</sup>	↓ pH	↓ Alkalinity μval /dm <sup>3</sup>	

77 11 0257

23	0020	04 54	04 11	366	0 33			06
						8 05	1590	
23	0030	04 57	04 12	364	0 35			06
						8 03	1580	
23	0040	04 64	04 12	362	0 27			06
						8 04		
23	0050	04 66	04 12	362	0 38			06
						8 04	1600	
23	0060	04 68	04 12	364	0 21			06
						8 05	1550	
23	0070	04 69	04 12	362	0 25			06
						8 04	1520	
23	0080	04 68	04 14	360	0 48			06
						8 05	1590	
23	0090	04 59	04 36	313	0 57			06
						7 83	1600	
23	0100	04 28	05 43	094	2 04			06
						7 17	1650	
23	0110	04 39	05 91	031	2 46			06
						7 10	1670	

77 11 0258

03	0000	04 72	04 14	360	0 29			06
						7 96		
03	0005	04 68	04 14		0 31			06
						8 00		
03	0010	04 70	04 13	366	0 24			06
						8 00		
03	0015	04 71	04 13		0 23			06
						7 99		
03	0020	04 69	04 13	363	0 23			06
						8 04		
03	0030	04 70	04 13	364	0 25			06
						8 04		
03	0040	04 68	04 12	361	0 29			06
						7 98		
03	0050	04 86	04 20	344	0 35			06
						7 93		
03	0060	04 85	04 24	332	0 35			06
						7 86		
03	0070	04 54	04 47	276	0 68			06
						7 64		
03	0080	03 94	05 14	140	1 42			06
						7 25		
02	0090	03 90	05 23	119	1 57			06
						7 13		
02	0100	04 07	05 45	083	1 76			06
						7 11		

Country	Ship	Station number	Latitude			Longitude			Year	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W	0:E+W	1:W+W					

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval/dm <sup>3</sup>	

77 11 0258

02	0125	04 56	06 10	016Q	2 89			06
						7 03		
02	0150	04 61	06 16	015	2 95			06
						7 02		
02	0170	04 66	06 23	009	3 45			06
						7 04		

77 11 0259

58 53	0 20 19	965	12 14	06 0170				
06 0000	04 05	03 97	368	0 45 Q				06
					8 03	1570		
06 0005	04 03	03 97		0 29				06
					7 99	1540		
06 0010	04 03	03 97	370	0 32				06
					7 97	1550		
06 0015	04 00	03 97		0 29				06
					7 98	1590		
06 0020	04 06	03 98	368	0 31				06
					8 05	1560		
06 0030	04 25	04 03	366	0 32				06
					8 04	1590		
06 0040	04 27	04 03	366	0 28				06
					8 04	1570		
06 0050	03 55	04 54	245					06
					7 42	1590		
06 0060	03 57	05 18	117	1 92				06
					7 20	1660		
06 0070	04 17	05 74	038	2 59				06
					7 10	1710		
06 0080	04 37	05 90	019	2 83				06
					7 02	1700		
06 0090	04 43	05 97	018	2 87				06
					7 07	1720		
06 0100	04 51	06 03	020	2 71				06
					7 03	1720		
06 0125	04 65	06 20	020	2 65				06
					7 03	1730		
06 0150	04 77	06 32	018	2 71				06
					7 05	1750		
06 0160	04 79	06 34	020	2 77				06
					7 08	1740		

77 11 0260

58 47	0 19 06	965	12 14	11 0120				
11 0000	04 11	04 03	367	0 36				06
					8 02			
11 0005	04 15	04 03		0 38				06
					8 00			



Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W							

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 11 0260

11 0010	04 09	04 04	366	0 35		8 03		06
11 0015	04 12	04 04		0 36		8 05		06
11 0020	04 10	04 03	368	0 40		7 99		06
11 0030	04 13	04 03	368	0 33		7 99		06
11 0040	04 12	04 03	367	0 38		7 99		06
11 0050	04 14	04 03	342	0 35		7 98		06
11 0060	04 38	04 29	300	0 75		7 67		06
11 0070	03 88	05 09	141	1 87		7 21		06
11 0080	03 91	05 32	101	2 26		7 16		06
11 0090	04 10	05 59	066	2 55		7 10		06
11 0100	04 34	05 88	033	2 71		7 06		06

77 11 0261 58 35 0 18 15 965 12 14 16 0459

18 0000	04 06	03 91	369	0 60		7 98	1520	06
18 0005	00 83	0 27	00 6					
18 0005	03 99	03 91	368	0 57		7 97	1530	06
18 0010	01 35							
18 0010	04 02	03 91	368	0 53		7 97	1540	06
18 0015	01 55	0 32	01 3			7 97	1540	06
18 0015	04 00	03 91	369	0 50		7 98	1530	06
18 0020	00 85							
18 0020	04 16	03 93	364	0 57		7 97	1540	06
18 0030	01 18	0 32	00 1			7 97	1540	06
18 0030	04 25	03 93	367	0 50		7 97	1490	06
18 0040	01 48	0 27	02 2			7 96	1480	06
18 0040	04 49	03 96	355	0 53		7 96	1480	06
18 0050	00 71	0 29				7 92	1480	06
18 0050	04 57	04 03	348	0 54		7 87	1500	06
18 0060	01 20	0 32	01 0			7 65	1530	06
18 0060	04 56	04 06	345	0 60		7 35	1550	06
18 0070	01 58	0 27				7 11	1620	06
18 0070	04 74	04 24	292	0 83				
18 0080	01 24	0 23	01 9					
18 0080	03 94	04 64	212	1 38				
18 0090	02 32	0 18						
18 0090	04 13	05 61	054	2 43				
	04 34	0 14						

Country	Ship	Station number	Latitude °	0-N+E 1-N+W 2-S+E 3-S+W	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m
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Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval/dm <sup>3</sup>	

77 11 0261

16	0100	04 27	05 76	039	2 43			
		03 52	0 15	00 7		7 08	1620	06
16	0125	04 52	06 02	016	2 73			06
		04 37	0 20	00 0		7 04	1640	
16	0150	04 63	06 16	021	2 71			06
		05 92	0 18	00 0		7 07	1670	
16	0175	04 69	06 22	022	2 74			06
						7 07	1680	
16	0200	04 71	06 24	021	2 67			06
		04 92	0 23	00 0		7 05	1680	
16	0300	04 74	06 27	024	2 62			06
		06 35	0 20	00 4		7 03	1680	
16	0400	04 75	06 28	023	2 65			06
		04 75	0 20	00 0		7 10	1690	
16	0440	04 76	06 29	022	2 67			06
		05 20	0 20	03 2		7 08	1690	

77 11 0262

		58 00	0 18 00	965	12 14	22 0175		
22	0000	03 56	03 90	380	0 57			06
		00 44		02 1		8 00	1460	
22	0005	03 52	03 90	380	0 53			06
		00 47	0 23			7 99		
22	0010	03 53	03 91	376	0 41			06
		00 72	0 23			8 00		
22	0015	03 51	03 90	377	0 40			06
		00 65	0 20			7 99	1470	
22	0020	03 51	03 90	379	0 50			06
		00 87	0 20	02 3		7 99		
22	0030	03 51	03 91	378	0 41			06
		00 85	0 20			7 98		
22	0040	03 59	04 03	357	0 59			06
		00 57	0 20	02 4		7 88		
22	0050	03 59	04 90	163	1 92			06
		02 17	0 10			7 25		
22	0060	03 80	05 24	103	2 40			06
		03 31	0 09	00 9		7 14		
22	0070	04 06	05 59	049	2 65			06
		02 55	0 05			7 12		
22	0080	04 35	05 77	027	3 25			06
		03 23	0 09	02 7		7 04		
22	0090	04 40	05 87	013	3 30			06
		04 38	0 12			7 04		
22	0100	04 41	05 89	012	3 40			06
		03 09	0 13	03 5		7 04		
22	0125	04 44	05 90	010	3 35			06
		03 68	0 12	08 9		7 03		
22	0150	04 43	05 92	010	3 35			06
		04 96	0 09	00 9		7 03	1620	

Country	Ship	Station number	Latitude		Longitude		Year	Month	Day	Stat. time	Depth to bottom m	Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code		
			0:N+E 1:N+W 2:S+E 3:S+W	0 1 2 3	0 1 2 3	0 1 2 3								↓	↓	↓	↓	↓	↓			
														Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval/dm <sup>3</sup>			
														↓	↓	↓	↓	↓	↓			
77	11	0263	57	39	0	18	12	965	12	15	01	0097										
	01	0000	03	80		03	87	375	0	35								7	98		06	
	01	0005	03	76		03	87		0	33								8	03		06	
	01	0010	03	77		03	87	375	0	33								8	03		06	
	01	0015	03	72		03	85		0	39								8	05		06	
	01	0020	03	72		03	87	376	0	40								8	05		06	
	01	0030	03	75		03	87	376	0	44								8	02		06	
	01	0040	03	83		04	23	302	0	78								7	64		06	
	01	0050	03	41		04	79	183	1	59								7	26		06	
	01	0060	03	72		05	30	074	2	51								7	10		06	
	01	0070	04	00		05	52	040	2	89								7	08		06	
	01	0080	04	16		05	63	015	3	28								7	02		06	
	01	0090	04	14		05	64	016	3	35								7	02		06	
77	11	0264	57	40	0	17	56	965	12	15	02	0102										
	02	0000	03	72		03	87	375	0	45								7	98		06	
	02	0005	03	70		03	87		0	35								8	00		06	
	02	0010	03	83		03	89	373	0	38								7	99		06	
	02	0015	03	87		03	91		0	38								8	00		06	
	02	0020	03	95		03	92	370	0	48								8	00		06	
	02	0030	04	01		03	92	371	0	52								8	00		06	
	02	0040	04	03		03	92	368	0	41								7	99		06	
	02	0050	04	05		03	92	368	0	40								7	97		06	
	02	0060	04	31		04	20	298	0	75								7	65		06	
	02	0070	03	56		04	81	181	1	72								7	29		06	
	02	0080	03	85				098	2	40								7	14		06	





Country	Ship	Station number	Latitude			Longitude	Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E						
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code			
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>				

77 11 0266

06 0070	04 13	03 91	365	0 48				06
						8 00		
06 0080	04 22	04 02	328	0 71				06
						7 82		
06 0090	03 81	05 21	097	2 40				06
						7 17		
06 0100	04 21	05 69	030	3 00				06
						7 09		
06 0125	04 38	05 89	013	3 19				06
						7 05		

77 11 0267

57 45	0 17 06	965	12 15	07 0070				
07 0000	03 37	03 77	378	0 48				06
						8 05		
07 0005	03 37	03 78		0 41				06
						8 06		
07 0010	03 37	03 77	379	0 48				06
						8 06		
07 0015	03 38	03 77		0 50				06
						8 05		
07 0020	03 55	03 78	374	0 47				06
						8 03		
07 0030	03 57	03 78	376	0 47				06
						8 05		
07 0040	03 56	03 79	375	0 48				06
						8 05		
07 0050	03 62	03 79	374	0 47				06
						8 05		
07 0060	03 71	03 81	372	0 48				06
						8 04		

77 11 0268

57 46	0 16 50	965	12 15	09 0034				
09 0000	02 39	03 81	389	0 46				06
						8 00		
09 0005	02 39	03 82		0 47				06
						8 01		
09 0010	02 39	03 82	387	0 48				06
						8 00		
09 0015	02 64	03 86		0 48				06
						8 00		
09 0020	01 60	03 86	398	0 46				06
						8 02		
09 0030	01 64	03 86	400	0 45				06
						8 02		







Country	Ship	Station number	Latitude			Longitude			Year	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W							

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 11 0273

01	0015	03 32	04 06					06
						7 96		
01	0020	03 33	04 06					06
						7 94		
01	0030	03 40	04 06	360				06
						7 91		
01	0040	04 00	04 15	343				06
						7 88		
01	0050	05 19	04 46	352				06
						8 01		
01	0060	09 01	07 39	136				06
						7 40		

77 11 0274

05	0000	03 63	04 09	368				06
						7 96		
05	0005	03 60	04 09					06
						7 98		
05	0010	03 60	04 09	369				06
						7 99		
05	0015	03 59	04 09					06
						7 99		
05	0020	03 57	04 09					06
						8 00		
05	0030	03 59	04 09	364				06
						7 98		
05	0040	03 58	04 10	364				06
						7 98		
05	0050	04 50	04 26	332				06
						7 86		
05	0060	05 73	04 50	337				06
						7 97		
05	0070	08 38	08 03	148				06
						7 49		

77 11 0275

13	0000	04 32	04 83	370	0 30			06
						8 14		
13	0005	04 36	04 83	369	0 41			06
						8 13		
13	0010	04 36	04 84	368	0 35			06
						8 11		
13	0015	04 20	04 90	370	0 33			06
						8 12		
13	0020	04 14	05 05	368	0 36			06
						8 11		
13	0028	04 27	07 69	340	0 60			06
						8 05		





# **"Thetis"**

**Temperature and Salinity**







Country	Ship	Station number	Latitude		0:N+E 1:N+W 2:S+E 3:S+W	Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice	
			°	'		°	'									
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb		Wind Dir.   Speed kn.		Mixed layer depth m						
Obs. time	Obs. depth m	Temperature °C ↓			Salinity ‰ ↓	$\sigma_t$ ↓	ml/l ↓	Oxygen	Saturat. ‰ ↓	Salin. method	Extra info.	Card code				
77	13	0005														
	16	0005	03	88		29	036					3	3	03		
	16	0010	04	33		30	320			06	86	3	3	03		
	16	0015	04	68		31	106					3	3	03		
	16	0020	05	11		32	167					3	3	03		
	16	0030	05	39		33	020			06	40	3	3	03		
	16	0035	05	45		33	065			06	44	3	3	03		
77	13	0006	58	11	0	11	51	65	02	08	16	0	0	1	9	
		0024	01					36	16		008					
	16	0000	01	18		23	497			08	07	3	3	03		
	16	0005	01	21		23	487					3	3	03		
	16	0010	02	83		26	938					3	3	03		
	16	0015	04	17		29	958					3	3	03		
	16	0020	04	53		30	678			06	73	3	3	03		
77	13	0007	58	16	0	11	49	65	02	08	17	0	0	1	9	
		0028	-00	5				36	14		003					
	17	0000	01	32		23	232			08	08	3	3	03		
	17	0005	01	84		23	805					3	3	03		
	17	0010	04	04		28	635					3	3	03		
	17	0015	04	28		29	276					3	3	03		
	17	0020	04	46		30	284					3	3	03		
	17	0025	04	62		30	753			06	79	3	3	03		
77	13	0008	58	20	0	11	53	65	02	09	09	1	1	0	1	
		0049	-02					00	00		000					
	09	0000	00	53		21	200			07	37	3	3	03		
	09	0005	05	17		25	520			05	16	3	3	03		
	09	0010	05	71		27	059			05	32	3	3	03		
	09	0015	06	28		28	188			03	75	3	3	03		
	09	0020	07	21		30	276			00	00	3	3	03		
	09	0030	06	08		30	951			00	00	3	3	03		
	09	0040	05	90		30	993			00	00	3	3	03		
	09	0045	05	95		31	005			00	00	3	3	03		
77	13	0009	58	19	0	11	46	65	02	09	09	1	1	0	9	
		0041	-01					23	06		000					
	09	0000	00	94		23	641			07	97	3	3	03		
	09	0005	03	91		26	208					3	3	03		
	09	0010	05	57		28	254			05	66	3	3	03		
	09	0015	05	86		29	632					3	3	03		

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0	1	2	3	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		

77 13 0009

09 0020	06 57			30 422								3 3 03				
09 0030	08 10			31 639					01 77			3 3 03				
09 0038	07 46			31 895					00 50			3 3 03				

77 13 0010	58 17	0		11 41			65 02		09 10			1 2 0 9				
0063	01 5						25 10		000							

10 0000	00 26			22 374					08 20			3 3 03				
10 0005	02 08			23 260								3 3 03				
10 0010	03 68			24 865					06 71			3 3 03				
10 0015	04 50			26 092								3 3 03				
10 0020	04 79			26 803					06 07			3 3 03				
10 0030	06 45			28 929					00 00			3 3 03				
10 0040	06 44			28 971					00 00			3 3 03				
10 0050	06 24			29 045					00 00			3 3 03				
10 0055	06 23			29 081					00 00			3 3 03				

77 13 0011	58 15	0		11 38			65 02		09 11			2 8 1 9				
0057	02						23 20		000							

11 0000	01 37			22 744					07 94			3 3 03				
11 0005	03 06			23 632								3 3 03				
11 0010	04 71			25 139					05 86			3 3 03				
11 0015	04 75			26 071								3 3 03				
11 0020	05 25			26 860					05 05			3 3 03				
11 0030	06 43			28 905					00 00			3 3 03				
11 0040	06 35			28 949					00 00			3 3 03				
11 0050	06 38			28 981					00 00			3 3 03				

77 13 0012	58 14	0		11 35			65 02		09 12			2 7 1 9				
0043	03						23 22		008							

12 0000	01 33			22 791					07 89			3 3 03				
12 0005	01 40			22 813					07 78			3 3 03				
12 0010	05 50			25 582					05 94			3 3 03				
12 0015	06 17			26 279					04 84			3 3 03				
12 0020	06 94			27 601					00 57			3 3 03				
12 0025	06 62			28 750					00 00			3 3 03				
12 0030	06 44			28 925					00 00			3 3 03				
12 0035	06 36			28 947					00 00			3 3 03				
12 0040	06 41			28 958					00 00			3 3 03				

77 13 0013	58 19	0		11 33			65 02		10 08			2 7 0 9				
0119	03						00 00		000							

08 0000	03 25			29 401					07 16			3 3 03				
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Country	Ship	Station number	Latitude		D.N+E 1:N+W 2:S+E 3:S+W	Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			°	'		°	'								
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb		Wind Dir.   Speed kn.		Mixed layer depth m					
Obs. time	Obs. depth m	Temperature °C ↓			Salinity ‰ ↓	$\sigma_t$ ↓	ml/l ↓	Oxygen Saturat. % ↓	Salin. method	Extra info.	Card code				

77 13 0013

08 0005	04 19		30 506						3 3 03
08 0010	06 11		32 235			06 32			3 3 03
08 0015	06 87		33 309						3 3 03
08 0020	06 84		33 663						3 3 03
08 0030	06 28		34 200			06 43			3 3 03
08 0040	06 49		34 343						3 3 03
08 0050	06 51		34 459			06 13			3 3 03
08 0060	06 69		34 538						3 3 03
08 0070	06 61		34 609			05 69			3 3 03
08 0080	06 72		34 675						3 3 03
08 0090	06 63		34 762						3 3 03
08 0100	06 47		34 791			02 42			3 3 03
08 0110	06 45		34 810			01 88			3 3 03

77 13 0014 58 16 0 11 26 65 02 10 09 1 6 0 9  
0069 03 36 04 000

09 0000	04 08		31 170			07 11			3 3 03
09 0005	04 34		31 477						3 3 03
09 0010	04 97		31 842			06 76			3 3 03
09 0015	06 46		33 308						3 3 03
09 0020	06 18		33 955						3 3 03
09 0030	06 42		34 317			06 61			3 3 03
09 0040	06 50		34 435						3 3 03
09 0050	06 80		34 687			06 40			3 3 03
09 0060	06 83		34 743			06 37			3 3 03

77 13 0015 58 22 0 11 26 65 02 10 10 1 3 0 9  
0026 04 00 00 006

10 0000	03 31		30 375			07 38			3 3 03
10 0005	03 39		30 787						3 3 03
10 0010	04 21		31 412			07 11			3 3 03
10 0015	06 25		33 982						3 3 03
10 0020	06 64		34 664						3 3 03
10 0024	06 67		34 697			06 37			3 3 03

77 13 0016 58 19 0 11 22 65 02 10 11 1 2 1 9  
0035 04 36 08 000

11 0000	03 48		30 616			07 44			3 3 03
11 0005	03 91		31 388						3 3 03
11 0010	05 31		32 754			06 62			3 3 03
11 0015	05 96		33 747						3 3 03
11 0020	06 58		34 574						3 3 03
11 0030	06 76		34 771			06 43			3 3 03



Country	Ship	Station number	Latitude		D-N+E 1:N+W 2:S+E 3:S+W	Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			o	'		o	'								
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb		Wind Dir.   Speed kn.		Mixed layer depth m					
Obs. time	Obs. depth m	Temperature °C ↓			Salinity ‰ ↓	$\sigma_t$ ↓	ml/l	Oxygen ↓	Saturat. % ↓	Salin. method	Extra info.	Card code			
77 13	0017 0028	58 22 04	0	11 23	65 02 36 04	10	12	000	1	5	1	9			
12	0000	03 31		30 655		07	42		3	3	03				
12	0005	03 52		30 912					3	3	03				
12	0010	04 76		32 111		06	93		3	3	03				
12	0015	05 62		33 245					3	3	03				
12	0020	06 40		34 397					3	3	03				
12	0025	06 48		34 531		06	19		3	3	03				
77 13	0018 0052	58 20 05	0	11 10	65 02 32 10	10	13	006	1	3	2	9			
13	0000	04 62		32 781					3	4	03				
13	0005	04 76		32 797					3	4	03				
13	0010	05 53		33 550					3	4	03				
13	0015	06 67		34 589					3	4	03				
13	0020	06 76		34 672					3	4	03				
13	0030	06 83		34 747					3	4	03				
13	0040	06 91		34 798					3	4	03				
77 13	0019 0058	58 20 04	0	11 06	65 02 32 14	10	14	007	1	3	2	9			
14	0000	04 41		32 608					3	4	03				
14	0005	04 31		32 610					3	4	03				
14	0010	04 84		32 951					3	4	03				
14	0015	05 02		33 130					3	4	03				
14	0020	05 33		33 348					3	4	03				
14	0030	07 00		34 795					3	4	03				
14	0040	07 08		34 857					3	4	03				
14	0050	07 13		34 882					3	4	03				
77 13	0020 0090	58 20 04	0	11 02	65 02 32 10	10	16	012	1	3	2	9			
16	0000	04 52		32 789					3	4	03				
16	0005	04 55		32 782					3	4	03				
16	0010	04 59		32 779					3	4	03				
16	0015	04 72		32 869					3	4	03				
16	0020	04 76		32 938					3	4	03				
16	0030	05 92		33 862					3	4	03				
16	0040	06 53		34 454					3	4	03				
16	0050	06 88		34 497					3	4	03				
16	0060	07 09		34 927					3	4	03				
16	0070	07 13		34 937					3	4	03				
16	0080	07 12		35 074					3	4	03				
77 13	0021 0112	58 19 03 5	0	10 57	65 02 32 10	10	16	006	1	1	2	9			

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. %	Salin. method	Extra info.	Card code		

77 13 0021

16	0000	03	92	31	844							3	4	03
16	0005	03	96	31	846							3	4	03
16	0010	04	13	32	223							3	4	03
16	0015	04	38	32	427							3	4	03
16	0020	05	69	33	558							3	4	03
16	0030	06	68	34	435							3	4	03
16	0040	06	75	34	638							3	4	03
16	0050	07	17	34	781							3	4	03
16	0060	07	81	34	969							3	4	03
17	0070	07	57	34	939							3	4	03
17	0080	07	53	34	981							3	4	03
17	0090	07	29	34	976							3	4	03
17	0100	07	14	35	000							3	4	03

77	13	0022	58	18	0	10	51	65	02	10	18	1	5	2	9
		0137	03	5				29	10		006				

18	0000	03	14	30	405							3	4	03
18	0005	03	11	30	464							3	4	03
18	0010	03	76	31	419							3	4	03
18	0015	05	21	33	154							3	4	03
18	0020	06	18	34	053							3	4	03
18	0030	06	66	34	519							3	4	03
18	0040	06	80	34	631							3	4	03
18	0050	07	79	34	880							3	4	03
19	0060	07	98	34	978							3	4	03
19	0070	07	45	34	961							3	4	03
19	0080	06	87	34	868							3	4	03
19	0090	07	16	34	931							3	4	03
19	0100	07	13	34	928							3	4	03
19	0125	07	20	35	011							3	4	03

77	13	0023	58	16	0	10	44	65	02	10	20	1	6	2	9
		0210	03					29	12		000				

20	0000	03	59	31	451							3	4	03
20	0005	03	72	31	548							3	4	03
20	0010	03	79	31	955							3	4	03
20	0015	04	00	32	220							3	4	03
20	0020	05	74	33	547							3	4	03
20	0030	06	16	34	228							3	4	03
20	0040	06	56	34	438							3	4	03
20	0050	06	81	34	587							3	4	03
20	0060	06	98	34	678							3	4	03
20	0070	06	90	34	666							3	4	03
20	0080	07	29	34	798							3	4	03
20	0090	07	52	34	879							3	4	03

Country	Ship	Station number	Latitude		0-N+E 1-N+W 2-S+E 3-S+W	Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			°	'		°	'								
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb		Wind Dir.   Speed kn.		Mixed layer depth m					
Obs. time	Obs. depth m	Temperature °C ↓			Salinity ‰ ↓	$\sigma_t$ ↓	ml/l ↓	Oxygen ↓	Saturat. ‰ ↓	Salin. method	Extra info.	Card code			

77 13 0023

20	0100	07	32		34	894						3	4	03
20	0125	07	02		34	900						3	4	03
20	0150	07	80		35	131						3	4	03
20	0175	07	66		35	160						3	4	03
20	0200	07	54		35	152						3	4	03

77	13	0024	58	15	0	10	34	65	02	10	21	1	2	2	9
		0290	03					29	12		007				

22	0000	02	18		28	562						3	4	03
22	0005	02	41		28	827						3	4	03
22	0010	02	91		29	867						3	4	03
22	0015	05	07		33	458						3	4	03
22	0020	05	74		33	954						3	4	03
22	0030	06	05		34	165						3	4	03
22	0040	06	28		34	377						3	4	03
22	0050	06	45		34	500						3	4	03
22	0060	06	82		34	617						3	4	03
22	0070	07	20		34	782						3	4	03
21	0080	07	12		34	776						3	4	03
21	0090	07	69		34	927						3	4	03
21	0100	07	52		34	925						3	4	03
21	0125	07	30		34	922						3	4	03
21	0150	07	90		35	107						3	4	03
21	0175	07	69		35	135						3	4	03
21	0200	07	68		35	137						3	4	03
21	0250	07	59		35	136						3	4	03
21	0280	06	80		35	137						3	4	03

77	13	0025	58	16	0	10	11	65	02	11	00	1	1	2	9
		0485	03					27	10		012				

01	0000	02	34		29	330						3	4	03
01	0005	02	48		29	334						3	4	03
01	0010	02	74		29	628						3	4	03
01	0015	04	01		32	383						3	4	03
01	0020	04	39		33	034						3	4	03
01	0030	05	03		33	672						3	4	03
01	0040	06	08		34	164						3	4	03
00	0050	06	58		34	367						3	4	03
00	0060	07	08		34	636						3	4	03
00	0070	07	18		34	760						3	4	03
00	0080	07	06		34	823						3	4	03
00	0090	07	80		35	017						3	4	03
00	0100	07	55		34	996						3	4	03
00	0125	06	91		34	918						3	4	03
00	0150	06	86		34	926						3	4	03



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0	'	''	0	'	''								
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer depth m					
			Dry ↓	bulb		Wet ↓	bulb	Dir.	Speed kn.							
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			σ <sub>t</sub>	ml / l	Oxygen	Saturat. %	Salin. method	Extra info.	Card code		
			↓		↓		↓			↓						

77 13 0025

00	0175	07	22		35	021						3	4	03		
00	0200	07	17		35	071						3	4	03		
00	0250	07	06		35	119						3	4	03		
00	0300	06	69		35	173						3	4	03		
00	0400	05	78		35	153						3	4	03		
00	0470	05	45		35	139						3	4	03		

77	13	0026	57	48	0	10	42	65	02	11	13	2	7	2	9	
		0079	04	5				25	12		000					

13	0000	03	41		30	509						3	0	03		
13	0005	04	12		31	639						3	0	03		
13	0010	04	89		32	903						3	0	03		
13	0015	05	56		33	898						3	0	03		
13	0020	05	89		34	121						3	0	03		
13	0030	05	79		34	229						3	0	03		
13	0040	06	10		34	391						3	0	03		
13	0050	06	07		34	487						3	0	03		
13	0060	06	15		34	524						3	0	03		
13	0070	06	50		34	693						3	0	03		

77	13	0027	57	48	0	10	52	65	02	11	14	2	8	2	9	
		0057	04					27	12		004					

14	0000	02	71		28	216						3	4	03		
14	0005	03	05		28	839						3	4	03		
14	0010	04	17		31	426						3	4	03		
14	0015	04	99		33	428						3	4	03		
14	0020	05	87		34	093						3	4	03		
14	0030	05	96		34	340						3	4	03		
14	0040	05	99		34	345						3	4	03		
14	0050	06	02		34	350						3	4	03		

77	13	0028	57	50	0	11	04	65	02	11	15	4	8	2	9	
		0049	04					27	08		000					

15	0000	02	17		26	610						3	4	03		
15	0005	03	14		29	692						3	4	03		
15	0010	03	24		30	475						3	4	03		
15	0015	04	92		32	248						3	4	03		
15	0020	05	26		32	945						3	4	03		
15	0030	06	08		34	191						3	4	03		
15	0040	06	33		34	489						3	4	03		

77	13	0029	57	51	0	11	15	65	02	11	16	4	8	2	9	
		0065	03	5				26	08		011					



Country	Ship	Station number	Latitude			Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0	'	°	0	'								
		Depth to bottom m	Temperature °C			Temperature °C		-Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb		Dir.   Speed kn.							
		Obs. time	Obs. depth m	Temperature °C			Salinity ‰	$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code	
				↓			↓	↓	↓	↓	↓				

77 13 0032

17	0020	06	17		34	097						3	4	03
17	0030	06	52		34	583Q						3	4	03
17	0040	06	58		34	546						3	4	03
17	0050	06	68		34	630						3	4	03

77	13	0033	57	54	0	11	32	65	03	22	12	0	0	0	9
		0036	02	5				27	02		000				

12	0000	01	05		20	469						3	0	03
12	0005	02	03		26	424						3	0	03
12	0010	03	04		29	343						3	0	03
12	0015	03	91		31	675						3	0	03
12	0020	05	46		33	984						3	0	03
12	0030	05	55		34	617						3	0	03
12	0035	05	87		34	727						3	0	03

77	13	0034	57	53	0	11	25	65	03	22	13	0	0	0	9
		0060	03					32	02		000				

13	0000	01	44		22	804						3	4	03
13	0005	02	33		26	576						3	4	03
13	0010	04	02		32	159						3	4	03
13	0015	04	05		33	947						3	4	03
13	0020	04	01		34	161						3	4	03
13	0030	03	93		34	186						3	4	03
13	0040	04	02		34	204						3	4	03
13	0050	03	91		34	227						3	4	03

77	13	0035	57	52	0	11	21	65	03	22	13	0	0	0	9
		0064	03					32	02		000				

13	0000	02	08		22	686						3	0	03
13	0005	02	50		28	011						3	0	03
13	0010	04	16		33	943						3	0	03
13	0015	04	06		34	069						3	0	03
13	0020	03	95		34	203						3	0	03
13	0030	04	17		34	285						3	0	03
13	0040	04	06		34	338						3	0	03
13	0050	04	33		34	412						3	0	03
13	0060	04	33		34	376						3	0	03

77	13	0036	57	52	0	11	18	65	03	22	14	0	0	0	9
		0098	03					32	02		000				

14	0000	01	98		22	740						3	4	03
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Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		

77 13 0036

14	0005	03	56		32	241						3	4	03		
14	0010	04	37		33	797						3	4	03		
14	0015	04	49		34	014						3	4	03		
14	0020	04	78		34	168						3	4	03		
14	0030	04	74		34	489						3	4	03		
14	0040	04	32		34	452						3	4	03		
14	0050	04	04		34	448						3	4	03		
14	0060	04	10		34	450						3	4	03		
14	0070	04	11		34	462						3	4	03		
14	0080	04	04		34	458						3	4	03		
14	0090	03	95		34	452						3	4	03		

77 13 0037

	0076	57	51	0	11	15	65	03	22	15	000	0	0	1	9	
		03					32	02								
15	0000	03	27		28	275						3	0	03		
15	0005	03	68		32	808						3	0	03		
15	0010	04	13		33	470						3	0	03		
15	0015	04	62		34	150						3	0	03		
15	0020	04	81		34	325						3	0	03		
15	0030	03	56		34	354						3	0	03		
15	0040	03	58		34	350						3	0	03		
15	0050	03	58		34	354						3	0	03		
15	0060	03	59		34	348						3	0	03		
15	0070	03	70		34	387						3	0	03		

77 13 0038

	0048	57	50	0	11	04	65	03	22	16	018	0	0	1	9	
		03					27	06								
16	0000	03	96		33	243						3	4	03		
16	0005	03	52		33	369						3	4	03		
16	0010	03	56		33	804						3	4	03		
16	0015	03	34		34	086						3	4	03		
16	0020	02	77		34	140						3	4	03		
16	0030	03	06		34	236						3	4	03		
16	0040	02	97		34	248						3	4	03		
16	0045	03	01		34	254						3	4	03		

77 13 0039

	0055	57	48	0	10	52	65	03	22	17	000	0	0	2	9	
		03					27	10								
17	0000	03	12		26	744						3	4	03		
17	0005	04	73		32	777						3	4	03		
17	0010	04	78		33	971						3	4	03		
17	0015	04	49		33	975						3	4	03		
17	0020	04	14		33	938						3	4	03		

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.	depth m					
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		

77 13 0039

17	0030	03	38		33	975						3	4	03		
17	0040	03	12		34	021						3	4	03		
17	0050	02	99		34	173						3	4	03		

77	13	0040	57	48	0	10	42	65	03	22	18	0	0	2	9	
		0082	03					27	10		000					

18	0000	03	94		33	473						3	0	03		
18	0005	03	92		33	475						3	0	03		
18	0010	04	12		33	708						3	0	03		
18	0015	04	45		33	940						3	0	03		
18	0020	04	67		34	218						3	0	03		
18	0030	04	93		34	381						3	0	03		
18	0040	04	51		34	407						3	0	03		
18	0050	03	37		34	346						3	0	03		
18	0060	03	31		34	346						3	0	03		
18	0070	03	30		34	352						3	0	03		
18	0080	03	27		34	348						3	0	03		

77	13	0041	58	16	0	10	11	65	03	22	23	0	0	3	9	
		0450	02					32	14		000					

23	0000	01	81		27	202				08	56	3	4	03		
23	0005	02	75		32	416						3	4	03		
23	0010	02	84		32	575				08	57	3	4	03		
23	0015	02	79		32	596						3	4	03		
23	0020	03	23		32	853						3	4	03		
23	0030	05	54		34	049				06	84	3	4	03		
23	0040	06	48		34	408						3	4	03		
23	0050	06	81		34	614				06	67	3	4	03		
23	0060	07	08		34	791						3	4	03		
23	0070	07	34		34	922				06	28	3	4	03		
23	0080	07	46		34	976						3	4	03		
23	0090	07	46		35	025						3	4	03		
23	0100	07	24		35	016				06	13	3	4	03		
23	0125	07	03		35	059						3	4	03		
23	0150	07	04		35	098				06	22	3	4	03		
23	0175	06	98		35	147						3	4	03		
23	0200	06	78		35	141				06	14	3	4	03		
23	0250	06	62		35	179						3	4	03		
23	0300	06	32		35	180				06	04	3	4	03		
23	0400	05	63		35	153				05	78	3	4	03		

77	13	0042	58	15	0	10	34	65	03	23	01	0	0	2	9	
		0265	02					25	08		000					

01	0000	01	55		24	374						3	4	03		
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Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0	'	''	0	'	''								
Depth to bottom m			Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb			Wind Dir.   Speed kn.		Mixed layer depth m					
Obs. time	Obs. depth m	Temperature °C ↓			Salinity ‰ ↓			$\sigma_t$ ↓	ml/l ↓	Oxygen ↓	Saturat. ‰ ↓	Salin. method	Extra info.	Card code		

77 13 0044

04	0030	05	00		34	536						3	4	03		
04	0040	04	72		34	540						3	4	03		
04	0050	04	44		34	509						3	4	03		
04	0060	04	54		34	510						3	4	03		
04	0070	04	46		34	523						3	4	03		
04	0080	05	23		34	655						3	4	03		
04	0090	05	36		34	695						3	4	03		
04	0100	05	65		34	769						3	4	03		
04	0125	06	17		34	910						3	4	03		

77 13 0045 58 19 0 10 57 65 03 23 06 2 7 2 9  
0118 02 23 08 000

06	0000	01	46		23	936						3	4	03		
06	0005	03	91		32	918						3	4	03		
06	0010	04	56		33	967						3	4	03		
06	0015	04	59		34	095						3	4	03		
06	0020	04	93		34	460						3	4	03		
06	0030	05	01		34	556						3	4	03		
06	0040	05	05		34	562						3	4	03		
06	0050	05	05		34	578						3	4	03		
06	0060	04	88		34	560						3	4	03		
06	0070	04	40		34	515						3	4	03		
06	0080	04	72		34	550						3	4	03		
06	0090	05	15		34	640						3	4	03		
06	0100	05	72		34	769						3	4	03		
06	0110	05	81		34	821						3	4	03		

77 13 0046 58 20 0 11 02 65 03 23 07 1 6 2 9  
0077 02 23 12 004

07	0000	01	16		24	066						3	4	03		
07	0005	02	36		28	734						3	4	03		
07	0010	04	05		34	216						3	4	03		
07	0015	04	00		34	266						3	4	03		
07	0020	04	18		34	274						3	4	03		
07	0030	04	07		34	294						3	4	03		
07	0040	04	16		34	307						3	4	03		
07	0050	04	17		34	317						3	4	03		
07	0060	04	41		34	373						3	4	03		
07	0070	04	41		34	370						3	4	03		

77 13 0047 58 20 0 11 06 65 03 23 09 2 8 3 9  
0048 02 23 12 005

09 0000 01 28 24 054 3 4 03

Country	Ship	Station number	Latitude			Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			01	02	03	04	05								
		Depth to bottom m	Temperature °C			Temperature °C		-Wind Dir.   Speed kn.		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb									
Obs. time	Obs. depth m	Temperature °C			Salinity ‰	$\sigma_t$	ml/l	Oxygen	Saturat. %	Salin. method	Extra info.	Card code			

77 13 0047

09 0005	01 20	24 244	3 4 03
09 0010	04 25	33 847	3 4 03
09 0015	03 93	34 002	3 4 03
09 0020	04 35	34 154	3 4 03
09 0030	04 33	34 347	3 4 03
09 0040	04 38	34 360	3 4 03
09 0045	04 44	34 370	3 4 03

77 13 0048 58 20 0 11 10 65 03 23 09 2 8 3 9  
0049 02 20 16 004

09 0000	01 28	24 100	3 4 03
09 0005	01 78	26 060	3 4 03
09 0010	03 15	30 358	3 4 03
09 0015	04 10	33 215	3 4 03
09 0020	05 34	34 165	3 4 03
09 0030	05 38	34 443	3 4 03
09 0040	04 78	34 432	3 4 03
09 0045	05 51	34 570	3 4 03

77 13 0049 58 22 0 11 23 65 03 24 09 1 6 1 9  
0026 01 05 04 007

09 0000	01 18	23 796	3 3 03
09 0005	01 01	24 398	3 3 03
09 0010	01 64	29 202	08 25 3 3 03
09 0015	05 24	33 800	3 3 03
09 0020	05 67	34 156	3 3 03
09 0025	05 93	34 393	05 94 3 3 03

77 13 0050 58 19 0 11 22 65 03 24 09 1 6 1 9  
0034 01 02 06 007

09 0000	01 08	24 712	08 63 3 3 03
09 0005	01 16	24 765	3 3 03
09 0010	02 00	29 266	08 41 3 3 03
09 0015	04 62	33 202	3 3 03
09 0020	05 35	34 016	3 3 03
09 0025	05 75	34 317	3 3 03
09 0030	06 12	34 501	05 79 3 3 03

77 13 0051 58 22 0 11 26 65 03 24 10 1 5 1 9  
0025 01 02 04 008

10 0000 01 61 22 990 08 75 3 3 03

Country	Ship	Station number	Latitude		Longitude	Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice	
			0	'										
			Temperature °C		Temperature °C		-Wind							
			Depth to bottom m	Dry ↓ bulb	Wet ↓ bulb	Dir.	Speed kn.	Mixed layer depth m						
Obs. time	Obs. depth m	Temperature °C		Salinity ‰	$\sigma_t$	ml/l	Oxygen	Saturat. %	Salin. method	Extra info.	Card code			
77	13	0051												
	10	0005	01	60	24	439						3	3	03
	10	0010	03	11	31	372		07	47			3	3	03
	10	0015	04	92	33	414						3	3	03
	10	0023	05	72	34	279		05	43			3	3	03
77	13	0052	58	16	0	11 26	65	03	24	11		1	4	1 9
		0055	03				05	06		008				
	11	0000	01	38	21	379						3	3	03
	11	0005	01	06	24	906						3	3	03
	11	0010	02	68	30	433						3	3	03
	11	0015	05	03	33	395						3	3	03
	11	0020	05	31	33	777						3	3	03
	11	0030	05	69	34	254						3	3	03
	11	0040	05	78	34	328						3	3	03
	11	0050	05	82	34	378						3	3	03
77	13	0053	58	19	0	11 33	65	03	24	12		1	4	1 9
		0118	03				05	06		008				
	12	0000	02	22	10	925		08	17			3	3	03
	12	0005	00	98	24	636						3	3	03
	12	0010	02	44	30	532		07	61			3	3	03
	12	0015	05	50	33	613						3	3	03
	12	0020	05	69	33	984						3	3	03
	12	0030	05	86	34	246		06	09			3	3	03
	12	0040	06	14	34	399						3	3	03
	12	0050	06	31	34	495		05	79			3	3	03
	12	0060	06	59	34	557						3	3	03
	12	0070	06	24	34	543		05	34			3	3	03
	12	0080	06	33	34	600		05	07			3	3	03
	12	0090	06	52	34	676		03	93			3	3	03
	12	0100	06	57	34	723		02	99			3	3	03
	12	0110	06	57	34	753		02	11			3	3	03
77	13	0054	58	14	0	11 35	65	03	26	06		1	4	1 9
		0042	-01				36	08		011				
	06	0000	02	31	26	321		09	74			3	3	03
	06	0005	02	44	26	449		09	73			3	3	03
	06	0010	02	56	26	717		08	61			3	3	03
	06	0015	05	55	28	489		01	57			3	3	03
	06	0020	06	00	28	842		00	52			3	3	03
	06	0025	05	73	28	920		01	90			3	3	03
	06	0030	05	52	28	937		02	48			3	3	03
	06	0035	05	44	28	941		02	84			3	3	03



Country	Ship	Station number	Latitude		Longitude	Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			1:N+W	2:S+E									
		Depth to bottom m	Temperature °C Dry ↓ bulb		Temperature °C Wet ↓ bulb	-Wind Dir.   Speed kn.		Mixed layer depth m					
Obs. time	Obs. depth m	Temperature °C ↓		Salinity ‰ ↓	$\sigma_t$ ↓	ml/l	Oxygen Saturat. % ↓	Salin. method	Extra info.	Card code			
77	13	0054											
	06	0040	05	26	28	939		03	15		3	3	03
	06	0042			28	933		03	37		3	4	03
77	13	0055	58	15	0	11 38	65	03	26	07	1	1	9 9
		0055	-01				05	08		000			
	07	0000	01	92	24	406			10	22	3	3	03
	07	0005	02	31	25	942					3	3	03
	07	0010	02	80	26	858			08	31	3	3	03
	07	0015	04	93	28	273					3	3	03
	07	0020	05	71	28	778			01	78	3	3	03
	07	0030	05	40	28	901			02	87	3	3	03
	07	0040	05	19	28	922			03	36	3	3	03
	07	0050	04	87	28	931			04	08	3	3	03
77	13	0056	58	17	0	11 41	65	03	26	08	1	3	1 9
		0060	-01				05	08		000			
	08	0000	01	55	22	724			10	28	3	3	03
	08	0005	02	18	26	309					3	3	03
	08	0010	02	19	27	075			08	71	3	3	03
	08	0015	03	95	28	401					3	3	03
	08	0020	04	45	28	639			04	01	3	3	03
	08	0030	04	11	28	756			05	20	3	3	03
	08	0040	04	08	28	803			05	40	3	3	03
	08	0050	04	20	28	892			05	13	3	3	03
77	13	0057	58	19	0	11 46	65	03	26	09	1	1	1 9
		0043	00				05	10		009			
	09	0000	01	73	22	442			10	40	3	3	03
	09	0005	01	65	24	541					3	3	03
	09	0010	01	28	26	910			10	95	3	3	03
	09	0015	03	31	29	240					3	3	03
	09	0020	05	44	31	028			04	89	3	3	03
	09	0030	05	61	32	890			06	03	3	3	03
	09	0040	05	67	33	043			05	40	3	3	03
77	13	0058	58	20	0	11 53	65	03	26	10	1	1	1 9
		0047	00				05	10		008			
	10	0000	01	67	21	234			11	06	3	3	03
	10	0005	01	61	25	310			10	47	3	3	03
	10	0010	02	62	27	331			08	68	3	3	03
	10	0015	05	26	29	680			03	74	3	3	03

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		

77 13 0058

10	0020	05	97		30	189				00	53		3	3	03	
10	0030	06	09		30	915				00	00		3	3	03	
10	0040	05	98		30	962				00	00		3	3	03	
10	0045	05	94		30	974				00	00		3	3	03	

77 13 0059 58 16 0 11 49 65 03 26 10 1 6 1 9  
0027 03 07 08

10	0000	01	94		21	841				10	04		3	3	03	
10	0005	01	49		24	373							3	3	03	
10	0010	01	18		26	808							3	3	03	
10	0015	02	36		28	333							3	3	03	
10	0020	05	23		30	971							3	3	03	
10	0025	05	65		32	439				05	09		3	3	03	

77 13 0060 58 11 0 11 51 65 03 26 11 2 7 1 3  
0025 03 09 06 000

11	0000	01	99		21	440				09	71		3	3	03	
11	0005	01	42		25	015							3	3	03	
11	0010	01	18		26	827							3	3	03	
11	0015	02	52		28	536							3	3	03	
11	0020	04	12		31	060							3	3	03	
11	0023	04	34		31	723				06	36		3	3	03	

77 13 0061 58 08 0 11 50 65 03 26 12 2 7 1 9  
0037 03 05 06 006

12	0000	01	98		21	783				09	73		3	3	03	
12	0005	01	86		26	319							3	3	03	
12	0010	02	91		29	043							3	3	03	
12	0015	04	20		31	644							3	3	03	
12	0020	05	25		33	446							3	3	03	
12	0030	05	39		33	644				05	80		3	3	03	

77 13 0062 58 04 0 11 47 65 03 26 13 2 7 1 9  
0027 03 05 06 000

13	0000	02	17		20	587				09	44		3	3	03	
13	0005	01	26		24	948							3	3	03	
13	0010	02	16		27	330				08	49		3	3	03	
13	0015	04	29		31	833							3	3	03	
13	0020	05	53		33	798							3	3	03	
13	0025	05	79		34	181				05	76		3	3	03	

77 13 0063 57 59 0 11 46 65 03 26 13 2 8 1 9  
0031 03 05 08 006

Country	Ship	Station number	Latitude		0:N+E 1:N+W 2:S+E 3:S+W	Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			o	'		o	'								
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb		-Wind Dir.   Speed kn.				Mixed layer depth m			
Obs. time	Obs. depth m	Temperature °C ↓			Salinity ‰ ↓	$\sigma_t$ ↓	ml/l ↓	Oxygen Saturat. % ↓	Salin. method	Extra info.	Card code				

77 13 0063

13 0000	01 95		20 450				08 78				3 3 03
13 0005	01 26		25 289								3 3 03
13 0010	02 61		28 265								3 3 03
13 0015	05 02		33 197								3 3 03
13 0020	05 98		34 403								3 3 03
13 0025	06 15		34 618				05 86				3 3 03

77 13 0064	57 55	0	11 36		65 03		26 14		2 8 1 9
0061	03				14 08		006		

14 0000	01 61		21 233				08 71		3 3 03
14 0005	01 33		22 500						3 3 03
14 0010	02 06		26 705						3 3 03
14 0015	05 03		33 434						3 3 03
14 0020	05 60		34 317						3 3 03
14 0030	05 53		34 536						3 3 03
14 0040	05 91		34 656						3 3 03
14 0050	06 00		34 697				06 05		3 3 03

77 13 0065	57 54	0	11 32		65 03		26 15		2 8 1 9
0037	03				07 10		009		

15 0000	01 48		20 731						3 3 03
15 0005	01 48		23 300						3 3 03
15 0010	01 63		26 029						3 3 03
15 0015	04 73		33 226						3 3 03
15 0020	05 43		34 176						3 3 03
15 0030	05 23		34 444						3 3 03
15 0035	05 90		34 635						3 3 03

77 13 0066	57 21	0	12 02		65 03		29 16		4 9 9 9
0033	03				27 12		008		

16 0000	01 71		18 08						1 0 03
16 0010	00 91		18 505						3 0 03
16 0020	06 12		34 608						3 0 03
16 0030	06 30		34 777				05 66		3 0 03

77 13 0067	56 58	0	11 45		65 03		30 09		0 0 1 9
0100	04				35 13		009		

09 0000	02 64		22 139						3 0 03
09 0010	03 58		27 307						3 0 03
09 0020	05 71		34 060						3 0 03
09 0030	05 98		34 446				06 04		3 0 03





Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		
77	13	0071														
	14	0000	02	1											0	03
	14	0076	07	89		15	61			02	85			1	0	03
77	13	0072	55	30	0	16	17	65	04	01	16	0	0	1	9	
		0076	05					27	12		030					
	16	0000	02	35		07	97							1	0	03
	16	0010	02	33		07	93							1	0	03
	16	0020	02	21		07	93							1	0	03
	16	0030	02	17		07	93			09	43			1	0	03
	16	0040	01	60		08	08							1	0	03
	16	0050	01	63		08	15			09	07			1	0	03
	16	0060	04	23		10	89			06	76			1	0	03
	16	0070	07	63		15	56							1	0	03
	16	0072	07	92		16	14			02	81			1	0	03
77	13	0073	55	41	0	16	05	65	04	02	08	0	0	9	9	
		0071	06					36	10		040					
	08	0000	01	65		07	66							1	0	03
	08	0010	01	54		07	66							1	0	03
	08	0020	01	72		07	66							1	0	03
	08	0030	01	63		07	81			08	66			1	0	03
	08	0040	01	52		08	00							1	0	03
	08	0050	01	72		08	63			08	98			1	0	03
	08	0060	06	04		12	79			05	81			1	0	03
	08	0068	07	61		15	30			02	87			1	0	03
77	13	0074	55	45	0	15	54	65	04	02	12	0	0	9	9	
		0066	06					36	02		030					
	12	0000	02	00		07	69							1	0	03
	12	0009	01	90		07	70							1	0	03
	12	0019	01	80		07	73							1	0	03
	12	0029	01	72		07	74			09	45			1	0	03
	12	0039	01	57		08	03							1	0	03
	12	0049	01	64		08	16			09	02			1	0	03
	12	0059	03	90		11	00							1	0	03
	12	0064	06	70		13	89			04	12			1	0	03
77	13	0075	55	42	0	15	20	65	04	02	14	0	0	9	9	
		0066	06					36	02		000					
	14	0000	02	4		07	6							4	0	03
	14	0065	07	15		15	56			02	04			1	0	03

Country	Ship	Station number	Latitude		DN+E 1:N+W 2:S+E 3:S+W	Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			'	°		'	°								
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb		Wind Dir.   Speed kn.		Mixed layer depth m					
Obs. time	Obs. depth m	Temperature °C ↓			Salinity ‰ ↓	$\sigma_t$ ↓	ml/l ↓	Oxygen	Saturat. % ↓	Salin. method	Extra info.	Card code			
77 13	0076 0082	55 38 02	0	14 51	65 04 23 16	02	17	4 9 9 9							
	17 0000	02 25		07 8				4 0 03							
	17 0080	07 88		16 30		01 86		1 0 03							
77 13	0077 0074	55 33 05	0	14 48	65 04 00 00	05	08	4 9 9 9							
	08 0000	02 33		07 78				1 0 03							
	08 0010	02 30		07 85		09 62		1 0 03							
	08 0020	01 87		08 05				1 0 03							
	08 0030	01 83		08 14		09 24		1 0 03							
	08 0040	01 31		08 36				1 0 03							
	08 0050	01 98		09 27		08 48		1 0 03							
	08 0060	03 29		12 69		07 41		1 0 03							
	08 0070	07 19		15 70		02 57		1 0 03							
	08 0073	07 61		16 14		01 61		1 0 03							
77 13	0078 0088	55 31 05	0	15 05	65 04 00 00	05	11	0 0 9 9							
	11 0000	02 9						0 0 03							
	11 0086	07 93		16 47		01 53		1 0 03							
77 13	0079 0090	55 29 05	0	15 10	65 04 99 02	05	12	0 0 0 9							
	12 0000	02 59		07 99				1 0 03							
	12 0010	02 24		08 00				1 0 03							
	12 0020	02 23		08 02				1 0 03							
	12 0030	01 45		08 17		08 90		1 0 03							
	12 0040	01 42		08 36				1 0 03							
	12 0050	01 41		08 81		08 84		1 0 03							
	12 0060	02 92		11 15				1 0 03							
	12 0070	06 21		15 39		04 24		1 0 03							
	12 0080	07 97		16 59				1 0 03							
	12 0085	07 92		16 61		01 50		1 0 03							
77 13	0080 0070	55 27 07	0	14 39	65 04 20 10	06	07	0 0 9 9							
	07 0000	02 76		07 80				1 0 03							
	07 0010	02 65		07 82				1 0 03							
	07 0020	02 24		07 91				1 0 03							
	07 0030	01 77		08 03		09 15		1 0 03							
	07 0040	01 39		08 29				1 0 03							



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰	$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code				
77	13	0080														
	07	0050	01	32		08	59			08	96		1	0	03	
	07	0060	02	61		11	74			07	92		1	0	03	
	07	0068	04	39		15	12			05	37		1	0	03	
77	13	0081	55	27	0	14	50	65	04	06	10		0	0	9	9
		0072	07					20	10		010					
	10	0070	05	73		15	00			04	11		1	0	03	
77	13	0082	55	00	0	14	05	65	04	06	20		2	8	9	9
		0047	04					18	04		015					
	20	0000	02	69		08	18						1	0	03	
	20	0010	02	53		08	22						1	0	03	
	20	0020	01	84		08	33						1	0	03	
	20	0030	01	36		08	66			08	83		1	0	03	
	20	0040	01	29		12	52			08	65		1	0	03	
	20	0045	01	34		14	53			09	59		1	0	03	
77	13	0083	55	13	0	13	43	65	04	07	08		2	8	1	9
		0044	03					07	20		023					
	08	0000	02	42		08	27						1	0	03	
	08	0010	02	44		08	28						1	0	03	
	08	0020	02	42		08	29						1	0	03	
	08	0030	01	32		08	66			08	93		1	0	03	
	08	0040	01	39		09	20			08	78		1	0	03	
77	13	0084	55	13	0	13	15	65	04	08	13		2	7	1	9
		0041	04					07	30		018					
	13	0000	02	41		08	00						1	0	03	
	13	0008	02	47		08	00						1	0	03	
	13	0018	02	52		08	00						1	0	03	
	13	0028	01	25		08	36						1	0	03	
	13	0038	01	65		08	66						1	0	03	
77	13	0085	54	55	0	13	16	65	04	09	14		2	8	2	9
		0048	01	5				09	24		022					
	14	0000	01	90		08	10						1	0	03	
	14	0010	01	82		08	16						1	0	03	
	14	0020	01	84		08	16						1	0	03	
	14	0030	01	11		08	65						1	0	03	

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. %	Salin. method	Extra info.	Card code		
			↓		↓		↓	↓	↓	↓	↓					
77	13	0085														
	14	0040	01	06	08	78				08	84		1	0	03	
	14	0045	01	17	09	17				08	68		1	0	03	
77	13	1085	58	16	0	11	22		65	06	23	15	0	0	2	0
									23	08						
	15	0000	15	22		25	184						3	0	03	
	15	0005	14	64		26	991						3	0	03	
	15	0010	14	12		28	428						3	0	03	
	15	0015	13	85		30	245						3	0	03	
	15	0020	13	30		31	077						3	0	03	
	15	0025	12	76		31	513						3	0	03	
	15	0030	11	92		32	024						3	0	03	
	15	0035	07	10		33	169						3	0	03	
	15	0040	06	76		33	362						3	0	03	
77	13	2085	58	16	0	11	26		65	06	23	15	0	0	1	0
									23	08						
	15	0000	15	59		23	281						3	0	03	
	15	0005	14	98		24	786						3	0	03	
	15	0015	13	14		30	292						3	0	03	
	15	0020	10	61		31	994						3	0	03	
	15	0025	07	24		32	478						3	0	03	
	15	0030	05	88		32	817						3	0	03	
	15	0035	05	84		33	209						3	0	03	
	15	0040	05	67		33	343						3	0	03	
	15	0045	05	91		33	538						3	0	03	
77	13	0086	57	55	0	11	36		65	06	28	13	2	8	4	9
		0063	12						25	30		009				
	13	0000	15	22		22	045						3	3	03	
	13	0005	15	20		22	039						3	3	03	
	13	0010	14	22		27	638			05	68		3	3	03	
	13	0015	13	93		29	821						3	3	03	
	13	0020	13	51		30	769						3	3	03	
	13	0030	10	49		32	058			05	69		3	3	03	
	13	0040	07	43		33	691			05	47		3	3	03	
	13	0050				33	876			05	45		3	4	03	
77	13	0087	57	59	0	11	46		65	06	28	14	2	8	2	9
		0028	12						25	30		013				
	14	0000	15	58		20	834			06	11		3	3	03	

Country	Ship	Station number	Latitude		ON+E 1:N+W 2:S+E 3:S+W	Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			°	'		°	'								
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb		-Wind Dir.   Speed kn.		Mixed layer depth m					
Obs. time	Obs. depth m	Temperature °C ↓			Salinity ‰ ↓	$\sigma_t$ ↓	ml/l	Oxygen ↓	Saturat. % ↓	Salin. method	Extra info.	Card code			

77 13 0087

14	0005	15	52		20	869						3	3	03
14	0010	15	57		20	972		06	14			3	3	03
14	0015	10	99		27	737						3	3	03
14	0020	10	32		30	296						3	3	03
14	0025	08	26		31	249		04	80			3	3	03

77	13	0088	58	04	0	11	47	65	06	28	15	2	8	2	9
		0028	12					25	24		012				

15	0000	15	73		21	016		06	17			3	3	03
15	0005	15	62		21	033						3	3	03
15	0010	15	62		21	057		06	12			3	3	03
15	0015	12	04		25	200		05	04			3	3	03
15	0020	09	27		28	764		04	60			3	3	03
15	0025	08	61		30	073		04	55			3	3	03

77	13	0089	58	08	0	11	50	65	06	28	16	2	8	1	9
		0037	12					25	20		014				

16	0000	15	68		21	312		06	17			3	3	03
16	0005	15	59		21	308						3	3	03
16	0010	15	60		21	367		06	11			3	3	03
16	0015	15	22		21	738						3	3	03
16	0020	08	38		28	714						3	3	03
16	0030	07	65		29	557		04	00			3	3	03

77	13	0090	58	11	0	11	51	65	06	28	16	2	8	1	9
		0024	12					25	16		012				

16	0000	15	35		21	789		06	08			3	3	03
16	0005	15	37		21	786						3	3	03
16	0010	15	40		21	941		06	06			3	3	03
16	0015	09	31		26	447						3	3	03
16	0020	05	65		31	126		03	38			3	3	03

77	13	0091	58	16	0	11	49	65	06	28	17	2	8	1	9
		0029	13					25	22		011				

17	0000	15	83		22	314		06	06			3	3	03
17	0005	15	73		22	315						3	3	03
17	0010	15	71		22	332		06	24			3	3	03
17	0015	06	78		28	484						3	3	03
17	0020	05	18		31	464						3	3	03
17	0025	05	30		32	212		03	34			3	3	03

77	13	0092	58	20	0	11	53	65	06	29	09	1	5	1	9
		0048	17					32	08		007				



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0	'	''	0	'	''								
			Temperature °C			Temperature °C			Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	Oxygen		Saturat. ‰	Salin. method	Extra info.	Card code		
		↓			↓			↓	ml/l		↓					

77 13 0092

09	0000	15	64		19	637		06	09			3	3	03		
09	0005	15	59		20	794		05	36			3	3	03		
09	0010	12	49		22	567		04	95			3	3	03		
09	0015	05	12		29	485		00	23			3	3	03		
09	0020	05	99		30	186		00	00			3	3	03		
09	0030	06	10		30	868		00	00			3	3	03		
09	0040	05	99		30	928		00	00			3	3	03		
09	0045	06	01		30	927		00	00			3	3	03		

77	13	0093	58	19	0	11	46	65	06	29	10	1	4	1	9	
		0041	17					32	08		010					

10	0000	15	81		22	104		06	12			3	3	03		
10	0005	15	77		22	112						3	3	03		
10	0010	15	62		22	151		06	12			3	3	03		
10	0015	05	27		27	922		03	84			3	3	03		
10	0020	05	05		31	278		03	23			3	3	03		
10	0030	05	36		32	512		03	53			3	3	03		
10	0038	05	58		32	793		01	07			3	3	03		

77	13	0094	58	17	0	11	41	65	06	29	10	1	4	1	9	
		0060	17					29	06		009					

10	0000	15	79		22	015		06	21			3	3	03		
10	0005	15	47		22	096						3	3	03		
10	0010	15	27		22	284		05	93			3	3	03		
10	0015	04	68		28	154						3	3	03		
10	0020	04	92		28	579		01	16			3	3	03		
10	0030	04	98		28	776		01	49Q			3	3	03		
10	0040	04	96		28	810		01	75			3	3	03		
10	0050	04	82		28	827		02	13			3	3	03		

77	13	0095	58	15	0	11	38	65	06	29	11	1	6	1	9	
		0064	18					29	08		008					

11	0000	15	60		22	126		06	20			3	3	03		
11	0005	15	27		22	135						3	3	03		
11	0010	12	73		23	158		05	54			3	3	03		
11	0015	04	82		27	887						3	3	03		
11	0020	05	00		28	465		00	88			3	3	03		
11	0030	05	00		28	777		01	19			3	3	03		
11	0040	04	99		28	792		01	28			3	3	03		
11	0050	04	98		28	808		01	41			3	3	03		

77	13	0096	58	14	0	11	35	65	06	29	12	2	7	1	9	
		0041	18					29	10		007					

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature ↓ °C			Salinity ‰	$\sigma_t$	ml/l Oxygen		Saturat. ‰	Salin. method	Extra info.	Card code				

77 13 0096

12 0000	15 07			22 253			06 34			3 3 03
12 0005	14 89			22 194			06 20			3 3 03
12 0010	12 84			23 047			06 02			3 3 03
12 0015	05 44			27 416			01 48			3 3 03
12 0020	05 25			28 472			00 33			3 3 03
12 0025	05 27			28 744			00 53			3 3 03
12 0030	05 21			28 760			00 71			3 3 03
12 0035	05 15			28 817			00 85			3 3 03
12 0040	05 11			28 817			00 93			3 3 03

77 13 0097 58 22 0 11 26 65 06 30 07 6 8 1 9  
0026 13 25 10 004

07 0000	15 40			24 002			06 05			3 3 03
07 0005	15 00			26 036						3 3 03
07 0010	14 46			26 933			05 67			3 3 03
07 0015	12 79			30 451						3 3 03
07 0020	12 43			30 451						3 3 03
07 0024	12 04			30 974			05 49			3 3 03

77 13 0098 58 19 0 11 22 65 06 30 08 6 8 2 9  
0033 13 27 14 006

08 0000	14 84			25 708			06 19			3 3 03
08 0005	14 87			25 698						3 3 03
08 0010	13 41			30 533			06 00			3 3 03
08 0015	13 09			30 979						3 3 03
08 0020	12 87			31 380			05 87			3 3 03
08 0025	12 59			31 609						3 3 03
08 0030	12 30			31 664			05 78			3 3 03

77 13 0099 58 22 0 11 23 65 06 30 09 6 8 1 9  
0023 12 27 08 002

09 0000	15 53			23 511			06 14			3 3 03
09 0005	14 81			26 463						3 3 03
09 0010	12 91			30 279			05 80			3 3 03
09 0015	12 25			30 915						3 3 03
09 0020	11 47			31 060			05 28			3 3 03

77 13 0100 58 16 0 11 22 65 06 30 11 2 8 3 9  
0048 12 27 10 004

11 0000	14 83			24 617			05 99			3 3 03
11 0005	14 30			27 803						3 3 03

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0	'	''	0	'	''								
		Depth to bottom m	Temperature °C			Temperature °C			Wind			Mixed layer depth m				
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
		Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. %	Salin. method	Extra info.	Card code
				↓			↓			↓	↓	↓	↓			

77 13 0100

11	0010	13 38		31 209		05 99						3 3 03
11	0015	13 44		31 451								3 3 03
11	0020	13 13		31 604		05 95						3 3 03
11	0025	12 75		31 747								3 3 03
11	0030	12 18		31 944		05 83						3 3 03
11	0035	11 63		32 042								3 3 03
11	0040	07 48		33 143		05 22						3 3 03

77 13 0101  
0060

		58 16	0	11 26		65 06		30	12			2 8 2 9
		13				27 08			003			
12	0000	15 35		22 123		06 16						3 3 03
12	0005	14 63		26 038								3 3 03
12	0010	13 71		29 006		05 85						3 3 03
12	0015	13 28		30 588								3 3 03
12	0020	13 30		30 783		05 85						3 3 03
12	0030	10 71		32 044		05 58						3 3 03
12	0040	05 70		33 382		05 04						3 3 03
12	0050	06 04		34 031		04 91						3 3 03

77 13 0102  
0118

		58 19	0	11 33		65 06		30	13			2 8 1 9
		13				27 06			000			
13	0000	15 47		17 085		06 59						3 3 03
13	0005	14 73		25 039								3 3 03
13	0010	13 28		28 666		05 69						3 3 03
13	0015	13 16		29 884								3 3 03
13	0020	12 77		30 958		05 80						3 3 03
13	0030	09 68		31 683		05 68						3 3 03
13	0040	05 77		32 769		05 10						3 3 03
13	0050	05 95		33 980		05 04						3 3 03
13	0060	06 30		34 406		04 12						3 3 03
13	0070	06 23		34 474		03 78						3 3 03
13	0080	06 37		34 529		03 66						3 3 03
13	0090	06 37		34 555		03 59						3 3 03
13	0100	06 40		34 583		03 27						3 3 03
13	0110	06 44		34 610		02 86						3 3 03

77 13 0103  
0069

		58 24	0	11 38		65 06		30	14			2 8 1 9
		13				32 02			002			
14	0000	15 47		09 649		06 71						3 3 03
14	0005	14 95		23 243								3 3 03
14	0010	13 75		26 287		05 57						3 3 03
14	0015	12 74		30 030								3 3 03
14	0020	12 28		30 720		05 81						3 3 03



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0	1.N+W 2.S+E 3.S+W	'	''	0	'								
		Depth to bottom m	Temperature °C Dry ↓ bulb		Temperature °C Wet ↓ bulb		-Wind Dir.   Speed kn.		Mixed layer depth m							
Obs. time	Obs. depth m	Temperature °C ↓		Salinity ‰ ↓	$\sigma_t$ ↓	ml/l ↓	Oxygen Saturat. ‰ ↓	Salin. method	Extra info.	Card code						

77 13 0103

14	0030	10	06		31	322	05	77				3	3	03		
14	0040	05	73		33	149	04	27				3	3	03		
14	0050	05	90		33	996	04	77				3	3	03		
14	0060	06	28		34	434	03	73				3	3	03		

77	13	0104	58	24	0	11	38	65	06	30	14	2	8	1	9	
		0058	13					27	04		000					

14	0000	15	69		09	703	06	75				3	3	03		
14	0005	14	81		24	670						3	3	03		
14	0010	13	26		27	560	05	55				3	3	03		
14	0015	12	46		30	409						3	3	03		
14	0020	12	64		30	835	05	76				3	3	03		
14	0030	10	13		31	201	05	88				3	3	03		
14	0040	05	64		33	109	03	96				3	3	03		
14	0050	05	84		33	910	04	18				3	3	03		
14	0055	05	90		34	048	04	14				3	3	03		

77	13	0105	58	25	0	11	39	65	06	30	15	2	8	1	9	
		0038	13					23	04		000					

15	0000	15	24		01	2	06	61				4	3	03		
15	0005	14	71		24	901						3	3	03		
15	0010	13	22		27	581	05	68				3	3	03		
15	0015	12	17		30	221						3	3	03		
15	0020	11	74		30	687	05	84				3	3	03		
15	0030	09	65		30	941	05	74				3	3	03		
15	0035	07	03		31	557	04	21				3	3	03		

77	13	0106	58	26	0	11	41	65	06	30	15	2	8	1	9	
		0028	14					23	06		000					

15	0000	15	42		01	4	06	68				4	3	03		
15	0005	14	81		24	221	04	96				3	3	03		
15	0010	13	17		26	193	05	61				3	3	03		
15	0015	11	96		30	185	05	77				3	3	03		
15	0020	11	55		30	631	05	83				3	3	03		
15	0025	11	19		30	752	05	48				3	3	03		

77	13	0107	58	26	0	11	42	65	06	30	15	2	8	1	9	
		0010	14					27	12		000					

15	0000	15	40		00	9	06	77				4	3	03		
15	0003	15	67		20	927	05	59				3	3	03		
15	0008	12	28		27	884	04	93				3	3	03		



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0-N+E	1-N+W	2-S+E	3-S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			-Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. %	Salin. method	Extra info.	Card code		

77 13 0111

12	0050	08	76		34	619						3	4	03		
12	0060	08	46		34	699						3	4	03		
12	0070	08	00		34	740						3	4	03		
12	0080	07	80		34	803						3	4	03		
12	0090	07	50		34	843						3	4	03		
12	0100	07	42		34	944						3	4	03		

77	13	0112	58	18	0	10	51	65	07	01	13	1	1	3	9	
		0136	13					25	14		006					

13	0000	13	37		29	198						3	4	03		
13	0005	13	34		29	195						3	4	03		
13	0010	13	03		29	215						3	4	03		
13	0015	12	19		30	720						3	4	03		
13	0020	10	40		34	163						3	4	03		
13	0030	08	81		34	666						3	4	03		
13	0040	08	08		34	821						3	4	03		
13	0050	07	55		35	031						3	4	03		
13	0060	07	37		35	071						3	4	03		
13	0070	06	65		35	030						3	4	03		
13	0080	06	82		35	078						3	4	03		
13	0090	06	64		35	088						3	4	03		
13	0100	06	57		35	088						3	4	03		
13	0125	06	54		35	124						3	4	03		

77	13	0113	58	16	0	10	44	65	07	01	14	1	2	3	9	
		0200	14					25	14		009					

15	0000	13	81		28	287						3	4	03		
15	0005	13	74		28	298						3	4	03		
15	0010	13	24		28	760						3	4	03		
15	0015	10	54		32	875						3	4	03		
15	0020	08	79		34	730						3	4	03		
15	0030	07	35		34	908						3	4	03		
15	0040	07	38		35	016						3	4	03		
15	0050	06	94		35	040						3	4	03		
15	0060	06	82		35	064						3	4	03		
15	0070	06	71		35	097						3	4	03		
14	0080	06	72		35	118						3	4	03		
14	0090	06	67		35	129						3	4	03		
14	0100	06	51		35	135						3	4	03		
14	0125	06	50		35	148						3	4	03		
14	0150	06	45		35	140						3	4	03		
14	0175	06	46		35	147						3	4	03		
14	0190	06	46		35	152						3	4	03		

77	13	0114	58	15	0	10	34	65	07	01	16	1	6	3	9	
		0293	15					23	12		009					



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0	1	2	3	0	1								
			Temperature °C Dry ↓ bulb	Temperature °C Wet ↓ bulb			-Wind Dir.   Speed kn.		Mixed layer depth m							
Obs. time	Obs. depth m	Temperature °C	Salinity ‰			$\sigma_t$	ml / l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code				

77 13 0114

16	0000	13 92			27 747							3 4 03
16	0005	13 94			27 743							3 4 03
16	0010	12 93			28 861							3 4 03
16	0015	07 39			34 059							3 4 03
16	0020	06 23			34 347							3 4 03
16	0030	05 62			34 569							3 4 03
16	0040	05 91			34 737							3 4 03
16	0050	06 29			34 887							3 4 03
16	0060	06 76			35 028							3 4 03
16	0070	06 74			35 061							3 4 03
16	0080	06 72			35 063							3 4 03
16	0090	06 75			35 121							3 4 03
16	0100	06 61			35 154							3 4 03
16	0125	06 59			35 165							3 4 03
16	0150	06 48			35 170							3 4 03
16	0175	06 53			35 177							3 4 03
16	0200	06 50			35 189							3 4 03
16	0250	06 45			35 188							3 4 03
16	0275	06 26			35 184							3 4 03

77 13 0115 58 16 0 10 11 65 07 01 18 1 5 3 9  
0440 15 25 16 009

19	0000	13 96			27 539			06 42				3 4 03
19	0005	13 95			27 549			06 21				3 4 03
19	0010	07 70			32 499			07 47				3 4 03
19	0015	05 73			34 244			07 00				3 4 03
19	0020	05 85			34 371			06 71				3 4 03
19	0030	05 48			34 547			06 60				3 4 03
19	0040	05 44			34 646			06 55				3 4 03
19	0050	05 91			34 772			06 38				3 4 03
19	0060	06 20			34 886			06 25				3 4 03
19	0070	06 44			34 984			06 06				3 4 03
18	0080	06 46			35 010							3 4 03
18	0090	06 47			35 035							3 4 03
18	0100	06 35			35 041			06 31				3 4 03
18	0125	06 30			35 085							3 4 03
18	0150	06 43			35 134			06 38				3 4 03
18	0200	06 28			35 153			06 32				3 4 03
18	0250	06 36			35 181			06 22				3 4 03
18	0300	06 32			35 195			06 22				3 4 03
18	0350	06 25			35 195			06 32				3 4 03
18	0400	06 00			35 181			06 09				3 4 03

77 13 0116 57 48 0 10 42 65 07 01 23 2 8 4 9  
0079 11 27 24 030

23 0000 12 43 32 170 3 4 03

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0-N+E	1-N+W	2-S+E	3-S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		

77 13 0116

23	0005	12	39		32	165						3	4	03		
23	0010	12	43		32	167						3	4	03		
23	0015	12	39		32	179						3	4	03		
23	0020	12	42		32	210						3	4	03		
23	0030	12	57		32	365						3	4	03		
23	0040	12	80		32	742						3	4	03		
23	0050	12	53		32	842						3	4	03		
23	0060	11	05		33	651						3	4	03		
23	0070	08	50		34	701						3	4	03		

77	13	0117	57	48	0	10	52	65	07	01	24	2	8	4	9	
		0059	11					27	28		021					

24	0000	13	68		32	025						3	4	03		
24	0005	13	59		32	019						3	4	03		
24	0010	13	74		32	021						3	4	03		
24	0015	13	62		32	029						3	4	03		
24	0020	13	61		32	052						3	4	03		
24	0030	13	03		32	287						3	4	03		
24	0040	12	85		32	346						3	4	03		
24	0050	12	82		32	633						3	4	03		

77	13	0118	57	50	0	11	04	65	07	02	01	2	7	5	9	
		0047	11					27	26		040+					

01	0000	12	83		32	160						3	4	03		
01	0005	12	93		32	160						3	4	03		
01	0010	12	83		32	163						3	4	03		
01	0015	12	86		32	164						3	4	03		
01	0020	12	82		32	168						3	4	03		
01	0030	12	79		32	174						3	4	03		
01	0040	12	79		32	352						3	4	03		

77	13	0119	57	51	0	11	15	65	07	02	02	1	6	5	9	
		0068	11					27	30		048					

02	0000	13	12		32	137						3	4	03		
02	0005	13	12		32	138						3	4	03		
02	0010	13	07		32	137						3	4	03		
02	0015	13	22		32	138						3	4	03		
02	0020	13	13		32	158						3	4	03		
02	0030	13	20		32	182						3	4	03		
02	0040	13	17		32	232						3	4	03		
02	0050	13	02		32	450						3	4	03		
02	0060	12	13		32	783						3	4	03		

77	13	0120	57	52	0	11	18	65	07	02	02	2	7	5	9	
		0097	11					27	26		047					

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0	1	2	3	0	1								
Depth to bottom m			Temperature °C			Temperature °C			-Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.   Speed kn.							
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml / l	Oxygen	Saturat. ‰	Salin. method	Extra info.	Card code		
		↓			↓			↓	↓	↓	↓	↓	↓	↓		

77 13 0120

03	0000	13	11		32	162						3	4	03		
03	0005	13	23		32	157						3	4	03		
03	0010	13	13		32	161						3	4	03		
03	0015	13	17		32	162						3	4	03		
03	0020	13	14		32	164						3	4	03		
03	0030	13	14		32	303						3	4	03		
03	0040	13	04		32	487						3	4	03		
02	0050	12	92		32	604						3	4	03		
02	0060	10	93		32	755						3	4	03		
02	0070	06	72		33	916						3	4	03		
02	0080	06	32		34	003						3	4	03		
02	0090	06	26		34	083						3	4	03		

77 13 0121 57 52 0 11 21 65 07 02 03 2 8 5 9  
0063 11 27 24 029

03	0000	13	26		32	186						3	4	03		
03	0005	13	21		32	182						3	4	03		
03	0010	13	32		32	182						3	4	03		
03	0015	13	22		32	190						3	4	03		
03	0020	13	21		32	257						3	4	03		
03	0030	12	98		32	424						3	4	03		
03	0040	12	92		32	604						3	4	03		
03	0050	08	54		33	340						3	4	03		

77 13 0122 57 53 0 11 25 65 07 02 04 2 8 5 9  
0061 11 27 24 013

04	0000	12	57		31	556						3	4	03		
04	0005	12	55		31	549						3	4	03		
04	0010	12	66		31	557						3	4	03		
04	0015	13	13		32	340						3	4	03		
04	0020	13	17		32	389						3	4	03		
04	0030	12	98		32	389						3	4	03		
04	0040	09	76		32	995						3	4	03		
04	0050	08	17		33	402						3	4	03		

77 13 0123 57 54 0 11 32 65 07 02 04 2 8 5 9  
0036 11 27 24 011

04	0000	13	80		29	500						3	4	03		
04	0005	13	80		29	509						3	4	03		
04	0010	13	71		29	670						3	4	03		
04	0015	12	95		31	341						3	4	03		
04	0020	12	33		31	866						3	4	03		
04	0030	09	14		33	040						3	4	03		



Country	Ship	Station number	Latitude		0-N+E 1-N+W 2-S+E 3-S+W	Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice			
			°	'		°	'											
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb		-Wind Dir.   Speed kn.				Mixed layer depth m						
Obs. time	Obs. depth m		Temperature °C ↓			Salinity ‰ ↓		$\sigma_t$ ↓		ml/l	Oxygen ↓	Saturat. % ↓	Salin. method	Extra info.	Card code			
77 13	0124	58 14	0	11 35	65 10	27	08	2	8	1	9							
	0042	09 5			23 12		005											
	08 0000	10 68		22 121		06 35		3	3	03								
	08 0005	10 76		22 119		05 78		3	3	03								
	08 0010	12 87		23 913		03 34		3	3	03								
	08 0015	11 18		25 103		02 13		3	3	03								
	08 0020	05 56		28 497		00 17		3	3	03								
	08 0025	05 36		28 589		00 08		3	3	03								
	08 0030	05 24		28 628		00 10		3	3	03								
	08 0035	05 21		28 614		00 06		3	3	03								
	08 0040	05 22		28 640		00 08		3	3	03								
77 13	0125	58 19	0	11 33	65 10	27	10	2	8	2	9							
	0118	10			20 24		000											
	11 0000	10 27		22 545		06 79		3	3	03								
	11 0005	10 49		22 966		06 71		3	3	03								
	11 0010	10 97		24 233		06 59		3	3	03								
	11 0015	11 84		26 643		06 01		3	3	03								
	11 0020	12 05		28 872		05 92		3	3	03								
	11 0030	12 98		31 752		03 58		3	3	03								
	11 0040	12 71		33 083		04 25		3	3	03								
	11 0050	12 23		33 410		04 31		3	3	03								
	10 0060	07 32		33 870		03 62		3	3	03								
	10 0070	06 31		34 261		02 84		3	3	03								
	10 0080	06 31		34 328		02 76		3	3	03								
	10 0090	06 30		34 372		02 62		3	3	03								
	10 0100	06 31		34 383		02 23		3	3	03								
	10 0110	06 38		34 413		02 04		3	3	03								
77 13	0126	58 22	0	11 23	65 10	28	07	2	8	2	9							
	0024	12			23 20		019											
	07 0000	10 27		23 096		06 72		3	3	03								
	07 0005	10 27		23 066				3	3	03								
	07 0010	10 25		23 252		06 69		3	3	03								
	07 0015	10 21		23 727				3	3	03								
	07 0022	11 91		27 262		05 23		3	3	03								
77 13	0127	58 22	0	11 26	65 10	28	08	2	8	2	9							
	0025	12			23 20		016											
	08 0000	10 07		22 501		06 79		3	3	03								
	08 0005	10 08		22 500				3	3	03								
	08 0010	10 07		22 508		06 83		3	3	03								
	08 0015	10 07		22 523				3	3	03								
	08 0022	11 39		26 863		06 27		3	3	03								

Country	Ship	Station number	Latitude		0:N+E 1:N+W 2:S+E 3:S+W	Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			o	'		o	'								
		Depth to bottom m	Temperature °C Dry ↓ bulb		Temperature °C Wet ↓ bulb		Wind Dir.   Speed kn.		Mixed layer depth m						
Obs. time	Obs. depth m	Temperature °C ↓			Salinity ‰ ↓	$\sigma_t$ ↓	ml/l ↓	Oxygen Saturat. ‰ ↓	Salin. method	Extra info.	Card code				
77	13	0128 0033	58 19 12		0	11 22	65 10 23 22		28	09		6	8	3	9
	09	0000	10 54			23 302		06 68				3	3	03	
	09	0005	10 52			23 300						3	3	03	
	09	0010	10 56			23 727		06 88				3	3	03	
	09	0015	10 98			25 038						3	3	03	
	09	0020	11 17			25 452		06 48				3	3	03	
	09	0030	12 78			30 044		04 91				3	3	03	
77	13	0129 0060	58 16 12		0	11 26	65 10 23 20		28	09		2	8	2	9
	09	0000	10 81			23 739		06 49				3	3	03	
	09	0005	10 99			24 260						3	3	03	
	09	0010	11 19			24 805		06 57				3	3	03	
	09	0015	11 17			25 023						3	3	03	
	09	0020	11 60			26 298						3	3	03	
	09	0030	12 94			31 391		04 91				3	3	03	
	09	0040	12 94			33 035		04 32				3	3	03	
	09	0050	12 68			33 471		04 59				3	3	03	
77	13	0130 0058	58 15 12 5		0	11 38	65 10 23 26		28	11		6	8	2	9
	11	0000	11 65			22 518		05 46				3	3	03	
	11	0005	11 61			22 503						3	3	03	
	11	0010	12 08			22 813		05 01				3	3	03	
	11	0015	11 75			25 407						3	3	03	
	11	0020	05 74			28 438		00 10				3	3	03	
	11	0030	05 23			28 617		00 08				3	3	03	
	11	0040	05 18			28 635		00 08				3	3	03	
	11	0050	05 17			28 807		00 10				3	3	03	
77	13	0131 0058	58 17 12 5		0	11 41	65 10 23 24		28	12		2	8	2	9
	12	0000	11 02			22 055		06 14				3	3	03	
	12	0005	11 02			22 060						3	3	03	
	12	0010	11 12			22 067		06 13				3	3	03	
	12	0015	12 78			24 418		03 29				3	3	03	
	12	0020	05 58			28 281		00 12				3	3	03	
	12	0030	05 19			28 561		00 15				3	3	03	
	12	0040	05 10			28 625		00 30				3	3	03	
	12	0050	05 03			28 818		00 13				3	3	03	
77	13	0132 0042	58 19 12 5		0	11 46	65 10 23 28		28	12		2	8	2	9
										007					

Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0-N+E	1-N+W	2-S+E	3-S+W	0	1								
		Depth to bottom m	Temperature °C			Temperature °C			Wind		Mixed layer depth m					
			Dry ↓ bulb			Wet ↓ bulb			Dir.	Speed kn.						
Obs. time	Obs. depth m	Temperature °C			Salinity ‰			$\sigma_t$	ml/l	Oxygen	Saturat. %	Salin. method	Extra info.	Card code		

77 13 0132

12	0000	10	85		21	667				06	29		3	3	03
12	0005	10	96		21	700							3	3	03
12	0010	13	31		24	861				02	95		3	3	03
12	0015	11	30		27	981							3	3	03
12	0020	11	70		30	083				02	51		3	3	03
12	0030	05	69		32	042				00	18		3	3	03
12	0040	05	54		32	461				00	11		3	3	03

77	13	0133	58	16	0	11	49	65	10	28	13		2	8	2	9
		0025	12	5				23	14		012					

13	0000	11	67		22	630				05	78		3	3	03
13	0005	11	59		22	605							3	3	03
13	0010	11	63		23	074				05	57		3	3	03
13	0015	12	26		27	975							3	3	03
13	0020	12	79		29	918				03	25		3	3	03
13	0023	12	61		30	865				03	41		3	3	03

77	13	0134	58	20	0	11	53	65	10	28	14		2	8	2	9
		0049	12	5				23	20		006					

14	0000	11	09		20	297				06	25		3	3	03
14	0005	11	11		20	401							3	3	03
14	0010	13	59		24	107				02	76		3	3	03
14	0015	06	45		28	594							3	3	03
14	0020	05	84		30	096				00	02		3	3	03
14	0030	06	04		30	854				00	00		3	3	03
14	0040	06	00		30	930				00	00		3	3	03
14	0045	06	00		30	866				00	00		3	3	03

77	13	0135	58	11	0	11	51	65	10	29	07		1	6	2	9
		0024	10					25	24		009					

07	0000	10	84		22	013				06	08		3	3	03
07	0005	10	86		21	999							3	3	03
07	0010	10	99		22	267				05	94		3	3	03
07	0015	12	93		27	613							3	3	03
07	0022	13	01		30	269				03	58		3	3	03

77	13	0136	58	08	0	11	50	65	10	29	08		2	7	2	9
		0048	10	5				25	24		013					

08	0000	10	58		20	672				06	46		3	3	03
08	0005	10	46		20	698							3	3	03
08	0010	10	48		20	700				06	46		3	3	03



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0	1	2	3	0	1								
		Depth to bottom m	Temperature °C Dry ↓ bulb		Temperature °C Wet ↓ bulb	Wind Dir.   Speed kn.				Mixed layer depth m						
Obs. time	Obs. depth m	Temperature °C ↓		Salinity ‰ ↓	$\sigma_t$ ↓	ml/l ↓	Oxygen ↓	Saturat. % ↓	Salin. method	Extra info.	Card code					
77	13	0136														
	08	0015	10	73	21	099							3	3	03	
	08	0020	12	51	27	162				04	24		3	3	03	
	08	0030	12	83	29	138				04	02		3	3	03	
77	13	0137	58	04	0	11	47	65	10	29	09		2	7	2	9
		0027	10	5				23	24		012					
	09	0000	10	63	20	860				06	52		3	3	03	
	09	0005	10	52	20	854							3	3	03	
	09	0010	10	55	20	854				06	52		3	3	03	
	09	0015	10	91	22	219							3	3	03	
	09	0020	11	99	25	596				04	76		3	3	03	
	09	0025			27	665				04	19		3	3	03	
77	13	0138	57	59	0	11	46	65	10	29	10		2	8	3	9
		0027	10	5				20	30		014					
	10	0000	10	80	19	951				06	59		3	3	03	
	10	0005	10	83	20	861							3	3	03	
	10	0010	10	86	21	486				06	51		3	3	03	
	10	0015	10	95	21	895							3	3	03	
	10	0020	11	91	25	675				05	05		3	3	03	
	10	0025	12	58	28	050				04	38		3	3	03	
77	13	0139	56	32	0	12	13	65	11	08	21		2	8	0	9
		0051	09	9				16	06							
	21	0000	09	95	23	829							3	0	03	
	21	0010	10	39	25	837				06	52		3	0	03	
	21	0020	10	46	28	173							3	0	03	
	21	0030	12	53	29	373				04	39Q		3	0	03	
	21	0040	12	33	33	736							3	0	03	
	21	0048	12	31	33	762				03	89		3	0	03	
77	13	0140	56	23	0	12	33	65	11	09	11		4	8	0	9
		0023	10					27	04							
	11	0000	09	63	17	230							3	0	03	
	11	0010	09	54	21	970							3	0	03	
	11	0020	09	78	24	846							3	0	03	
77	13	0142	55	12	0	13	23	65	11	10	11		2	8	0	9
		0041	10					00	00		010					
	11	0000	10	59	08	68							1	0	03	

Country	Ship	Station number	Latitude		0-N+E 1-N+W 2-S+E 3-S+W	Longitude		Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			°	'		°	'								
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb		Wind Dir.   Speed kn.			Mixed layer depth m				
Obs. time	Obs. depth m	Temperature °C			Salinity ‰	$\sigma_t$	ml/l	Oxygen	Saturat. %	Salin. method	Extra info.	Card code			
77	13	0142													
	11	0010	10	66		08	78					1	0	03	
	11	0020	10	88		09	47			07	25	1	0	03	
	11	0030	11	08		10	94			06	15	1	0	03	
	11	0040	11	07		18	92			04	18	1	0	03	
77	13	0143	54	55	0	13	17	65	11	10	16	2	8	0	9
		0046	10					00	00		020				
	16	0000	10	22		08	27					1	0	03	
	16	0010	10	24		08	29					1	0	03	
	16	0020	10	21		08	56			06	81	1	0	03	
	16	0030	11	93		15	86			04	59	1	0	03	
	16	0040	10	34		21	780			05	93	3	0	03	
	16	0045	10	43		22	332			05	70	3	0	03	
77	13	0144	55	00	0	14	03	65	11	11	07	9	9	1	9
		0047	07					07	16		012				
	07	0000	09	93		08	55					1	0	03	
	07	0010	09	93		08	55			07	35	1	0	03	
	07	0020	10	59		09	50			07	06	1	0	03	
	07	0030	10	82		10	98			06	75	1	0	03	
	07	0040	10	63		21	134			05	77	3	0	03	
	07	0045	10	62		21	164			05	76	3	0	03	
77	13	0145	54	51	0	15	15	65	11	11	17	1	3	1	9
		0069	05					07	24		040				
	17	0000	09	61		07	78					1	0	03	
	17	0010	09	63		07	77			07	30	1	0	03	
	17	0020	09	63		07	77					1	0	03	
	17	0030	09	79		08	02					1	0	03	
	17	0040	09	71		08	28					1	0	03	
	17	0050	07	03		10	38			04	87	1	0	03	
	17	0060	08	90		12	66			03	62	1	0	03	
	17	0068				13	88			02	65	1	0	03	
77	13	0146	55	13	0	13	43	65	11	17	10	9	9	9	9
		0043	02	5				09	12		010				
	10	0000	08	10		08	17					1	0	03	
	10	0010	08	13		08	19			07	52	1	0	03	
	10	0020	08	34		08	50			07	44	1	0	03	
	10	0030	08	56		08	58			07	44	1	0	03	
	10	0040	08	91		09	03			07	13	1	0	03	

Country	Ship	Station number	Latitude		Longitude	Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0	'									
		Depth to bottom m	Temperature °C Dry ↓ bulb		Temperature °C Wet ↓ bulb		Wind Dir.   Speed kn.		Mixed layer depth m				
Obs. time	Obs. depth m	Temperature °C ↓			Salinity ‰ ↓	$\sigma_t$ ↓	ml/l ↓	Oxygen Saturat. % ↓	Salin. method	Extra info.	Card code		
77 13	0147 0060	55 27 02	0	14 33	65 11 11 12	17	17	17	040	1	4	9	9
	17 0000	07 85		07 95						1	0	03	
	17 0010	07 76		07 95		07 56				1	0	03	
	17 0020	07 72		07 95						1	0	03	
	17 0030	07 77		07 95		07 59				1	0	03	
	17 0040	07 75		07 96						1	0	03	
	17 0050	08 00		08 13		07 24				1	0	03	
	17 0058	09 55		15 31		05 88				1	0	03	
77 13	0148 0064	55 47 01 5	0	16 03	65 11 14 14	18	09	09	020	2	8	9	9
	09 0000	07 82		07 82						1	0	03	
	09 0010	07 87		07 82						1	0	03	
	09 0020	07 77		07 82		07 58Q				1	0	03	
	09 0030	08 10		07 87		07 47				1	0	03	
	09 0040	07 64		07 91		07 28				1	0	03	
	09 0050	04 47		08 93		03 09				1	0	03	
	09 0060	07 74		15 64		00 47				1	0	03	
	09 0062	07 65		15 79		00 24				1	0	03	
77 13	0149 0061	55 48 01 5	0	16 10	65 11 14 14	18	10	10	020	9	9	9	9
	10 0000	07 54		07 77						1	0	03	
	10 0010	07 42		07 77						1	0	03	
	10 0020	07 41		07 77		07 61				1	0	03	
	10 0030	07 13		07 77		07 65				1	0	03	
	10 0040	06 70		07 99		07 07				1	0	03	
	10 0050	06 92		08 31		06 41				1	0	03	
	10 0060	07 99		15 38		00 72				1	0	03	
77 13	0150 0071	55 42 01 5	0	15 57	65 11 14 14	18	12	12	029	1	3	9	9
	12 0000	06 53		07 61						1	0	03	
	12 0010	06 49		07 60						1	0	03	
	12 0020	06 34		07 60		07 81				1	0	03	
	12 0030	06 46		07 63		07 73				1	0	03	
	12 0040	06 68		07 66		07 67				1	0	03	
	12 0050	05 72		08 11		06 17				1	0	03	
	12 0060	08 61		14 83		01 23				1	0	03	
	12 0070	07 68		16 31		00 10				1	0	03	
77 13	0151 0055	55 50 01 5	0	15 50	65 11 14 14	18	13	13	035	2	8	9	9



Country	Ship	Station number	Latitude			Longitude			Year 19	Month	Day	Station time	Weather	Cloud amount	State of sea	Ice
			0:N+E	1:N+W	2:S+E	3:S+W	0	1								
		Depth to bottom m	Temperature °C Dry ↓ bulb			Temperature °C Wet ↓ bulb		Wind Dir.   Speed kn.		Mixed layer depth m						
Obs. time	Obs. depth m	Temperature °C ↓			Salinity ‰ ↓	$\sigma_t$ ↓	ml/l ↓	Oxygen ↓	Saturat. % ↓	Salin. method	Extra info.	Card code				

77 13 0151

13	0000	07	22		07	60				1	0	03			
13	0010	07	11		07	61				1	0	03			
13	0020	07	12		07	61		07	58	1	0	03			
13	0030	07	18		07	63		07	65	1	0	03			
13	0040	07	36		07	65		07	59	1	0	03			
13	0050	07	31		07	71		07	63	1	0	03			
13	0053	06	34					03	22	0	0	03			



# "Thetis"

Chemical Observations





Country	Ship	Station number	Latitude °	0:N+E 1:N+W 2:S+E 3:S+W	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m
Obs. time	Obs. depth m	Temperature °C		Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>		Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>		Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>		pH	Alkalinity μval /dm <sup>3</sup>	
77 13 0001		57 54		0 11 32	965	02 08		12 0036		
	12 0000	03 06		16 20	337	0 62				06
	12 0005	04 13		17 15		0 51		8 09		06
	12 0010	05 29		18 73	303	0 47		8 09		06
	12 0015	06 03		19 21		0 51		8 09		06
	12 0020	06 51		19 58		0 60		8 12		06
	12 0030	06 58		19 65	286	0 59		8 11		06
	12 0034	06 82		19 73	284	0 67		8 11		06
								8 12		
77 13 0002		57 55		0 11 36	965	02 08		12 0055		
	12 0000	02 41		15 45	321	0 59				06
	12 0005	04 02		16 99		0 59		8 04		06
	12 0010	05 46		18 86	305	0 54		7 97		06
	12 0015	05 93		19 19		0 54		7 98		06
	12 0020	06 05		19 31		0 54		7 92		06
	12 0030	06 61		19 64	287	0 58		8 07		06
	12 0040	06 65		19 69		0 65		8 04		06
	12 0050	06 72		19 70	289	0 67		7 93		06
								7 85		
77 13 0003		57 59		0 11 46	965	02 08		14 0030		
	14 0000	03 03		15 73	335	0 50				06
	14 0005	02 98		15 82		0 50		8 01		06
	14 0010	04 72		17 53	308	0 51		8 05		06
	14 0015	06 00		19 19		0 62		8 15		06
	14 0020	06 24		19 42		0 75		8 08		06
	14 0025	06 30		19 44	285	0 93		8 09		06
								8 05		





Country	Ship	Station number	Latitude		Longitude		Year 1	Month	Day	Stat. time	Depth to bottom m	Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code			
			0:N+E 1:N+W 2:S+E 3:S+W																				
														Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>				
77	13	0007	58	16	0	11	49	965	02	08	17	0028											
		17 0000	01	32		13	06	361		0	76							7	91		06		
		17 0005	01	84		13	40			0	77							7	97		06		
		17 0010	04	04		16	17			0	68							8	02		06		
		17 0015	04	28		16	53			0	75							8	02		06		
		17 0020	04	46		17	12			0	71							8	04		06		
		17 0025	04	62		17	39	303										8	04		06		
77	13	0008	58	20	0	11	53	965	02	09	09	0049											
		09 0000	00	53		11	90	329		1	41							7	85		06		
		09 0005	05	17		14	37	230		0	95							7	92		06		
		09 0010	05	71		15	26	238		1	02							7	80		06		
		09 0015	06	28		15	91	167		2	4							7	79		06		
		09 0020	07	21		17	12	000		1	1	6						7	49		06		
		09 0030	06	08		17	50	000		9	1							7	41		06		
		09 0040	05	90		17	52	000		6	4							7	37		06		
		09 0045	05	95		17	56	000		6	4							7	38		06		
77	13	0009	58	19	0	11	46	965	02	09	09	0041											
		09 0000	00	94		13	29	356		0	97							8	05		06		
		09 0005	03	91		14	77			0	88							8	05		06		
		09 0010	05	57		15	95	253		1	08							8	03		06		
		09 0015	05	86		16	74			1	18							8	02		06		
		09 0020	06	57		17	20			1	44							7	97		06		
		09 0030	08	10		17	90	079		2	6							7	71		06		
		09 0038	07	46		18	05	022		4	5							7	51		06		

Country	Ship	Station number	Latitude °	0:N+E 1:N+W 2:S+E 3:S+W	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m	Obs. time	Obs. depth m	Temperature °C ↓ Nitrate-N μg.-atoms/dm <sup>3</sup>	Chlorosity g./dm <sup>3</sup> ↓ Nitrite-N μg.-atoms/dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup> ↓ Ammonium-N μg.-atoms/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup> ↓ Organic N μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup> ↓ pH	Silicate-Si μg.-atoms/dm <sup>3</sup> ↓ Alkalinity μval /dm <sup>3</sup>	Card code	
77	13	0010	58 17	0	11 41	965	02	09	10	0063										
		10 0000	00 26		12 57	366	0	70												06
		10 0005	02 08		13 07		0	71										7 97		06
		10 0010	03 68		14 00	300	0	74										8 02		06
		10 0015	04 50		14 70		0	85										7 99		06
		10 0020	04 79		15 12	271	0	91										7 98		06
		10 0030	06 45		16 33	000	5	3										7 95		06
		10 0040	06 44		16 36	000	5	4										7 39		06
		10 0050	06 24		16 41	000	5	9										7 40		06
		10 0055	06 23		16 43	000	6	2										7 38		06
																		7 39		
77	13	0011	58 15	0	11 38	965	02	09	11	0057										
		11 0000	01 37		12 86	354	0	79												06
		11 0005	03 06		13 29		0	77										8 05		06
		11 0010	04 71		14 15	262	0	98										7 99		06
		11 0015	04 75		14 69		0	93										7 93		06
		11 0020	05 25		15 15	226	1	22										7 96		06
		11 0030	06 43		16 32	000	5	6										7 91		06
		11 0040	06 35		16 34	000	5	6										7 48		06
		11 0050	06 38		16 36	000	5	7										7 41		06
																		7 42		
77	13	0012	58 14	0	11 35	965	02	09	12	0043										
		12 0000	01 33		12 81	352	0	85												06
		12 0005	01 40		12 83	347	0	79										8 00		06
		12 0010	05 50		14 41	265	1	21										8 00		06
		12 0015	06 17		14 80	216	1	57										7 84		06
																		7 73		

Country	Ship	Station number	Latitude			Longitude			Year	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W	0	1					

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval/dm <sup>3</sup>	

77 13 0012

12 0020	06 94	15 57	025	2 9		7 39	06
12 0025	06 62	16 23	000	5 9		7 39	06
12 0030	06 44	16 33	000	5 9		7 38	06
12 0035	06 36	16 34	000	6 0		7 38	06
12 0040	06 41	16 35	000	6 2		7 35	06

77 13 0013 58 19 0 11 33 965 02 10 08 0119

08 0000	03 25	16 65	320	0 60		8 06	06
08 0005	04 19	17 22		0 58		8 05	06
08 0010	06 11	18 24	282	0 64		8 04	06
08 0015	06 87	18 87		0 74		8 03	06
08 0020	06 84	19 07		0 78		8 04	06
08 0030	06 28	19 39	287	0 85		8 10	06
08 0040	06 49	19 47		0 70		8 08	06
08 0050	06 51	19 53	274	0 76		8 08	06
08 0060	06 69	19 59		1 08		7 95	06
08 0070	06 61	19 63	254	1 01		8 00	06
08 0080	06 72	19 66		1 22		7 93	06
08 0090	06 63	19 71		2 50		7 73	06
08 0100	06 47	19 73	108	2 80		7 65	06
08 0110	06 45	19 75	084	3 40		7 60	06

77 13 0014 58 16 0 11 26 965 02 10 09 0069

09 0000	04 08	17 63	318	0 58		8 08	06
09 0005	04 34	17 81		0 61		8 07	06



Country	Ship	Station number	Latitude °	0:N+E 1:N+W 2:S+E 3:S+W	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code		
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>			

77 13 0014

09 0010	04 97	18 01	302	0 59				06
						8 04		
09 0015	06 46	18 87		0 67				06
						8 04		
09 0020	06 18	19 24		0 67				06
						8 04		
09 0030	06 42	19 45	295	0 60				06
						8 05		
09 0040	06 50	19 52		0 75				06
						8 08		
09 0050	06 80	19 67	286	0 64				06
						8 08		
09 0060	06 83	19 70	284	0 67				06
						8 08		

77 13 0015

10 0000	03 31	17 17	330	0 53				06
						8 06		
10 0005	03 39	17 41		0 53				06
						8 07		
10 0010	04 21	17 77	318	0 69				06
						8 06		
10 0015	06 25	19 26		0 71				06
						8 06		
10 0020	06 64	19 66		0 69				06
						8 06		
10 0024	06 67	19 67	284	0 64				06
						8 05		

77 13 0016

11 0000	03 48	17 30	332	0 55				06
						8 08		
11 0005	03 91	17 75		0 54				06
						8 08		
11 0010	05 31	18 55	296	0 52				06
						8 06		
11 0015	05 96	19 13		0 52				06
						8 07		
11 0020	06 58	19 61		0 51				06
						8 06		
11 0030	06 76	19 71	287	0 68				06
						8 06		







Country	Ship	Station number	Latitude °	0-N+E 1-N+W 2-S+E 3-S+W	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m	
	Obs. time	Obs. depth m	Temperature °C		Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>		Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
			↓		↓	↓	↓		↓	↓	
			Nitrate-N μg.-atoms/dm <sup>3</sup>		Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>		pH	Alkalinity μval /dm <sup>3</sup>	
			↓		↓	↓	↓		↓	↓	
77	13	0021									
	17	0100	07 14		19 85		0 69				06
77	13	0022	58 18		0 10 51	965	02 10		18 0137		
	18	0000	03 14		17 19		0 45				06
	18	0005	03 11		17 21		0 43				06
	18	0010	03 76		17 77		0 43				06
	18	0015	05 21		18 78		0 44				06
	18	0020	06 18		19 30		0 47				06
	18	0030	06 66		19 58		0 46				06
	18	0040	06 80		19 64		0 52				06
	18	0050	07 79		19 79		0 55				06
	19	0060	07 98		19 84		0 53				06
	19	0070	07 45		19 83		0 52				06
	19	0080	06 87		19 78		0 46				06
	19	0090	07 16		19 81		0 52				06
	19	0100	07 13		19 81		0 52				06
	19	0125	07 20		19 86		0 66				06
77	13	0023	58 16		0 10 44	965	02 10		20 0210		
	20	0000	03 59		17 79		0 49				06
	20	0005	03 72		17 89		0 51				06
	20	0010	03 79		18 14		0 47				06
	20	0015	04 00		18 23		0 45				06
	20	0020	05 74		19 01		0 45				06
	20	0030	06 16		19 40		0 44				06

Country	Ship	Station number	Latitude		Longitude		Year	Month	Day	Stat. time	Depth to bottom m	Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
			0:N+E 1:N+W 2:S+E 3:S+W	0 1 2 3	0 1 2 3	0 1 2 3								↓	↓	↓	↓	↓	↓	

77 13 0023

20 0040	06 56	19 52	0 47	06
20 0050	06 81	19 61	0 47	06
20 0060	06 98	19 66	0 51	06
20 0070	06 90	19 66	0 94	06
20 0080	07 29	19 73	0 93	06
20 0090	07 52	19 78	0 54	06
20 0100	07 32	19 79	0 51	06
20 0125	07 02	19 82	0 47	06
20 0150	07 80	19 92	0 73	06
20 0175	07 66	19 94	0 93	06
20 0200	07 54	19 94	0 99	06

77 13 0024 58 15 0 10 34 965 02 10 21 0290

22 0000	02 18	16 12	0 40	06
22 0005	02 41	16 28	0 41	06
22 0010	02 91	16 88	0 42	06
22 0015	05 07	18 96	0 49	06
22 0020	05 74	19 24	0 44	06
22 0030	06 05	19 35	0 44	06
22 0040	06 28	19 49	0 48	06
22 0050	06 45	19 57	0 53	06
22 0060	06 82	19 63	0 53	06
22 0070	07 20	19 72	0 55	06
21 0080	07 12	19 72	0 54	06
21 0090	07 69	19 81	0 61	06

Country	Ship	Station number	Latitude		Longitude		Year	Month	Day	Stat. time	Depth to bottom m
			0:N+E 1:N+W 2:S+E 3:S+W								

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 13 0024

21 0100	07 52	19 81		0 63				06
21 0125	07 30	19 81		0 61				06
21 0150	07 90	19 91		0 79				06
21 0175	07 69	19 93		0 82				06
21 0200	07 68	19 93		0 82				06
21 0250	07 59	19 93		0 87				06
21 0280	06 80	19 93		0 91				06

77 13 0025 58 16 0 10 11 965 02 11 00 0485

01 0000	02 34	16 56		0 48				06
01 0005	02 48	16 57		0 46				06
01 0010	02 74	16 74		0 44				06
01 0015	04 01	18 33		0 45				06
01 0020	04 39	18 71		0 45				06
01 0030	05 03	19 08		0 46				06
01 0040	06 08	19 37		0 49				06
00 0050	06 58	19 48		0 51				06
00 0060	07 08	19 64		0 52				06
00 0070	07 18	19 71		0 51				06
00 0080	07 06	19 75		0 49				06
00 0090	07 80	19 86		0 67				06
00 0100	07 55	19 85		0 62				06
00 0125	06 91	19 81		0 48				06
00 0150	06 86	19 81		0 50				06
00 0175	07 22	19 86		0 69				06







Country	Ship	Station number	Latitude			Longitude			Year	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W	0	1					
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>			Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code			
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>		pH	Alkalinity μval /dm <sup>3</sup>					
77	13	0034	57	53	0	11	25	965	03	22	13	0060	
	13	0000	01	44		12	82		0	12			06
	13	0005	02	33		14	98		0	13			06
	13	0010	04	02		18	20		0	21			06
	13	0015	04	05		19	24		0	19			06
	13	0020	04	01		19	37		0	19			06
	13	0030	03	93		19	38		0	20			06
	13	0040	04	02		19	39		0	21			06
	13	0050	03	91		19	40		0	20			06
77	13	0036	57	52	0	11	18	965	03	22	14	0098	
	14	0000	01	98		12	79		0	14			06
	14	0005	03	56		18	24		0	19			06
	14	0010	04	37		19	16		0	28			06
	14	0015	04	49		19	28		0	36			06
	14	0020	04	78		19	37		0	48			06
	14	0030	04	74		19	56		0	51			06
	14	0040	04	32		19	53		0	48			06
	14	0050	04	04		19	53		0	37			06
	14	0060	04	10		19	53		0	44			06
	14	0070	04	11		19	53		0	43			06
	14	0080	04	04		19	53		0	37			06
	14	0090	03	95		19	53		0	46			06





Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m
			0: N+E	1: N+W	2: S+E	3: S+W	0: N+E	1: N+W					
			Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code		
					Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>			

77 13 0041

23 0030	05 54	19 30	305	0 45						06
23 0040	06 48	19 50		0 53						06
23 0050	06 81	19 63	298	0 58						06
23 0060	07 08	19 73		0 61						06
23 0070	07 34	19 81	280	0 63						06
23 0080	07 46	19 84		0 72						06
23 0090	07 46	19 87		0 75						06
23 0100	07 24	19 86	274	0 78						06
23 0125	07 03	19 88		0 77						06
23 0150	07 04	19 91	278	0 82						06
23 0175	06 98	19 93		0 92						06
23 0200	06 78	19 93	274	0 89						06
23 0250	06 62	19 96		0 92						06
23 0300	06 32	19 96	270	1 00						06
23 0400	05 63	19 94	258	1 10						06

77 13 0042

58 15	0 10 34	965	03 23	01 0265						
01 0000	01 55	13 72	0 11							06
01 0005	03 85	18 48	0 12							06
01 0010	03 43	18 65	0 29							06
01 0015	03 79	18 89	0 45							06
01 0020	04 69	19 18	0 45							06
01 0030	05 29	19 47	0 49							06
01 0040	06 64	19 69	0 59							06
01 0050	06 97	19 76	0 63							06

Country	Ship	Station number	Latitude			Longitude			Year	Month	Day	Stat. time	Depth to bottom m
			0.N+E	1.N+W	2.S+E	3.S+W	0	1					

Obs. time	Obs. depth m	Temperature °C		Chlorosity	Oxygen	Phosphate-P	Total P	Silicate-Si	Card code
		↓	↓	g./dm <sup>3</sup>	μmol/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	

		Nitrate-N	Nitrite-N	Ammonium-N	Organic N	pH	Alkalinity
		μg.-atoms/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	↓	μval /dm <sup>3</sup>
		↓	↓	↓	↓	↓	

77 13 0042

01	0060	06 04		19 71		0 66		06
01	0070	06 25		19 78		0 67		06
01	0080	06 96		19 86		0 77		06
01	0090	07 01		19 89		0 84		06
01	0100	06 29		19 83		0 67		06
01	0125	06 82		19 92		0 85		06
01	0150	06 70		19 94		0 79		06
01	0175	06 63		19 94		0 80		06
01	0200	06 77		19 96		0 83		06
01	0250	06 78		19 97		0 92		06

77 13 0043 58 16 0 10 44 965 03 23 02 0205

03	0000	02 26		15 59		0 12		06
03	0005	02 86		18 27		0 07		06
03	0010	04 01		18 88		0 37		06
03	0015	04 54		19 17		0 43		06
03	0020	05 34		19 37		0 53		06
03	0030	06 12		19 57		0 59		06
03	0040	07 28		19 77		0 59		06
03	0050	07 38		19 81		0 66		06
03	0060	06 98		19 80		0 66		06
03	0070	06 75		19 81		0 71		06
02	0080	06 48		19 81		0 72		06
02	0090	07 11		19 89		0 79		06
02	0100	06 90		19 91		0 80		06



Country	Ship	Station number	Latitude			Longitude			Year	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W							

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 13 0043

02 0125	06 84	19 93	0 85				06
02 0150	06 74	19 93	0 89				06
02 0175	06 76	19 93	0 91				06
02 0200	06 80	19 93	0 93				06

77 13 0044 58 18 0 10 51 965 03 23 04 0136

04 0000	01 24	13 23	0 15				06
04 0005	03 95	18 68	0 10				06
04 0010	04 42	19 09	0 19				06
04 0015	04 74	19 40	0 38				06
04 0020	04 96	19 52	0 51				06
04 0030	05 00	19 59	0 68				06
04 0040	04 72	19 59	0 51				06
04 0050	04 44	19 57	0 44				06
04 0060	04 54	19 57	0 44				06
04 0070	04 46	19 58	0 45				06
04 0080	05 23	19 65	0 64				06
04 0090	05 36	19 67	0 67				06
04 0100	05 65	19 71	0 70				06
04 0125	06 17	19 80	0 78				06

77 13 0045 58 19 0 10 57 965 03 23 06 0118

06 0110	05 81	19 75	0 78				06
06 0000	01 46	13 47	0 07				06
06 0005	03 91	18 64	0 10				06

Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W							
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code					
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval/dm <sup>3</sup>						

77 13 0045

06 0010	04 56	19 25		0 49			06
06 0015	04 59	19 32		0 52			06
06 0020	04 93	19 53		0 57			06
06 0030	05 01	19 60		0 60			06
06 0040	05 05	19 60		0 64			06
06 0050	05 05	19 61		0 64			06
06 0060	04 88	19 60		0 60			06
06 0070	04 40	19 57		0 52			06
06 0080	04 72	19 59		0 55			06
06 0090	05 15	19 64		0 68			06
06 0100	05 72	19 71		0 72			06

77 13 0046 58 20 0 11 02 965 03 23 07 0077

07 0000	01 16	13 54		0 10			06
07 0005	02 36	16 22		0 13			06
07 0010	04 05	19 40		0 23			06
07 0015	04 00	19 43		0 24			06
07 0020	04 18	19 43		0 32			06
07 0030	04 07	19 44		0 29			06
07 0040	04 16	19 45		0 32			06
07 0050	04 17	19 45		0 38			06
07 0060	04 41	19 48		0 37			06
07 0070	04 41	19 48		0 39			06

Country	Ship	Station number	Latitude °	<small>0:N+E 1:N+W 2:S+E 3:S+W</small>	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code		
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>			
77 13 0047		58 20	0 11 06	965	03 23	09 0048				
	09 0000	01 28	13 53		0 11			06		
	09 0005	01 20	13 64		0 12			06		
	09 0010	04 25	19 18		0 20			06		
	09 0015	03 93	19 27		0 22			06		
	09 0020	04 35	19 36		0 38			06		
	09 0030	04 33	19 47		0 39			06		
	09 0040	04 38	19 48		0 42			06		
	09 0045	04 44	19 49		0 40			06		
77 13 0048		58 20	0 11 10	965	03 23	09 0049				
	09 0000	01 28	13 56		0 06			06		
	09 0005	01 78	14 68		0 11			06		
	09 0010	03 15	17 16		0 21			06		
	09 0015	04 10	18 81		0 20			06		
	09 0020	05 34	19 37		0 62			06		
	09 0030	05 38	19 52		0 57			06		
	09 0040	04 78	19 52		0 46			06		
	09 0045	05 51	19 60		0 64			06		
77 13 0049		58 22	0 11 23	965	03 24	09 0026				
	09 0000	01 18	13 38		0 22			06		
	09 0005	01 01	13 73		0 12	8 13		06		
	09 0010	01 64	16 49	368	0 15	8 21		06		
	09 0015	05 24	19 16		0 68	8 19		06		
	09 0020	05 67	19 36		0 70	8 01		06		
						7 97				



Country	Ship	Station number	Latitude		Longitude		Year	Month	Day	Stat. time	Depth to bottom m		
			0:N+E 1:N+W 2:S+E 3:S+W										
			Temperature °C		Chlorosity g./dm <sup>3</sup>		Oxygen μmol/dm <sup>3</sup>		Phosphate-P μg.-atoms/dm <sup>3</sup>		Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
			Nitrate-N μg.-atoms/dm <sup>3</sup>		Nitrite-N μg.-atoms/dm <sup>3</sup>		Ammonium-N μg.-atoms/dm <sup>3</sup>		Organic N μg.-atoms/dm <sup>3</sup>		pH	Alkalinity μval /dm <sup>3</sup>	
77	13	0049											
		09 0025	05 93		19 50		265		0 80				06
											7 95		
77	13	0050	58 19	0	11 22		965		03 24		09 0034		
		09 0000	01 08		13 91		385		0 14				06
		09 0005	01 16		13 94				0 09		8 14		06
		09 0010	02 00		16 53		376		0 17		8 20		06
		09 0015	04 62		18 81				0 52		8 18		06
		09 0020	05 35		19 28				0 67		8 03		06
		09 0025	05 75		19 45				0 76		8 01		06
		09 0030	06 12		19 57		258		0 80		7 98		06
											7 95		
77	13	0051	58 22	0	11 26		965		03 24		10 0025		
		10 0000	01 61		12 92		391		0 35				06
		10 0005	01 60		13 76				0 16		8 19		06
		10 0010	03 11		17 74		334		0 22		8 21		06
		10 0015	04 92		18 93				0 66		8 09		06
		10 0023	05 72		19 43		242		0 78		7 98		06
											7 93		
77	13	0052	58 16	0	11 26		965		03 24		11 0055		
		11 0000	01 38		12 00				0 19				06
		11 0005	01 06		14 02				0 09		8 13		06
		11 0010	02 68		17 20				0 10		8 22		06
		11 0015	05 03		18 92				0 55		8 13		06
		11 0020	05 31		19 15				0 64		8 02		06
		11 0030	05 69		19 42				0 67		8 02		06
											8 01		

Country	Ship	Station number	Latitude			Longitude			Year	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W	0:N+E	1:N+W					

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 13 0052								
	11 0040	05 78	19 46		0 75			06
	11 0050	05 82	19 49		0 75	8 00		06
						8 00		
77 13 0053		58 19	0 11 33	965	03 24	12 0118		
	12 0000	02 22	06 09	365	0 37			06
	12 0005	00 98	13 87		0 08	7 68		06
	12 0010	02 44	17 26	340	0 21	8 12		06
	12 0015	05 50	19 04		0 71	8 03		06
	12 0020	05 69	19 26		0 80	7 95		06
	12 0030	05 86	19 42	272	0 80	7 95		06
	12 0040	06 14	19 50		0 88	7 95		06
	12 0050	06 31	19 56	303	0 93	7 94		06
	12 0060	06 59	19 60		1 04	7 94		06
	12 0070	06 24	19 59	238	0 94	7 96		06
	12 0080	06 33	19 62	226	1 29	7 96		06
	12 0090	06 52	19 66	176	1 95	7 93		06
	12 0100	06 57	19 69	134	2 67	7 82		06
	12 0110	06 57	19 71	094	3 20	7 70		06
						7 60		
77 13 0054		58 14	0 11 35	965	03 26	06 0042		
	06 0000	02 31	14 84	435	0 24			06
	06 0005	02 44	14 91	434	0 17	8 47		06
	06 0010	02 56	15 06	384	0 27	8 47		06
	06 0015	05 55	16 08	070	2 52	8 34		06
	06 0020	06 00	16 28	023	3 80	7 55		06
						7 37		





Country	Ship	Station number	Latitude		Longitude		Year 1	Month	Day	Stat. time	Depth to bottom m	Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code			
			0: N+E 1: N+W 2: S+E 3: S+W	0	0																		
														Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>				
77	13	0057	58	19	0	11	46	965	03	26	09	0043											
		09 0000	01	73		12	61	464	0	19								8	49		06		
		09 0005	01	65		13	81		0	14								8	53		06		
		09 0010	01	28		15	17	489	0	17								8	52		06		
		09 0015	03	31		16	51		0	32								8	02		06		
		09 0020	05	44		17	54	218	1	17								7	88		06		
		09 0030	05	61		18	62	269	1	16								8	01		06		
		09 0040	05	67		18	72	241	2	00								8	01		06		
																		7	96				
77	13	0058	58	20	0	11	53	965	03	26	10	0047											
		10 0000	01	67		11	92	494	0	29								8	54		06		
		10 0005	01	61		14	25	468	0	22								8	52		06		
		10 0010	02	62		15	42	388	0	28								8	31		06		
		10 0015	05	26		16	77	167	2	00								7	74		06		
		10 0020	05	97		17	06	023	4	72								7	74		06		
		10 0030	06	09		17	48	000	7	02								7	44		06		
		10 0040	05	98		17	51	000										7	31		06		
		10 0045	05	94		17	51	000										7	29		06		
																		7	28		06		
77	13	0059	58	16	0	11	49	965	03	26	10	0027											
		10 0000	01	94		12	27	448	0	12								8	52		06		
		10 0005	01	49		13	72		0	11								8	55		06		
		10 0010	01	18		15	12		0	13								8	56		06		
		10 0015	02	36		15	99		0	17								8	20		06		
		10 0020	05	23		17	51		1	10								8	03		06		
		10 0025	05	65		18	36	227	1	42								8	03		06		
																		7	95				



Country	Ship	Station number	Latitude		Longitude		Year	Month	Day	Stat. time	Depth to bottom m							
			0: N+E	1: N+W	2: S+E	3: S+W	1											
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>		Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code									
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>											
77 13 0063		57 59	0 11 46	965	03 26	13 0031												
13 0000		01 95	11 48	392	0 15			06										
13 0005		01 26	14 24		0 09	8 28		06										
13 0010		02 61	15 95		0 23	8 30		06										
13 0015		05 02	18 80		0 72	8 19		06										
13 0020		05 98	19 50		0 90	8 08		06										
13 0025		06 15	19 63	262	0 93	8 03		06										
						8 04												
77 13 0064		57 55	0 11 36	965	03 26	14 0061												
14 0000		01 61	11 92	389	0 15			06										
14 0005		01 33	12 64		0 09	8 28		06										
14 0010		02 06	15 05		0 09	8 29		06										
14 0015		05 03	18 94		0 60	8 23		06										
14 0020		05 60	19 45		0 70	8 08		06										
14 0030		05 53	19 59		0 67	8 07		06										
14 0040		05 91	19 65		0 80	8 09		06										
14 0050		06 00	19 67	270	0 82	8 07		06										
						8 06												
77 13 0065		57 54	0 11 32	965	03 26	15 0037												
15 0000		01 48	11 63		0 15			06										
15 0005		01 48	13 11		0 11	8 22		06										
15 0010		01 63	14 67		0 22	8 28		06										
15 0015		04 73	18 82		0 54	8 22		06										
15 0020		05 43	19 38		0 72	8 10		06										
15 0030		05 23	19 52		0 67	8 07		06										
15 0035		05 90	19 64		0 92	8 07		06										
						8 05												



Country	Ship	Station number	Latitude		Longitude		Year 1	Month	Day	Stat. time	Depth to bottom m	Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code	
			0:N+E 1:N+W 2:S+E 3:S+W	0 1 2 3	0 1 2 3	0 1 2 3								0 1 2 3	0 1 2 3	0 1 2 3	0 1 2 3	0 1 2 3	0 1 2 3		0 1 2 3
77	13	0086	57	55	0	11	36	965	06	28	13	0063									
	13	0000	15	22		12	38		0	16								8	31		06
	13	0005	15	20		12	38		0	08								8	26		06
	13	0010	14	22		15	59	254	0	17								8	19		06
	13	0015	13	93		16	84		0	13								8	18		06
	13	0020	13	51		17	40		0	11								8	19		06
	13	0030	10	49		18	14	254	0	23								8	17		06
	13	0040	07	43		19	09	244	0	56								8	13		06
	13	0050				19	20	243	0	58											06
77	13	0087	57	59	0	11	46	965	06	28	14	0028									
	14	0000	15	58		11	69	273	0	09								8	27		06
	14	0005	15	52		11	71		0	06								8	27		06
	14	0010	15	57		11	77	274	0	16								8	26		06
	14	0015	10	99		15	65		0	38								8	08		06
	14	0020	10	32		17	13		0	46								8	09		06
	14	0025	08	26		17	68	214	0	66								8	04		06
77	13	0088	58	04	0	11	47	965	06	28	15	0028									
	15	0000	15	73		11	80	276	0	08								8	19		06
	15	0005	15	62		11	81		0	08								8	27		06
	15	0010	15	62		11	83	273	0	08								8	26		06
	15	0015	12	04		14	19	225	0	25								8	11		06
	15	0020	09	27		15	24	205	0	59								8	00		06
	15	0025	08	61		16	99	203	0	77								7	99		06

Country	Ship	Station number	Latitude		Longitude	Year	Month	Day	Stat. time	Depth to bottom m	Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code		
			0.N+E 1.N+W 2.S+E 3.S+W	↓									↓	↓	↓	↓	↓	↓		↓	
													Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval/dm <sup>3</sup>			
													↓	↓	↓	↓	↓	↓			
77	13	0089	58	08	0 11 50	965	06	28	16	0037											
	16	0000	15	68	11 97	276	0	08									8 25		06		
	16	0005	15	59	11 96		0	08									8 28		06		
	16	0010	15	60	12 00	273	0	08									8 28		06		
	16	0015	15	22	12 21		0	08									8 27		06		
	16	0020	08	38	16 21		0	70									7 95		06		
	16	0030	07	65	16 70	179	0	74									7 91		06		
77	13	0090	58	11	0 11 51	965	06	28	16	0024											
	16	0000	15	35	12 24	272	0	01									8 28		06		
	16	0005	15	37	12 24		0	03									8 28		06		
	16	0010	15	40	12 32	271	0	08									8 28		06		
	16	0015	09	31	14 91		0	34									8 00		06		
	16	0020	05	65	17 61	151	1	08									7 81		06		
77	13	0091	58	16	0 11 49	965	06	28	17	0029											
	17	0000	15	83	12 54	271	0	06									8 30		06		
	17	0005	15	73	12 54		0	08									8 32		06		
	17	0010	15	71	12 55	279	0	06									8 32		06		
	17	0015	06	78	16 07		0	40									7 88		06		
	17	0020	05	18	17 81		1	22									7 81		06		
	17	0025	05	30	18 23	149	1	83									7 80		06		
77	13	0092	58	20	0 11 53	965	06	29	09	0048											
	09	0000	15	64	11 01	272	0	40									8 30		06		
	09	0005	15	59	11 67	239	0	30									8 29		06		

Country	Ship	Station number	Latitude		Longitude		Year	Month	Day	Stat. time	Depth to bottom m
			0-N+E 1-N+W 2-S+E 3-S+W								

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval/dm <sup>3</sup>	

77 13 0092

09 0010	12 49	12 68	221	0 39		8 14		06
09 0015	05 12	16 66	010	2 6		7 36		06
09 0020	05 99	17 06	000	5 3		7 39		06
09 0030	06 10	17 45	000			7 30		06
09 0040	05 99	17 49	000			7 26		06
09 0045	06 01	17 49	000			7 24		06

77 13 0093

10 0000	15 81	12 41	273	0 20		8 37		06
10 0005	15 77	12 42		0 13		8 35		06
10 0010	15 62	12 44	273	0 17		8 33		06
10 0015	05 27	15 75	171	0 48		7 83		06
10 0020	05 05	17 69	144	1 20		7 76		06
10 0030	05 36	18 41	158	1 70		7 82		06
10 0038	05 58	18 57	048	3 4		7 56		06

77 13 0094

10 0000	15 79	12 36	277	0 37		8 27		06
10 0005	15 47	12 41		0 30		8 29		06
10 0010	15 27	12 52	265	0 24		8 29		06
10 0015	04 68	15 89		2 0		7 47		06
10 0020	04 92	16 12	052	2 9		7 42		06
10 0030	04 98	16 25	0660	3 3		7 42		06
10 0040	04 96	12 27	078			7 47		06
10 0050	04 82	12 28	095	3 1		7 49		06



Country	Ship	Station number	Latitude °	0: N+E 1: N+W 2: S+E 3: S+W	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m	
Obs. time	Obs. depth m	Temperature °C		Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>		Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code	
		Nitrate-N μg.-atoms/dm <sup>3</sup>		Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>		pH	Alkalinity μval/dm <sup>3</sup>		
77 13 0095		58 15	0	11 38	965	06 29	11 0064				
11 0000		15 60		12 43	277	0 21				06	
11 0005		15 27		12 43		0 20		8 29		06	
11 0010		12 73		13 02	247	0 30		8 31		06	
11 0015		04 82		15 74		1 9		8 16		06	
11 0020		05 00		16 07	039	3 3		7 50		06	
11 0030		05 00		16 25	053	3 6		7 40		06	
11 0040		04 99		16 26	057	3 6		7 39		06	
11 0050		04 98		16 26	063	3 5		7 41		06	
								7 44			
77 13 0096		58 14	0	11 35	965	06 29	12 0041				
12 0000		15 07		12 51	283	0 23				06	
12 0005		14 89		12 47	277	0 24		8 28		06	
12 0010		12 84		12 96	269	0 31		8 30		06	
12 0015		05 44		15 46	066	2 05		8 21		06	
12 0020		05 25		16 07	015	3 8		7 42	1920	06	
12 0025		05 27		16 23	023	4 0		7 35		06	
12 0030		05 21		16 24	032	4 0		7 31		06	
12 0035		05 15		16 27	038	3 9		7 37		06	
12 0040		05 11		16 27	042	4 0		7 38		06	
								7 33	2140		
77 13 0097		58 22	0	11 26	965	06 30	07 0026				
07 0000		15 40		13 50	270	0 44				06	
07 0005		15 00		14 67		0 22		8 27		06	
07 0010		14 46		15 19	253	0 31		8 09		06	
07 0015		12 79		17 21		0 28		8 13		06	
								8 11			

Country	Ship	Station number	Latitude			Longitude			Year	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W							
Obs. time	Obs. depth m	Temperature °C		Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code				
		Nitrate-N μg.-atoms/dm <sup>3</sup>		Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval/dm <sup>3</sup>					
77 13 0097													
07 0020		12 43		17 21					06				
07 0024		12 04		17 51	245				06				
							8 12						
							8 13						
77 13 0098		58 19	0	11 22	965	06 30	08 0033						
08 0000		14 84		14 48	276	0 21			06				
							8 20						
08 0005		14 87		14 47		0 17			06				
							8 21						
08 0010		13 41		17 26	268	0 22			06				
							8 16						
08 0015		13 09		17 52		0 20			06				
							8 16						
08 0020		12 87		17 75	262	0 25			06				
							8 14						
08 0025		12 59		17 89		0 21			06				
							8 15						
08 0030		12 30		17 92	258	0 40			06				
							8 10						
77 13 0099		58 22	0	11 23	965	06 30	09 0023						
09 0000		15 53		13 22	274	0 22			06				
							8 16						
09 0005		14 81		14 92		0 20			06				
							8 20						
09 0010		12 91		17 12	259	0 31			06				
							8 16						
09 0015		12 25		17 48		0 46			06				
							8 13						
09 0020		11 47		17 56	236	0 51			06				
							8 11						
77 13 0100		58 16	0	11 22	965	06 30	11 0048						
11 0000		14 83		13 85	268	0 00			06				
							8 20						
11 0005		14 30		15 69		0 12			06				
							8 19						
11 0010		13 38		17 65	268	0 03			06				
							8 19						
11 0015		13 44		17 79		0 00			06				
							8 18						
11 0020		13 13		17 88	266	0 08			06				
							8 19						

Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W							

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		↓	↓	↓	↓	↓	↓	
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	
		↓	↓	↓	↓	↓	↓	

77 13 0100

11 0025	12 75	17 96		0 08				06
11 0030	12 18	18 08	260	0 27		8 16		06
11 0035	11 63	18 14		0 28		8 16		06
11 0040	07 48	18 77	233	0 73		8 13		06
						8 08		

77 13 0101

12 0000	58 16	0 11 26	965	06 30	12 0060			
12 0005	15 35	12 42	275	0 08		8 21		06
12 0010	14 63	14 67		0 09		8 19		06
12 0015	13 71	16 37	261	0 17		8 19		06
12 0020	13 28	17 29		0 21		8 17		06
12 0030	13 30	17 41	261	0 24		8 17		06
12 0040	10 71	18 14	249	0 30		8 12		06
12 0050	05 70	18 92	225	0 70		8 00		06
	06 04	19 29	219	1 10		8 02		06

77 13 0102

13 0000	58 19	0 11 33	965	06 30	13 0118			
13 0005	15 47	09 57	294	0 12		8 40		06
13 0010	14 73	14 10		0 12		8 19		06
13 0015	13 28	16 19	254	0 20		8 14		06
13 0020	13 16	16 89		0 22		8 15		06
13 0030	12 77	17 51	259	0 24		8 15		06
13 0040	09 68	17 93	254	0 32		8 14		06
13 0050	05 77	18 56	228	0 42		8 00		06
13 0060	05 95	19 26	225	1 03		8 01		06
	06 30	19 50	184	1 85		7 90		



Country	Ship	Station number	Latitude		Longitude		Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E 1:N+W 2:S+E 3:S+W								
Obs. time	Obs. depth m	Temperature °C		Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>		Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code	
		↓		↓	↓	↓		↓	↓		
		Nitrate-N μg.-atoms/dm <sup>3</sup>		Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>		pH	Alkalinity μval /dm <sup>3</sup>		
		↓		↓	↓	↓		↓	↓		

77 13 0102

13 0070	06 23		19 55	169	2 00			7 88		06
13 0080	06 37		19 58	163	2 15			7 89		06
13 0090	06 37		19 60	160	2 3			7 85		06
13 0100	06 40		19 61	146	2 6			7 80		06
13 0110	06 44		19 63	128	3 0			7 75		06

77 13 0103

14 0000	58 24	0 11 38	965	06 30	14 0069					
14 0005	15 47	05 37	300	0 08				8 40		06
14 0010	14 95	13 06		0 24				8 21		06
14 0015	13 75	14 81	249	0 20				8 18		06
14 0020	12 74	16 97		0 20				8 14		06
14 0030	12 28	17 37	259	0 31				8 13		06
14 0040	10 06	17 72	258	0 36				8 13		06
14 0050	05 73	18 78	191	0 71				7 93		06
14 0060	05 90	19 27	213	0 94				7 98		06
	06 28	19 52	166	1 81				7 89		06

77 13 0104

14 0000	58 24	0 11 38	965	06 30	14 0058					
14 0005	15 69	05 40	301	0 19				8 39		06
14 0010	14 81	13 88		0 13				8 18		06
14 0015	13 26	15 54	248	0 20				8 17		06
14 0020	12 46	17 19		0 23				8 15		06
14 0030	12 64	17 44	257	0 24				8 14		06
14 0040	10 13	17 65	263	0 23				8 13		06
	05 64	18 75	177	0 62				7 92		06

Country	Ship	Station number	Latitude			Longitude			Year	Month	Day	Stat. time	Depth to bottom m	Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
			0: N+E	1: N+W	2: S+E	3: S+W	0: N+E	1: N+W								2: S+E	3: S+W	Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH
77	13	0104																				
	14	0050	05	84		19	22	187	1	34									7	91		06
	14	0055	05	90		19	29	185	1	44									7	91		06
77	13	0105	58	25	0	11	39	965	06	30		15	0038									
	15	0000	15	24		00	7	295	0	27									7	52		06
	15	0005	14	71		14	02		0	20									8	17		06
	15	0010	13	22		15	56	254	0	27									8	13		06
	15	0015	12	17		17	08		0	24									8	14		06
	15	0020	11	74		17	35	261	0	25									8	14		06
	15	0030	09	65		17	50	256	0	43									8	09		06
	15	0035	07	03		17	86	188	0	51									7	92		06
77	13	0106	58	26	0	11	41	965	06	30		15	0028									
	15	0000	15	42		00	8	298	0	23									7	80		06
	15	0005	14	81		13	63	222	0	24									8	08		06
	15	0010	13	17		14	76	250	0	25									8	11		06
	15	0015	11	96		17	06	258	0	23									8	13		06
	15	0020	11	55		17	31	260	0	29									8	13		06
	15	0025	11	19		19	39	245	0	35									8	11		06
77	13	0107	58	26	0	11	42	965	06	30		15	0010									
	15	0000	15	40		00	5	302	0	25									7	67		06
	15	0003	15	67		11	74	250	0	12									8	21		06
	15	0008	12	28		15	73	220	0	32									8	10		06





Country	Ship	Station number	Latitude		Longitude		Year 1	Month	Day	Stat. time	Depth to bottom m
			0: N+E 1: N+W 2: S+E 3: S+W								

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 13 0110

11	0040	10 56	18 84		0 39			06
11	0050	09 02	19 14		0 56			06
11	0060	07 69	19 36		0 50			06
11	0070	07 69	19 37		0 53			06
11	0080	08 11	19 55		0 40			06

77 13 0111 58 19 0 10 56 965 07 01 12 0105

12	0000	14 11	16 21		0 20			06
12	0005	12 88	17 56		0 22			06
12	0010	12 60	17 64		0 16			06
12	0015	12 09	18 01		0 19			06
12	0020	11 77	18 68		0 22			06
12	0030	11 15	18 99		0 31			06
12	0040	09 54	19 50		0 30			06
12	0050	08 76	19 63		0 53			06
12	0060	08 46	19 67		0 54			06
12	0070	08 00	19 70		0 62			06
12	0080	07 80	19 73		0 69			06
12	0090	07 50	19 75		0 65			06
12	0100	07 42	19 82		0 63			06

77 13 0112 58 18 0 10 51 965 07 01 13 0136

13	0000	13 37	16 49		0 12			06
13	0005	13 34	16 49		0 09			06
13	0010	13 03	16 50		0 12			06

Country	Ship	Station number	Latitude			Longitude			Year	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W	0	1					

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 13 0112

13 0015	12 19		17 37					0 21		06
13 0020	10 40		19 37					0 32		06
13 0030	08 81		19 66					0 33		06
13 0040	08 08		19 75					0 50		06
13 0050	07 55		19 87					0 55		06
13 0060	07 37		19 89					0 66		06
13 0070	06 65		19 87					0 67		06
13 0080	06 82		19 90					0 81		06
13 0090	06 64		19 90					0 83		06
13 0100	06 57		19 90					0 86		06
13 0125	06 54		19 92					0 86		06

77 13 0113 58 16 0 10 44 965 07 01 14 0200

15 0000	13 81		15 97					0 20		06
15 0005	13 74		15 97					0 16		06
15 0010	13 24		16 24					0 16		06
15 0015	10 54		18 62					0 17		06
15 0020	08 79		19 69					0 25		06
15 0030	07 35		19 80					0 48		06
15 0040	07 38		19 86					0 55		06
15 0050	06 94		19 87					0 74		06
15 0060	06 82		19 89					1 00		06
15 0070	06 71		19 91					0 86		06
14 0080	06 72		19 92					0 81		06
14 0090	06 67		19 92					0 92		06





Country	Ship	Station number	Latitude			Longitude			Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N-E	1:N-W	2:S-E	3:S-W							

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 13 0114

16 0275 06 26 19 96 1 10 06

77 13 0115 58 16 0 10 11 965 07 01 18 0440

19 0000 13 96 15 53 287 0 08 06

19 0005 13 95 15 54 277 0 04 06

19 0010 07 70 18 40 334 0 07 06

19 0015 05 73 19 41 313 0 25 06

19 0020 05 85 19 48 300 0 38 06

19 0030 05 48 19 59 295 0 48 06

19 0040 05 44 19 65 292 0 59 06

19 0050 05 91 19 72 285 0 65 06

19 0060 06 20 19 79 279 0 78 06

19 0070 06 44 19 84 271 0 94 06

18 0080 06 46 19 86 0 93 06

18 0090 06 47 19 87 0 86 06

18 0100 06 35 19 88 282 0 86 06

18 0125 06 30 19 90 0 86 06

18 0150 06 43 19 93 285 0 86 06

18 0200 06 28 19 94 283 0 92 06

18 0250 06 36 19 96 278 1 11 06

18 0300 06 32 19 97 278 1 05 06

18 0350 06 25 19 97 282 1 00 06

18 0400 06 00 19 96 272 1 09 06

Country	Ship	Station number	Latitude °	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E 1:N+W 2:S+E 3:S+W						
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code	
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>		
77 13 0116		57 48	0 10 42	965	07 01	23 0079			
	23 0000	12 43	18 21		0 13			06	
	23 0005	12 39	18 20		0 10			06	
	23 0010	12 43	18 20		0 05			06	
	23 0015	12 39	18 21		0 09			06	
	23 0020	12 42	18 27		0 12			06	
	23 0030	12 57	18 32		0 08			06	
	23 0040	12 80	18 54		0 29			06	
	23 0050	12 53	18 61		0 26			06	
	23 0060	11 05	19 06		0 26			06	
	23 0070	08 50	19 69		0 52			06	
77 13 0117		57 48	0 10 52	965	07 01	24 0059			
	24 0000	13 68	18 12		0 28			06	
	24 0005	13 59	18 12		0 31			06	
	24 0010	13 74	18 12		0 23			06	
	24 0015	13 62	18 13		0 21			06	
	24 0020	13 61	18 14		0 28			06	
	24 0030	13 03	18 28		0 27			06	
	24 0040	12 85	18 31		0 29			06	
	24 0050	12 82	18 48		0 27			06	
77 13 0118		57 50	0 11 04	965	07 02	01 0047			
	01 0000	12 83	18 20		0 14			06	
	01 0005	12 93	18 20		0 17			06	
	01 0010	12 83	18 20		0 17			06	

Country	Ship	Station number	Latitude			Longitude			Year	Month	Day	Stat. time	Depth to bottom m
			0: N+E 1: N+W 2: S+E 3: S+W										

Obs. time	Obs. depth m	Temperature °C		Chlorosity	Oxygen	Phosphate-P	Total P	Silicate-Si	Card code
				g./dm <sup>3</sup>	μmol/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	
		Nitrate-N		Nitrite-N	Ammonium-N	Organic N	pH	Alkalinity	
		μg.-atoms/dm <sup>3</sup>		μg.-atoms/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>	μg.-atoms/dm <sup>3</sup>		μval/dm <sup>3</sup>	

77 13 0118

01	0015	12	86	18	20	0	12		06
01	0020	12	82	18	20	0	13		06
01	0030	12	79	18	21	0	14		06
01	0040	12	79	18	32	0	13		06

77 13 0119 57 51. 0 11 15 965 07 02 02 0068

02	0000	13	12	18	19	0	14		06
02	0005	13	12	18	19	0	13		06
02	0010	13	07	18	19	0	17		06
02	0015	13	22	18	19	0	20		06
02	0020	13	13	18	20	0	14		06
02	0030	13	20	18	21	0	20		06
02	0040	13	17	18	24	0	17		06
02	0050	13	02	18	37	0	17		06
02	0060	12	13	18	56	0	30		06

77 13 0120 57 52 0 11 18 965 07 02 02 0097

03	0000	13	11	18	20	0	24		06
03	0005	13	23	18	20	0	21		06
03	0010	13	13	18	20	0	16		06
03	0015	13	17	18	20	0	16		06
03	0020	13	14	18	20	0	16		06
03	0030	13	14	18	29	0	12		06
03	0040	13	04	18	39	0	14		06
02	0050	12	92	18	46	0	13		06



Country	Ship	Station number	Latitude	0:N+E	Longitude	Year	Month	Day	Stat. time	Depth to bottom m
				1:N+W						
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code		
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval/dm <sup>3</sup>			

77 13 0120

02 0060	10 93		18 55					06
02 0070	06 72		19 22					06
02 0080	06 32		19 27					06
02 0090	06 26		19 31					06

77 13 0121 57 52 0 11 21 965 07 02 03 0063

03 0000	13 26		18 21					06
03 0005	13 21		18 21					06
03 0010	13 32		18 21					06
03 0015	13 22		18 22					06
03 0020	13 21		18 26					06
03 0030	12 98		18 36					06
03 0040	12 92		18 46					06
03 0050	08 54		18 88					06

77 13 0122 57 53 0 11 25 965 07 02 04 0061

04 0000	12 57		17 86					06
04 0005	12 55		17 85					06
04 0010	12 66		17 86					06
04 0015	13 13		18 31					06
04 0020	13 17		18 34					06
04 0030	12 98		18 34					06
04 0040	09 76		18 68					06
04 0050	08 17		18 93					06



Country	Ship	Station number	Latitude			Longitude			Year	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E	3:S+W							
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code					
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>						

77 13 0125

11 0040	12 71	18 74	190	0 67				06
11 0050	12 23	18 93	192	0 60		8 02		06
10 0060	07 32	19 20	162	1 35		8 02		06
10 0070	06 31	19 42	127	1 91		7 84		06
10 0080	06 31	19 46	123	1 97		7 72		06
10 0090	06 30	19 48	117	2 22		7 71		06
10 0100	06 31	19 49	100	2 39		7 71		06
10 0110	06 38	19 51	091	3 16		7 68		06
						7 66		

77 13 0126

07 0000	10 27	12 98	300	0 12				06
07 0005	10 27	12 97		0 13		8 29		06
07 0010	10 25	13 07	299	0 06		8 24		06
07 0015	10 21	13 34		0 09		8 24		06
07 0022	11 91	15 38	234	0 34		8 22		06
						8 10		

77 13 0127

08 0000	10 07	12 64	303	0 05				06
08 0005	10 08	12 64		0 08		8 19		06
08 0010	10 07	12 65	305	0 11		8 19		06
08 0015	10 07	12 66		0 17		8 19		06
08 0022	11 39	15 15	280	0 96		8 19		06
						8 16		



Country	Ship	Station number	Latitude °	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m
			0:N+E 1:N+W 2:S+E 3:S+W						
Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code	
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>		
77 13 0128		58 19	0 11 22	965	10 28	09 0033			
	09 0000	10 54	13 11	298	0 11				06
	09 0005	10 52	13 11		0 12	8 15			06
	09 0010	10 56	13 34	307	0 04	8 15			06
	09 0015	10 98	14 10		0 05	8 15			06
	09 0020	11 17	14 34	289	0 07	8 15			06
	09 0030	12 78	16 98	219	0 24	8 05			06
77 13 0129		58 16	0 11 26	965	10 28	09 0060			
	09 0000	10 81	13 35	290	0 17				06
	09 0005	10 99	13 65		0 11	8 16			06
	09 0010	11 19	13 96	293	0 12	8 14			06
	09 0015	11 17	14 09		0 11	8 13			06
	09 0020	11 60	14 83		0 12	8 13			06
	09 0030	12 94	17 75	219	0 50	8 11			06
	09 0040	12 94	18 71	193	0 60	8 01			06
	09 0050	12 68	18 97	205	0 59	7 99			06
						7 98			
77 13 0130		58 15	0 11 38	965	10 28	11 0058			
	11 0000	11 65	12 65	244	0 26				06
	11 0005	11 61	12 65		0 20	8 00			06
	11 0010	12 08	12 83	224	0 25	8 00			06
	11 0015	11 75	14 31		1 15	7 94			06
	11 0020	05 74	16 05	004	2 90	7 62			06
	11 0030	05 23	16 16	004	3 33	7 21			06
	11 0040	05 18	16 17	004	3 36	7 23			06
						7 23			



Country	Ship	Station number	Latitude			Longitude	Year	Month	Day	Stat. time	Depth to bottom m
			0:N+E	1:N+W	2:S+E						

Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
		Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval/dm <sup>3</sup>	

77 13 0133								
13 0015	12 26	15 78			1 13			06
						7 64		
13 0020	12 79	16 91		145	1 11			06
						7 83		
13 0023	12 61	17 45		152	1 31			06
						7 85		
77 13 0134	58 20	0 11 53		965	10 28	14 0049		
14 0000	11 09	11 38		279	0 51			06
						7 99		
14 0005	11 11	11 45			0 52			06
						8 00		
14 0010	13 59	13 56		123	0 77			06
						7 74		
14 0015	06 45	16 15			3 52			06
						7 31		
14 0020	05 84	17 01		001	8 9			06
						7 32		
14 0030	06 04	17 45		000				06
						7 24		
14 0040	06 00	17 49		000				06
						7 22		
14 0045	06 00	17 45		000	2 2			06
						7 21		
77 13 0135	58 11	0 11 51		965	10 29	07 0024		
07 0000	10 84	12 36		272	0 32			06
						8 26		
07 0005	10 86	12 36			0 36			06
						8 26		
07 0010	10 99	12 51		265	0 30			06
						8 20		
07 0015	12 93	15 57			0 87			06
						8 00		
07 0022	13 01	17 11		160				06
						8 04		
77 13 0136	58 08	0 11 50		965	10 29	08 0048		
08 0000	10 58	11 60		288	0 23			06
						8 18		
08 0005	10 46	11 62			0 23			06
						8 12		
08 0010	10 48	11 62		288	0 17			06
						8 18		



Country	Ship	Station number	Latitude °	0: N+E 1: N+W 2: S+E 3: S+W	Longitude °	Year 1	Month	Day	Stat. time	Depth to bottom m
		Obs. time	Obs. depth m	Temperature °C	Chlorosity g./dm <sup>3</sup>	Oxygen μmol/dm <sup>3</sup>	Phosphate-P μg.-atoms/dm <sup>3</sup>	Total P μg.-atoms/dm <sup>3</sup>	Silicate-Si μg.-atoms/dm <sup>3</sup>	Card code
				Nitrate-N μg.-atoms/dm <sup>3</sup>	Nitrite-N μg.-atoms/dm <sup>3</sup>	Ammonium-N μg.-atoms/dm <sup>3</sup>	Organic N μg.-atoms/dm <sup>3</sup>	pH	Alkalinity μval /dm <sup>3</sup>	

77 13 0136

08 0015	10 73	11 85	0 25					8 16		06
08 0020	12 51	15 31	189	0 69				8 03		06
08 0030	12 83	16 46	180	0 86				8 03		06

77 13 0137 58 04 0 11 47 965 10 29 09 0027

09 0000	10 63	11 71	291	0 22				8 17		06
09 0005	10 52	11 70		0 23				8 18		06
09 0010	10 55	11 70	291	0 25				8 17		06
09 0015	10 91	12 49		0 29				8 15		06
09 0020	11 99	14 42	212	0 57				8 06		06
09 0025		15 60	187	0 96				8 03		06

77 13 0138 57 59 0 11 46 965 10 29 10 0027

10 0000	10 80	11 19	294					8 16		06
10 0005	10 83	11 71						8 17		06
10 0010	10 86	12 06	291					8 17		06
10 0015	10 95	12 30						8 16		06
10 0020	11 91	14 46	226					8 14		06
10 0025	12 58	15 82	196					8 16		06





