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Ödsmål. Kville sn, Bohuslän

Hällristning  
Fiskare från  
bronsåldern

Rock carving  
Bronze age  
fishermen



**MEDDELANDE från  
HAVSFISKELABORATORIET • LYSEKIL**

nr  
70

Hydrografiska avdelningen, Göteborg

Hydrographical Data

July - December 1968

R.V. Skagerak

R.V. Thetis

September 1969



## EXPLANATION TO THE DATA LISTS.

The lists are based on ICES oceanographic punch cards.

Explanation to headline numbers for general information.

18.. Identification No. According to the following code:

- 0 - N and E
- 1 - N and W
- 2 - S and E
- 3 - S and W

In this connexion the following rules are followed:

- 0° Latitude is taken as N
- 0° Longitude is taken as E
- 180° Longitude is taken as W.

19-21. Year. Three last figures of the year.

22-23. Month.

24-25. Day

26-27. Station Time. Starting time (to the nearest hour) of the hydrographic station in GMT.

28-31. Corrected Depth to Bottom, in metres, determined while on station.

46-47. Maximum Observation Depth. To be punched in hundreds of metres. The depths are to be punched as follows:

- 0 m. - 50 m. 00
- 51 m. - 150 m. 01
- 151 m. - 250 m. 02
- etc.

48-50. Mixed Layer Depth. The thickness, in metres, of the mixed layer, to be 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 uppermost 2 metres excluded. If the BT observation shows that the Mixed Layer extends to the bottom of the trace the depth of the trace should be punched together with an overpunch 11 in col. 50.

The columns should be left blank when no BT observation has been made.

53-54. Wind Speed, given in knots.

55-57. Temperature. Dry bulb ) Readings, in degrees centigrade to the 1st decimal place, of the dry  
and wet bulb thermometer respectively. Negative temperatures will be  
58-60. Temperature. Wet bulb ) indicated by means of an overpunch 11 in the columns 55 and 58  
respectively. The case of ice on the wet bulb will not be indicated.

61. Weather. According to the following code:

- 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.

Note. Code figure 2 is used when the total amount of clouds is 7/8 or more.

62. Cloud Amount. The fraction of the celestial dome covered by cloud, to be 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.

63. State of Sea.

Code figure	Descriptive terms	Height (x)	
		in metres	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.		

(x) The average wave height as obtained from the larger wellformed waves of the wave system being observed.

64. Occurrence of ice in the vicinity of the hydrographic station, according to the following codes:
- 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 observations of ice made (possibly due to limited visibility, or because ice observations not a part of the programme or for other reasons).

#### Explanation to headline numbers for hydrographic information.

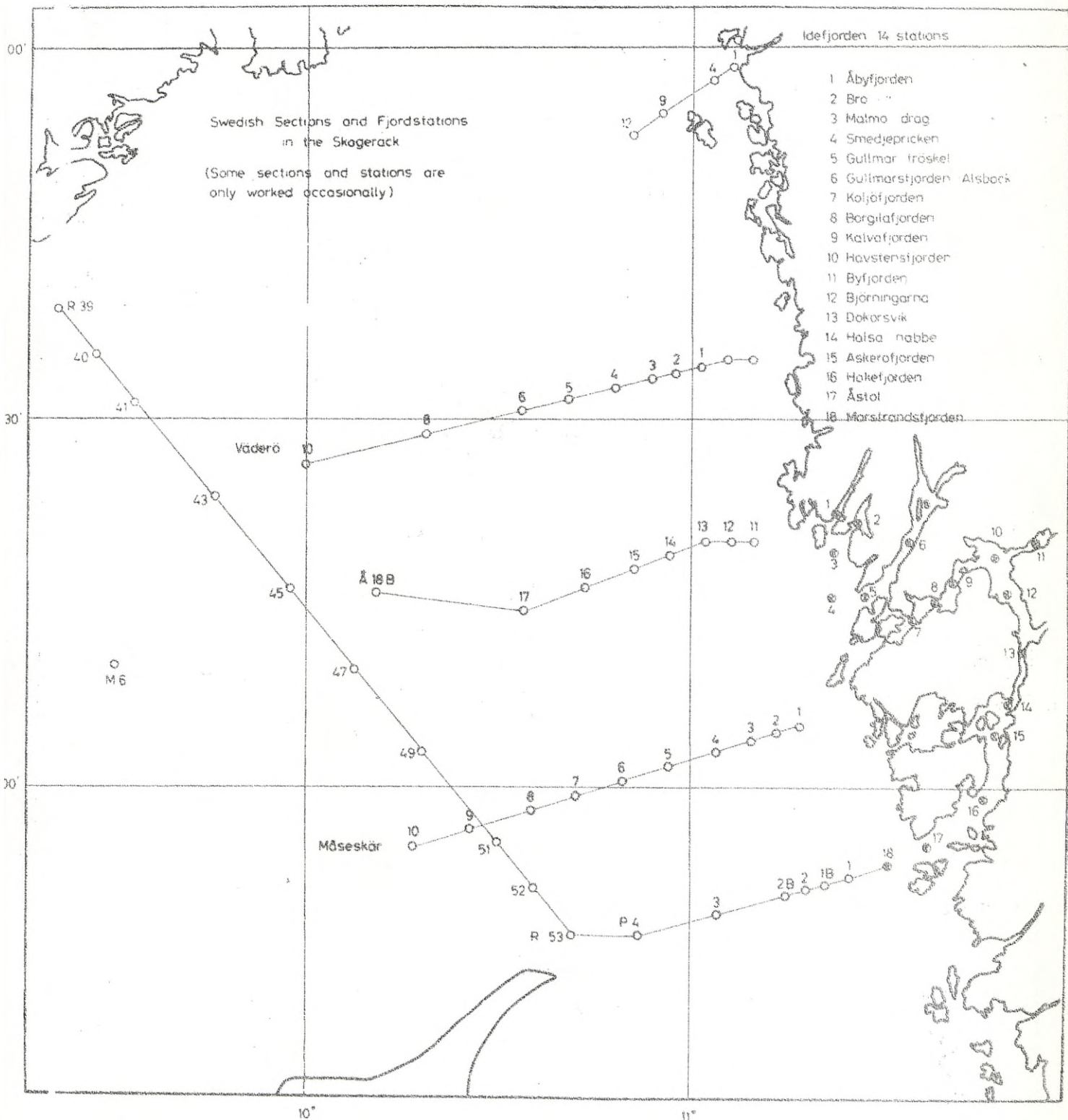
- 26-27. Observation Time. The nearest hour of the time (in GMT) for the observation. The change of day (and month) during the work at a station is indicated by adding 24 to the time in hours.
- 28-31. Observation Depth in metres. An overpunch 11 in col. 31 should be made when the depth has been obtained by application of an unprotected thermometer in this depth. That a depth is questionable is indicated by an overpunch 11 in col. 29.
- 32-35. Temperature at the Observation Depth, in degrees centigrade to the 2nd decimal place. A negative temperature is indicated by an overpunch 11 in column 32. That a temperature value is questionable is indicated by an overpunch 11 in column 33.
- 36-40. Salinity of the Sample, in parts per thousand, to the 3rd decimal place. That a salinity value is questionable is indicated by an overpunch 11 in column 37. When the salinity is known only to the 2nd decimal place column 40 will be left blank.
- 41-45.  $\sigma_t$ , given to the 3rd decimal place. A negative value of  $\sigma_t$  is indicated by an overpunch 11 of column 41. The column for the 3rd decimal place not being determined will be left blank.  $\sigma_t$  will normally be machine computed.
- 58-60. Oxygen Content, given in  $\text{cm}^3$  at NTP per  $\text{dm}^3$  of water at  $20^\circ\text{C}$  to the 2nd decimal place. If the value is  $\geq 10.00 \text{ cm}^3/\text{dm}^3$ , the excess of 10.00 is entered, and an overpunch 11 is punched in column 58. That a value is questionable is indicated by an overpunch 11 in column 59.

77. Method used for determination of salinity, according to the following codes:

- 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.

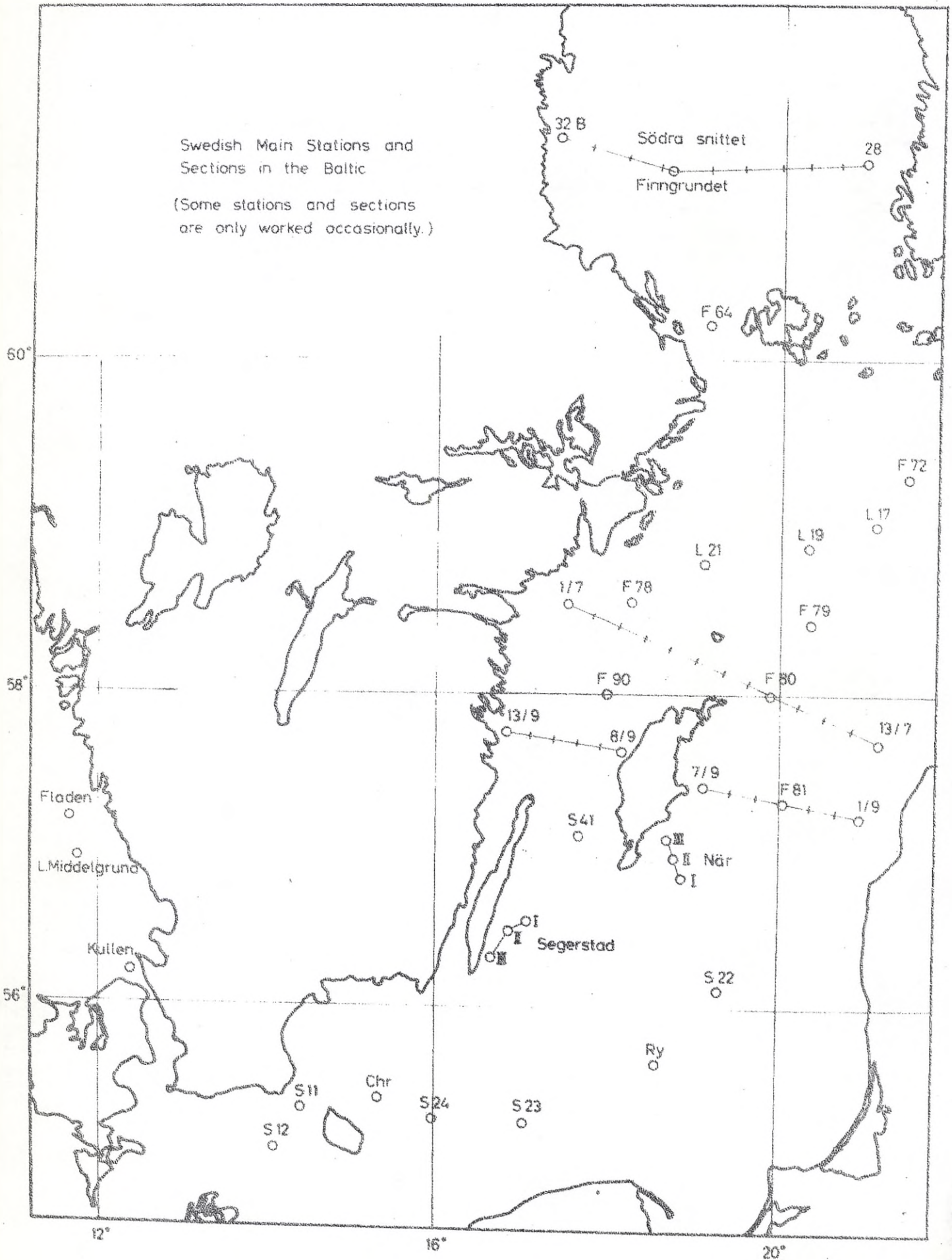
78. Extra Information. Here is indicated whether or not other information than that given in the foregoing columns exists for the depth in question. The following code is used:

- 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 only
- 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.





Swedish Main Stations and  
Sections in the Baltic  
(Some stations and sections  
are only worked occasionally.)



11 "Skagerak"

Station

77 Sweden

7 15

1968

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice						
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51	52					53	54	55	56	57	58
0141	54	55	013	19	0	968	07	30	13	0045	00	006	32	04	25	0	17	7	4	0	0	0	0	0	0	0		
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$			Oxygen		pH	Sal. method	Extra info.																	
26	27	28	29	30	31	32	33	34				35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63
13	0000	1745	0762	0459																							10	
	0010	1370	0775	0501																								
	0015	1400	0771	0526																								
	0020	1433	0791	0536																								
	0030	1336	0892	0629																								
	0040	1016	1268	0963																								
	0044	1234	1603	1195			291																					

BT Slide Sk 160./399/68  
Observer Claesson  
N 54° 55'  
E 13° 18.5'

11 "Skagerak"

Station

77 Sweden

S. Trelleborg

1968

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice						
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51	52					53	54	55	56	57	58
0142	55	12	013	18	0	968	07	31	10	0039	00	000	02	02	20	0	17	5	4	9	1	0	0	0	0	0	0	
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$			Oxygen		pH	Sal. method	Extra info.																	
26	27	28	29	30	31	32	33	34				35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63
10	0000	1703	0758	0453																							10	
	0010	1546	0769	0500																								
	0015	1390	0771	0527																								
	0020	1019	0772	0578																								
	0030	0805	0790	0612																								
	0039	1025	0898	0674			595																					

BT Slide Sk 162/399/68  
Observer Claesson  
N 55° 12'  
E 13° 17.6'

11 "Skagerak"

77 Sweden

Station

X 17

1968

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice	
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51 52	53 54					55 56
0143	55	13	013	43	0	968	07	31	13	0041	00	003	14	04	22	0	17	81	1	1	10		
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH		Sol. method		Extra info.											
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58	59 60	61 62 63	64											77	78
13	0000	1767	0750	0446																			0
	0010	1286	0754	0530																			
	0015	1340	0776	0539																			
	0020	0814	0764	0591																			
	0030	0603	0767	0608																			
	0040	0855	0864	0665	624																		
BT Slide Sk 163/399/68 Observer Claesson N 55° 13' E 13° 42.5'																							

11 "Skagerak"

77 Sweden

Station

R 1, SE Nexö

1968

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice	
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51 52	53 54					55 56
0144	54	52	015	21	0	968	08	01	08	0072	01	009	14	08	21	0							
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH		Sol. method		Extra info.											
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58	59 60	61 62 63	64											77	78
08	0000	1823	0750	0434																			0
	0010	1703	0750	0456																			
	0020	1377	0753	0515																			
	0030	0587	0756	0601																			
	0040	0379	0775	0623																			
	0050	0352	0893	0717	567																		
	0060	0365	1013	0812	404																		
	0070	0484	1338	1065	070																		
BT Slide Sk 167/395/68 Observer Claesson N 54° 51.8 E 15° 20.8																							

11 "Skagerak"

Station

77 Sweden

Bornholmsdjupet S 24

1963

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice						
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51	52					53	54	55	56	57	58
0145	55	15	015	59	0	963	03	01	16	0038	01	000	14	04	240								1	30	0			
Obs. time	Obs. depth	Temp.		Sal.		$\sigma_t$		Oxygen		pH	Sol. method	Extra info.																
26	27	28	29	30	31	32	33	34	35				36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63
16	0000	20	42	07	46	03	85																			1	0	
	0010	16	09	07	51	04	76																					
	0015	14	76	07	52	05	00																					
	0020	13	65	07	52	05	17																					
	0030	11	87	07	52	05	42																					
	0040	03	17	07	51	06	12																					
	0050	03	14	07	50	06	29	780																				
	0060	03	67	09	61	07	71	440																				
	0070	05	04	13	42	10	67	070																				
	0080	05	69	14	47	11	45	042																				
	0038	05	38	14	33	11	30	015																				

Slide Sk 170/395/68  
Observer Claesson

11 "Skagerak"

77 Sweden

Station

Rysshålan

1968

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.				N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice					
	°	'	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51	52					53	54	55	56	57
0146	56	01	018	52	0		968	08	02	07	0120	01	000	09	06	19	0						4	9	1	0			
Obs. time	Obs. depth	Temp.	Sol.	σ <sub>t</sub>	Oxygen		pH		Sol. method		Extra info.																		
25	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78	
07	0000	1795	0743	0434																								1	0
	0010	1668	0740	0456																									
	0015	1374	0740	0505																									
	0020	1357	0741	0509																									
	0030	0924	0745	0566																									
	0040	0408	0757	0607																									
	0050	0255	0764	0615																									
	0060	0245	0768	0619																									
	0070	0240	0786	0633	747																								
	0080	0423	0972	0778	141																								
	0090	0420	1034	0827	219																								
	0100	0467	1094	0872	085																								
	0110	0498	1120	0892	030																								
	0115	0503	1131	0900	022																								

BT Slide Sk 171/395/68  
Observer Claesson

11 "Skagerak"

Station

77 Sweden

S 41

1968

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice														
	o	'	o	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	58	59					60	61	62	63	64									
0147	57	07	017	40	0	968	08	05	12	0110	01	000	14	02	200	18	7	1	2	10																
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$			Oxygen		pH	Sel. method	Extra info.																								
26	27	28	29	30	31	32	33	34	35				36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78					
12	0000	18	54	07	05	0	394																						1	0						
	0010	16	09	07	16	0	449																													
	0015	13	88	07	19	0	488																													
	0020	11	61	07	18	0	519																													
	0030	05	83	07	22	0	574																													
	0040	03	93	07	29	0	586																													
	0050	03	52	07	44	0	599																													
	0060	03	32	07	86	0	633																													
	0070	03	57	08	66	0	695																													
	0080	04	25	09	93	0	794																													
	0090	04	31	10	10	0	807	014																												
	0100	04	38	10	21	0	816																													
	0108	04	34	10	33	0	826																													

BT Slide Sk 173/395/68  
Observer Claesson

11 " Skagerak"

Station

77 Sweden

SE När

1968

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.				N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice		
	c	i	o	i	Year	Mo.		Day	Dir.	Sp. kn.					Dry bulb	Wet bulb	51 52	53 54	55 56	57 58					59 60	61
0148	57	11	018	50	0		19	08	07	15	0045	00	008	14	04	200	19	11	1	0	0					
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$			Oxygen		pH	Sal. method	Extra info.														
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	56 57 58	59 60				61 62 63 64	77	78											
15	0000	1932	0712	0383																						
	0010	1770	0739	0436																						
	0015	1596	0740	0469																						
	0020	1362	0741	0508																						
	0030	0729	0741	0580																						
	0040	0454	0757	0606																						
	0043	0397	0757	0608																						
												BT Slide Sk 180/399/68														
												Observer Claesson														
												N 57° 11.3'														
												E 18° 50'														

11 "Skagerak"

Station

77 Sweden

NE Gotska Sandön

1968

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.				N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice
	°	'	°	'	"	Year		Mo.	Day	Dir.					Sp. kn.	Dry bulb	Wet bulb							
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	45 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64				
0149	58	31	019	27	0	968	08	08	16	0083	01	000	11	06	19	0	19	6	11	0	0			
Obs. time	Obs. depth	Temp.			Sol.	σ <sub>t</sub>			Oxygen		pH	Sol. method	Extra info.											
								ml/l	%															
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58	59 60	61 62 63 64		77	78											
16	0000	1951	0679	0354																				
	0010	1755	0710	0418																				
	0015	1576	0723	0461																				
	0020	1350	0727	0500																				
	0030	0533	0723	0577																				
	0040	0392	0743	0597																				
	0050	0317	0759	0611																				
	0060	0253	0782	0630																				
	0070	0361	0893	0717				341																
	0080	0424	0989	0791				098																

BT Slide Sk 182/395/68

Observer Claesson





11 "Skagerak"

77 Sweden

Station

Fladen

1968

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Tps				
	o	'	o	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	58	59					60	61	62	63
0151	57	12	011	40	0	968	09	02	14	0075	01	005	14	14	19	0							2	7	3	0
Obs. time	Obs. depth	Temp.		Sol.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Tot. P µgat/l	NO <sub>3</sub> -N µgat/l	Si µgat/l	Sed. material	Extra info.												
24 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 47	43 44 45								ml/l	%	61 62 63 64	77	78							
14	0000	1828	19823	1368	612			821	0.06	0.35																
	0005	1826	19800	1366	613			824	0.04	0.17																
	0010	1633	29773	2169	575			826	0.06	0.23																
	0015	1411	32502	2425	531			819	0.11	0.24																
	0020	1246	33387	2526	518			813	0.21	0.34																
	0030	1022	34189	2630	469			807	0.51	0.94																
	0040	0955	34389	2657	469			806	0.64	0.81																
	0050	0919	34541	2675	440			803	0.78	0.94																
	0060	0880	34658	2691	398			802	0.87	1.02																
	0070	0852	34787	2705	427			795	0.93	1.04																
	0000								0.10	1.49																
	0005								0.11	6.68																
	0010								0.07	3.85																
	0015								0.17	4.94																
	0020								1.86	7.95																
	0030								4.88	12.00																
	0040								5.98	12.74																
	0050								0.36	16.11																
	0060								3.50	18.40																
	0070								0.02	19.58																
BT Slide Sk 184/11601/68																										
Observer Engström																										
N 57° 11.5'																										
E 11° 40'																										



11 "Skagerak"

Station

77 Sweden

Kullen

1968

Hydro Depth Observations (Code 0 3)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																							
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51	52					53	54	55	56	57	58	59	60	61	62	63	64											
																																			5	6	7	8	9	10	11	12	13	14	15
0153	56	14	012	22	0	968	09	02	21	0024	00	006	16	16	179	16	02	7	20																										
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$		Oxygen		pH	$PO_4-P$ μgat/l	Tot. P μgat/l	77	78																																
						ml/l	%																																						
21	0000	18	11	12	46	08	14	65	8	797	0.07	0.40	3	3																															
	0005	18	11	12	96	08	51	65	6	802	0.07	0.40																																	
	0010	13	11	12	47	19	04	50		776	0.28	0.68																																	
	0015	07	85	33	42	26	08	47		770	0.52	0.26																																	
	0020	07	54	33	48	26	17	41		763	0.80	0.96																																	
											$NO_3-N$	Si																																	
											μgat/l	μgat/l																																	
	0000										0.07	7.98																																	
	0005										0.07	10.30																																	
	0010										0.76	10.30																																	
	0015										6.59	25.20																																	
	0020											27.40																																	

BT Slide Sk 186/399/68  
Observer Engström  
N 56° 14'  
E 12° 22.2'

11 "Skagerak"

Station

77 Sweden

1968

Arkona

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
	5	6	7	8		9	10	11					12	13	14	15					16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54
0154	55	00	014	05	0	968	09	03	09	0048	00	009	11	12	18	4	16	91	2	3	0																								
Obs. time	Obs. depth	Temp.		Sal.		$\sigma_t$		Oxygen		pH	PO <sub>4</sub> -P μgat/l	Tot.P μgat/l	Alk. Mval/l	Sal. method	Extra info.																														
26	27	28	29	30	31	32	33	34	35							36	37	38	39	40	41	42	43	44	45	55	59	60	61	62	63	64													
09	0000	1775	0746	0440	670					818	0.05	0.34	1.503	1	3																														
	0005	1767	0749	0444	661					815	0.06	0.27																																	
	0010	1714	0752	0456	652					821	0.06	0.26	1.479																																
	0015	1698	0749	0458	649					819	0.07	0.30																																	
	0020	1486	0761	0504	607					814	0.13	0.22																																	
	0030	0914	0913	0699	539					771	0.27	0.49	1.527																																
	0040	1330	1196	0863	457					777	0.57	0.65	1.622																																
	0045	1406	1448	1044	375					767	0.74	0.93	1.689																																
	0000										NO <sub>3</sub> -N μgat/l	Si μgat/l																																	
	0005										0.00	15.10																																	
	0010										0.00	16.00																																	
	0015										0.00	12.32																																	
	0020										0.02	12.32																																	
	0030										0.12	13.70																																	
	0040										0.87	17.84																																	
	0045										2.14	23.60																																	
											4.33	29.30																																	

BT Slide Sk 187/399/68  
Observer Engström

11 "Skagerak"

Station

77 Sweden

Hamrarna sund

1968

Hydro Depth Observations (Code 03)

Station No.				Lat.				Long.				N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																
5	6	7	8	9	10	11	12	13	14	15	16		17	18	19					20	21	22	23	24	25					26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55
0155	55	18	014	24	0	968	09	03	12	0047	00	014	09	06	19	8	17	91	4	20																									
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P $\mu\text{g}/\text{l}$	Tot.P $\mu\text{g}/\text{l}$	NO <sub>3</sub> -N $\mu\text{g}/\text{l}$	Si $\mu\text{g}/\text{l}$	Sol. method	Extra info.																																
					ml/l	%																																							
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78																	
12	0000	1773	0756	0448	673			814	0.04	0.27		1	3																																
	0005	1750	0755	0451	629			821	0.06	0.20																																			
	0010	1729	0755	0456	683			818	0	0.28																																			
	0015	1599	0756	0481	662			808	0.06	0.33																																			
	0020	1127	0760	0555	639			779	0.16	0.37																																			
	0030	0775	0767	0596	650			764	0.23	0.50																																			
	0040	0612	0779	0616	671			754	0.30	0.44																																			
	0045	1375	1435	1039	331			748	0.86	0.75																																			
	0000								0.00	12.87																																			
	0005								0.00	12.79																																			
	0010								0.00	11.58																																			
	0015								0.00	11.20																																			
	0020								0.00	13.89																																			
	0030								0.12	16.90																																			
	0040								0.43	17.10																																			
	0045								4.77	33.00																																			
BT Slide Sk 188/399/68																																													
Observer Engström																																													
N 55° 17.5'																																													
E 14° 24'																																													

11 "Skagerak"

Station

77 Sweden

Christiansö

1968

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice	
	o	'	o	'	''		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	60	61					62
0156	55	24	015	17	0	968	09	03	16	0090	01	022	09	16	19	2	17	52	7	30				
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$		Oxygen		pH	PO <sub>4</sub> -P	Tot. P	Sal. method	Extra info.											
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58		59 60	61 62 63 64			65	66	67	68							
		mi/l	%							µgat/l	µgat/l													
16	0000	1759	0751	0446	672				816	0.05	0.27		13											
	0005	1759	0750	0446	673				820	0.03	0.24													
	0010	1753	0751	0447	686				821	0.03	0.27													
	0015	1705	0751	0457	656				818	0.05	0.21													
	0020	1697	0751	0460	644				813	0.04	0.19													
	0030	0768	0761	0592	669				771	0.16	0.23													
	0040	0416	0796	0638	694				750	0.29	0.34													
	0050	0451	0862	0688	591				755	0.38	0.41													
	0060	0565	0966	0766	465				750	0.49	0.53													
	0070	0615	1299	1026	158				720	1.22	1.31													
	0080	0572	1446	1144	018				612	3.93	2.88													
										NO <sub>3</sub> -N	Si													
										µgat/l	µgat/l													
	0000									0.00	10.47													
	0005									0.00	10.47													
	0010									0.00	10.65													
	0015									0.00	11.40													
	0020									0.00	11.40													
	0030									0.10	14.70													
	0040									0.93	18.10													
	0050									1.61	20.50													
	0060									2.09	24.02													
	0070									5.15	48.90													
	0080									1.34	70.70													
										BT Slide Sk 189/11601/68														
										Observer Engström														
										N 55° 23.5														
										E 15° 17'														

11 "Skagerak"

Station

77 Sweden

Bornholmsdjupet

1968

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice	
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb					
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64	
0157	55	15	015	59	0	968	09	03	19	0093	01	025	09	12	18	6	17	7	15	3	0
Obs. time	Obs. depth		Temp.		Sal.	$\sigma_t$		Oxygen		pH	PO <sub>4</sub> -P	Tot.P	Alk.	Sal. method	Extra info.						
26 27	28 29 30 31	32 33	34 35	36 37 38 39 40	41 42	43 44 45	58	59 60	61 62 63 64		µgat/l	µgat/l	Mval/l			77	78				
19	0000	1760	0747	0444	682					818	0.05	0.27	1.447	1	3						
	0005	1757	0753	0449	680					820	0.06	0.30									
	0010	1753	0754	0450	680					821	0.06	0.21	1.457								
	0015	1713	0753	0457	661					817	0.04	0.19									
	0020	1622	0753	0475	640					813	0.03	0.13									
	0030	1040	0755	0562	616					780	0.09	0.13	1.452								
	0040	0383	0769	0618	762					762	0.28	0.31									
	0050	0363	0821	0660	649					744	0.36	0.40	1.484								
	0060	0429	1064	0851	373					723	0.65	0.73	1.579								
	0070	0513	1345	1069	067					695	1.21	1.26	1.678								
	0080	0591	1502	1186	017					705	3.96	4.22	1.797								
	0087	0590	1510	1193						715	5.18	5.55	1.821								
											NO <sub>3</sub> -N	Si.	H <sub>2</sub> S								
											µgat/l	µgat/l	µgat/l								
	0000										0.00	10.93									
	0005										0.00	10.93									
	0010										0.00	10.93									
	0015										0.00	10.64									
	0020										0.00	10.83									
	0030										0.00	13.22									
	0040										0.22	15.70									
	0050										1.34	18.74									
	0060										2.81	29.60									
	0070										4.77	47.25									
	0080										0.00	64.10									
	0087										0.00	65.90	0.90								
BT Slide Sk 190/11601/68																					
Observer Engström																					



11 "Skagerak"

Station

77 Sweden

Stolpe ränna

1968

## Hydro Depth Observations (Code 0 3)

Station No.	Lat.			Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																					
	Year		Mo.	Day	Dir.	Sp. kn.		Dry bulb	Wet bulb	55					56	57	58	59	60																										
	5	6																		7					8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
0158	55	13	017	04	0	968	09	03	24	0090	01	012	07	12	19	1	18	01	6	3	0																								
Obs. time	Obs. depth	Temp.			Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	Si	Sal. method	Extra info.																															
26	27	28	29	30	31	32	33	34		35	36	37			38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78														
24	0000	1746	0757	0453	672	811	0.04	0.12	7.07	17																																			
	0005	1743	0755	0453	678	818	0.05	0.09	8.72																																				
	0010	1746	0753	0451	683	816	0.05	0.48	9.19																																				
	0015	1733	0753	0453	677	817	0.06	0.10	10.85																																				
	0020	1638	0753	0472	632	810	0.05	0.43	9.38																																				
	0030	0867	0752	0577	635	775	0.17	0.78	12.87																																				
	0040	0449	0778	0623	677	752	0.37	0.91	17.26																																				
	0050	0380	0882	0707	582	735	0.42	1.58	23.15																																				
	0060	0445	1024	0818	428	720	0.60	1.79	17.83																																				
	0070	0476	1126	0897	344	714	0.73	2.26	27.20																																				
	0080	0476	1215	0967	213	697	1.07	2.37	27.15																																				
	0085	0585	1273	1008	136	694	1.38	3.21	36.62																																				
														BT Slide Sk 191/11601/68																															
														Observer Engström																															

11 "Skagerak"

77 Sweden

1968

Station

Rysshålan

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0159	55	38	018	36	0	968	09	04	06	0097	01	005	07	06	19	6	18	8	00	2	0																								
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	Sal. method	Extra info.																																	
26	27	28	29	30	31	32	33		34	35			36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78														
06	0000	19	01	07	40	04	10	6	43	8	33	0.04	0.33	1	3																														
	0005	18	99	07	42	04	12	6	89	8	42	0.04	0.26																																
	0010	17	36	07	44	04	45	6	79	8	35	0.05																																	
	0015	16	85	07	44	04	57	6	33	8	22	0.06	0.24																																
	0020	16	59	07	45	04	62	6	13	8	22	0.05	0.21																																
	0030	08	54	07	46	05	73	6	59	7	91	0.13	0.27																																
	0040	03	50	07	62	06	13	7	75	7	69	0.22																																	
	0050	02	59	07	71	06	21	8	20	7	57	0.19	0.36																																
	0060	02	46	07	76	06	24	7	93	7	40	0.28																																	
	0070	03	28	08	74	07	01	4	74	7	01	0.66	0.76																																
	0080	04	30	10	29	08	23	1	50	6	83	1.52	1.62																																
	0090	04	25	10	70	08	56	1	11	6	82	1.62	2.02																																
												NO <sub>3</sub> -N	Si																																
												µgat/l	µgat/L																																
	0000											0.00	11.21																																
	0005											0.05	13.31																																
	0010											0.12	11.57																																
	0015											0.02	12.12																																
	0020											0.00	12.94																																
	0030											0.00	14.60																																
	0040											0.53	15.17																																
	0050											0.43	15.17																																
	0060											0.60	17.10																																
	0070											2.71	30.40																																
	0080											4.45	44.95																																
	0090											5.50	51.70																																

BT Slide Sk 192/11601/68  
Observer Engström



11 "Skagerak"

77 Sweden

Station  
Klaipeda

1968

Hydro Depth Observations (Code 03)

Station No.	Lat.			Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice		
	o	'	"	o	'	"		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	58	59					60	61
0160	56	07	019	19	0	968	09	04	10	0114	01	007	11	14	19	7	18	2	16	2	0					
Obs. time	Obs. depth	Temp.			Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Tot. P µgat/l	Sal. method	Extra info.													
		32	33	34			35	36						37	38	39	40	41	42	43	44	45	58	59	60	61
10	0000	19	10	07	36	04	06	708	823	0.05	0.26													1	3	
	0005	19	19	07	35	04	03	711	835	0.04	0.28															
	0010	18	57	07	33	04	14	707	833	0.06	0.33															
	0015	17	35	07	31	04	36	667	823	0.07	0.27															
	0020	16	57	07	33	04	53	604	813	0.04	0.27															
	0030	10	56	07	42	05	50	593	777	0.06	0.57															
	0040	04	63	07	57	06	06	730	764	0.07	0.24															
	0050	02	76	07	67	06	18	797	775	0.17	0.36															
	0060	02	64	07	71	06	21	742	773	0.15	0.23															
	0070	03	50	08	89	07	13	353	724	0.81	0.26															
	0080	04	30	10	13	08	10	146	706	1.17	1.25															
	0090	04	51	10	45	08	34	092	702	1.32	1.42															
	0100	04	69	10	75	08	58	079	702	1.57	1.60															
	0110	04	92	11	20	08	92	052	702	1.81	1.88															
	0000																									
	0005																									
	0010																									
	0015																									
	0020																									
	0030																									
	0040																									
	0050																									
	0060																									
	0070																									
	0080																									
	0090																									
	0100																									
	0110																									
										NO <sub>3</sub> -N		Si														
										µgat/l		µgat/l														
										0.00		10.39														
										0.05		10.20														
										0.05		9.74														
										0.00		10.00														
										0.05		10.48														
										0.66		12.86														
										0.68		15.60														
										0.67		14.50														
										0.56		15.80														
										2.33		28.45														
										4.83		51.70														
										5.07		56.80														
										6.13		60.50														
										7.75		62.65														

BT Slide Sk 193/11601/68

Observer Engström

11 "Skagerak"  
77 Sweden

Station  
S 41

1968  
Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb				
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61 62	63 64		
0161	57	07	017	40	0	968	09	04	19	0109	01	005	11	06	20	0	18	21	3	20
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	Alk.	Sal. method	Extra info.							
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45		58 59 60	61 62 63 64	77			78						
19	0000	1899	0704	0384	688			827	0.05	0.34	1.414	1	3							
	0005	1897	0701	0382	678			835	0.05	0.21										
	0010	1869	0704	0390	685			831	0.04	0.20	1.436									
	0015	1668	0716	0438	646			819	0.05	0.15										
	0020	1558	0727	0466	641			812	0.06	0.21										
	0030	0794	0720	0557	716			787	0.07	0.21										
	0040	0444	0744	0597	738			767	0.34	0.37										
	0050	0356	0785	0632	601			744	0.65	0.67	1.455									
	0060	0358	0828	0665	454			715	1.16	1.21										
	0070	0403	0939	0752	123			690	2.25	2.22	1.541									
	0080	0431	1007	0805	010			683	2.66	2.72	1.598									
	0090	0436	1025	0820	011			686	2.88	3.12	1.611									
	0100	0439	1029	0822				687	3.04	3.37	1.598									
	0105	0439	1033	0826				687	3.30	3.41	1.576									
									NO <sub>3</sub> -N	Si	H <sub>2</sub> S									
									μgat/l	μgat/l	μgat/l									
	0000								0.12	13.22										
	0005								0.17	12.69										
	0010								0.51	12.50										
	0015								0.07	13.41										
	0020								0.39	13.22										
	0030								0.05	15.90										
	0040								0.56	19.65										
	0050								1.71	25.35										
	0060								2.49	34.20										
	0070								3.52	51.40										
	0080								0.10	59.35										
	0090								0.05	67.70										
	0100								0.00	60.50	5.20									
	0105								0.00	70.40	6.10									

BT Slide Sk 194/11601/68

Observer Engström

11 "Skagerak"  
77 Sweden

Station  
9/9

1968  
Hydro Depth Observations (Code 03)

Station No.	Lat.			Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice
	°	'	''	°	'	''		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	58	59				
0162	57	40	017	56	0	968	09	04	23	0101	01	005	11	06	18	4	17	51	4	20				
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	Alk.	Sal. method	Extra info.											
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45		58 59 60	61 62 63 64	µgat/l			µgat/l	Mval/l	77	78							
23	0000	1844	0684	0380	674			838	0.05	0.30	1.355	1	3											
	0005	1843	0684	0380	676			835	0.05	0.24														
	0010	1677	0707	0430	678			823	0.04	0.23	1.409													
	0015	1185	0726	0522	662			791	0.09	0.28														
	0020	0827	0716	0552	713			786	0.07	0.18														
	0030	0534	0726	0580	760			777	0.14	0.19	1.420													
	0040	0584	0730	0580	755			769	0.21	0.20														
	0050	0390	0746	0600	734			762	0.29	0.34	1.452													
	0060	0339	0822	0651	449			727	1.04	1.08	1.501													
	0070	0388	0919	0736	180			699	1.94	2.02	1.544													
	0080	0428	1003	0802	019			691	2.55	2.72	1.587													
	0090	0445	1036	0828	011			701	2.83	2.95	1.608													
	0097	0443	1042	0832				694	3.00	3.41	1.608													
									NO <sub>3</sub> -N	Si.	H <sub>2</sub> S													
									µgat/l	µgat/l	µgat/l													
	0000								0.24	12.60														
	0005								0.07	12.30														
	0010								0.07	12.76														
	0015								0.20	15.42														
	0020								0.00	13.60														
	0030								0.00	17.28														
	0040								0.00	14.70														
	0050								0.24	15.81														
	0060								1.11	21.05														
	0070								2.37	32.47														
	0080								0.82	40.45														
	0090								0	38.38														
	0097								0	31.92	3.58													

BT Slide Sk 195/11601/68  
Observer Allersand

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Hydro Depth Observations (Code 03)

Station No.	Lat.			Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice
	o	'	''	o	'	''		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	55	56				
0163	58	00	018	00	00	0	968	09	05	01	0200	02	010	09	10	18	8	17	80	0	20			
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	Alk.	Sal. method	Extra info.												
26 27	28 29 30 31	32 33 34 35	36 37 38 39 40	41 42	43 44 45	58 59 60		61 62 63 64	$\mu\text{g}/\text{l}$	$\mu\text{g}/\text{l}$			Mval/l	77	78									
02	0000	1828	0684	0383	687		834	0.04	0.28	1.395	1	3												
	0005	1828	0685	0384	685		838	0.05	0.30															
	0010	1824	0683	0383	687		837	0.04	0.21	1.398														
	0015	1709	0693	0413	644		830	0.03	0.31															
	0020	0953	0701	0529	639		787	0.06	0.28															
	0030	0511	0720	0576	801		794	0.09	0.15	1.430														
	0040	0397	0729	0586	801		786	0.17	0.26															
	0050	0327	0744	0599	756		774	0.27	0.37	1.452														
	0060	0285	0771	0619	721		763	0.37	0.49															
	0070	0387	0913	0732	213		714	1.60	0.96	1.530														
	0080	0424	0993	0794	040		700	2.52	2.88															
	0090	0440	1029	0822	011		699	2.94	3.22															
	0100	0443	1043	0833	013		702	2.84	3.13	1.603														
01	0125	0454	1054	0842	009		697	3.20	3.58															
	0150	0452	1059	0846			696	3.31	3.80															
	0175	0462	1063	0848			707	3.20	3.68															
	0190	0459	1066	0851			705	3.10	3.70	1.610														

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## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice
	o	'	o	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb				
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64
0163																				
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	Si. H <sub>2</sub> S NO <sub>3</sub> -N			Sal. method	Extra info.								
					ml/l	%		$\mu\text{gat/l}$	$\mu\text{gat/l}$	$\mu\text{gat/l}$										
26 27	28 29 30 31	32 33 34 35	36 37 38 39 40	41 42 43 44 45	58 59 60	61 62 63 64							77	78						
02	0000												11.02		0.05					
	0005												12.69		0.15					
	0010												11.67		0.15					
	0015												12.87		0.20					
	0020												15.62		0.10					
	0030												12.69		0.00					
	0040												12.96		0.10					
	0050												14.32		0.20					
	0060												12.78		0.15					
	0070												36.08		1.50					
	0080												38.30		1.18					
	0090												53.45		0.65					
	0100												41.55		0.33					
01	0125												31.82		0.00					
	0150												33.70	2.95	0.00					
	0175												37.55	2.63	0.05					
	0190												49.15	3.20	0.05					



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## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb						
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64		
0164	58	35	018	14	0	968	09	05	07	0459	04	010	09	10	19	7	18	31	3	30		
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P $\mu$ gat/l	Tot.P $\mu$ gat/l	Alk. Mval/l	Sal. method	Extra info.										
26 27	28 29 30 31	32 33	34 35	36 37 38 39 40	41 42	43 44 45							58 59 60	61 62 63 64	77 78							
09	0000	1849	0676	0373	693			840	0.03	0.28	1.358	1	3									
	0005	1845	0676	0373	681			842	0.04	0.28												
	0010	1837	0678	0377	676			842	0.05	0.27												
	0015	1805	0683	0387	648			836	0.07	0.27												
	0020	1752	0690	0402	616			829	0.06	0.19												
	0030	0778	0712	0552	718			801	0.05	0.09	1.417											
	0040	0453	0722	0578	819			802	0.06	0.14												
	0050	0395	0741	0596	795			784	0.07	0.31	1.455											
	0060	0286	0769	0619	753			763	0.28	0.36	1.455											
	0070	0372	0901	0722	258			712	1.46	1.63	1.527											
	0080	0436	1013	0810				691	2.29	2.38	1.579											
	0090	0451	1042	0832	019			690	2.70	2.95	1.587											
	0100	0460	1054	0841	020			689	2.36	2.55	1.598											
07	0125	0409	1073	0859	015			681	2.54	2.75	1.614											
	0150	0479	1084	0864	009			680	2.32	2.88	1.616											
	0175	0478	1095	0873	011			678	2.88	3.12	1.622											
	0200	0482	1100	0877	013			676	2.90	3.11	1.635											
	0300	0485	1106	0881	012			635	3.08	3.37	1.641											
	0400	0488	1109	0884	011			651	3.04	3.18	1.614											
	0440	0491	1109	0883	010			639	2.95	3.23	1.616											

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Observer Engström

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## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																													
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	55	56					57	58	59	60																									
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64						
0164																																																			
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	NO <sub>3</sub> -N	Si.	Sal. method	Extra info.																																							
						ml/l	%		ugat/l	ugat/l																																									
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64																	77	78							
09	0000																																																		
	0005																																																		
	0010																																																		
	0015																																																		
	0020																																																		
	0030																																																		
	0040																																																		
	0050																																																		
	0060																																																		
	0070																																																		
	0080																																																		
	0090																																																		
	0100																																																		
07	0125																																																		
	0150																																																		
	0175																																																		
	0200																																																		
	0300																																																		
	0400																																																		
	0440																																																		

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## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice						
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51	52					53	54	55	56	57	58
0165	58	00	019	54	0	968	09	05	16	0205	02	007	11	12	20	3	18	8	15	3	0							
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P μgat/l	Tot.P μgat/l	Alk. Mval/l	Sai. method	Extra info.															
26	27	28	29	30	31	32	33							34	35	36	37	38	39	40	41	42	43	44	45	58	59	60
16	0000	1905	0709	0387	702				839	0.04	0.21	1.439	1	3														
	0005	1904	0708	0386	708				849	0.05	0.26																	
	0010	1894	0708	0388	703				848	0.03	0.26	1.452																
	0015	0693	0713	0560	678				814	0.04	0.13																	
	0020	0662	0718	0566	756				802	0.05	0.14																	
	0030	0421	0735	0590	784				793	0.11	0.16	1.471																
	0040	0337	0746	0601	779				781	0.14	0.22																	
	0050	0295	0771	0621	739				779	0.21	0.22	1.487																
	0060	0288	0787	0625	676				768	0.33	0.28																	
	0070	0338	0865	0695	424				738	0.86	0.90	1.527																
	0080	0426	0976	0781	119				718	1.58	1.67																	
	0090	0460	1043	0832	015				713	2.19	2.11																	
	0100	0473	1078	0860	024				725	2.29	2.26	1.587																
	0125	0510	1145	0910	019				689	2.32	2.21																	
	0150	0539	1200	0953	0				696	3.20	3.45	1.670																
	0175	0545	1214	0963	0				694	3.70	3.70																	
	0190	0551	1216	0964					695	3.84	4.49	1.719																
														BT Slide Sk 198/11601/68														
														Observer Engström														

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Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																								
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																														
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	
0165																																														
Obs. time	Obs. depth	Temp.	Sol.	$\sigma_t$	Oxygen		pH	NO <sub>3</sub> -N µgat/l	Si. µgat/l	H <sub>2</sub> S µgat/l	Sol. method	Extra info.																																		
26	27	28	29	30	31	32							33	34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78												
16	0000																																													
	0005																																													
	0010																																													
	0015																																													
	0020																																													
	0030																																													
	0040																																													
	0050																																													
	0060																																													
	0070																																													
	0080																																													
	0090																																													
	0100																																													
	0125																																													
	0150																																													
	0175																																													
	0190																																													

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Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0166	57	20	020	03	0	968	09	05	23	0249	02	009	11	10	20	3	18	3	0	02	0																								
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	Alk.	method	Extra info.																																	
26	27	28	29	30	31	32		33	34	35			36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78														
23	0000	1915	0728	0398	719			0.03	0.34	1.428	1	3																																	
	0005	1909	0727	0399	730			0.03	2.81	1.428																																			
	0010	1839	0726	0413	716			0.03	0.92	1.428																																			
	0015	1733	0727	0434	651			0.03	1.09	1.436																																			
	0020	1427	0732	0492	584			0.03	1.67	1.439																																			
	0030	0548	0748	0595	769			0.05	0.19	1.452																																			
	0040	0363	0756	0608	780			0.14	0.27	1.457																																			
	0050	0306	0766	0617	775			0.21	2.29	1.452																																			
	0060	0275	0801	0645	671			0.37	3.80	1.471																																			
	0070	0384	0901	0722	288			1.02	2.21	1.536																																			
	0080	0450	1013	0808	053			1.65	2.73	1.536																																			
	0090	0472	1059	0845	032			1.90	2.15	1.560																																			
	0100	0489	1096	0874	043			1.80	2.62	1.571																																			
	0125	0523	1169	0929	014			2.12	4.50	1.622																																			
	0150	0553	1230	0975				2.45	4.13	1.670																																			
	0175	0571	1252	0992				4.24	6.53	1.703																																			
	0200	0579	1267	1003				4.95	6.08	1.713																																			
	0225	0581	1275	1009				6.12	8.54	1.740																																			
	0240	0586	1275	1009				6.30	8.90	1.738																																			
								BT Slide Sk 199/11601/68																																					
								Observer Engström																																					
								H <sub>2</sub> S																																					
								µgat/l																																					
	0150							2.32																																					
	0175							8.38																																					
	0200							11.00																																					
	0225							24.60																																					
	0240							26.80																																					

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Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51 52	53 54				
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56	57	58 59 :60	61	62	63	64	
0166																						
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	Si $\mu\text{gat/l}$	NO <sub>3</sub> -N $\mu\text{gat/l}$	NO <sub>2</sub> -N $\mu\text{gat/l}$	Sal. method	Extra info.										
					ml/l	%																
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58	59 60	61 62 63 :64	77	78										
23	0000												8.45	0.05	0.02							3
	0005												7.62	0.05	0.00							
	0010												6.98	0.10	0.02							
	0015												6.15	0.00	0.02							
	0020												9.65	0.00	0.01							
	0030												8.17	0.05	0.04							
	0040												8.72	0.10	0.19							
	0050												10.65	0.15	0.21							
	0060												11.58	0.30	0.23							
	0070												17.52	1.52	0.03							
	0080												14.31	1.98	0.02							
	0090												21.02	3.35	0.02							
	0100												18.10	3.70	0.02							
	0125												21.02	2.80	0.02							
	0150												19.68	0.05	0.04							
	0175												41.95	0.00	0.00							
	0200												37.99	0.00	0.02							
	0225												39.40	0.00	0.03							
	0240												43.47	0.05	0.03							

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Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.				N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice	
	°	'	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	60	61					62
0167	58	27	020	20	0	968	09	06	07	0127	01	014	11	06	19	9	18	8	00	2	0				
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	NO <sub>3</sub> -N	Sal. method	Extra info.													
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42		43 44 45	58	59 60			61 62 63	64	77	78									
07	0000	1886	0716	0395	694			850	0.05	0.26	0.02	13													
	0005	1884	0715	0395	691			855	0.04	0.27	0.05														
	0010	1879	0714	0395	699			855	0.03	0.21	0.02														
	0015	1866	0713	0398	689			856	0.03	0.21	0.02														
	0020	1273	0675	0470	665			810	0.05	0.11	0.07														
	0030	0447	0722	0579	814			801	0.06	0.06	0.00														
	0040	0481	0747	0598	791			803	0.07	0.08	0.12														
	0050	0311	0761	0613	776			788	0.19	0.22	0.42														
	0060	0283	0775	0624	739			779	0.34	0.28	0.64														
	0070	0352	0883	0709	369			738	1.01	1.01	2.74														
	0080	0442	1011	0808	049			716	2.18	2.15	4.67														
	0090	0467	1059	0845	018			716	2.29	2.31	5.69														
	0100	0479	1083	0864	011			715	2.58	2.62	4.08														
	0120	0494	1117	0890	006			715	3.20	3.55	0.00														
									Si.																
									μgat/l																
	0000								10.27																
	0005								10.58																
	0010								10.64																
	0015								10.10																
	0020								13.22																
	0030								13.12																
	0040								13.05																
	0050								14.69																
	0060								17.83																
	0070								36.62																
	0080								58.90																
	0090								64.00																
	0100								67.60																
	0120								76.20																

BT Slide Sk 200/11601/68

Observer Engström

N 58° 26.5'

E 20° 20'

11 "Skagerak"  
77 Sweden

Station  
L 19

1968  
Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	o	'	o	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0168	58	53	020	19	0	968	09	06	10	0190	02	013	11	08	19	7	18	3	13	2	0																								
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	Alk.	Sol. method	Extra info.																																	
26	27	28	29	30	31	32		33	34	35			36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78														
11	0000	1850	0641	0346	686		843	0.04	0.22	1.317		1	3																																
	0005	1859	0641	0344	695		848	0.04	0.18																																				
	0010	1840	0642	0348	684		852	0.05	0.18	1.336																																			
	0015	1778	0645	0363	658		849	0.05	0.16																																				
	0020	1385	0645	0431	598		822	0.06	0.11																																				
	0030	1088	0700	0513	621		814	0.07	0.13	1.395																																			
	0040	0555	0709	0564	746		805	0.15	0.18																																				
	0050	0331	0776	0625	663		779	0.49	0.49	1.479																																			
	0060	0376	0907	0727	254		739	1.50	1.49																																				
	0070	0447	1014	0810			727	2.06	2.08	1.605																																			
	0080	0468	1065	0850	015		726	2.34	2.37																																				
	0090	0477	1076	0858	012		732	2.62	2.62																																				
10	0100	0487	1088	0867	009		707	2.67	2.71																																				
	0125	0492	1111	0885	016		710	2.80	2.83																																				
	0150	0502	1127	0897			712	3.19	3.23																																				
	0175	0508	1137	0905			712	4.01	4.18	1.678																																			
								NO <sub>3</sub> -N	Si.	H <sub>2</sub> S																																			
								$\mu\text{gat/l}$	$\mu\text{gat/l}$	$\mu\text{gat/l}$																																			
	0000							0.00	13.05																																				
	0005							0.00	13.05																																				
	0010							0.02	12.86																																				
	0015							0.05	13.41																																				
	0020							0.12	14.60																																				
	0030							0.34	13.50																																				
	0040							0.48	16.09																																				
	0050							1.24	22.85																																				
	0060							2.71	44.95																																				
	0070							5.13	59.80																																				
	0080							5.12	64.10																																				
	0090							3.29	67.75																																				
	0100							3.93	68.40																																				
	0125							2.27	70.20																																				
	0150							0.02	73.05	0.50																																			
	0175							0.00	76.80	6.10																																			

BT Slide Sk 201/11601/68  
Observer Engström



11 "Skagerak"

Station

77 Sweden

L 17

1968

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice		
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51 52	53 54					55 56	57 58 59
0169	59	02	021	05	0	968	09	06	14	0180	02	009	11	08	19	6	18	8	00	1	0			
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot. P	H <sub>2</sub> S	Sol. method	Extra info.												
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42		43 44 45	58	59 60			61 62 63	64	77	78								
14	0000	1883	0672	0363	697			825	0.04	0.28		1	3											
	0005	1877	0672	0364	702			838	0.04	0.27														
	0010	1804	0676	0380	673			834	0.03	0.23														
	0015	1171	0674	0484	626			794	0.06	0.16														
	0020	0701	0691	0542	739			793	0.05	0.13														
	0030	0480	0721	0578	828			793	0.06	0.11														
	0040	0501	0748	0598	733			776	0.13	0.24														
	0050	0371	0758	0609	750			766	0.21	0.27														
	0060	0295	0781	0629	703			746	0.33	0.43														
	0070	0376	0911	0731	277			714	1.19	1.36														
	0080	0408	0991	0794	070			695	1.97	2.11														
	0090	0457	1040	0830	014			694	2.54	2.74														
	0100	0469	1066	0851	014				2.78	2.88														
	0125	0491	1112	0886	012				3.20	3.36														
	0150	0500	1123	0894					3.51	3.80	6.35													
	0170	0500	1126	0896					3.51	3.90	11.18													
									NO <sub>3</sub> -N Si.															
									μgat/l	μgat/l														
	0000								0.15	6.44														
	0005								0.10	5.34														
	0010								0.10	5.70														
	0015								0.10	7.35														
	0020								0.00	5.60														
	0030								0.00	5.42														
	0040								0.25	6.35														
	0050								0.15	7.81														
	0060								0.40	8.36														
	0070								1.00	21.50														
	0080								1.50	25.38														
	0090								0.60	33.22														
	0100								1.00	47.30														
	0125								0.10	58.00														
	0150								0.10	56.05														
	0170								0.00	51.50														

BT Slide Sk 202/11601/68

Observer Engström

11 "Skagerak"  
77 Sweden

Station  
# 72

1968

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0170	59	18	021	28	0	968	09	06	17	0115	01	015	00	00	19	8	18	70	0	0	0																								
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot. P	Alk.	Sal. method	Extra info.																																	
26	27	28	29	30	31	32		33	34	35			36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78														
17	0000	1911	0647	0261	706			836	0.05	0.23	1.360	1	3																																
	0005	1846	0648	0275	708			847	0.04	0.21																																			
	0010	1818	0647	0357	687			845	0.04	0.19	1.355																																		
	0015	1771	0658	0374	602			835	0.05	0.20																																			
	0020	0976	0649	0486	658			806	0.05	0.08																																			
	0030	0503	0704	0562	799			809	0.05	0.14	1.433																																		
	0040	0401	0721	0580	818			809	0.08	0.16																																			
	0050	0353	0738	0594	792			799	0.16	0.23	1.479																																		
	0060	0286	0784	0633	663			771	0.46	0.51																																			
	0070	0367	0903	0724	306			733	1.30	1.35	1.538																																		
	0080	0447	1022	0817	051			699	2.37	2.40	1.579																																		
	0090	0466	1054	0841	017			692	2.80	2.88	1.611																																		
	0100	0471	1063	0849	001			680	3.20	3.43	1.616																																		
	0110	0477	1078	0860				682	3.15	3.48	1.627																																		
									NO <sub>3</sub> -N	Si.	H <sub>2</sub> S																																		
									$\mu$ gat/l	$\mu$ gat/l	$\mu$ gat/l																																		
	0000								0.10	10.85																																			
	0005								0.10	11.02																																			
	0010								0.10	11.02																																			
	0015								0.10	10.48																																			
	0020								0.15	15.05																																			
	0030								0.15	13.41																																			
	0040								0.15	12.77																																			
	0050								0.30	14.50																																			
	0060								1.25	22.30																																			
	0070								2.90	42.50																																			
00	0080								5.20	63.00																																			
	0090								1.75	69.80																																			
	0100								0.20	71.60																																			
	0110								0.20	73.70	2.95																																		

BT Slide Sk 203/11601/68  
Observer Engström

11 "Skagerak"

Station

77 Sweden

1968

F 64 Ålands hav

Hydro Depth Observations (Code 03)

Station No.	Lat.			Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																					
	5	6	7	8	9	10		11	12	13					14	15	16	17	18	19					20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54
0171	60	13	019	05	0	968	09	07	04	0275	02	015	16	02	17	2	17	0	0	0	0	0	0	0	0																				
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$		Oxygen		pH	PO <sub>4</sub> -P	Tot.P	Alk.	Sal. method	Extra info.																															
26	27	28	29	30	31	32	33	34	35	36	37	38			39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78															
04	0000	16	95	05	27	02	89			8	12	0.05	0.13	1.123	1	3																													
	0005	16	90	05	26	02	89	6	95	8	20	0.04	0.14																																
	0010	16	64	05	59	03	20	6	90	8	23	0.04	0.18	1.188																															
	0015	16	26	05	52	03	22	6	66	8	18	0.05	0.16																																
	0020	12	04	05	55	03	87	6	93	7	95	0.06	0.08																																
	0030	05	45	05	68	04	53	8	13	7	88	0.12	0.12	1.204																															
	0040	06	04	06	56	05	20	7	77	7	87	0.19	0.19																																
	0050	05	36	06	80	05	42	7	87	7	88	0.25	0.20	1.377																															
	0060	04	49	06	92	05	56	8	03	7	83	0.27	0.26																																
	0070	04	33	06	96	05	59	8	02	7	76	0.30	0.28	1.409																															
	0080	04	13	07	00	05	62	7	92	7	69	0.35	0.35																																
	0090	04	24	07	05	05	66	7	84	7	67	0.44	0.95	1.422																															
	0100	04	00	07	07	05	68	7	89	7	84	0.27	0.30	1.433																															
	0125	04	11	07	14	05	73	7	74	7	82	0.32	0.34																																
	0150	04	08	07	19	05	78	7	67	7	78	0.33	0.41	1.444																															
	0175	04	16	07	23	05	81	7	54	7	79	0.37	0.41																																
	0200	04	14	07	24	05	82	7	43	7	74	0.41	0.45	1.441																															
	0225	04	03	07	27	05	84	7	33	7	67	0.44	0.52																																
	0250	04	16	07	32	05	88	7	14	7	69	0.45	0.53	1.452																															

BT Slide Sk 204/11601/68

Observer Allersand

N60° 12.5'

E19° 04.5'



11 "Skagerak"

Station

77 Sweden

1968

F 33

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	o	'	o	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0172	60	33	018	55	0	968	09	07	07	0136	01	007	23	04	17	4	16	60	0	0	0																								
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Tot.P µgat/l	Sat. method	Extra info.																																		
26	27	28	29	30	31	32						33	34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78												
07	0000	1701	0528	0287	695		824	0.04	0.15		1	3																																	
	0005	1690	0529	0292	687		824	0.04	0.21																																				
	0010	1642	0530	0300	688		819	0.02	0.07																																				
	0015	1298	0542	0365	658		804	0.06	0.06																																				
	0020	0904	0547	0413	716		789	0.04	0.05																																				
	0030	0593	0555	0440	774		784	0.07	0.12																																				
	0040	0459	0559	0449	766		791	0.07	0.09																																				
	0050	0358	0573	0463	889		797	0.08	0.07																																				
	0060	0448	0670	0538	817		789	0.22	0.21																																				
	0070	0430	0689	0553	796		788	0.28	0.26																																				
	0080	0429	0697	0562	782		786	0.28	0.29																																				
	0090	0414	0700	0562	778		786	0.34	0.36																																				
	0100	0420	0701	0563	797		783	0.34	0.36																																				
	0125	0415	0705	0567	778		783	0.27	0.33																																				
								NO <sub>3</sub>	Si.																																				
								µgat/l	µgat/l																																				
	0000							0.00	19.10																																				
	0005							0.00	19.20																																				
	0010							0.00	18.83																																				
	0015							0.02	20.32																																				
	0020							0.24	22.40																																				
	0030							1.37	24.10																																				
	0040							1.11	23.61																																				
	0050							1.02	20.78																																				
	0060							1.74	18.10																																				
	0070							1.87	17.65																																				
	0080							1.89	17.82																																				
	0090							2.00	18.38																																				
	0100							2.00	17.82																																				
	0125							2.02	18.48																																				

BT Slide Sk 205/11601/68

Observer Randers



11 "Skagerak"

77 Sweden

1968

Hydro Depth Observations (Code 03)

Station

SS 32

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice
	o	'	o	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	58	59				
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59	60	61	62	63	64	
0174	61	12	017	52	0	968	09	08	10	0075	01	010	34	06	16	5	14	8	27	2	0	
Obs. time	Obs. depth	Temp.		Sol.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	Si.	Sol. method	Extra info.									
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45		56	59 60	61 62 63	64	77	78								
10	0000	1644	0536	0305	704				794	0.08	1.30	19.21	1	3								
	0005	1648	0536	0305	705				792	0.05	0.86	19.28										
	0010	1640	0537	0307	690				789	0.05	2.32	19.57										
	0015	0799	0543	0418	750				755	0.15	0.92	22.50										
	0020	0497	0548	0439	812				753	0.06	1.15	24.00										
	0030	0345	0557	0450	841				753	0.07	2.02	25.15										
	0040	0304	0560	0452	813				747	0.10	2.08	26.05										
	0050	0270	0567	0457	773				734	0.14	1.16	27.75										
	0060	0253	0570	0460	752				723	0.19	1.47	29.00										
	0070	0240	0582	0469	701				711	0.24	0.97	31.45										
										NO <sub>3</sub> -N												
										µgat/l												
	0000									0.10												
	0005									0.20												
	0010									0.00												
	0015									0.00												
	0020									0.10												
	0030									0.55												
	0040									0.70												
	0050									2.30												
	0060									1.60												
	0070									2.75												
												BT Slide Sk 207/11601/68										
												Observer Randers										

11 "Skagerak"

77 Sweden

Station

SS 31 B

1968

Hydro Depth Observations (Code 03)

Station No.	Lat.			Long.				N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice													
	°		′	°		′	″		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	58	59					60	61	62	63	64								
	5	6	7	8	9	10																									11	12	13	14	15	16	17	18
0175	61	08	15	018	15	0	968	09	08	11	0073	01	007	34	06	16	2	14	8	27	2	0																
Obs. time	Obs. depth	Temp.	Sal.	σ <sub>t</sub>	Oxygen		pH	PO <sub>4</sub> -P	Tot. P	Alk.	Sal. method	Extra info.																										
26	27	28	29	30	31	32	33	34	35	36			37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78								
11	0000	1656	0543	0309	707			789	0.08	0.21	1.114	1	3																									
	0005		0543	0	709			793	0.06	2.95																												
	0010	1580	0542	0319	696			785	0.06	1.99	1.113																											
	0015	1233	0543	0374	680			762	0.07	1.10																												
	0020	0509	0548	0438	805			751	0.06	1.35																												
	0030	0334	0557	0450	871			753	0.10	2.44	1.172																											
	0040	0322	0562	0453	819			733	0.14	0.13																												
	0050	0275	0567	0458	786			711	0.24	0.55	1.191																											
	0060	0280	0570	0460	777			717	0.19	0.28	1.188																											
									Si.	NO <sub>3</sub> -N																												
	0000								µgat/l	µgat/l																												
	0005								19.10	0.00																												
	0010								19.20	0.00																												
	0015								19.37	0.00																												
	0020								21.60	0.05																												
	0030								22.50	0.00																												
	0040								23.80	0.30																												
	0050								25.20	0.52																												
	0060								27.00	1.10																												
									28.02	2.65																												
													BT Slide Sk 208/11601/68																									
													Observer Allersand																									



11 "Skagerak"

Station

77 Sweden

SS 31

1968

Hydro Depth Observations (Code 0 3)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																			
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	58	59					60	61																	
	5	6	7	8		9	10	11					12	13	14	15	16	17					18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50
0176	61	05	018	37	0	968	09	08	13	0036	00	007	02	10	15	8	15	1	28	2	0																				
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	Sat. method	Extra info.																														
26	27	28	29	30	31	32						33	34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78								
13	0000	16.73	0548	0309	713		790	0.05	0.18																																
	0005	16.73	0548	0309	722		793	0.04	0.20																																
	0010	15.61	0547	0328	695		786	0.03	0.18																																
	0015	13.76	0549	0358	683		777	0.05	0.30																																
	0020	06.08	0551	0436	805		748	0.05	0.50																																
	0030	03.42	0558	0450	799		747	0.06	0.40																																
	0000							0.00	19.83																																
	0005							0.00	20.00																																
	0010							0.07	20.00																																
	0015							0.02	20.20																																
	0020							0.09	23.35																																
	0030							0.58	25.25																																
											NO <sub>3</sub> -N		Si.																												
											μgat/l		μgat/l																												
											0.00		19.83																												
											0.00		20.00																												
											0.07		20.00																												
											0.02		20.20																												
											0.09		23.35																												
											0.58		25.25																												
											BT Slide Sk 209/399/68																														
											Observer Engström																														
											N 61° 04.5'																														
											E 18° 37'																														

11 "Skagerak"

Station

77 Sweden

1968

SS 30 B

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0177	61	05	019	07	0	968	09	08	15	0070	01	008	02	12	16	7	15	4	28	2	0																								
Obs. time	Obs. depth	Temp.		Sal.	σ <sub>t</sub>		Oxygen		pH	PO <sub>4</sub> -P μgat/l	Tot.P μgat/l	Sol. method	Extra info.																																
26	27	28	29	30	31	32	33	34						35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78												
15	0000	17	08	05	47	03	01	7	15	797	0.03	0.23	1	3																															
	0005	17	14	05	47	03	00	7	20	796	0.03	0.49																																	
	0010	16	42	05	45	03	12	6	90	789	0.05	0.19																																	
	0015	15	93	05	48	03	23	6	63	779	0.06	0.20																																	
	0020	12	35	05	59	03	86	6	72	766	0.06	0.42																																	
	0030	04	68	05	62	04	59	8	29	750	0.07	0.15																																	
	0040	03	44	05	70	04	60	8	25	751	0.13	0.58																																	
	0050	02	98	05	76	04	64	7	98	742	0.16	0.33																																	
	0060	02	38	06	13	04	94	7	05	699	0.10	0.68																																	
	0000										NO <sub>3</sub> -N	Si.																																	
											μgat/l	μgat/l																																	
	0000										0.04	18.93																																	
	0005										0.07	18.73																																	
	0010										0.02	19.58																																	
	0015										0.05	18.73																																	
	0020										0.18	19.30																																	
	0030										0.42	22.90																																	
	0040										1.23	25.45																																	
	0050										1.52	28.85																																	
	0060										1.55	30.23																																	
														BT Slide Sk 210/399/68																															
														Observer Allersand																															
														N 61° 04.5'																															
														E 19° 07'																															



11 "Skagerak"

Station

77 Sweden

SS 29 B

1968

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice	
	o	'	o	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb					
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62 63	64		
0179	61	06	019	57	0	968	09	08	19	0120	01	006	36	06	16	8	15	3	12	2	0
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	Alk.	Sci. method	Extra info.								
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45		58 59 60	61 62 63 64	77			78							
19	0000	1661	0536	0302	731				783	0.04	0.16	1.113	1	3							
	0005	1665	0535	0301	720				794	0.05	0.18										
	0010	1584	0537	0317	689				788	0.05	0.18	1.118									
	0015	1550	0542	0326	666				782	0.04	0.15										
	0020	0823	0546	0418	739				762	0.07	0.15										
	0030	0313	0574	0463	903				759	0.08	0.08	1.177									
	0040	0247	0580	0468	903				752	0.07	0.11										
	0050	0154	0611	0491	805				726	0.07	0.11	1.285									
	0060	0230	0634	0511	725				718	0.12	0.16										
	0070	0257	0650	0524	738				720	0.16	0.20	1.285									
	0080	0348	0661	0532	763				730	0.22	0.26										
	0090	0279	0670	0540	696				712	0.30	0.34										
	0100	0351	0677	0545	760				730	0.34	0.41	1.360									
	0110	0374	0683	0550	740				722	0.47	0.75	1.360									
	0000									Si.	NO <sub>3</sub> -N										
	0005									µgat/l	µgat/l										
	0010									20.20	0.00										
	0015									19.65	0.05										
	0020									19.22	0.00										
	0030									18.75	0.00										
	0040									19.47	0.00										
	0050									19.66	0.30										
	0060									20.58	0.25										
	0070									26.35	2.40										
	0080									28.40	1.20										
	0090									27.20											
	0100									24.00	2.80										
	0110									30.30	3.45										
										22.03	2.85										
										24.55	1.55										
														BT Slide Sk 212/11601/68							
														Observer Randers							

11 "Skagerak"

Station

77 Sweden

SS 29

1968

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																							
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	°	°					°	°																					
	5	6	7	8		9	10	11					12	13	14	15	16	17					18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54

0180	61	07	020	16	0	968	09	08	20	0115	01				36	06	16	3	14	9	1	5	2	0
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Obs. time	Obs. depth	Temp.	Sal.	σ <sub>t</sub>	Oxygen		pH	PO <sub>4</sub> -P μgat/l	Tot.P μgat/l	Si. μgat/l	NO <sub>3</sub> μgat/l	Saf. method	Extra info.
					ml/l	%							
26 27	28 29 30 31	32 33 34 35	36 37 38 39 40	41 42 43 44 45	58 59 60	61 62 63 64						77	78
20	0000	1671	0553	0313	714		779	0.04	0.14				1 3
	0005	1665	0552	0314	707		783	0.04	0.09				
	0010	1580	0558	0333	683		776	0.04	0.09				
	0015	1229	0567	0393	685		758	0.05	0.09				
	0020	0837	0571	0437	767		752	0.04	0.05				
	0030	0420	0577	0464	870		747	0.07	0.08				
	0040	0355	0602	0485	815		732	0.12	0.08				
	0050	0280	0626	0504	779		711	0.13	0.12				
	0060	0383	0649	0522	718		711	0.23	0.22				
	0070	0331	0661	0532	734		785	0.24	0.27				
	0080	0368	0670	0539	765		684	0.27	0.28				
	0090	0329	0676	0545	739		679	0.33	0.45				
	0100	0333	0679	0547	739		677	0.41	0.51				
	0110	0347	0683	0550	708		679	0.64	1.04				
	0000									19.65	0.00		
	0005									19.65	0.05		
	0010									17.54	0.00		
	0015									18.72	0.00		
	0020									19.47	0.05		
	0030									19.93	0.05		
	0040									22.41	0.25		
	0050									24.70	0.80		
	0060									22.60	1.00		
	0070									26.55	1.60		
	0080									21.50	0.95		
	0090									25.80	1.38		
	0100									25.20	1.20		
	0110									27.20	1.68		

Observer Randers  
 N 61° 06.5  
 E 20° 16'

11 "Skagerak"

Station

77 Sweden

SS 28 B

1968

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																								
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	5	6					7	8																						
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	
0181	61	07	020	37	0	968	09	08	22	0079	01	006	36	06	17	0	15	02	7	2	0																									
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$		Oxygen		pH	PO <sub>4</sub> -P	Tot.P	Sol. method	Extra info.																																		
26	27	28	29	30	31	32	33		34	35			36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78															
22	0000	1700	0545	0301		711			790	0.04	0.09	1	3																																	
	0005	1698	0554	0309		715			789	0.03	0.12																																			
	0010	1502	0564	0350		732			782	0.04	0.15																																			
	0015	0872	0576	0438		765			756	0.04	0.11																																			
	0020	0520	0579	0463		832			749	0.05	0.11																																			
	0030	0366	0589	0475		816			733	0.08	0.09																																			
	0040	0331	0608	0490		768			725	0.10	0.12																																			
	0050	0388	0626	0504		772			737	0.16	0.15																																			
	0060	0375	0644	0518		760			714	0.27	0.30																																			
	0070	0387	0660	0531		778			714	0.23	0.30																																			
										Si.	NO <sub>3</sub> -N																																			
										$\mu\text{g}/\text{l}$	$\mu\text{g}/\text{l}$																																			
	0000									18.72	0.15																																			
	0005									18.25	0.10																																			
	0010									17.63	0.00																																			
	0015									18.82	0.05																																			
	0020									20.40	0.05																																			
	0030									21.60	0.05																																			
	0040									23.70	0.90																																			
	0050									23.05	0.70																																			
	0060									23.05	0.97																																			
	0070									21.50	2.10																																			
													BT Slide Sk 213/11601/68																																	
													Observer Engström																																	
													N 61° 07.2'																																	
													E 20° 37'																																	

11 "Skagerak"

77 Sweden

Station

SS 28

1968

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																												
	°	'	°	'	''		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51 52	53 54					55 56 57	58 59 60	61	62	63	64																						
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64						
0182	61	08	020	55	0	968	09	08	23	0041	00	006	36	06	15	9	14	31	4	2	0																														
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot. P	Sol. method	Extra info.																																								
26	27	28	29	30	31	32	33	34	35			36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	μgat/l	μgat/l	77	78																			
23	0000	1669	0562	0320	731			784	0.03	0.60																																									
	0005	1662	0563	0322	725			783	0.05	0.21																																									
	0010	1033	0564	0413	724			755	0.06	0.33																																									
	0015	0479	0571	0457	808			750	0.07	0.50																																									
	0020	0369	0574	0463	892			750	0.07	0.57																																									
	0030	0329	0590	0475	829			727	0.07	0.09																																									
	0035	0319	0598	0482	805			718	0.09	0.09																																									
	0000																																																		
	0005																																																		
	0010																																																		
	0015																																																		
	0020																																																		
	0030																																																		
	0035																																																		

BT Slide Sk 214/399/68

Observer Engström

N 61° 07.5'

E 20° 55'

11 "Skagerak"

Station

77 Sweden

1968

MS 9

Hydro Depth Observations (Code 0 3)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice	
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb					
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64	
0183	61	46	020	32	0	968	09	09	04	0100	01	006	29	06	15	4	14	7	28	2	0

Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Tot. P µgat/l	Sal. method	Extra info.
					ml/l	%					
26 27	28 29 30 31	32 33 34 35	36 37 38 39 40	41 42 43 44 45	58 59 60	61 62 63 64				77	78

04	0000	1558	0496	0289	733		788	0.04	0.73		1	3
	0005	1555	0497	0290	735		786	0.04	0.67			
	0010	1286	0511	0342	751		774	0.05	0.33			
	0015	0496	0548	0438	823		753	0.10	0.67			
	0020	0385	0556	0448	869		753	0.04	1.21			
	0030	0256	0573	0462	897		756	0.06	0.21			
	0040	0205	0587	0473	867		745	0.08	0.38			
	0050	0166	0606	0487	794		730	0.12	1.05			
	0060	0204	0633	0511	692		711	0.19	0.96			
	0070	0288	0659	0531	712		705	0.28	0.79			
	0080	0300	0665	0536	699		701	0.33	1.28			
	0090	0306	0669	0539	697		697	0.39	0.68			

Si.	NO <sub>3</sub> -N
µgat/l	µgat/l
26.55	0.10
24.90	0.25
25.18	0.10
24.35	0.10
25.90	0.20
26.55	0.40
27.00	0.90
29.95	2.30
33.70	3.50
33.35	3.70
33.50	3.80
33.25	3.50

BT Slide Sk 215/11601/68  
 Observer Allersand  
 N 61° 45.5'  
 E 20° 32'



11 "Skagerak"

77 Sweden

Station

F 26

1968

Hydro Depth Observations (Code 0 3)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb						
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64		
0184	61	59	020	04	0	968	09	09	06	0134	01	006	29	06	166	154	2	83	0			

Obs. time	Obs. depth	Temp.	Sal.	σ <sub>t</sub>	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Tot. P µgat/l	Alk. Mval/l	Sal. method	Extra info.
					ml/l	%						
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58 59 60	61 62 63 64		77	78

06	0000	1605	0511	0293	724		794	0.06	0.91	1.05	1	3
	0005	1601	0512	0294	676		796		0.30			
	0010	1467	0495	0303	685		780	0.07	0.38	1.05		
	0015	1504	0559	0346	681		787	0.05	0.56			
	0020	0968	0547	0407	740		767	0.06	0.63			
	0030	0231	0573	0462	917		761	0.05	0.08	1.19		
	0040	0242	0577	0465	939		768	0.06	0.12			
	0050	0207	0580	0467	930		760	0.08	0.09	1.19		
	0060	0150	0610	0490	777		731	0.12	0.11			
	0070	0182	0632	0509	743		734	0.18	0.23	1.30		
	0080	0239	0648	0522	721		727	0.21	0.38			
	0090	0261	0659	0531	689		721	0.29	0.37			
	0100	0269	0664	0535	676		722	0.36	0.51	1.34		
	0125	0280	0670	0540	622		715	0.39	0.62	1.34		
	0000							NO <sub>3</sub> -N	Si.			
								µgat/l	µgat/l			
	0000							0.05	23.50			
	0005							0.05	24.25			
	0010							0.05	24.55			
	0015							0.10	19.82			
	0020							0.20	22.65			
	0030							0.40	24.72			
	0040							0.20	21.85			
	0050							0.25	21.85			
	0060							1.40	28.10			
	0070							2.90	28.85			
	0080							2.82	28.60			
	0090							1.65	32.05			
	0100							1.62	30.85			
	0125							4.40	35.35			

BT Slide Sk 216/11601/68  
Observer Engström

11 "Skagerak"

77 Sweden

1968

Station

MS 6

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb				
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64
0185	61	59	019	10	0	968	09	09	09	0073	01	016	36	14	159	145	2	84	0	
Obs. time	Obs. depth	Temp.		Sal.	σ <sub>t</sub>	Oxygen		pH	PO <sub>4</sub> -P	Tot. P	Sol. method	Extra info.								
26 27	28 29 30 31	32 33	34 35	36 37		38 39 40	41 42		43 44 45	58			59 60	61 62 63 64	77	78				
09	0000	15	41	05	44	03	26	719	793	0.13	0.23	1	3							
	0005	15	40	05	44	03	26	718	798	0.16	0.19									
	0010	15	39	05	45	03	26	717	795	0.22	0.36									
	0015	15	32	05	47	03	28	712	793	0.25	0.38									
	0020	11	92	05	56	03	89	690	781	0.17	0.35									
	0030	04	96	05	58	04	50	829	761	0.24	0.26									
	0040	03	30	05	73	04	62	861	756	0.29	0.42									
	0050	02	60	05	77	04	65	885	756	0.25	0.27									
	0060	02	29	06	14	04	95	659	716	0.54	0.59									
	0070	02	69	06	38	05	15	522	694	0.58	0.79									
										BT Slide Sk 217/11601/68										
										Observer Randers										
										Si	NO <sub>3</sub> -N									
										µgat/l		µgat/l								
	0000								8.54	0.10										
	0005								8.65	0.00										
	0010								7.18	0.05										
	0015								9.92	0.15										
	0020								10.55	0.25										
	0030								13.40	0.50										
	0040								8.54	0.50										
	0050								6.52	0.25										
	0060								14.95	3.20										
	0070								12.68	3.35										

11 " Skagerak "

Station

77 Sweden

1968

MS 4

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice
	o	'	o	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb				
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23 24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64	
0186	62	06	018	33	0	968	09 09 11	0083		01	013	36	16	14	9	13	6	28	4	0
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$		Oxygen		pH	PO <sub>4</sub> -P Tot. P		Salt. method	Extra info.							
26 27	28 29 30 31	32 33	34 35	36 37 38 39 40	41 42	43 44 45	58 59 60	61 62 63 64		77	78									
11	0000	15	67	05	12	02	99	707	785	0.39	0.33		1 3							
	0005	15	69	05	12	02	99	709	788	0.24	0.45									
	0010	15	71	05	13	02	99	706	787	0.24	0.23									
	0015	13	00	05	28	03	53	701	788	0.31	0.21									
	0020			05	37			676		0.30	0.35									
	0030	04	42	05	61	04	51	816	759	0.26	0.15									
	0040	02	47	05	70	04	60	866	751	0.39	0.16									
	0050	01	89	05	86	04	72	824	739	0.34	0.16									
	0060	01	89	06	11	04	92	746	730	0.54	0.21									
	0070	02	76	06	45	05	20	590	713	0.57	0.38									
	0080	02	87	06	54	05	27	553	710	0.64	0.75									
													BT Slide Sk 218/11601/68							
													Observer Allersand							
													N 62° 06'							
													E 18° 32.5'							
													Si NO <sub>3</sub> -N							
													µgat/l µgat/l							
	0000									10.00	0.10									
	0005									9.30	0.10									
	0010									8.20	0.05									
	0015									7.35	0.05									
	0020									7.07	0.05									
	0030									7.35	0.55									
	0040									11.30	0.95									
	0050									8.20	0.78									
	0060									12.40	2.00									
	0070									10.20	2.30									
	0080									10.77	3.60									

11 "Skagerak"

77 Sweden

1968

Station

MS 2

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0187	62	08	017	52	0	968	09	09	13	0070	01	021	02	06	149	134	28	3	0																										
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P Tot. P Alk.			Sal. method	Extra info.																																	
26	27	28	29	30	31	32		33	34	35			36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78														
13	0000	1590	0489	0278	691		779	0.24	0.33	1.03	1	3																																	
	0005	1589	0489	0278	695		784	0.14	0.27																																				
	0010	1559	0500	0291	689		783	0.14	0.20	1.06																																			
	0015	1540	0505	0299	690		781	0.17	0.23																																				
	0020	1532	0506	0301	684		779	0.14	0.29																																				
	0030	0389	0555	0447	857		763	0.23	0.16	1.16																																			
	0040	0301	0571	0461	773		742	0.20	0.19																																				
	0050	0233	0608	0490	666		721	0.35	0.42	1.25																																			
	0060	0242	0620	0500	606		712	0.45	0.63	1.29																																			
								BT Slide Sk 219/11601/68																																					
								Observer Allersand																																					
								N 62° 08'																																					
								E 17° 51.5'																																					
								Si NO <sub>3</sub> -N																																					
								µgat/l µgat/l																																					
	0000							5.90	0.00																																				
	0005							5.90	0.05																																				
	0010							7.00	0.10																																				
	0015							5.33	0.00																																				
	0020							7.90	0.10																																				
	0030							7.08	0.25																																				
	0040							6.25	1.05																																				
	0050							9.10	2.57																																				
	0060							9.02	2.80																																				

11 "Skagerak"

77 Sweden

1968

Station N 62° 50.5'

F 24 E 18° 56'

Hydro Depth Observations (Code 03)

Station No.	Lat.			Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																							
	o	'	"	o	'	"		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																											
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0188	62	51	018	56	0	968	09	09	24	0185	02	013	36	04	152	127	2	7	20																										
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot. P	Alk.	Sal. method	Extra info																																	
26	27	28	29	30	31	32		33	34	35			36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78														
24	0000	1543	0508	0300	710		802	0.07	0.16	1.09		1	3																																
	0005	1541	0508	0300	703		804	0.05	0.16																																				
	0010	1542	0508	0300	707		812	0.05	0.16	1.09																																			
	0015	1544	0509	0301	701		810	0.06	0.16																																				
	0020	0963	0528	0392	692		772	0.05	0.16																																				
	0030	0256	0570	0459	869		762	0.08	0.11	1.19																																			
	0040	0204	0581	0468	928		771	0.07	0.12																																				
	0050	0143	0601	0483	823		753	0.08	0.12	1.24																																			
	0060	0219	0627	0497	713		734	0.12	0.16																																				
	0070	0266	0640	0516	662		723	0.22	0.22	1.29																																			
	0080	0286	0648	0521	645		720	0.24	0.28																																				
	0090	0291	0653	0526	605		711	0.35	0.42																																				
	0100	0296	0664	0533	610		735	0.41	0.45	1.33																																			
	0125	0287	0662	0533	611		732	0.44	0.51																																				
	0150	0291	0664	0535	597		729	0.48	0.56																																				
	0175	0291	0665	0537	578		724	0.52	0.75	1.35																																			
								BT Slide Sk 220/11601/68																																					
								Observer Engström																																					
								Allersand																																					
								Si	NO <sub>3</sub> -N																																				
								µgat/l	µgat/l																																				
	0000							12.30	0.05																																				
	0005							8.80	0.00																																				
	0010							8.00	0.00																																				
	0015							19.60	0.00																																				
	0020							12.57	0.30																																				
	0030							5.52	0.33																																				
	0040							12.30	0.33																																				
	0050							8.28	0.55																																				
	0060							13.02	1.45																																				
	0070							15.78	3.35																																				
	0080							19.37	4.40																																				
	0090							14.88	3.60																																				
	0100							17.35	3.65																																				
	0125							21.18	4.30																																				
	0150							20.10	2.50																																				
	0175							21.55	2.50																																				



11 "Skagerak"

Station

77 Sweden

1968

F 16

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice	
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	60	61					62
0190	63	31	020	54	0	968	09	10	08	0024	00	014	32	04	105	099	2	82	0				
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P Tot.P		Sal. method	Extra info.											
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45		58	59 60			61 62 63	64	77	78							
08	0000	1486	0344	0183	728				780	0.05	0.12		13										
	0005	1480	0344	0184	722				785	0.06	0.11												
	0010	1477	0344	0184	726				786	0.06	0.09												
	0015	1345	0363	0218	724				784	0.05	0.08												
	0020	0972	0447	0328	740				767	0.07	0.11												
													BT Slide Sk 222/399/68										
													Observer Engström										
													N 63° 30.5'										
													E 20° 54'										
													Si NO <sub>3</sub> -N										
													µgat/l µgat/l										
	0000									14.38	0.67												
	0005									9.20	1.00												
	0010									15.95	0.85												
	0015									17.40	1.10												
	0020									10.48	1.50												

11 "Skagerak"

77 Sweden

1968

Station

F 13

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.				NSEW	Date			Station time	Depth to bottom			Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice															
	°	'	°	'	''	Year		Mo.	Day	26		27	28	29			30	31	46	47	48	49					50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
	0191	63	48	021	29	0		18	19	20		21	22	23			24	25	26	27	28	29					30	31	46	47	48	49	50	51	52	53	54	55	56	57	58

Obs. time	Obs. depth	Temp.	Sal.	σ <sub>t</sub>	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Tot.P µgat/l	Si	NO <sub>3</sub> -N µgat/l
					ml/l	%					
26 27	28 29 30 31	32 33 34 35	36 37 38 39 40	41 42 43 44 45	58 59 60	61 62 63 64					
12	0000	1472	0322	0169	740		781	0.06	0.11		
	0005	1422	0322	0176	734		795	0.06	0.09		
	0010	1424	0326	0179	738		792	0.07	0.11		
	0015	1388	0322	0181	677		791	0.10	0.09		
	0020	0904	0336	0247	772		768	0.12	0.07		
	0030	0449	0348	0278	858		761	0.12	0.09		
	0040	0348	0352	0285	866		759	0.12	0.09		
	0050	0391	0373	0301	847		757	0.13	0.11		
	0060	0630	0406	0317	775		755	0.11	0.07		

BT Slide Sk 223/11601/68  
Observer Allersand  
N 63° 47.5'  
E 21° 29'



11 "Skagerak"

Station

77 Sweden

1968

F 12

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb				
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64
0192	64	13	022	04	0	968	09	10	14	0111	01	010	00	00	140	11	6	1	60	0
Obs. time	Obs. depth	Temp.	Sal.	O <sub>2</sub>	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	Alk.	Sat. method	Extra info.								
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42		43 44 45	58	59 60			61 62 63 64	77	78					
		ml/l	%				μgat/l	μgat/l	Mval/l											
14	0000	1504	0293	0141	739		780	0.06	0.11	0.69	1	3								
	0005	1443	0292	0149	740		792	0.05	0.09											
	0010	1439	0297	0156	725		786	0.04	0.11	0.71										
	0015	1292	0314	0187	727		772	0.05	0.06											
	0020	0772	0322	0246	797		757	0.05	0.04											
	0030	0288	0337	0273	904			0.05	0.00	0.75										
	0040	0217	0352	0284	899		741	0.05	0.05											
	0050	0190	0363	0292	892		734	0.06	0.08	0.81										
	0060	0183	0377	0303	874		732	0.06	0.06											
	0070	0312	0393	0318	827		730	0.08	0.12	0.85										
	0080	0443	0416	0335	793		729	0.07	0.21											
	0090	0473	0427	0342	784		727	0.08	0.12											
	0100	0539	0439	0350	758		729	0.07	0.13	0.94										
								BT Slide Sk 224/11601/68												
								Observer Engström												
								Si	NO <sub>3</sub> -N											
								μgat/l	μgat/l											
	0000							8.18	0.75											
	0005							21.65	1.08											
	0010							17.75	0.60											
	0015							18.85	0.80											
	0020							12.65	2.05											
	0030							19.40	4.80											
	0040							13.10	4.25											
	0050							12.55	3.60											
	0060							18.12	4.05											
	0070							14.20	4.30											
	0080							15.48	5.00											
	0090							13.10	2.95											
	0100							13.45	4.70											

11 "Skagerak"

Station

77 Sweden

1968

F 10

## Hydro Depth Observations (Code 03)

Station No.				Lat.			Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																		
5	6	7	8	9	10	11	12	13	14		15	16	17					18	19	20	21	22	23					24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55
0	1	9	3	6	4	4	4	0	2	1	3	5	0	9	6	8	0	9	1	0	1	8	0	0	6	7	0	1	0	1	3	3	4	0	6	1	1	9	1	0	7	2	8	1	0
Obs. time	Obs. depth	Temp.			Sal.	$\sigma_t$			Oxygen		pH	Tot. P	Si	$\text{NO}_3\text{-N}$		Sol. method	Extra info.																												
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41			42	43	44	45	58	59	60	61	62	63	64	$\mu\text{gat/l}$	$\mu\text{gat/l}$	$\mu\text{gat/l}$		77	78											
18	0000	1384	0293	0158			736	783	0.13	15.80	0.75		1	3																															
	0005	1382	0293	0158			733	785	0.11	15.72	0.52																																		
	0010	1398	0306	0167			729	784	0.09	18.72	0.42																																		
	0015	1079	0312	0212			732	767	0.07	21.75	1.89																																		
	0020	0738	0321	0247			789	758	0.08	26.60	2.80																																		
	0030	0403	0337	0273			867	757	0.06	21.50	4.90																																		
	0040	0272	0348	0282			883	747	0.09	18.38	4.20																																		
	0050	0219	0363	0292			852	739	0.15	21.82	5.55																																		
	0060	0188	0364	0293			792	738	0.12	16.20	3.30																																		
																	BT Slide Sk 225/399/68																												
																	Observer Engström																												
																	N 64° 43.5'																												
																	E 21° 35'																												

11 "Skagerak"

Station

77 Sweden

1968

F 9

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																								
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	60	61					62	63	64																					
	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0194	64	43	022	04	0	968	09	10	20	0129	01	009	00	00	125	108	6	8	00																											
Obs. time	Obs. depth	Temp.	Sal.	σ <sub>t</sub>	Oxygen		pH	Tot. P	Si	NO <sub>3</sub> -N	Sal. method	Extra info.																																		
26	27	28	29	30	31	32							33	34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78												
20	0000	1428	0299	0157	734			784	0.19	10.35	0.70	1	3																																	
	0005	1429	0300	0157	734			799	0.13	11.72	0.93																																			
	0010	1425	0301	0159	729			784	0.11	13.18	0.35																																			
	0015	1243	0309	0190	726			770	0.09	17.45	1.58																																			
	0020	0551	0322	0256	845			754	0.05	10.55	2.60																																			
	0030	0248	0337	0272	915			751	0.05	13.55	4.55																																			
	0040	0226	0350	0282	908			750	0.05	11.53	4.55																																			
	0050	0201	0368	0297	872			744	0.04	13.18	6.45																																			
	0060	0144	0380	0304	859			738	0.05	19.20	3.35																																			
	0070	0127	0387	0311	866			735	0.05	13.45	5.30																																			
	0080	0105	0393	0313	859			732	0.05	14.65	6.45																																			
	0090	0116	0407	0325	856			731	0.07	10.82	2.15																																			
	0100	0487	0427	0342	788			730	0.07	12.35	4.70																																			
	0120	0507	0433	0346	764			730	0.09	11.38	1.80																																			
													BT Slide Sk 226/11601/68																																	
													Observer Allersand																																	
													N 64° 42.5'																																	
													E 22° 04'																																	

11 "Skagerak"

Station

77 Sweden

1968

F 8

Hydro Depth Observations (Code 03)

N 64° 40.5'

E 22° 44'

Station No.	Lat.			Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice
	o	'		o	'			Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb				
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59	60	61	62	63	64	
0195	64	41	022	44	0	968	09	10	22	0096	01	012	05	02	122	112	2	81	0			
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$			Oxygen		pH	PO <sub>4</sub> -P Tot. P Alk. μgat/l μgat/l Mval/l			Sal. method	Extra info.							
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58 59 60	61 62 63 64								77	78				
22	0000	1386	0307	0169	754					785	0.05	0.16	0.75	1	3							
	0005	1382	0307	0170	752					790	0.12	0.09										
	0010	1383	0307	0170	745					789	0.12	0.11	0.70									
	0015	1314	0307	0179	731					779	0.17	0.12										
	0020	0921	0315	0228	781					762	0.12	0.07										
	0030	0468	0330	0266	873					756	0.07	0.05										
	0040	0269	0338	0272	910					752	0.05	0.07										
	0050	0234	0351	0284	904					747	0.10	0.06	0.74									
	0060	0210	0368	0296	881					741	0.14	0.06										
	0070	0169	0379	0304	871					743	0.12	0.09										
	0080	0148	0386	0309	873					738	0.09	0.11										
	0090	0104	0396	0316	857					737	0.12	0.15	0.85									
											BT Slide Sk 227/11601/68											
											Observer Allersand											
											Si	NO <sub>3</sub> -N										
											μgat/l	μgat/l										
	0000										17.65	0.85										
	0005										16.18	0.72										
	0010										12.63	0.35										
	0015										18.75	1.05										
	0020										14.62	2.35										
	0030										10.82	3.78										
	0040										19.93	5.40										
	0050										18.65	4.65										
	0060										16.90	5.40										
	0070										13.55	5.65										
	0080										14.55	5.10										
	0090										15.94	5.28										



11 "Skagerak"

77 Sweden

1968

Station

F 2

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		NSEW	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb				
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64
0197	65	24	023	30	0	968	09	11	05	0065	01	014	02	20	099	084	14	4	0	

Obs. time	Obs. depth	Temp.	Sal.	σ <sub>t</sub>	Oxygen		pH	PO <sub>4</sub> -P μgat/l	Tot.P μgat/l	Alk. Mval/l	Sal. method	Extra info.
					ml/l	%						
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58	59 60	61 62 63 64		77 78
05	0000	1297	0272	0154	748		783	0.06	0.09	0.69	1	3
	0005	1298	0271	0154	748		790	0.06	0.09			
	0010	1287	0273	0157	755		786	0.06	0.09			
	0015	0710	0308	0238	797		758	0.10	0.06			
	0020	0616	0318	0251	800		754	0.06	0.01			
	0030	0509	0325	0261	816		754	0.06	0.05			
	0040	0268	0341	0276	862		753	0.07	0.01			
	0050	0186	0360	0290	852		749	0.11	0.06	0.79		
	0060	0147	0373	0298	843		746	0.10	0.05			

BT Slide Sk 230/399/68

Observer Engström

N 65° 23.5'

E 23° 30'

Si NO<sub>3</sub>-N

μgat/l μgat/l

0000	24.35	0.72
0005	26.00	0.85
0010	18.65	0.85
0015	19.10	2.40
0020	27.55	3.18
0030	23.92	2.30
0040	14.56	1.85
0050	16.82	5.65
0060	23.40	6.90

11 "Skagerak"

Station

77 Sweden

1968

F 3

Hydro Depth Observations (Code 03)

Station No.	Lat.			Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																					
	Year		Mo.		Day			Dir.	Sp. kn.	Dry bulb					Wet bulb																														
	5	6	7	8	9	10														11					12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46
0198	65	10	023	14	0	968	09	11	07	0096	01	013	02	22	102	085	1	64	0																										
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	Si.	Soil. method	Extra info.																																	
26	27	28	29	30	31	32		33	34	35			36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78														
07	0000	1305	0283	0169	752		780	0.05	0.09	10.38	1	3																																	
	0005	1303	0283	0169	746		786	0.06	0.06	10.09																																			
	0010	1308	0283	0162	755		790	0.06	0.11	13.28																																			
	0015	1228	0284	01733	745		788	0.05	0.08	10.81																																			
	0020	0619	0305	0241	815		765	0.05	0.00	13.91																																			
	0030	0310	0331	0268	874		760	0.08	0.05	12.45																																			
	0040	0207	0351	0284	864		755	0.07	0.08	7.80																																			
	0050	0181	0364	0293	840		750	0.06	0.06	11.80																																			
	0060	0157	0370	0297	841		749	0.06	0.06	16.55																																			
	0070	0137	0376	0301	853		748	0.07	0.08	15.28																																			
	0080	0133	0378	0303	848		748	0.12	0.08	24.39																																			
	0090	0135	0380	0304	829		745	0.11	0.08	10.37																																			
BT Slide Sk 229/11601/68																																													
Observer Engström																																													
NO <sub>3</sub> -N																																													
µgat/l																																													
	0000							0.42																																					
	0005							0.32																																					
	0010							0.93																																					
	0015							0.32																																					
	0020							3.80																																					
	0030							4.80																																					
	0040							1.75																																					
	0050							2.23																																					
	0060							6.50																																					
	0070							5.20																																					
	0080							6.30																																					
	0090							2.28																																					





11 "Skagerak"

77 Sweden

1968

Station

L:a Middelgrund

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice						
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	58	59					60	61	62	63	64	
0200	56	58	011	46	0	968	11	04	18	0080	01	007	34	16	035						2	83	0					
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Sol. method	Extra info.																	
26	27	28	29	30	31	32	33					34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62
18	0000	1001	24	23	1851	690						813	0.07														3	4
	0005	0994	24	092	1850	669						817	0.06															
	0010	1017	24	347	1867	663						812	0.09															
	0015	1195	30	147	2287	518						810	0.23															
	0020	1194	31	889	2421	471						812	0.30															
	0030	1219	32	949	2498	432						808	0.45															
	0040	1211	33	218	2519	418						802	0.41															
	0050	1193	33	452	2542	392						804	0.58															
	0060	1189	33	508	2548	375						806	0.62															
	0070	1164	33	685	2565	377						803	0.71															
												BT Slide Sk 232/11601/68																
												Observer Bladh																
												N 56° 57.5'																
												E 11° 45.5'																

11 "Skagerak"  
77 Sweden

1968

Station  
Kullen

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb				
5 6 7 8	9 10 11 12	13 14 15 16 17	18	19 20 21 22 23 24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64				
0201	56	14	012	22	0	968	11	04	23	0025	00	000	36	16	030		0	03	0	
Obs. time	Obs. depth	Temp.		Sal.		$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P μgat/l	Tot.P μgat/l	Sal. method	Extra info.							
26 27	28 29 30 31	32 33 34 35	36 37 38 39 40	41 42 43 44 45	58 59 60	61 62 63 64														
23	0000	0773	15545	1222	704			810	0.16	0.53		3	4							
	0005	1003	22861	1753	680			811	0.14	0.54										
	0010	1008	23621	1808	670			811	0.03	0.49										
	0015	1029	24533	1878	656			812	0.05	0.44										
	0020	1064	30283	2319	365			793	0.58	0.75										
									BT Slide Sk 233/399/68											
									Observer Engström											
										SiO <sub>2</sub>	NO <sub>3</sub> -N									
										μgat/l	μgat/l									
	0000									3.50	0.48									
	0005									2.68	0.22									
	0010									1.15	0.10									
	0015									1.35	0.10									
	0020									13.92	2.88									

11 "Skagerak"

Station

77 Sweden

1968

BY 1

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice	
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51 52	53 54					55 56
0202	55	00	013	18	0	968	11	05	10	0045	00	021	07	14	058	026	12	3	0				
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Sal. method	Extra info.												
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45					58	59 60	61 62 63	64								
10	0000	1137	0807	0591	716			804	0.05		1	4											
	0005	1103	0805	0593	712			812	0.05														
	0010	1138	0809	0592	672			812	0.07														
	0015	1140	0806	0589	715			812	0.03														
	0020	1137	0806	0590	715			813	0.06														
	0030	1262	1083	0787	588			801	0.28														
	0040	1110	1436	1081	557			795	0.49														
												BT Slide Sk 234/399/68											
												Observer Engström											

11 "Skagerak"

Station

77 Sweden

1968

Arkona

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	5	6	7	8		9	10	11					12	13	14	15					16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54
0203	55	00	014	05	0	968	11	05	13	0047	00	029	07	16	050			13	3	0																									
Obs. time	Obs. depth	Temp.		Sol.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	Alkal.	Sat. method	Extra info.																																
26	27	28	29	30	31	32	33		34	35	36			37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78														
13	0000	11	12	0791	0587	730		804	0.06	0.37	1.55	1	3																																
	0005	11	10	0789	0588	732		807	0.05	0.39																																			
	0010	11	12	0787	0586	729		805	0.06	0.40	1.56																																		
	0015	11	13	0787	0586	678		805	0.06	0.43																																			
	0020	11	27	0804	0590	729		806	0.06	0.36																																			
	0030	12	88	1096	0793	594		790	0.28	0.66	1.64																																		
	0040	12	15	1682	1255	453		771	0.92	1.08	1.82																																		
	0045	12	16	1688	1260	456		771	0.87	1.28	1.83																																		
									BT Slide Sk 235/399/68																																				
									Observer Bladh																																				
									SiO <sub>2</sub>	NO <sub>3</sub> -N																																			
									$\mu\text{gat}/1$	$\mu\text{gat}/1$																																			
	0000								3.75	0.15																																			
	0005								5.55	0.00																																			
	0010								7.85	0.00																																			
	0015								4.52	0.10																																			
	0020								4.52	0.10																																			
	0030								13.75	1.67																																			
	0040								18.98	2.70																																			
	0045								22.88	3.35																																			

11 Skagerak"

77 Sweden

1968

Station

Hamrarne sund

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice									
	o	'	o	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	55	56					57	58	59	60	61	62	63	64	
0204	55	18	014	24	0	968	11	05	15	0045	00	024	02	12	058	02	8	1	33	0											
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Sol. method	Extra info.																				
26	27	28	29	30	31	32	33					34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77
15	0000	1122	0734	0536	707							800	0.09																1	4	
	0005	1121	0760	0556	716							802	0.06																		
	0010		0758		718								0.08																		
	0015	1121	0758	0554	720							801	0.09																		
	0020	1124	0758	0554	715							800	0.07																		
	0030	1150	0777	0565	703							800	0.14																		
	0040	0931	0874	0666	553							758	0.43																		
	0045	1145	1851	1395	470							761	1.11																		
												BT Slide Sk 236/399/68																			
												Observer Bladh																			
												N 55° 17.5'																			
												E 14° 24'																			

11 "Skagerak"

77 Sweden

1968

Station

Christiansö

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0205	55	23	015	20	0	968	11	05	19	0090	01	037	07	12	060	032	11	3	0																										
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Sal. method	Extra info.																																		
26	27	28	29	30	31	32	33					34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78													
19	0000	11	08	0745	0546	666		791	0.08		1	4																																	
	0005	11	12	0745	0545	717		797	0.08																																				
	0010	11	11	0744	0544	719		798	0.09																																				
	0015	11	12	0744	0544	709		798	0.07																																				
	0020	11	10	0744	0544	713		798	0.07																																				
	0030			0747		713			0.07																																				
	0040	11	01	0747	0548	704		796	0.11																																				
	0050	09	80	1024	0777	418		743	0.63																																				
	0060	08	62	1222	0944	264		733	0.92																																				
	0070	06	36	1372	1081			707	2.15																																				
	0080	07	20	1485	1162	020		713	3.98																																				

BT Slide Sk 237/11601/68

Observer Engström



11 "Skagerak"

Station

77 Sweden

1968

BY 39

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51 52	53 54				
0207	56	07	016	32	0	968	11	06	05	0051	00	026	02	14	046	034	14	3	0			
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Tot.P µgat/l	Sol. method	Extra info.											
					ml/l	%																
05	0000	0818	0704	0543	737		808	0.08	0.38	1	3											
	0005	0966	0704	0530	736		803	0.07	0.36													
	0010	0970	0702	0527	736		802	0.07	0.62													
	0015	0968	0702	0527	734		803	0.08	0.55													
	0020	0970	0702	0527	683		801	0.10	0.39													
	0030	0706	0701	0550	698		783	0.34	0.74													
	0040	0617	0749	0593	667		771	0.42	0.64													
	0048	0613	0749	0593	663		767	0.43	0.57													
								BT Slide Sk 239/399/68														
								Observer Bladh														
								SiO <sub>2</sub> NO <sub>3</sub> -N µgat/l µgat/l														
	0000							5.54	0.20													
	0005							8.03	0.30													
	0010							7.48	0.50													
	0015							5.09	0.25													
	0020							6.10	0.00													
	0030							12.18	1.40													
	0040							12.00	1.10													
	0048							8.50	0.62													



11 "Skagerak"

Station

77 Sweden

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Segerstad III

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																							
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
	5	6	7	8		9	10	11					12	13	14	15	16	17					18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54
0208	56	19	016	41	0	968	11	06	07	0041	00	04	02	20	06	2	02	8	16	3	0																								
Obs. time	Obs. depth	Temp.	Sal.	σ <sub>t</sub>	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Sal. method	Extra info.																																			
					ml/l	%																																							
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78																	
07	0000	0901	0701	0531		747		801	0.07		1	4																																	
	0005	0905	0701	0530		759		804	0.05																																				
	0010	0904	0701	0530		754		805	0.08																																				
	0015	0903	0701	0531		753		804	0.11																																				
	0020	0879	0713	0549		742		798	0.18																																				
	0030	0851	0714	0551		742		796	0.20																																				
	0037	0850	0716	0558		739		795	0.20																																				
										BT Slide Sk 240/399/68																																			
										Observer Engström																																			

11 "Skagerak"

Station

77 Sweden

1968

Segerstad II

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																							
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
	5	6	7	8		9	10	11					12	13	14	15	16	17					18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54
0209	56	30	016	52	0	968	11	06	09	0065	01	029	02	24	050				1	4	30																								
Obs. time	Obs. depth	Temp.	Sal.	σ <sub>t</sub>	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Sal. method	Extra info.																																			
					ml/l	%																																							
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78																	
09	0000	0923	0701	0532		756		800	0.16		1	4																																	
	0005	0923	0701	0532		747		802	0.11																																				
	0010	0924	0701	0532		740		807	0.02																																				
	0015	0925	0701	0532		755		807	0.09																																				
	0020	0922	0701	0532		753		807	0.08																																				
	0030	0882	0709	0541		721		795	0.18																																				
	0040	0794	0722	0560		713		787	0.27																																				
	0050	0688	0734	0577		697		775	0.38																																				
	0060	0504	0756	0604		675		761	0.55																																				
										BT Slide Sk 241/11601/68																																			
										Observer Bladh																																			
										N 56° 29.5'																																			
										E 16° 52'																																			

11 "Skagerak"

Station

77 Sweden

1968

Segerstad I

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth			Wind		Temperature				Weather	Cloud amount	State of sea	tes																					
	°	'	°	'		Year	Mo.	Day				46	47	48	49	50	Dir.	Sp. kn.	Dry bulb	Wet bulb					55	56	57	58	59	60	61	62	63	64											
																																			5	6	7	8	9	10	11	12	13	14	15
0210	56	33	017	04	0	968	11	06	11	0071	01	022	05	28	055								1	2	40																				
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P		Sal. method	Extra info.																																	
26	27	28	29	30	31	32	33		34	35			36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78														
11	0000	09	16	07	02	05	32	75	2	801	0.14		1	4																															
	0005			07	02			748		807	0.08																																		
	0010	09	14	07	02	05	33	752		809	0.08																																		
	0015	09	19	07	02	05	33	752		809	0.09																																		
	0020	09	17	07	02	05	33	744		808	0.11																																		
	0030	06	93	07	34	05	76	675		782	0.31																																		
	0040	05	83	07	47	05	90	661		770	0.41																																		
	0050	04	68	07	75	06	21	583		757	0.68																																		
	0060	03	98	08	41	06	74	384		733	1.34																																		
												BT Slide Sk 242/11601/68																																	
												Observer Engström																																	



11 "Skagerak"

77 Sweden

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Station

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Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice		
	°	'	°	'	''		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	60	61					62	63
0212	57	40	017	56	0		968	11	06	21	0105	01	027	05	26	040	030	7	8	40					
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	H <sub>2</sub> S	Snl. method	Extra info.													
					ml/l	%		µgat/l	µgat/l	µgat/l															
26 27	28 29 30 31	32 33 34 35	36 37 38 39 40	41 42 43 44 45	58 59 60	61 62 63 64					77	78													
21	0000	0878	0660	0504	756		795	0.11	0.40			1	3												
	0005	0879	0660	0504	757		803	0.11	0.25																
	0010	0876	0659	0504	762		805	0.14	0.52																
	0015	0883	0659	0503	757		812	0.14	0.38																
	0020	0878	0664	0507	758		800	0.08	0.44																
	0030	0753	0695	0542	734		807	0.14	0.43																
	0040	0427	0757	0606	647		763	0.49	0.76																
	0050	0406	0808	0648	506		739	0.81	1.40																
	0060	0390	0849	0681	357		728	1.25	1.56																
	0070	0391	0891	0714	277		722	1.57	2.14																
	0080	0397	0933	0747	165		717	1.92	1.53																
	0090	0439	1024	0819	009		707	2.86	2.77																
	0098	0450	1046	0836			707	3.00	3.12	3.40															
	0000							SiO <sub>2</sub>	NO <sub>3</sub> -N	Alkal.															
	0005							µgat/l	µgat/l	Mval/l															
	0010							7.20	0.50	1.41															
	0015							4.52	0.00																
	0020							8.21	1.00	1.41															
	0030							7.55	0.57																
	0040							7.37	0.65																
	0050							7.83	1.00	1.47															
	0060							12.62	1.50																
	0070							17.58	2.48	1.55															
	0080							18.12	2.50	1.59															
	0090							21.43	2.98	1.61															
	0098							16.74	1.45	1.62															
								21.00	0.45	1.69															
								28.70	0.15	1.70															

BT Slide Sk 244/11601/68  
Observer Engström



11 "Skagerak"

Station

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Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice		
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51 52	53 54					55 56	57 58 59
0213	58	00	018	00	0	968	11	07	00	0200	02	036	05	24	058	034	28	4	0					
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$			Oxygen		pH	PO <sub>4</sub> -P	Tot. P	Alkal.	Sol. method		Extra info.									
26 27	28 29 30 31	32 33 34 35	36 37 38 39 40	41 42	43 44 45	58	59 60	61 62 63 64																
01	0000	0874	0668	0511			760		797	0.14	0.38	1.44	1		3									
	0005	0876	0662	0506			756		792	0.06	0.53													
	0010	0875	0668	0511			755		801	0.07	0.30	1.45												
	0015	0876	0664	0507			755		802	0.06	0.60													
	0020	0873	0664	0507			760		800	0.09	0.45													
	0030	0875	0664	0507			753		803	0.08	0.39	1.42												
	0040	0750	0696	0543			740		788	0.06	0.60													
	0050	0385	0745	0598			711		769	0.13	0.70	1.51												
	0060	0356	0776	0623			618		755	0.43	0.58	1.54												
	0070	0391	0928	0743			181		717	1.66	2.14	1.62												
	0080	0424	1004	0802			034		710	2.54	2.94	1.67												
	0090	0438	1028	0822			011		708	2.61	2.88	1.69												
00	0100	0396	1037	0830			013		690	2.98	3.00	1.66												
	0125	0451	1045	0834			005		701	2.70	3.10	1.67												
	0150	0449	1046	0835			007		700	2.82	3.45	1.67												
	0175	0451	1049	0837			0		701	2.76	3.35	1.72												
	0190	0452	1053	0841			002		702	3.15	3.60	1.68												
	0125									H <sub>2</sub> S														
	0150									µgat/l														
	0175									2.70														
	0190									4.75														
										5.12														
										6.20														
													BT Slide Sk 245/11601/68											
													Observer Bladh											



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Hydro Depth Observations (Code 03)

Station

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Station No.	Lat.			Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																							
	5	6	7	8	9	10		11	12	13					14	15	16	17					18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54
0214	58	35	018	14	0	968	11	07	06	0459	04	040	05	22	050	031	28	4	0																										
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	SiO <sub>2</sub>	NO <sub>3</sub> -N	Sali. method	Extra info.																																		
26	27	28	29	30	31	32		33	34			35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78														
07	0000													12.35	1.12																														
	0005													10.05	0.70																														
	0010													12.06	0.85																														
	0015													12.28	0.80																														
	0020													7.40	0.50																														
	0030													11.26	0.70																														
	0040													12.52	0.90																														
	0050													12.52	0.90																														
	0060													13.20	1.10																														
	0070													21.42	2.67																														
06	0080													25.30	2.13																														
	0090													28.36	1.40																														
	0100													33.35	0.85																														
	0125													38.50	0.50																														
	0150													42.40	0.05																														
	0175													45.60	0.05																														
	0200													47.80	0.05																														
	0300													43.70	0.00																														
	0400													41.65	0.00																														
	0440													26.75	0.00																														



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Station

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## Hydro Depth Observations (Code 03)

Station No.	Lat.			Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																							
	5	6	7	8	9	10		11	12	13					14	15	16	17					18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54
0214	.58	35	018	14	0	968	11	07	06	0459	04	040	05	22	050	031	28	4	0																										
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P μgat/l	Tot.P μgat/l	Alkal. Mval/l	Sal. method	Extra info.																																	
					ml/l	%																																							
07	0000	0784	0668	0518	781		780	0.10	0.51	1.43	1	3																																	
	0005	0787	0668	0518	781		794	0.13	0.43																																				
	0010	0787	0666	0516	783		780	0.09	0.37	1.44																																			
	0015	0786	0666	0516	784		792	0.13	0.34																																				
	0020	0782	0670	0520	778		799	0.14	0.60																																				
	0030	0786	0670	0520	773		798	0.15	0.36	1.48																																			
	0040	0782	0667	0518	774		800	0.15	0.50																																				
	0050	0400	0747	0600	738		776	0.25	0.45	1.54																																			
	0060	0356	0791	0638	590		748	0.62	0.76																																				
	0070	0376	0883	0707	330		721	1.22	1.52	1.61																																			
06	0080	0417	0977	0782	128		705	1.97	1.87																																				
	0090	0435	1015	0811	064		698	2.30	1.73																																				
	0100	0455	1043	0833	028		708	2.64	2.71	1.68																																			
	0125	0469	1074	0857	013		705	2.93	2.54																																				
	0150	0473	1081	0862	012		708	3.08	2.97																																				
	0175	0475	1085	0865	010		700	3.19	3.38																																				
	0200	0479	1085	0865	008		699	3.19	3.42	1.68																																			
	0300	0479	1090	0868			696	3.33	3.51	1.70																																			
	0400	0484	1098	0875			704	3.57	3.70	1.72																																			
	0440	0484	1100	0877			697	3.70	2.73	1.75																																			
	0300							H <sub>2</sub> S μgat/l	0.70																																				
	0400							0.90																																					
	0440							1.27																																					
BT Slide Sk 246/11601/68																																													
Observer Bladh																																													



11 "Skagerak"

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Station

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Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb				
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64
0216	58	53	020	19	0	968	11	07	19	0151	01	034	07	26	016	004	2	74	0	
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$		Oxygen		pH	PO <sub>4</sub> -P µgat/l	Tot.P µgat/l	H <sub>2</sub> S µgat/l	Sei. method	Extra info.						
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58							59 60	61 62 63	64	77	78	
19	0000	0688	0700	0550	791				795	0.10	0.35		1	3						
	0005	0684	0700	0550					799	0.10	0.38									
	0010	0686	0698	0549	788				803	0.11	0.30									
	0015	0689	0698	0549	797				799	0.11	0.34									
	0020	0688	0698	0549	796				800	0.11	0.38									
	0030	0688	0703	0553	802				802	0.17	0.40									
	0040	0354	0759	0610					773	0.21	0.53									
	0050	0318	0765	0615					765	0.28	0.44									
	0060	0306	0813	0653	517				745	0.64	0.71									
	0070	0425	0977	0780	097				702	1.74	1.77									
	0080	0429	0984	0787	078				704	1.81	2.13									
	0090	0451	1034	0826	020				704	2.24	2.36									
	0100	0461	1058	0841	015				707	2.43	2.53									
	0125	0481	1094	0872	011				711	2.70	2.50	0.0								
	0150	0499	1125	0896					706	3.00	3.51	6.28								
										SiO <sub>2</sub>	NO <sub>3</sub> -N	Alkal.								
										µgat/l	µgat/l	µval/l								
	0000									12.00	0.50	1.49								
	0005									8.84	0.40									
	0010									10.50	0.33	1.50								
	0015									11.33	0.50									
	0020									10.50	0.30									
	0030									12.61	0.50	1.48								
	0040									12.34	1.02									
	0050									9.77	0.55	1.53								
	0060									10.50	1.12	1.58								
	0070									25.42	3.75	1.65								
	0080									31.20	4.65	1.65								
	0090									35.55	4.60	1.68								
	0100									39.35	2.45	1.69								
	0125									41.00	0.00	1.71								
	0150									47.60	0.00	1.72								

BT Slide Sk 248/11601/68

Observer Bladh



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Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0218	59	18	021	28	0	968	11	08	03	0115	01	017	09	24	012	006	1	45	0																										
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	Alkal.	Sai. method	Extra info.																																	
26	27	28	29	30	31	32		33	34	35			36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78														
04	0000	0748	0714	0557	788			0.11	0.30	1.54	1	3																																	
	0005	0746	0714	0557	778			0.11	0.26																																				
	0010	0750	0714	0557	779			0.11	0.43	1.56																																			
	0015	0748	0714	0557	787			0.10	0.32																																				
	0020	0773	0727	0566	768			0.14	0.47																																				
	0030	0778	0727	0565	772			0.14	0.38	1.54																																			
	0040	0776	0731	0568	773			0.14	0.37																																				
	0050	0439	0756	0605	716			0.25	0.47	1.53																																			
	0060	0375	0771	0619	684			0.30	0.55	1.54																																			
	0070	0315	0797	0641	612			0.54	0.70	1.56																																			
03	0080	0328	0825	0663	522			0.67	0.90	1.57																																			
	0090	0403	0962	0770	143			2.38	2.59	1.62																																			
	0100	0427	0998	0798	061			2.90	3.11	1.66																																			
	0110	0432	1007	0805	050			3.00	3.09	1.69																																			
												BT Slide Sk 259/11601/68																																	
												Observer Bladh																																	
												SiO <sub>2</sub>		NO <sub>3</sub> -N																															
												µgat/l		µgat/l																															
04	0000							10.31	0.62																																				
	0005							6.27	0.25																																				
	0010							8.76	0.50																																				
	0015							6.46	0.40																																				
	0020							11.70	0.85																																				
	0030							10.70	0.80																																				
	0040							11.50	0.85																																				
	0050							14.90	1.57																																				
	0060							17.74	1.70																																				
	0070							18.20	1.97																																				
03	0080							20.32	2.51																																				
	0090							23.62	4.00																																				
	0100							23.02	3.85																																				
	0110							28.25	2.80																																				

11 "Skagerak"

77 Sweden

1968

Station

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Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51 52	53 54				
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56	57	58 59	60	61	62	63	64
0219	58	27	020	20	0	968	11	08	10	0120	01	033	11	22	03	4	02	0	28	4	0	
Obs. time	Obs. depth	Temp.	Sal.	σ <sub>t</sub>	Oxygen		pH	PO <sub>4</sub> -P	H <sub>2</sub> S	Sci. method	Extra info.											
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42		43 44 45	58			59 60	61 62 63	64	77	78						
10	0000	0642	0691	0545	812			797	0.05		1	3										
	0005	0639	0691	0545	810			798	0.07													
	0010	0643	0691	0545	809			801	0.07													
	0015	0640	0691	0545	810			807	0.08													
	0020	0641	0691	0545	815			809	0.09													
	0030	0640	0691	0545	808			804	0.09													
	0040	0356	0752	0604	737			782	0.22													
	0050	0314	0793	0637	616			787	0.51													
	0060	0380	0918	0736	247			724	1.53													
	0070	0438	1007	0804	058			712	1.98													
	0080	0460	1036	0827	015			698	2.33													
	0090	0475	1078	0849	011			705	2.55													
	0100	0483	1094	0872	010			704	2.90													
	0115	0492	1112	0886				705	3.24	8.28												
												BT Slide Sk 251/11601/68										
												Observer Bladh										
												N 58° 26.5'										
												E 20° 20'										



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Hydro Depth Observations (Code 03)

Station No.	Lat.			Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice
	°	'	''	°	'	''		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb				
0220	58	00		019	54	0		968	11	08	14	0200	02	032	09	20	046	034	2	84	0	

Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P μgat/l	Tot.P μgat/l	H <sub>2</sub> S μgat/l	Sal. method	Extra info.
					ml/l	%						
26 27	28 29 30 31	32 33 34 35	36 37 38 39 40	41 42 43 44 45	58 59 60	61 62 63 64					77	78

14	0000	0724	0668	0522	802		777	0.05	0.47		1	3
	0005	0726	0668	0522	798		789	0.13	0.87			
	0010	0723	0668	0522	796		791	0.10	0.70			
	0015	0720	0668	0522	795		791	0.11	0.54			
	0020	0724	0668	0522	795		792	0.07	0.52			
	0030	0717	0668	0523	793		785	0.11	0.49			
	0040	0402	0749	0608	736		759	0.15	0.42			
	0050	0296	0749	0611	666		738	0.39	0.67			
	0060	0358	0882	0707	344		703	1.23	1.46			
	0070	0430	0998	0797	070		687	2.08	2.04			
	0080	0454	1041	0831	016		681	2.45	2.42			
	0090	0472	1064	0849	010		705	2.67	3.05			
	0100	0478	1084	0864			709	2.78	2.98	0.60		
	0125	0497	1133	0902			707	2.71	3.05	1.24		
	0150	0529	1185	0941			705	2.84	2.92	9.30		
	0175	0540	1199	0952			705	3.40	4.22	27.10		
	0190	0542	1203	0954			694	3.40	4.44	28.25		

BT Slide Sk 252/11601/68

Observer Engström

SiO <sub>2</sub> μgat/l	NO <sub>3</sub> -N μgat/l
13.18	0.95
9.97	0.95
12.98	0.80
14.46	0.83
10.98	0.78
13.18	0.70
10.14	0.80
12.27	1.10
16.47	2.13
22.37	3.65
20.35	3.10
38.50	0.70
29.50	0.15
33.10	0.15
26.90	0.30
38.80	0.00
38.00	0.00



11 "Skagerak"

Station

77 Sweden

1968

7/9

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0221	57	26	019	08	0	968	11	11	09	0050	00	044	07	22	062	056	2	84	0																										
Obs. time	Obs. depth	Temp.	Sal.	σ <sub>t</sub>	Oxygen		pH	PO <sub>4</sub> -P		Sol. method	Extra info.																																		
26	27	28	29	30	31	32		33	34			35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78														
09	0000	0757	0707	0551	781		825	0.09			1	4																																	
	0005	0758	0707	0551	789		817	0.09																																					
	0010	0755	0706	0550	788		812	0.09																																					
	0015	0759	0706	0550	792		811	0.12																																					
	0020	0755	0706	0550	785		805	0.12																																					
	0030	0759	0706	0550	789		807	0.12																																					
	0040	0753	0712	0554	781		804	0.12																																					
												BT Slide Sk 253/399/68																																	
												Observer Bladh																																	
												N 57° 25.5'																																	
												E 19° 07.5'																																	

11 "Skagerak"

Station

77 Sweden

1968

6/9

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice		
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51 52	53 54					55 56	57 58 59
0222	57	24	019	26	0	968	11	11	10	0125	01	035	05	20	070	054	2	84	0					
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Sal. method	Extra info.														
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42					43 44 45	58	59 60	61 62 63	64									
10	0000	0757	0734	0571	781			793	0.09															
	0005	0756	0735	0573	794			800	0.12															
	0010	0754	0734	0572	786			799	0.12															
	0015	0757	0734	0571	786			800	0.12															
	0020	0754	0735	0572	791			802	0.12															
	0030	0755	0734	0572	785			803	0.07															
	0040	0440	0753	0603	738			775	0.25															
	0050	0279	0769	0618	739			766	0.28															
	0060	0299	0811	0652	581			743	0.52															
	0070	0389	0910	0729	208			714	1.49															
	0080	0429	0944	0755	094			698	2.11															
	0090	0455	1017	0812	019			699	2.58															
	0100	0477	1078	0860	012			703	2.60															
	0115	0500	1123	0894	012			702	2.34															

BT Slide Sk 254/11601/68

Observer Bladh

N 57° 23.5'

E 19° 26'

11 "Skagerak"

Station

77 Sweden

1968

5/9

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0223	57	22	019	44	0	968	11	11	12	0175	02	039	05	20	060	050	2	8	4	0																									
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	H <sub>2</sub> S µgat/l	Sci. method	Extra info.																																		
26	27	28	29	30	31	32						33	34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64														
12	0000	0772	0738	0573	784		785	0.05		1	3																																		
	0005	0768	0736	0572	786		798	0.08																																					
	0010	0765	0737	0573	782		796	0.11																																					
	0015	0771	0733	0570	786		793	0.07																																					
	0020	0764	0734	0572	787		799	0.08																																					
	0030	0767	0734	0571	791		801	0.09																																					
	0040	0759	0733	0571	783		803	0.09																																					
	0050	0318	0768	0618	703		760	0.23																																					
	0060	0308	0811	0652	569		740	0.57																																					
	0070	0402	0947	0758	168		708	1.55																																					
	0080	0451	1022	0816			698	2.32																																					
	0090	0467	1055	0842	016		698	2.43																																					
	0100	0482	1078	0860	015		699	2.54																																					
	0125	0513	1147	0912			703	3.05	0.44																																				
	0150	0549	1218	0966			707	4.48	18.88																																				
	0170	0553	1227	0972			707	4.49	22.50																																				
												BT Slide Sk 225/11601/68																																	
												Observer Bladh																																	
												N 57° 21.5'																																	
												E 19° 44'																																	

11 "Skagerak"

77 Sweden

1968

Station

Gotlandsdjupet

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice	
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	55	56					57
0224	57	20	020	03	0	968	11	11	14	0249	02	043	05	20	060	044	2	84	0				
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	Alkal.	Sal. method	Extra info.										
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45		58	59 60	61 62 63 64			77	78								
14	0000	0778	0734	0571	781			786	0.09	0.39	1.55	1	3										
	0005	0769	0736	0572	784			797	0.07	0.31	1.54												
	0010	0779	0734	0571	784			800	0.09	0.55	1.53												
	0015	0779	0734	0571	782			800	0.06	0.35	1.53												
	0020	0774	0735	0571	784			800	0.08	0.77	1.56												
	0030	0778	0733	0570	785			804	0.07	0.47	1.53												
	0040	0776	0735	0571	784			802	0.07	0.59	1.54												
	0050	0288	0759	0610	767			768	0.20	0.40	1.55												
	0060	0261	0773	0622	728			761	0.26	0.90	1.57												
	0070	0352	0886	0711	345			722	0.93	0.90	1.62												
	0080	0437	0991	0792	059			705	1.74	1.57	1.66												
	0090	0460	1041	0823	035			704	1.85	1.89	1.68												
	0100	0474	1070	0834	030			696	2.01	1.96	1.66												
	0125	0519	1153	0916	008			699	2.43	2.76	1.73												
	0150	0553	1223	0970				702	3.60	3.36	1.79												
	0175	0569	1247	0987				709	5.00	4.93	1.82												
	0200	0574	1260	0998				707	5.82	6.03	1.80												
	0225	0582	1271	1006				713	7.53	7.67	1.84												
	0240	0580	1271	1006				712	7.64	7.91	1.82												
	0150									H <sub>2</sub> S													
	0175									µgat/l													
	0200									8.17													
	0225									15.95													
	0240									25.50													
										34.40													
										35.00													

BT Slide Sk 226/11601/68

Observer Engström



11 "Skagerak"

Station

77 Sweden

1968

3/9

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51 52	53 54				
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56	57 58	59 60	61	62	63	64	
0225	57	18	020	21	0	968	11	11	16	0160	01	042	05	16	060	040		2	8	4	0	
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$			Oxygen		pH	PO <sub>4</sub> -P µgat/l	H <sub>2</sub> S µgat/l	Sol. method	Extra info.									
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58 59 60						61 62 63	64	77	78					
16	0000	0817	0746	0576			776			793	0.09		1	3								
	0005	0815	0744	0574			776			800	0.14											
	0010	0819	0744	0574			772			801	0.09											
	0015	0816	0743	0574			772			802	0.09											
	0020	0819	0743	0574			769			802	0.13											
	0030	0816	0742	0574			774			803	0.15											
	0040	0821	0742	0573			766			796	0.14											
	0050	0332	0770	0620			698			756	0.35											
	0060	0315	0774	0623			680			750	0.41											
	0070	0303	0776	0624			615			743	0.53											
	0080	0375	0911	0730			294			710	1.16											
	0090	0452	1023	0817			034			701	2.02											
	0100	0450	1060	0847			093			704	1.70											
	0125	0508	1137	0904			012			703	2.73											
	0150	0544	1208	0958						705	6.30	19.38										
													BT Slide Sk 257/11601/68									
													Observer Bladh									
													N 57° 17.5'									
													E 20° 21'									

11 "Skagerak"

77 Sweden

1968

Station

2/9

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice	
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51 52	53 54					55 56
0226	57	16	020	39	0	968	11	11	18	0096	01	053	05	20	046	035	6	8	40				

Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Sal. method	Extra info.
					ml/l	%				
26 27	28 29 30 31	32 33 34 35	36 37 38 39 40	41 42 43 44 45	56 59 60	61 62 63 64			77	78

18	0000	0871	0745	0571	769		795	0.17		1	4
	0005	0868	0743	0570	760		793	0.25			
	0010	0872	0743	0570	762		797	0.12			
	0015	0867	0743	0570	767		797	0.12			
	0020	0868	0743	0570	707		796	0.08			
	0030	0863	0743	0570	769		798	0.12			
	0040	0858	0741	0569	767		794	0.09			
	0050	0840	0741	0571	770		796	0.27			
	0060	0409	0777	0624	676		756	0.42			
	0070	0435	1011	0808	085		703	1.68			
	0080	0472	1065	0849	030		701	2.17			
	0090	0479	1083	0863	036		697	2.04			

BT Slide Sk 258/11601/68

Observer Bladh

N 57° 15.5'

E 20° 38.5'





11 "Skagerak"

Station

77 Sweden

1968

BY 11

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice	
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51 52	53 54					55 56
0228	57	04	019	50	0	968	11	11	24	0220	02	041	02	26	061	050	28	4	0				
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P		H <sub>2</sub> S	Sol. method	Extra info.											
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42		43 44 45	58				59 60	61 62 63	64	77	78						
24	0000	0785	0740	0574	783					799	0.11											1	3
	0005	0789	0742	0576	790					798	0.08												
	0010	0786	0740	0574	784					801	0.08												
	0015	0783	0740	0574	786					800													
	0020	0786	0739	0574	784					802	0.08												
	0030	0783	0743	0576	784					799	0.04												
	0040	0783	0739	0574	781					799	0.09												
	0050	0293	0766	0617	761					765	0.16												
	0060	0289	0790	0636	656					748	0.41												
	0070	0383	0916	0734	234					712	1.08												
	0080	0447	1011	0807	027					695	1.72												
	0090	0469	1058	0844	022					698	1.81												
	0100	0495	1084	0864	036					700	1.91												
	0125	0518	1159	0929	009					702	1.97												
	0150	0547	1216	0964						703	3.25	9.77											
	0175	0563	1246	0987						708	3.95	18.25											
	0200	0573	1258	1004						710	4.64	27.60											
	0215	0577	1264	1001						711	4.89	31.05											

BT Slide Sk 260/11601/68

Observer Engström

11 "Skagerak"

Station

77 Sweden

1968

När III

## Hydro Depth Observations (Code 0 3)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice							
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51	52					53	54	55	56	57	58	59
0229	57	05	018	42	0	968	11	12	04	0030	00	030	X	02	18	030									2	8	3	0	
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P μgat/l	Sol. method	Extra info.																		
26	27	28	29	30	31	32	33					34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63
04	0000	0760	0706		0550		792		799		0.09																	1	4
	0005	0757	0705		0549		792		803		0.11																		
	0010	0761	0705		0548		794		803		0.09																		
	0015	0759	0704		0548		782		803		0.15																		
	0020	0758	0703		0547		792		802		0.16																		
	0025	0760	0706		0550		787		804		0.21																		
												BT Slide Sk 261/399/68																	
												Observer Bladh																	

11 "Skagerak"

Station

77 Sweden

1968

När II

## Hydro Depth Observations (Code 0 3)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice								
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51	52					53	54	55	56	57	58	59	60
0230	56	59	018	47	0	968	11	12	06	0070	01	045	02	18	030															
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P μgat/l	Sol. method	Extra info.																			
26	27	28	29	30	31	32	33					34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64
06	0000	0755	0709		0552		789		796		0.10																			
	0005	0757	0709		0552		796		802		0.11																			
	0010	0755	0708		0551		787		803		0.13																			
	0015	0758	0710		0553		788		803		0.08																			
	0020	0753	0709		0552		795		803		0.11																			
	0030	0751	0714		0556		793		802		0.10																			
	0040	0748	0714		0556		789		804		0.10																			
	0050	0544	0746		0581		734		683		0.23																			
	0060	0355	0888		0712		327		724		1.07																			
												BT Slide Sk 262/11601/68																		
												Observer Bladh																		

11 "Skagerak"

77 Sweden

1968

Station

När I

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice						
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	58	59					60	61	62	63	64	
0231	56	51	018	52	0	968	11	12	07	0115	01	037	02	18	055	04	4	28	4	0								
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$		Oxygen		pH	PO <sub>4</sub> -P µgat/l	Sci. method	Extra info.																
26	27	28	29	30	31	32	33	34					35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62
07	0000	0732	0723	0564	799				795	0.08																	1	4
	0005	0736	0723	0564	788				799	0.11																		
	0010	0733	0722	0564	785				802	0.09																		
	0015	0730	0723	0564	787				801	0.11																		
	0020	0735	0723	0564	786				805	0.11																		
	0030	0731	0723	0564	789				804	0.13																		
	0040	0532	0751	0598	727				780	0.17																		
	0050	0340	0767	0616	711				771	0.22																		
	0060		0796		620					0.49																		
	0070	0360	0886	0710	334				728	0.87																		
	0080	0435	0989	0791	073				710	1.60																		
	0090	0458	1039	0830	028				709	1.91																		
	0100	0464	1053	0840	015				710	2.06																		
	0110	0465	1054	0841	019				709	2.09																		

BT Slide Sk 263/11601/68

Observer Engström

11 "Skagerak"

Station

77 Sweden

1968

BY 10

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																							
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51 52	53 54					55 56	57 58 59	60																				
	5	6	7	8		9	10	11					12	13	14	15	16	17					18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54
0232	56	38	019	35	0	968	11	12	10	0150	01	052	36	20	070	040	2	84	0																										
Obs. time	Obs. depth		Temp.		Sal.	$\sigma_t$			Oxygen		pH	H <sub>2</sub> S $\mu\text{gat/l}$		Sal. method		Extra info.																													
26 27	28 29	30 31	32 33	34 35	36 37	38 39	40	41 42	43 44	45	58	59	60	61	62	63	64	77	78																										
10	0000	0820	0742	0572	777						804					1	3																												
	0005	0819	0744	0574	798						803																																		
	0010	0824	0742	0572	787						809																																		
	0015	0820	0741	0572	781						807																																		
	0020	0823	0740	0571	781						810																																		
	0030	0819	0742	0572	778						806																																		
	0040	0825	0741	0571	776						807																																		
	0050	0821	0740	0571	781						804																																		
	0060	0320	0852	0604	478						734																																		
	0070	0397	0954	0764	201						713																																		
11	0080	0433	1013	0809	102						702																																		
	0090	0458	1058	0844	071						703																																		
	0100	0477	1089	0868	043						704																																		
	0125	0521	1164	0925	013						704																																		
	0145	0554	1227	0973							709	26.38																																	
																	BT Slide Sk 264/11601/68																												
																	Observer Bladh																												

11 "Skagerak"

Station

77 Sweden

1968

BY 9

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice	
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb					
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64	
0233	56	05	019	10	0	968	11	12	15	0125	01	037	36	16	064	046			28	4	0
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P μgat/l	Tot.P μgat/l	Al Mval/l	Sol. method	Extra info.								
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45							56	57 60	61 62 63 64	77	78			
15	0000	0865	0734	0562	766			802	0.09	0.50	1.52		1	3							
	0005	0869	0735	0563	767			804	0.08	0.39											
	0010	0865	0733	0561	767			804	0.09	0.88	1.54										
	0015	0862	0733	0561	770			805	0.08	1.12											
	0020	0868	0733	0561	769			804	0.11	0.43											
	0030	0862	0733	0561	777			804	0.09	0.37	1.53										
	0040	0504	0758	0605	756			778	0.23	0.55											
	0050	0277	0769	0618	780			771	0.24	0.41	1.56										
	0060	0290	0804	0646	628			748	0.43	0.87	1.60										
	0070	0284	0941	0756	202			715	1.27	1.56	1.65										
	0080	0442	1017	0812	059			706	1.60	1.57	1.67										
	0090	0463	1064	0849	045			706	1.80	1.95	1.85										
	0100	0474	1096	0874	062			706	2.09	1.72	1.71										
	0120	0480	1110	0884	029			706	2.98	2.51	1.73										
												BT Slide Sk 265/11601/68									
												Observer Bladh									
												SiO <sub>2</sub>		NO <sub>3</sub> -N							
												μgat/l		μgat/l							
												0000		3.70		0.10					
												0005		3.88		0.10					
												0010		5.35		0.30					
												0015		7.56		0.40					
												0020		6.18		0.15					
												0030		4.62		0.05					
												0040		6.72		0.30					
												0050		10.23		0.40					
												0060		12.03		1.42					
												0070		27.65		3.15					
												0080		21.65		2.40					
												0090		23.48		3.82					
												0100		18.60		2.92					
												0120		18.70		2.92					

11 "Skagerak"

77 Sweden

1968

Hydro Depth Observations (Code 03)

Station

BY 8

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice	
	o	'	o	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	60	61					62
0234	55	38	018	36	0	968	11	12	19	0099	01	038	36	16	050					2	8	3	0
Obs. time	Obs. depth		Temp.		Sal.	$\sigma_t$		Oxygen		pH		Sal. method		Extra info.									
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58	59 60	61 62 63	64					77	78						
19	0000	0869	0736	0564	766					797						1	0						
	0005	0872	0734	0562	767					800													
	0010	0877	0734	0562	767					802													
	0015	0875	0734	0562	764					803													
	0020	0877	0733	0561	765					804													
	0030	0875	0734	0562	766					805													
	0040	0857	0735	0564	765					804													
	0050	0290	0772	0621	765					771													
	0060	0318	0780	0628	721					765													
	0070	0289	0811	0652	623					753													
	0080	0570	1068	0847	291					726													
	0090	0561	1074	0852	277					725													

BT Slide Sk 266/11601/68  
Observer Engström

11 "Skagerak"

77 Sweden

1968

Station

Stolpe ränna

Hydro Depth Observations (Code 0 3)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																																	
	5	6	7	8		9	10	11					12	13	14	15	16	17					18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0235	55	13	017	04	0	968	11	13	01	0089	01	026	36	16	066	040	2	83	0																																				
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	Sal. method	Extra info.																																												
26	27	28	29	30	31	32	33	34	35			36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78																									
01	0000	0918	0745	0567	746	794	0.14	0.77	1	3																																													
	0005	0925	0745	0566	747	796	0.15	0.42																																															
	0010	0923	0744	0566	746	797	0.16	0.47																																															
	0015	0922	0744	0566	747	798	0.16	0.37																																															
	0020	0918	0744	0566	743	799	0.19	0.70																																															
	0030	0882	0751	0575	725	791	0.22	0.44																																															
	0040	0521	0807	0642	521	742	0.78	1.08																																															
	0050	0757	0954	0744	463	744	0.58	0.77																																															
	0060	0833	1075	0832	363	735	0.78	1.11																																															
	0070	0864	1185	0915	275	731	0.95	1.28																																															
	0080	0869	1178	0909	290	731	0.95	1.11																																															
									BT Slide Sk 267/11601/68																																														
									Observer Bladh																																														
									SiO <sub>2</sub>	NO <sub>3</sub> -N																																													
	0000								6.35	0.90																																													
	0005								9.12	1.00																																													
	0010								9.68	1.02																																													
	0015								6.53	0.80																																													
	0020								6.90	0.75																																													
	0030								6.53	0.60																																													
	0040								22.98	2.70																																													
	0050								16.55	2.80																																													
	0060								18.50	3.45																																													
	0070								28.65	4.80																																													
	0080								19.08	3.25																																													

11 "Skagerak"

77 Sweden

1968

Station

BY 6

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	58	59				
0236	54	42	015	15	0	968	11	13	08	0064	01	041	05	14	077	052	2	73	0			
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Sal. method	Extra info.												
					ml/l	%																
08	0000	1005	0765	0574	738		795	0.16		1	4											
	0005	1007	0766	0574	738		798	0.11														
	0010	1004	0763	0572	739		801	0.15														
	0015	1003	0764	0573	739		801	0.14														
	0020	1003	0763	0572	739		802	0.15														
	0030	1005	0763	0572	737		799	0.15														
	0040	1005	0763	0572	737		801	0.18														
	0050	0753	0766	0597	448		745	0.66														
	0060	0967	1174	0896	308		737	0.98														

BT Slide Sk 268/11601/68

Observer Bladh



11 "Skagerak"

77 Sweden

1968

Hydro Depth Observations (Code 03)

Station

SE Bonden

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice	
	o	'	o	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51 52	53 54					55 56
0237	52	13	011	21	0	968	11	19	14	0025	00	003	07	12	00	5					2	89	0
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Tot.P µgat/l	Si µgat/l	Sol. method	Extra info.											
					ml/l	%																	
14	0000	0547	27144	2144	714			0.25	0.46	8.08		33											
	0005	0636	28307	2227	680			0.24	0.52	9.61													
	0010	0666	28574	2244	671			0.30	0.84	10.53													
	0015	1001	31554	2428	543			0.31	0.60	10.77													
	0020	1024	32311	2483	535			0.33	0.70	12.97													
	0022	1040	32716	2511	525			0.36	0.75	12.55													
								NO <sub>3</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	NO <sub>2</sub> <sup>-</sup> -N													
								µgat/l	µgat/l	µgat/l													
	0000							2.15	6.33	0.28													
	0005							3.26	6.11	0.33													
	0010							3.51	8.18	0.35													
	0015							4.96	6.33	0.73													
	0020							4.70	7.80	0.96													
	0022							4.91	10.18	1.01													
								BT Slide Sk 269/395/68															
								Observer Sen Gupta															
								N 52° 12.9'															
								E 11° 21.3'															

11 "Skagerak"

77 Sweden

1968

Station

Harpöbådan

Hydro Depth Observations (Code 03)

Station No.	Lat.			Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																							
	°	'	''	°	'	''		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																											
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0238	58	16	011	23	0			968	11	19	15	0050	00	010	05	12	010					2	8	20	3																				
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	Si O <sub>2</sub>	Sol. method	Extra info.																																	
					ml/l	%																																							
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64									77	78									
	0000	0629	28638	2253	678			0.26	0.65	17.56	3	3																																	
	0005	0635	28691	2257	678			0.25	0.65	9.30																																			
	0010	0695	29153	2276	660			0.27	0.65	12.36																																			
	0015	0889	31350	2431	605			0.28	0.86	15.85																																			
	0020	0955	32501	2509	581			0.30	0.60	12.06																																			
	0030	0934	34068	2637	501			0.31	0.84	14.08																																			
	0040	0785	35005	2733	486			0.83	1.07	15.67																																			
	0050	0771	35050	2738	476			0.92	1.07	12.91																																			
								NO <sub>3</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	NO <sub>2</sub> <sup>-</sup> -N																																			
								µgat/l	µgat/l	µgat/l																																			
	0000							2.83	5.31	0.38																																			
	0005							2.75	6.33	0.38																																			
	0010							3.55	6.95	0.37																																			
	0015							3.20	6.95	0.66																																			
	0020							3.77	6.11	0.73																																			
	0030							5.64	4.29	0.46																																			
	0040							6.35	10.0	0.35																																			
	0050							6.45	9.61	0.25																																			
												BT Slide Sk 270/395/68																																	
												Observer Sen Gupta																																	

11 "Skagerak"

77 Sweden

1968

Station

Gullmartröskel

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.				N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice				
	°	'	°	'	''	Year		Mo.	Day	Dir.					Sp. kn.	Dry bulb	Wet bulb	51	52	53					54	55	56	57
0239	58	16	011	26	0	968	11	19	16	0060	00	000	07	10	X	010							2	8	20			
Obs. time	Obs. depth	Temp.		Sal.		σ <sub>t</sub>		Oxygen		pH	PO <sub>4</sub> -P	Tot.P	Si	O <sub>2</sub>	Sci. method	Extra info.												
26	27	28	29	30	31	32	33	34	35								36	37	38	39	40	41	42	43	44	45	58	59
16	0000	05	95	28	317	22	33	6	93		0.26	0.67	20.32	3	3													
	0005	06	48	28	682	22	65	6	86		0.35	0.65	12.79															
	0010	07	21	29	309	22	95	6	45		0.35	0.68	13.83															
	0015	09	35	31	330	24	23	5	81		0.43	0.67	14.14															
	0025	09	92	32	577	25	10	5	51		0.43	0.63	16.03															
	0035	09	63	33	280	25	70	5	35		0.48	0.72	9.73															
	0000										NO <sub>3</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	NO <sub>2</sub> <sup>-</sup> -N															
	0005										μgat/l	μgat/l	μgat/l															
	0010										4.24	8.37	0.42															
	0015										4.43	10.61	0.54															
	0025										4.19	11.86	0.57															
	0035										4.22	13.90	0.81															
												12.23	0.60															
											5.94	10.18	0.62															
BT Slide Sk 271/399/58																												
Observer Sen Gupta																												

11 "Skagerak"

77 Sweden

1968

Station

Alsback

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice
	o	'	o	'	''		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb				
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64	
0240	58	19	011	33	0	968	11	19	17	0118	01	000	05	08	000			2	8	2	0
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	Si O <sub>2</sub>	Sal. method	Extra info.								
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45		58 59 60	61 62 63 64	μgat/l			μgat/l	μgat/l	77	78				
17	0000	0548	27936	2208	705				0.36	0.65	12.06		33								
	0005	0677	28877	2266	668				0.37	0.63	11.75										
	0010	1033	31530	2422	527				0.47	0.67	12.30										
	0015	1091	32394	2478	494				0.49	0.80	12.48										
	0020	1111	32761	2503	492				0.52	0.63	11.14										
	0030	1120	33292	2544	486				0.60	0.70	14.50										
	0040	0834	33804	2631	471				0.62	0.77	10.83										
	0050	0910	34271	2656	457				0.73	0.97	13.59										
	0060	0709	34180	2679	383				1.36	1.42	27.85										
	0070	0621	34124	2684	369				1.55	1.58	30.91										
	0080	0591	34124	2689	369				1.60	1.75	31.95										
	0090	0572	34103	2690	338				1.63	1.76	30.48										
	0100	0557	34100	2692	317				2.02	2.05	37.94										
	0110	0545	34100	2693	217				2.47	2.50	46.21										
	0000								NO <sub>3</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	NO <sub>2</sub> <sup>-</sup> -N										
	0005								μgat/l	μgat/l	μgat/l										
	0010								3.63	10.80	0.33										
	0015								3.31	11.04	0.42										
	0020								4.13	11.66	1.03										
	0030								4.39	12.66	1.14										
	0040									2.63	0.95										
	0050								5.02	3.07	0.74										
	0060								5.25	0	0.81										
	0070								5.47	0	0.63										
	0080								6.33	0	0.13										
	0090								6.66	0.81	0.06										
	0100								6.67	6.11	0.05										
	0110								6.68	6.73	0.04										
	0100								6.68	2.86	0.04										
	0110								6.61	5.09	0.11										

BT Slide Sk 272/NN11801/68

Observer Sen Gupta

11 "Skagerak"

77 Sweden

1968

Station

Bornö Norra

Hydro Depth Observations (Code 03)

Station No.		Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																						
5	6	7	8	9	10		11	12	13					14	15	16	17	18	19					20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55
0241		58	23	011	350		968	11	19	18	0045	00		05	08	000						28	90																						
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	Si O <sub>2</sub>	Seal. method	Extra info.																																
26	27	28	29	30	31	32	33							34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78											
18	0000	0485	28342	2246	714				0.35	0.59	14.08	3	3																																
	0005	0713	29192	2286	640				0.41	0.67	12.61																																		
	0010	0979	31143	2400	519				0.48	0.67	18.54																																		
	0015	1093	32013	2448	477				0.48	0.65	13.77																																		
	0020	1131	32467	2478	462				0.54	0.67	13.59																																		
	0030	1142	32917	2510	452				0.63	0.86	13.59																																		
	0040	1078	33437	2564	451				0.98	1.43	14.59																																		
	0000								NO <sub>3</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	NO <sub>2</sub> <sup>-</sup> -N																																		
	0005								4.34	9.98	0.32																																		
	0010								4.31	7.37	0.32																																		
	0015								5.10	3.68	1.04																																		
	0020								5.04	0	1.17																																		
	0030								5.29	2.45	1.29																																		
	0040								5.13	3.07	1.13																																		
									5.61	2.26	0.91																																		

Observer Sen Gupta

11 "Skagerak"

77 Sweden

1968

Hydro Depth Observations (Code 03)

Station

Bredungen

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice						
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51	52					53	54	55	56	57	58
0242	58	25	011	36	0	968	11	19	19	0034	00	000	05	08	010							2	8	9	0			
Obs. time	Obs. depth	Temp.		Sal.	σ <sub>t</sub>	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	Si	O <sub>2</sub>	Sol. method	Extra info.														
26	27	28	29	30	31	32	33								34	35	36	37	38	39	40	41	42	43	44	45	58	59
19	0000	0426	27544	2188	719				0.34	0.60	12.79	3	3															
	0005	0805	29565	2304	546				0.45	0.63	10.40																	
	0010	1067	31610	2423	494				0.52	0.67	11.63																	
	0015	1118	32279	2464	478				0.53	0.74	12.67																	
	0020	1142	32780	2499	464				0.55	0.74	11.99																	
	0025	1137	32990	2518	463				0.55	0.97	11.57																	
	0030	1106	33239	2542	405				0.82	1.04	18.11																	
									NO <sub>3</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	NO <sub>2</sub> <sup>-</sup> -N																	
									μgat/l	μgat/l	μgat/l																	
	0000								4.22	2.26	0.44																	
	0005								3.92	3.68	0.58																	
	0010								4.56	0.81	1.20																	
	0015								4.48	1.02	1.10																	
	0020								4.66	3.88	1.28																	
	0025								4.64	0	1.20																	
	0030								5.15	1.23	0.91																	
														BT Slide Sk 273/399/68														
														Observer Sen Gupta														

11 "Skagerak"

Station

77 Sweden

1968

Smörkullen

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice		
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51 52	53 54					55 56	57 58 59
0243	58	24	011	38	0	968	11	19	19	0060	01	000	05	04	010							2	8	90
Obs. time	Obs. depth	Temp.		Sal.		$\sigma_t$		Oxygen		pH	PO <sub>4</sub> -P µgat/l	Tot.P µgat/l	Si O <sub>2</sub> µgat/l	Sal. method	Extra info.									
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	56	59 60							61 62 63	64	77	78					
19	0000	0615	27464	2162	673						0.45	0.67	13.49	33										
	0005	0878	30027	2329	590						0.48	0.74	12.48											
	0010	1019	31402	2414	520						0.48	0.66	10.65											
	0015	1102	32220	2462	464						0.51	0.74	10.65											
	0020	1142	32734	2495	455						0.59	0.77	12.30											
	0030	1095	33288	2549	454						0.66	0.77	11.02											
	0040	1035	33558	2580							0.76	0.95	13.46											
	0050	0946	33812	2615	405						0.87	1.00	17.56											
	0055	0929	33824	2617	394						0.90	1.21	17.93											
											NO <sub>3</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	NO <sub>2</sub> -N											
											µgat/l	µgat/l	µgat/l											
	0000										4.38	7.57	0.48											
	0005										3.85	7.76	0.79											
	0010										4.11	6.11	1.05											
	0015										4.16	7.76	1.05											
	0020										4.29	7.76	1.12											
	0030										4.64	4.23	0.89											
	0040										5.01	2.23	0.63											
	0050										5.94	0	0.42											
	0055										5.91	0	0.29											
BT Slide Sk 274/399/68																								
Observer Sen Gupta																								





11 "Skagerak"

Station

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1968

Ankr. I

## Hydro Depth Observations (Code 03)

Station No.	Lat.			Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																					
	5	6	7	8	9	10		11	12	13					14	15	16	17	18	19					20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54
0245	58	15	011	28	0	968	11	20	03	0050	00				05	12	025					28	9	0																					
Obs. time	Obs. depth			Temp.			Sal.	$\sigma_t$			Oxygen		pH	Sal. method	Extra info.																														
26	27	28	29	30	31	32	33	34	35	36	37	38				39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78														
03	0000	0614	28520	2245																							3	0																	
	0010	0786	29678	2316																																									
	0020	1039	32603	2503																																									
	0030	1031	33111	2546																																									
	0040	0975	33722	2603																																									
	0045	0937	34103	2639																																									
															Observer Sen Gupta N 58° 15.3' E 11° 28'																														

11 "Skagerak"

Station

77 Sweden

1968

Ankr. II

## Hydro Depth Observations (Code 03)

Station No.	Lat.			Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																					
	5	6	7	8	9	10		11	12	13					14	15	16	17	18	19					20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54
0246	58	15	011	28	0	968	11	20	12	0050	00				05	12	025					28	9	0																					
Obs. time	Obs. depth			Temp.			Sal.	$\sigma_t$			Oxygen		pH	Sal. method	Extra info.																														
26	27	28	29	30	31	32	33	34	35	36	37	38				39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78														
12	0000	0581	28233	2227																							3	0																	
	0010	0708	29003	2272																																									
	0020	1035	32446	2492																																									
	0030	1027	33186	2552																																									
	0040	0961	33855	2616																																									
	0045	0920	34168	2646																																									
															Observer Sen Gupta N 58° 15.3' E 11° 28'																														

11 "Skagerak"

Station

77 Sweden

1968

NE Gotska Sandön

Hydro Depth Observations (Code 03)

Station No.	Lat.			Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																							
	°	'	"	°	'	"		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																											
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0247	58	27	019	27	0			968	11	27	15	0080	01	037	27	08	060	055	5	6	1	0																							
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	Sal. method	Extra info.																																				
26	27	28	29	30	31	32				33	34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78														
15	0000	0547	0690	0556																																									
	0010	0542	0690	0556																																									
	0020	0541	0690	0556																																									
	0030	0550	0692	0556																																									
	0040	0407	0751	0604																																									
	0050	0297	0773	0623																																									
	0060	0335	0851	0633																																									
	0070	0395	0934	0748						274																																			
	0075	0418	0972	0778						119																																			

BT Slide Sk 285/395/68  
 Observer May Carlsson  
 N 58° 26.5'  
 E 19° 26.5'



11 "Skagerak"

Station

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A

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature			Weather	Cloud amount	State of sea	Ice
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. ka.	Dry bulb	Wet bulb	61				
0250	58	03	020	49	0	968	12	03	07	0080	01	019	32	16	030		070	12	2	0	
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	Sal. method		Extra info.											
26 27	28 29 30 31	32 33 34 35	36 37 38 39 40	41 42 43 44 45	58 59 60	61 62 63 64															
07	0000	0630	0715	0556																	10
	0010	0630	0715	0556																	
	0020	0649	0721	0569																	
	0030	0686	0739	0531																	
	0040	0622	0748	0592																	
	0050	0310	0772	0622																	
	0060	0319	0839	0674																	
	0070	0406	0954	0764																	
	0080	0456	1037	0828																	
											BT Slide Sk 288/395/68										
											Observer Classon										
											N 58° 02.5'										
											E 20° 48.5'										

11 "Skagerak"

Station

77 Sweden

1968

B

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice		
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb						
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64		
0251	57	47	020	45	0	968	12	03	11	0120	01	020	29	16	050	068	1	5	20			
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$			Oxygen		pH		77	78										
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58	59 60	61 62 63			64	77	78							
11	0000	0629	0715	0566																	0	
	0010	0626	0715	0566																		
	0020	0639	0719	0569																		
	0030	0661	0726	0572																		
	0040	0694	0740	0581																		
	0050	0351	0765	0615																		
	0060	0311	0777	0645			671															
	0070	0377	0889	0712			342															
	0080	0438	1006	0804			091															
	0090	0454	1042	0832																		
	0100	0485	1084	0864																		
	0110	0516	1147	0911																		

BT Slide Sk 289/395/68  
Observer Classon



11 "Skagerak"

77 Sweden

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Station

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Hydro. Depth Observations (Code 03)

Station No.	Lat.		Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice
	°	'	°	'	"		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb						
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64			
0253	57	11	018	51	0	968	12	03	21	0043	00	030	28	08	040	066		15	1	0			
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	Sal. method	Extra info.														
					ml/l	%																	
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58 59 60	61 62 63 64	77	78												
21	0000	0607	0715	0567																	0		
	0010	0608	0714	0567																			
	0020	0606	0715	0567																			
	0030	0650	0736	0581																			
	0040	0509	0743	0594																			
	0042	0487	0747	0598			742																
											BT Slide Sk 291/399/68 Observer Classon N 57° 11' E 18° 50.5'												

11 "Skagerak"  
77 Sweden

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Station  
Rysshålan

Hydro Depth Observations (Code 03)

Station No.		Lat.		Long.				N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																				
5	6	7	8	9	10	11	12		13	14	15					16	17	18	19	20	21					22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55
02	54	56	02	018	51	0		968	12	05	23	0123	01	025	27	10	040	070	1	6	20																								
Obs. time	Obs. depth	Temp.				Sal.	$\sigma_t$	Oxygen		pH														Sol. method	Extra info.																				
		32	33	34	35			36	37																	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78			
23	0000	0648	0730			0576																			0																				
	0010	0646	0730			0576																																							
	0020	0646	0730			0576																																							
	0030	0671	0734			0578																																							
	0040	0634	0740			0585																																							
	0050	0560	0747			0595																																							
	0060	0279	0778			0627																																							
	0070	0377	0908			0728																																							
	0080	0445	1011			0807																																							
	0090	0470	1061			0846																																							
	0100	0485	1090			0869					043																																		
	0110	0588	1153			0912																																							
	0115	0624	1193			0941					128																																		

BT Slide Sk 293/395/68  
Observer Classon



11 "Skagerak"  
77 Sweden

1968

Station  
ENE Christiansö

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice				
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51	52					53	54	55	56
0255	55	29	016	16	0	968	12	06	10	0073	01	036	00	00	034	080	28	0	0							
Obs. time	Obs. depth	Temp.		Sal.	σ <sub>t</sub>	Oxygen		pH		Sol. method	Extra info.															
26	27	28	29	30	31	32	33	34	35			36	37	38	39	40	41	42	43	44	45	58	59	60	61	62
10	0000	07	37	07	50	05	87																		10	
	0010	07	36	07	48	05	85																			
	0020	07	38	07	49	05	86																			
	0030	07	34	07	49	05	86																			
	0040	07	90	07	65	05	94																			
	0050	07	79	07	72	06	00																			
	0060	10	12	12	27	09	32																			
	0070	09	70	14	03	10	74	2	11																	
												BT Slide Sk 294/395/68														
												Observer Classon														

11 "Skagerak"  
77 Sweden

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Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice				
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51	52					53	54	55	56
0256	55	43	015	53	0	968	12	09	17	0065	01	020	09	16	020	076	14	2	0							
Obs. time	Obs. depth	Temp.		Sal.	σ <sub>t</sub>	Oxygen		pH		Sol. method	Extra info.															
26	27	28	29	30	31	32	33	34	35			36	37	38	39	40	41	42	43	44	45	58	59	60	61	62
17	0000	06	82	07	44	05	86																	1	0	
	0010	07	20	07	43	05	82																			
	0020	07	25	07	45	05	84																			
	0030	07	46	07	48	05	84																			
	0040	08	03	07	56	05	86																			
	0050	08	35	09	77	07	55																			
	0060	09	20	11	93	09	16	2	97																	
												BT Slide Sk 295/395/68														
												Observer Classon														
												N 55° 43.3'														
												E 15° 52.5'														

11 "Skagerak"

Station

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S 24

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	o	'	o	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0257	55	15	015	59	0	968	12	09	21	0090	01	029	09	14	030	077	14	3	0																										
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$		Oxygen		pH		Sal. method	Extra info.																																		
26	27	28	29	30	31	32	33	34	35			36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78															
21	0000	0750	0755	0589																										1	0														
	0010	0748	0755	0590																																									
	0020	0749	0757	0591																																									
	0030	0759	0759	0592					819																																				
	0040	0811	0769	0595																																									
	0050	1068	1010	0756					619																																				
	0060	0983	1161	0884																																									
	0070	1111	1386	1043					406																																				
	0080	0786	1505	1173					071																																				
	0085	0806	1517	1181					098																																				

BT Slide Sk 296/395/68  
Observer Classon

11 "Skagerak"

Station

77 Sweden

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N 1

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	o	'	o	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0258	54	51	015	13	0	968	12	10	02	0065	01	020	09	16	030	077	1	52	0																										
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$		Oxygen		pH		Sal. method	Extra info.																																		
26	27	28	29	30	31	32	33	34	35			36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78															
02	0000	0745	0757	0591																																									
	0010	0741	0756	0591																																									
	0020	0744	0756	0591																																									
	0030	0825	0775	0599																																									
	0040	0868	0826	0634																																									
	0050	0974	0996	0756																																									
	0060	0959	1155	0882																																									
	0063	1025	1300	0967					284																																				

BT Slide Sk 297/395/68  
Observer Classon

11 "Skagerak"

Station

77 Sweden

1968

S 2

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																							
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51	52					53	54	55	56	57	58	59	60															
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0259	55	27	014	42	0	968	12	10	20	0067	01	026	14	08	030	075	14	2	0																										
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	Sal. method	Extra info.																																			
26	27	28	29	30	31	32	33	34			35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64																	
20	0000	06	97	07	58	05	95												1	0																									
	0010	06	97	07	53	05	91																																						
	0020	06	99	07	53	05	91																																						
	0030	07	92	07	77	06	03																																						
	0040	08	34	08	01	06	18																																						
	0050	09	00	09	30	07	12																																						
	0060	08	56	13	39	10	36																																						
	0065	08	72	14	76	11	42	65	2																																				
BT Slide Sk 298/395/68																																													
Observer Classon																																													

11 "Skagerak"

Station

77 Sweden

1968

Y 18 (S 12)

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																							
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51	52					53	54	55	56	57	58	59	60															
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0260	55	01	013	58	0	968	12	11	00	0047	00	023	16	14	000	075	14	2	0																										
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	Sal. method	Extra info.																																			
26	27	28	29	30	31	32	33	34			35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64																	
00	0000	07	20	07	91	06	19												1	0																									
	0010	07	10	07	96	06	24																																						
	0020	07	14	07	92	06	20																																						
	0030	07	80	08	31	06	46																																						
	0040	08	26	17	87	13	88																																						
	0045	08	80	22	10	17	11	48	1																																				
BT Slide Sk 299/399/68																																													
Observer Classon																																													
N 55° 00.5'																																													
E 13° 58'																																													



11 "Skagerak"

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Ormestad

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb				
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64
0262	58	22	011	36	0	968	12	19	08	0088	01	000	32	08	030			2	8	91
Obs. time	Obs. depth		Temp.		Sol.	$\sigma_t$		Oxygen		pH	Tot. P PO <sub>4</sub> -P NO <sub>3</sub> <sup>-</sup> -N			Sol. method	Extra info.					
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58 59 60	61 62 63 64		µgat/l	µgat/l	µgat/l							
08	0000	0227	21026	1682	767						0.56	0.42	3.00		33					
	0005	0368	23288	1855	734						0.52	0.37	2.46							
	0010	0454	24271	1926	702						0.59	0.37	2.18							
	0015	0581	27703	2184							0.54	0.42	2.47							
	0020	0686	27916	2190	593						0.68	0.47	2.47							
	0030	0934	32042	2476	450						0.86	0.63	2.91							
	0040	0675	32067	2516	408						1.20	1.11	3.17							
	0050	0859	33653	2616	388						0.99	0.71	3.02							
	0060	0952	34140	2654	448						1.06	0.88	3.00							
	0070	0820	34237	2667	366						1.24	1.16	3.17							
	0080	0716	34258	2684	310						1.49	1.39	3.17							
											BT Slide Sk 304/68/399									
											Observer Sen Gupta									
											N 58°22.2'									
											E 11°36.4'									
											NO <sub>3</sub> <sup>-</sup> -N NH <sub>4</sub> <sup>+</sup> -N									
	0000										0.21	10.9								
	0005										0.21	8.7								
	0010										0.13	10.9								
	0015										0.22	10.9								
	0020										0.23	8.7								
	0030										0.06	0.0								
	0040										0.10	0.0								
	0050										0.12	8.7								
	0060										0.08	0.0								
	0070										0.02	0.0								
	0080										0.02	0.0								

11 "Skagerak"

77 Sweden

1968

Station

Smörkullen

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb				
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59	60	61 62	63 64	
0263	58	24	011	38	0	968	12	19	09	0063	01	000	32	08	030			28	9	9
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	Tot. P	PO <sub>4</sub> -P	NO <sub>3</sub> <sup>-</sup> -N	Sal. method	Extra info.								
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42		43 44 45	58	59 60			61 62 63 64	77	78					
09	0000	0285	21823	1746	729			0.68	0.38	2.58		3	3							
	0005	0392	23436	1865	701			0.62	0.34	1.73										
	0010	0463	24357	1932	633			0.57	0.34	1.50										
	0015	0692	27946	2192	562			0.68	0.44	1.80										
	0020	0735	31701	2480	426			0.83	0.59	2.58										
	0030	0815	34162	2660	357			1.34	1.10	2.92										
	0040	0653	34203	2687	275			1.74	1.60	3.02										
	0050	0691	34370	2695	334			1.90	1.73	3.02										
	0060	0710	34438	2699	348			1.85	1.65	3.08										
								BT Slide Sk 305/11601/68												
								Observer Sen Gupta												
								N 58°23.55'												
								E 11° 37.55'												
								NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N											
	0000							0.21	6.5											
	0005							0.21	10.9											
	0010							0.15	10.9											
	0015							0.12	6.5											
	0020							0.03	0.0											
	0030							0.03	0.0											
	0040							0.04	0.0											
	0050							0.04	0.0											
	0060							0.16	0.0											

11 "Skagerak"

Station

77 Sweden

1968

Färlevfjorden

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0264	58	25	011	36	0	968	12	19	09	0032	00	000	34	02	000			2	8	91																									
Obs. time	Obs. depth	Temp.			Sal.	σ <sub>t</sub>	Oxygen		pH	Tot.P µgat/l	PO <sub>4</sub> -P µgat/l	NO <sub>3</sub> <sup>-</sup> -N µgat/l	Sal. method	Extra info.																															
		32	33	34			35	36							37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64															
09	0000	0271	21916	1752	747				0.64	0.39	3.02		33																																
	0005	0424	23411	1861	718				0.61	0.33	2.66																																		
	0010	0479	24571	1948	688				0.61	0.33	2.59																																		
	0015	0701	28107	2204	583				0.72	0.43	3.02																																		
	0020	0993	32127	2473	398				0.86	0.64	3.25																																		
	0025	0958	33831	2614	356				1.04	0.88	3.29																																		
	0030	0793	34188	2667	358				1.26	1.16	3.32																																		
													BT Slide Sk 306/399/68																																
													Observer Sen Gupta																																
													N 58°24.95'																																
													E 11°35.58'																																
													NO <sub>2</sub> <sup>-</sup> -N		NH <sub>4</sub> <sup>+</sup> -N																														
	0000								0.17	13.1																																			
	0005								0.19	10.9																																			
	0010								0.16	10.9																																			
	0015								0.25	10.9																																			
	0020								0.09	15.3																																			
	0025								0.15	13.1																																			
	0030								0.10	0.0																																			

11 "Skagerak"

77 Sweden

1968

Hydro Depth Observations (Code 0 3)

Station

Alsäck

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0265	58	19	011	33	0	968	12	19	10	0118	01	000	34	02	000			2	8	99																									
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	Tot. P PO <sub>4</sub> -P NO <sub>3</sub> <sup>-</sup> -N			Sol. method	Extra info.																																	
26	27	28	29	30	31	32		33	34	35			36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78														
10	0000	0268	22155	1717	760			1.64	0.34	2.49		33																																	
	0005	0410	23553	1873	717			0.62	0.34	1.57																																			
	0010	0453	24639	1955	709			0.64	0.34	1.95																																			
	0015	0692	27816	2182	597			0.72	0.42	2.25																																			
	0020	0885	32285	2503	489			0.77	0.60	2.76																																			
	0030	0814	34215	2667	359			1.28	1.01	3.02																																			
	0040	0668	34282	2691	363			1.72	1.52	3.20																																			
	0050	0738	34496	2699	426			1.31	1.13	2.98																																			
	0060	0787	34642	2702	455			1.10	1.00	3.00																																			
	0070	0802	34698	2705	469			1.15	1.00	2.98																																			
	0080	0803	34728	2705	455			1.15	1.02	2.98																																			
	0090	0798	34692	2705	463			1.31	1.13	2.98																																			
	0100	0803	34760	2709	464			1.39	1.23	3.01																																			
	0110	0805	34776	2710	434			1.49	1.29	3.06																																			
								BT Slide Sk 307/11601/68																																					
								Observer Sen Gupta																																					
								N 58°19.17'																																					
								E 11°32.6'																																					
								NO <sub>2</sub> <sup>-</sup> -N NH <sub>4</sub> <sup>+</sup> -N																																					
								µgat/l µgat/l																																					
	0000							0.22	10.9																																				
	0005							0.17	6.5																																				
	0010							0.08	2.2																																				
	0015							0.08	0.0																																				
	0020							0.09	0.0																																				
	0030							0.03	0.0																																				
	0040							0.03	0.0																																				
	0050							0.04	0.0																																				
	0060							0.06	4.3																																				
	0070							0.02	0.0																																				
	0080							0.02	0.0																																				
	0090							0.02	13.1																																				
	0100							0.02	0.0																																				
	0110							0.02	0.0																																				



11 "Skagerak"  
77 Sweden

1968

Station  
Tröskeln

Hydro Depth Observations (Code 03)

Station No.	Lat.			Long.				NSEW	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice			
	9	10	11	12	13	14	15		16	17	18					Year	Mo.	Day	Dir.	Sp. kn.	Dry bulb					Wet bulb	55	56
0266	58	16	0	11	26	0			968	12	19	11	0060	01	000	27	06	006							28	9	9	
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$			Oxygen			pH	Tot. P $\mu\text{g}/\text{l}$	PO <sub>4</sub> -P $\mu\text{g}/\text{l}$	NO <sub>3</sub> <sup>-</sup> -N $\mu\text{g}/\text{l}$	NH <sub>4</sub> <sup>+</sup> -N $\mu\text{g}/\text{l}$	Ser. method	Extra info.											
26	27	28	29	30	31	32	33	34	35	36								37	38	39	40	41	42	43	44	45	58	59
11	0000	0254		22302					1783				780															33
	0005	0260		22305					1783				776															
	0010	0438		24525					1949				730															
	0015	0763		30556					2386				571															
	0020	0782		31763					2478				326															
	0030	0807		34283					2672				297															
	0040	0762		34428					2690				425															
	0050	0754		34529					2699				447															
	0055	0780		34639					2704				453															

BT Slide Sk 308/11601/68

Observer Sen Gupta

NO<sub>2</sub><sup>-</sup>-N NH<sub>4</sub><sup>+</sup>-N  
 $\mu\text{g}/\text{l}$   $\mu\text{g}/\text{l}$

0000  
0005  
0010  
0015  
0020  
0030  
0040  
0050  
0055

0.21 0.0  
0.17 10.9  
0.17 0.0  
2.2  
0.13 0.0  
0.09 0.0  
0.15 0.0  
0.15 0.0  
0.13 0.0

11 "Skagerak"

77 Sweden

1968

Hydro Depth Observations (Code 03)

Station

Harpöbådan

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice			
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51	52					53	54	55
0267	58	16	011	22	0	968	12	19	12	0055	00	004	27	05	030							1	5	20	
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$		Oxygen		pH	Tot.P			Sal. method	Extra info.											
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58		59 60	61	62 63			64	77	78								
12	0000	0258	22415	1792	782					0.73	0.36	2.10		33											
	0005	0353	23804	1896	760					0.64	0.37	2.06													
	0010	0465	25667	2036	718					0.65	0.38	1.80													
	0015	0583	30528	2406	685					0.63	0.42	2.30													
	0020	0778	32499	2536	588					0.65	0.42	2.46													
	0030	0846	34334	2661	546					0.83	0.61	2.75													
	0040	0819	34593	2695	528					0.86	0.80	2.98													
	0050	0816	34650	2700	539					0.92	0.78	2.98													
														BT Slide Sk 309/399/68											
														Observer Sen Gupta											
														N 58°15.85'											
														E 11°22.35'											
														NO <sub>2</sub> <sup>-</sup> -N NH <sub>4</sub> <sup>+</sup> -N											
														µgat/l µgat/l											
	0000									0.19	8.7														
	0005									0.19	0.0														
	0010									0.21	0.0														
	0015									0.25	0.0														
	0020									0.02	8.7														
	0030									0.03	0.0														
	0040									0.13	4.3														
	0050									0.13															

11 "Skagerak"

77 Sweden

Station

SE Bonden

1968

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	58 59 60	61				
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64		
0268	58	13	011	21	0	968	12	19	13	0025	00	004	27	06	030		1	4	2	0		
Obs. time	Obs. depth	Temp.	Sal.	σ <sub>t</sub>	Oxygen		pH	Tot. P PO <sub>4</sub> -P NO <sub>3</sub> -N			Sel. method	Extra info.										
26 27	28 29 30 31	32 33 34 35	36 37 38 39 40	41 42 43 44 45	58 59 60	61 62 63 64		μgat/l	μgat/l	μgat/l			77	78								
13	0000	0282	22492	1797	782			0.65	0.39	2.98		33										
	0005	0397	24270	1931	741			0.64		2.89												
	0010	0476	26472	2098	718			0.61	0.41	2.81												
	0015	0526	28863	2282	703			0.65	0.43	3.08												
	0020	0643	30707	2414	654					2.25												
	0022	0796	32401	2526	572			0.72	0.58	2.68												
								BT Slide Sk 310/399/68														
								Observer Sen Gupta														
								N 58°12.9'														
								E 11°21.3'														
								NO <sub>2</sub> -N NH <sub>4</sub> <sup>+</sup> -N														
								μgat/l μgat/l														
	0000							0.17	6.5													
	0005							0.19														
	0010							0.23	0.0													
	0015							0.21														
	0020							0.17	0.0													
	0022							0.12														

13 "Thetis"

Station

77 Sweden

Pj. 55 Marstrandsfjord

1968

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0188	57	54	011	32	0	968	08	12	12	0035	00	005	27	04	18	0	14	6	14	2	0																								
Obs. time	Obs. depth	Temp.		Sal.		$\sigma_t$		Oxygen		pH	Sal. method	Extra info.																																	
26	27	28	29	30	31	32	33	34	35				36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78														
12	0000	21	01	15	83	1	003	616													3	0																							
	0005	20	54	18	52	1	217	600																																					
	0010	17	51	23	84	1	690	489																																					
	0015	15	84	31	22	2	291	562																																					
	0020	13	28	33	12	2	491	537																																					
	0030	10	18	34	40	2	647	480																																					
												BT Slide Th 195/358/68																																	
												Observer Ingström																																	

13 "Thetis"

Station

77 Sweden

P 1

1968

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0189	57	53	011	25	0	968	08	12	13	0067	00	000	27	06	18	4	14	7	1	5	2	0																							
Obs. time	Obs. depth	Temp.		Sal.		$\sigma_t$		Oxygen		pH	Sal. method	Extra info.																																	
26	27	28	29	30	31	32	33	34	35				36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78														
13	0000	19	81	18	89	1	261	622														3	0																						
	0005	18	89	25	01	1	749	612																																					
	0010	19	49	27	38	1	912	579																																					
	0015	17	67	30	68	2	203	603																																					
	0020	14	41	33	28	2	479	585																																					
	0030	10	42	34	54	2	654	613																																					
	0040	08	12	34	95	2	722	616																																					
	0050	07	02	35	09	2	750	585																																					
												BT Slide Th 196/358/68																																	
												Observer Bladh																																	

13 "Thetis"

77 Sweden

Station

P 13

1968

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.					N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice			
	°	'	°	'	°	'	°		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51	52					53	54	55
0190	57	52	011	21	0			968	08	12	14	0066	01	011	29	06	18	0								15	2	0
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$		Oxygen		pH		Sal. method		Extra info.															
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78
14	0000	1966	23228	1592	609																						3	0
	0005	1953	27505	1921	590																							
	0010	1942	27524	1929	579																							
	0015	1719	31102	2243	609																							
	0020	1460	32967	2453	601																							
	0030	1001	34629	2668	582																							
	0040	0839	34931	2718	683																							
	0050	0763	35062	2739	551																							
	0060	0718	35132	2752	589																							

BT Slide Th 197/358/68  
Observer Bladh  
N 57° 52.3  
E 11° 21'



13 "Thetis"

Station

77 Sweden

P 23

1968  
Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice	
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	60	61					62
0192	57	51	011	15	0	968	08	12	15	0066	01	003	29	08	190					1	3	20	
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$		Oxygen		pH		Sol. method		Extra info.										
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58	59 60	61 62 63	64									77	78		
15	0000	1928	27604	1936	578																		30
	0005	1930	27619	1938	585																		
	0010	1901	27682	1942	586																		
	0015	1678	30739	2232	631																		
	0020	1437	33134	2468	599																		
	0030	0929	34907	2703	675																		
	0040	0829	35028	2728	627																		
	0050	0808	35040	2730	605																		
	0060	0775	35077	2739	604																		

BT Slide Th 199/358/68  
Observer Bladh  
N 57° 51'4  
E 11° 14'9





13 "Thetis"

Station

77 Sweden

153

1968

Hydro Depth Observations (Code 03)

Station No.		Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																															
5	6	7	8	9	10		11	12	13					14	15	16	17	18	19					20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0	1	9	5	7	4	8	0	10	10	4	2	0	000	32	04	17	4	15	1	1	1	6	2	0																														
Obs. time	Obs. depth	Temp.			Sal.	$\sigma_t$	Oxygen		pH	Sal. method	Extra info.																																											
26	27	28	29	30	31	32	33	34				35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64																									
18	0000	1824			28337	2015	590																																															
	0005	1823			28342	2016	600																																															
	0010	1770			28377	2031	565																																															
	0015	1802			28388	2024	592																																															
	0020	1617			31858	2332	612																																															
	0030	1367			33658	2524	597																																															
	0040	1027			34693	2668	649																																															
	0050	0844			35003	2722	590																																															
	0070	0785			35062	2732	584																																															
											BT Slide Th 202/358/68																																											
											Observer Bladh																																											



13 "Thetis"  
77 Sweden

Station  
R 45

1968  
Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice	
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb					
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64	
0197	58	16	009	58	0	968	08	13	03	0515	05	004	05	06	16	2	12	01	4	3	0
Obs. time	Obs. depth		Temp.		Sal.	σ <sub>t</sub>		Oxygen		pH		Sal. method		Extra info.							
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58 59 60	61 62 63	64			77	78							
04	0000	1350	25824	1819	596									3	0						
	0005	1643	30320	2209	650																
	0010	1379	32492	2431	636																
	0015	1250	33147	2507	631																
	0020	1180	34317	2612	618																
	0030	0916	34741	2691	600																
	0040	0736	34878	2729	635																
	0050	0603	34815	2742	654																
	0075	0622	34966	2751	640																
	0100	0618	35030	2757	631																
03	0150	0633	35150	2764	621																
	0200	0533	35158	2772	637																
	0300	0624	35257	2774	603																
	0400	0574	35187	2775	650																
	0500	0577	35229	2779	597																

BT Slide Th 204/269/68  
Observer Engström  
N 58° 16.4  
E 09° 57.5

13 "Thetis"

Station

77 Sweden

Å 188

1968

## Hydro Depth Observations (Code 0 3)

Station No.	Lat.		Long.				N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																					
	o	'	c	'	''	'''		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																											
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0198	53	16	010	11	0	968	08	13	05	0470	04	008	05	04	15	9	11	4	14	2	0																								
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH		Sal. method		Extra info.																																		
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77		78																
05	0000	1798	28326	2020	587																																								
	0005	1809	28424	2026	589																																								
	0010	1497	32642	2420	605																																								
	0015	1212	34229	2590	657																																								
	0020	0997	34760	2688	659																																								
	0030	0737	34958	2728	627																																								
	0040	0727	35020	2742	636																																								
	0050	0676	35057	2752	656																																								
	0075	0629	35109	2762	638																																								
	0100	0615	35115	2764	605																																								
	0150	0586	35130	2769	631																																								
	0200	0583	35173	2773	633																																								
	0300	0574	35168	2774	648																																								
	0400	0578	35206	2775	656																																								

BT Slide Th 205/269/68  
Observer Bladh

13 "Phetis"

77 Sweden

Station

L 17

1968

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice							
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51	52					53	54	55	56	57	58	59
0199	58	15	010	34	0	968	08	13	07	0295	03	003	14	02	16	3	11	61	5	2	0								
Obs. time	Obs. depth	Temp.			Sal.	$\sigma_t$		Oxygen		pH	Sal. method	Extra info.																	
26	27	28	29	30	31	32	33	34	35				36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64
08	0000	1836	28580	2031	592																							3	0
	0005	1840	28598	2031	588																								
	0010	1803	32637	2394	658																								
	0015	1250	33679	2548	590																								
	0020	1112	34617	2648	593																								
	0030	0827	34878	2716	611																								
	0040	0637	34893	2736	626																								
	0050	0642	34951	2748	616																								
07	0075	0728	35253	2760	621																								
	0100	0644	35244	2770	594																								
	0150	0639	35263	2772	586																								
	0200	0637	35260	2773	584																								
	0275	0629	35254	2773	598																								
												BT Slide Th 206/269/68																	
												Observer Bladh																	
												N 58° 14.5																	
												E 10° 34'																	

13 "Thetis"

77 Sweden

Station

Å 16

1968

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice						
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51	52					53	54	55	56	57	58
0200	58	16	010	44	0	19	08	13	09	0205	02	009	23	04	16	4	12	01	6	2	0							
Obs. time	Obs. depth	Temp.		Sal.	σ <sub>t</sub>	Oxygen		pH	Sal. method	Extra info.																		
26	27	28	29	30	31	32	33				34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63
09	0000	1900		27440	1930			547																		3	0	
	0005	1887		27473	1936			598																				
	0010	1659		30406	2211			659																				
	0015	1214		33708	2557			736																				
	0020	1001		34425	2652			692																				
	0030	0617		34560	2720			658																				
	0040	0702		34986	2743			623																				
	0050	0707		35130	2753			616																				
	0075	0690		35258	2766			552																				
	0100	0659		35247	2769			577																				
	0150	0649		35258	2771			579																				
	0190	0647		35259	2772			581																				

BT Slide Th 207/269/68

Observer Engström

N 58° 16'

E 10° 43.5'

13 "Thetis"

Station

77 Sweden

Å 15

1968

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice						
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51	52					53	54	55	56	57	58
0201	58	18	010	51	0	968	08	13	10	0133	01	009	25	04	16	2	11	9	1	6	2	0						
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$		Oxygen		pH	Sci. method	Extra info.																	
26	27	28	29	30	31	32	33	34				35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63
10	0000	19	25	27	785	19	49	586																			3	0
	0005	19	16	27	801	19	53	590																				
	0010	18	45	28	266	20	06	613																				
	0015	13	87	32	464	24	27	700																				
	0020	08	79	34	450	26	75	713																				
	0030	06	97	34	880	27	35	605																				
	0040	07	13	35	086	27	49	627																				
	0050	07	26	35	222	27	58	613																				
	0075	06	75	35	224	27	65	572																				
	0100	06	74	35	239	27	66	580																				
	0125	06	69	35	231	27	66	577																				
												BT Slide Th 208/269/68																
												Observer Bladh																
												M 58° 17.7																
												E 10° 51'																

13 "Thetis"

Station

77 Sweden

A 14

1968

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																							
	°	'	°	'	''		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	58	59					60	61																					
	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0202	58	19	010	57	0		968	08	13	11	0111	01	009		25	06	16	7	13	11	6	2																								
Obs. time	Obs. depth	Temp.	Sal.	σ <sub>t</sub>	Oxygen		pH		Sal. method	Extra info.																																				
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64																				
11	0000	1911	26889	1886	577																																				30					
	0005	1946	27468	1922	592																																									
	0010	1756	28900	2084	652																																									
	0015	1093	33742	2584	730																																									
	0020	0955	34332	2653	700																																									
	0030	0813	35047	2731	646																																									
	0040	0742	35098	2745	622																																									
	0050	0716	35160	2755	606																																									
	0075	0703	35170	2757	590																																									
	0100	0695	35183	2759	577																																									
														BT Slide Th 209/269/68																																
														Observer Bladh																																
														N 58° 19'																																
														E 10° 56.5																																





13 "Thetis"

Station

77 Sweden

A 12

1968

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice		
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51 52	53 54					55 56	57 58 59
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56	57	58 59	60	61	62	63	64		
0204	58	20	011	06	0	968	08	13	12	0048	00	004	27	06	16	7	11	8	16	2	0			
Obs. time	Obs. depth	Temp.	Sol.	$\sigma_t$	Oxygen		pH	Sol. method	Extra info.															
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42				43 44 45	58	59 60	61 62 63	64	77	78								
12	0000	1852	20842	1998	615																	3	0	
	0005	1963	26633	1854	597																			
	0010	1919	27543	1934	590																			
	0015	1546	31910	2351	626																			
	0020	1267	33494	2531	652																			
	0030	0975	34760	2682	549																			
	0040	0750	35101	2744	554																			

BT Slide Th 211/358/68  
Observer Bladh  
N 58° 20.2  
E 11° 06.1

13 "Thetis"

Station

77 Sweden

A 11

1968

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice			
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51 52	53 54					55 56	57 58 59	60
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56	57	58 59	60	61	62	63	64			
0205	58	20	011	10	0	968	08	13	13	0049	00	000	23	08	16	8	12	02	7	2	0				
Obs. time	Obs. depth	Temp.	Sol.	$\sigma_t$	Oxygen		pH	Sol. method	Extra info.																
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42				43 44 45	58	59 60	61 62 63	64	77	78									
13	0000	1997	20043	1345	601																			30	
	0005	1939	21903	1300	610																				
	0010	1858	28053	1987	611																				
	0015	1577	32358	2379	600																				
	0020	1391	32920	2462	520																				
	0030	1076	34435	2640	537																				
	0040	0790	34987	2730	549																				

BT Slide Th 212/358/68  
Observer Bladh  
N 58° 20.2  
E 11° 09.5



13 "Thetis"

77 Sweden

Station

Saltkälle fjord

1968

Hydro Depth Observations (Code 03)

Station No.	Lat.			Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice
	°	'	''	°	'	''		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb				
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61 62	63 64				
0208	58	25	011	40	.0	968	08	14	08	0061	01	007	23	10	155	136	68	2	0			
Obs. time	Obs. depth	Temp.		Sal.		$\sigma_t$	Oxygen		pH	Sal. method	Extra info.											
							ml/l	%														
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58 59 60	61 62 63 64		77 78											
08	0000	2007	19953	1336	610															3	0	
	0005	2015	20070	1342	610																	
	0010	1778	25576	1817	598																	
	0015	1286	30361	2285	516																	
	0020	0994	31393	2417	463																	
	0030	0722	32912	2578	461																	
	0040	0704	33571	2631	480																	
	0050	0706	33783	2648	493																	
	0055	0703	33850	2653	499																	

BT Slide Th 215/358/68  
Observer Engström  
N 58° 25.42'  
E 11° 39.50'

13 "Thetis"

77 Sweden

Station

Alsbäck

1968

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice	
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb					
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64	
0209	58	19	011	33	0	968	08	14	09	0118	01	009	16	08	164	154		28		20	
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	Sal. method	Extra info.												
					ml/l	%															
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58 59 60	61 62 63 64	77	78										
09	0000	1996	20268	1363	599																3 0
	0005	1997	20295	1365	597																
	0010	1607	28440	2073	588																
	0015	1302	31212	2348	539																
	0020	1062	31878	2444	486																
	0030	0806	33271	2594	492																
	0040	0887	33987	2638	490																
	0050	0889	34411	2670	483																
	0060	0576	34153	2693	482																
	0070	0537	34105	2695	482																
	0080	0514	34119	2698	473																
	0090	0510	34121	2699	468																
	0100	0497	34127	2701	441																
	0110	0491	34141	2702	382																

BT Slide Th 216/269/68  
 Observer Engström  
 N 58° 19'  
 E 11° 32.6'



13 "Thetis"

77 Sweden

1968

Station

E Väderö

Hydro Depth Observations (Code 0 3)

Station No.	Lat.			Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																					
	°	'	''	°	'	''		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																											
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0211	58	35	011	05	0	968	08	15	07	0100	01	008	36	16	125							00	3	0																					
Obs. time	Obs. depth	Temp.	Sal.	σ <sub>t</sub>	Oxygen		pH	Sal. method	Extra info.																																				
					ml/l	%																																							
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78																	
07	0000	1869	20851	1436	591																								3	0															
	0005	1869	20923	1441	589																																								
	0010	1610	30976	2266	584																																								
	0015	1535	32049	2364	567																																								
	0020	1224	33102	2508	518																																								
	0030	0886	33993	2638	542																																								
	0040	0801	34587	2697	536																																								
	0050	0756	34938	2732	554																																								
	0075	0710	35106	2751	572																																								
	0090	0701	35116	2753	563																																								

BT Slide Th 218/269/68  
Observer Bladh  
N 58° 34.9'  
E 11° 05.3'

13 "Thetis"

77 Sweden

1968

Station

Väderö 1

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice	
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb					
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64	
0212	58	34	011	01	0	968	08	15	08	0054	00	000	36	18	136	108	00	3	0		
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	Sal. method	Extra info.											
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45				58 59 60	61 62 63 64	77 78								
08	0000	1822	21832	1521	591																
	0005	1920	25396	1769	601																
	0010	1641	30633	2233	608																
	0015	1494	32036	2373	555																
	0020	1164	33481	2551	515																
	0030	0942	34540	2671	632																
	0040	0798	34964	2727	562																
										BT Slide Th 219/358/68											
										Observer Engström											
										N 58° 34.2'											
										E 11° 01.2'											



13 "Thetis"

Station

77 Sweden

1968

Väderö 2

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice	
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	58	59					60
0213	58	34	010	57	0	968	08	15	08	0065	01	007	36	16	136					0	0	30	
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH		Sal. method		Extra info.											
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58	59 60	61 62 63	64											77	78
08	0000	1837	22241	1549	595																	3	0
	0005	1835	22302	1554	596																		
	0010	1663	30364	2207	606																		
	0015	1487	31966	2369	546																		
	0020	1150	33609	2563	522																		
	0030	0998	34686	2674	546																		
	0040	0778	34923	2727	631																		
	0050	0733	35039	2743	609																		
	0060	0704	35106	2752	596																		
												BT Slide Th 220/358/68											
												Observer Engström											
												N 58° 33.7'											
												E 10° 57.4'											

13 "Thetis"  
77 Sweden

1968

Station  
Väderö 3

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.				N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice			
	°	'	°	'	''	Year		Mo.	Day	Dir.					Sp. kn.	Dry bulb	Wet bulb	51	52	53					54	55	56
0214	58	33	010	54	0		968	08	15	09	0078	01	009	36	18	138	112							0	03	0	
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH		Sal. method	Extra info.																	
26	27	28	29	30	31	32	33	34			35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63
09	0000	1827	22663	1583																						3	0
	0005	1828	22696	1587																							
	0010	1793	28285	2019																							
	0015	1496	32013	2370																							
	0020	1083	34496	2644																							
	0030	0893	34835	2703																							
	0040	0786	34981	2730																							
	0050	0752	35035	2740																							
	0070	0708	35102	2750																							

BT Slide Th 221/269/68  
Observer Bladh  
N 58° 33.2'  
E 10° 53.7'

13 "Thetis"

Station

77 Sweden

1968

Väderö 4

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice	
	o	'	o	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51 52	53 54					55 56
0215	58	33	010	48	0	968	08	15	09	0102	01	009	36	16	140						0	03	0
Obs. time	Obs. depth		Temp.		Sol.	$\sigma_t$		Oxygen		pH	Sal. method	Extra info.											
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58	59 60				61 62 63	64	77	78							
09	0000	18	16	22	696	15	89	594														3	0
	0005	18	16	22	791	15	96	587															
	0010	17	48	28	691	20	60	612															
	0015	12	53	33	433	25	29	703															
	0020	09	29	34	145	26	43	733															
	0030	07	68	35	056	27	39	619															
	0040	07	58	35	088	27	43	623															
	0050	07	31	35	116	27	49	617															
	0075	07	09	35	158	27	56	595															
	0090	06	90	35	153	27	58	578															
												BT Slide Th 222/269/68											
												Observer Bladh											
												N 58° 32.5'											
												E 10° 48'											

13 "Thetis"  
77 Sweden

1968

Station  
Väderö 5

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																								
	o	'	o	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																														
5 6 7 8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64				
0216	58	32	010	41	0	968	08	15	10		0134	01	010	36	20	142	11	6	00	0			4	0																						
Obs. time	Obs. depth	Temp.		Sal.		$\sigma_t$		Oxygen		pH		Sal. method		Extra info.																																
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58	59 60	61	62 63	64	77	78																																
10	0000	1793	25320	1934	593																																									
	0005	1791	25334	1934	585																																									
	0010	1771	28242	2020	585																																									
	0015	1117	34342	2626	720																																									
	0020	0756	34378	2688	714																																									
	0030	0715	34842	2730	659																																									
	0040	0738	35123	2749	622																																									
	0050	0718	35189	2757	621																																									
	0075	0685	35216	2763	577																																									
	0100	0683	35231	2764	595																																									
	0125	0671	35228	2766	584																																									
BT Slide Th 223/269/68 Observer Bladh N 58° 31.6' E 10° 40.7'																																														

13 "Thetis"

77 Sweden

1968

Station

Väderö 6

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice
	a	r	o	r		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51 52	53 54				
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56	57 58 59 60	61	62	63	64		
0217	58	31	010	33	0	968	08	15	11	0180	02	009	34	16	149	114	0	04	0			
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	Sal. method	Extra info.													
					ml/l	%																
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58 59 60	61 62 63 64	77	78											
11	0000	1764	27350	1956	591															3	0	
	0005	1766	27681	1980	595																	
	0010	1453	32536	2420	612																	
	0015	1084	34564	2649	608																	
	0020	0961	34782	2687	600																	
	0030	0672	34717	2726	647																	
	0040	0665	34973	2747	629																	
	0050	0684	35071	2752	628																	
	0075	0679	35236	2766	593																	
	0100	0668	35244	2767	539																	
	0150	0655	35251	2770	579																	
	0175	0653	35264	2770	591																	

BT Slide Th 224/269/68  
Observer Bladh

13 "Thetis"

77 Sweden

1968

Station

Väderö 8

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice		
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb						
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64		
0218	58	29	010	18	0	968	08	15	13	0410	04	007	32	06	158	112	0	0	30			
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH		Sal. method		Extra info.											
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	56 59 60	61 62 63 64	77	78											
13	0000	1753	28923	2077	599																30	
	0005	1743	28992	2084	599																	
	0010	1379	33194	2485	691																	
	0015	1155	34456	2629	698																	
	0020	0992	34748	2680	628																	
	0030	0773	34907	2726	604																	
	0040	0738	35031	2742	616																	
	0050	0691	35098	2752	630																	
	0075	0619	35115	2764	621																	
	0100	0612	35127	2766	626																	
	0150	0581	35132	2770	629																	
	0200	0578	35154	2772	633																	
	0300	0586	35224	2777	630																	
	0400	0583	35233	2778	622																	
												BF Slide Th 225/269/68										
												Observer Engström										
												N 58° 28.8'										
												E 10° 18.4'										

13 "Thetis"

Station

77 Sweden

1968

Väderö 10

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb				
0219	58	26	010	00	0	968	08	15	15	0580	05	004	27	12	158	120	16	3	0	
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	Sci. method	Extra info.											
					ml/l	%														
26 27	28 29 30 31	32 33 34 35	36 37 38 39 40	41 42 43 44 45	58 59 60	61 62 63 64		77	78											
15	0000	1704	27831	2145	601															
	0005	1504	31022	2292	673															
	0010	1146	34358	2623	633															
	0015	0964	34706	2681	613															
	0020	0847	34830	2709	610															
	0030	0746	34858	2727	616															
	0040	0677	34850	2736	630															
	0050	0631	34868	2743	639															
	0075	0624	34980	2752	624															
	0100	0622	35019	2756	626															
	0150	0624	35083	2760	626															
	0200	0605	35121	2766	628															
	0300	0568	35121	2771	645															
	0400	0578	35230	2778	644															
	0500	0591	35183	2773	625															
BT Slide Th 226/269/68 Observer Bladh N 58° 26.4' E 10° 00'																				

13 "Thetis"

77 Sweden

1968

Station

S. Syster

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice		
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb								
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64				
0220	58	35	011	09	0	968	08	16	07	0052	00	004	14	10	140	114	1	5	30					
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH		Sal. method	Extra info.													
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58	59 60			61 62 63 64												
07	0000	1801	21255	1482	587																		3	0
	0005	1744	26008	1858	573																			
	0010	1518	31361	2315	570																			
	0015	1369	32303	2419	541																			
	0020	1166	33066	2518	519																			
	0030	0886	34424	2671	487																			
	0040	0808	34733	2711	489																			
												BT Slide Th 227/358/68												
												Observer Bladh												

13 "Thetis"

77 Sweden

1968

Station

E Väderö

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice				
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb										
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64						
0221	58	35	011	05	0	968	08	16	07	0110	01	007	14	10	140											
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH		Sal. method	Extra info.															
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58	59 60			61 62 63 64														
07	0000	1836	20824	1441	589																				3	0
	0005	1839	21725	1510	584																					
	0010	1624	31042	2268	592																					
	0015	1452	32131	2389	549																					
	0020	1235	32940	2494	527																					
	0030	0880	34311	2664	527																					
	0040	0751	35051	2741	573																					
	0050	0737	35078	2746	559																					
	0075	0713	35116	2752	567																					
	0090	0708	35121	2753	562																					
												BT Slide Th 228/269/68														
												Observer Engström														







13 "Thetis"

Station

77 Sweden

1968

Väderö 4

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.			NSEW	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																								
	o	'	o	'	''		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																												
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0225	58	33	010	48	0	968	08	16	10	0102	01	014	23	16	156	122	1	5	40																										
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	Sal. method	Extra info.																																				
					ml/l	%																																							
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78																	
10	0000	1797	22383	1569	598																							3	0																
	0005	1811	23565	1656	590																																								
	0010	1801	28426	2028	596																																								
	0015	1279	33397	2521	678																																								
	0020	1016	34907	2688	677																																								
	0030	0790	35083	2738	635																																								
	0040	0735	35132	2750	610																																								
	0050	0722	35149	2753	600																																								
	0075	0709	35171	2757	591																																								
	0090	0703	35185	2759	586																																								

BT Slide Th 232/269/68  
Observer Bladh  
N 56° 32.5'  
E 10° 48'

13 "Thetis"

77 Sweden

1968

Station

Väderö 5

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.				N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice				
	°	'	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	55	56					57	58	59	60
0226	58	32	010	41	0	968	08	16	11	0134	01	012	23	16	164	12	0	15	4	0								
Obs. time	Obs. depth		Temp.		Sal.	$\sigma_t$			Oxygen		pH												Sal. method Extra info.					
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78
11	0000	1757	25160	1789	592																						3	0
	0005	1761	25969	1851	596																							
	0010	1755	30663	2209	635																							
	0015	1189	33804	2571	707																							
	0020	0982	34778	2683	693																							
	0030	0794	35104	2739	661																							
	0040	0740	35199	2754	636																							
	0050	0704	35199	2759	610																							
	0075	0683	35239	2765	589																							
	0100	0669	35252	2768	583																							
	0125	0667	35230	2767	572																							

BT Slide Th 233/269/68  
Observer Engström  
N 58° 31.6'  
E 10° 40.7'

13 "Thetis"

Station

77 Sweden

1968

S 14 Kosterfjord

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0227	58	50	011	06	0	968	08	16	14	0240	02	000	25	06	162	122	13	30																											
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH		Sel. method		Extra info.																																	
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78																	
14	0000	1841	20775	1437	584																																								
	0005	1783	22773	1601	580																																								
	0010	1457	30827	2288	537																																								
	0015	1321	31712	2384	499																																								
	0020	1113	32677	2497	497																																								
	0030	0874	34139	2651	559																																								
	0040	0753	34435	2693	543																																								
	0050	0678	34686	2723	563																																								
	0075	0643	34882	2742	555																																								
	0100	0600	34856	2747	539																																								
	0125	0588	34847	2748	579																																								
	0150	0580	34862	2749																																									
	0175	0628	34963	2750																																									
	0200	0650	35018	2752	590																																								
	0225	0655	35033	2752	586																																								
																			BT Slide Th 234/269/68																										
																			Observer Engström																										
																			N 58° 49.6'																										
																			E 11° 05.8'																										



13 "Thetis"

Station

77 Sweden

1968

Klövningarna 4

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice	
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. km.	Dry bulb	Wet bulb							
0236	56	57	011	04	0	968	08	19	10	0220	02	004	18	02	170					1	4	10	
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	Seal. method	Extra info.											
						ml/l	%		$\mu\text{gat/l}$	$\mu\text{gat/l}$													
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45	58	59 60	61 62 63	64	77	78										
11	0000	1806	19450	1345	575			792	0.04	0.12		33											
	0005	1749	24786	1764	556			801	0.14	0.19													
	0010	1508	30672	2264	575			799	0.05	0.10													
	0015	1350	31817	2386	526			796	0.10														
	0020	1217	32325	2451	507			795	0.31														
	0030	0892	33757	2619	545			795	0.58														
	0040	0735	34427	2695	554			796	0.90														
	0050	0641	34670	2726	572			794	0.86	1.37													
10	0075	0615	34857	2745	569			791	0.78														
	0100	0601	34848	2746	583			795	0.89														
	0125	0583	34864	2749	583			794	0.95														
	0150	0639	34977	2751	587			795	0.87														
	0175	0663	35030	2751	588			799	0.58														
	0200	0668	35068	2754	584			799	0.48	0.55													
										BT Slide Th 242/269/68													
										Observer Engström													
										N 56° 56.8'													
										E 11° 03.5'													

13 "Thetis"

77 Sweden

1968

Station

Klövningarna 1

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0239	58	58	011	06	0	968	09	19	12	0037	00	004	18	02	170			1	5	10																									
Obs. time	Obs. depth	Temp.	Sal.	σ <sub>t</sub>	Oxygen		pH	PO <sub>4</sub> -P μgat/l	Tot.P μgat/l	Sol. method Extra info.																																			
26	27	28	29	30	31	32					33	34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78													
12	0000	1767	20242	1413	579		792	0.20		3																																			
	0005	1758	23252	1644	574		803	0.07																																					
	0010	1500	30271	2235	543		802	0.0	0.31																																				
	0015	1330	31254	2345	509		800	0.11																																					
	0020	1151	31895	2430	444		793	0.37																																					
	0030	0879	33721	2619	510		797	0.64																																					
											BT Slide Th 246/258/68																																		
											Observer Engström																																		
											N 58° 58.3'																																		
											E 11° 06.1'																																		







13 "Thetis"

77 Sweden

1968

Station

Idefjorden 15

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0247	59	06	011	15	0	968	08	20	09	0030	00	000	23	04	170			1	2	10																									
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Tot.P µgat/l	Sai. method	Extra info.																																		
26	27	28	29	30	31	32						33	34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78												
09	0000	1720	14776	1009			008							643	0.0	1.04																				33									
	0003	1629	19539	1389			081							675	0.0	0.85																													
	0005	1558	22310	1614			117							697	0.01																														
	0010	1454	29665	2199			471							789	0.03	0.28																													
	0015	1353	30670	2296			493							790	0.10																														
	0020	1170	31638	2407			491							791	0.19	0.35																													
	0025	0919	32722	2533			497							786	0.94																														
																			BT Slide Th 253/358/68																										
																			Observer Engström																										
																			N 59° 05.5'																										
																			E 11° 14.6'																										

13 "Thetis"

77 Sweden

1968

Station

Idefjorden 14 a

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0248	59	05	011	16	0	968	08	20	10	0068	00	001	23	04	170			1	31	0																									
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Tot.P µgat/l	Sai. method	Extra info.																																		
26	27	28	29	30	31	32						33	34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78												
10	0000	1732	11196	0733			0							607	0.0																														
	0001	1709	14401	0982			0							636	0.03	1.16																													
	0005	1539	22555	1637			068							695	0.0																														
	0010	1370	27382	2040			226							740	0.01																														
	0015	1341	29625	2218			411							800	0.03																														
	0020	1321	29994	2250			435							800	0.03	0.42																													
	0025	1309	30186	2267			426							780	0.11																														
																			BT Slide Th 254/358/68																										
																			Observer Engström																										
																			N 59° 05.25'																										
																			E 11° 15.8'																										

13 "Thetis"  
77 Sweden

1968

Station  
Idefjorden 14

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice						
	o	'	o	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51	52					53	54	55	56	57	58
0249	59	06	011	17	0	968	08	20	10	0040	00	002	23	04	170								1	5	1	0		
Obs. time	Obs. depth		Temp.		Sal.	$\sigma_t$		Oxygen		pH	PO <sub>4</sub>	-P	Tot.P	H <sub>2</sub> S	Scl. method	Extra info.												
26	27	28	29	30	31	32	33	34	35		36	37	38	39			40	41	42	43	44	45	58	59	60	61	62	63
10	0000	1737	10886	0710	0					604	0.0	0.97	4.0														33	
	0003	1714	17547	1221	0					654	0.0	0.61																
	0005	1606	21031	1507	0.11					681	0.03																	
	0010	1451	24706	1820	0.79					707	0.0																	
	0015	1299	27195	2040	0.94					720	0.0																	
	0020	0940	28454	2198						694	0.29	1.26	44.75															
	0030	0831	28838	2243						695	0.29	1.53	53.5															
																BT Slide Th 255/358/68												
																Observer Engström												
																N 59° 05.9'												
																E 11° 17.1'												

13 "Thetis"  
77 Sweden

1968

Station  
Idefjorden 13

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb				
0250	59	07	011	19	0	968	08	20	12	0035	00	000	23	04	180			15	1	0
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$			Oxygen		pH	PO <sub>4</sub> -P μgat/l	Tot.P μgat/l	H <sub>2</sub> S μgat/l	method	Extra info.						
26 27	28 29 30 31	32 33   34 35	36 37   38 39 40	41 42   43 44 45	58   59 60	61 62 63   64	ml/l	%							77	78				
12	0000	1806	10780	0688			0.0		608	0.73	1.11			33						
	0002	1747	14826	1006			0.0		634	0.0	0.91									
	0005	1611	20706	1481			0.08		675	0.0										
	0008	1471	23319	1709			0.0		687	0.0										
	0010	1390	24849	1842			0.15		698	0.0	0.56									
	0015	1183	26981	2044			0.0		701	0.0	0.85	24.5								
	0020	0911	28447	2201					689	0.49		90.5								
	0030	0878	28918	2243					688	0.61	2.28	87.5								
	BT Slide Th 256/358/68																			
	Observer Engström																			
	N 59° 06.5'																			
	E 11° 18.8'																			

13 "Thetis"  
77 Sweden

1968

Station  
Idefjorden 11

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb				
0251	59	07	011	21	0	968	08	20	13	0018	00	001	23	04	180			1	5	10
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$			Oxygen		pH	PO <sub>4</sub> -P μgat/l	Tot.P μgat/l	H <sub>2</sub> S μgat/l	method	Extra info.						
26 27	28 29 30 31	32 33   34 35	36 37   38 39 40	41 42   43 44 45	58   59 60	61 62 63   64	ml/l	%							77	78				
13	0000	1791	10932	0702			004		616	0.0	1.28	1.5	3	3						
	0002	1771	13714	0917			0.0		635	0.0	0.98	17.0								
	0005	1664	20277	1437			0.0		673	0.0		32.0								
	0010	1289	24140	1807					678	0.0	0.66	68.0								
	0015	1069	27260	2085					681	0.19	1.16	82.5								
	BT Slide Th 257/358/68																			
	Observer Engström																			
	N 59° 06.6'																			
	E 11° 20.9'																			

13 "Thetis"

77 Sweden

1968

Station

Idefjorden 1

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb						
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64		
0252	59	01	011	27	0	968	08	21	08	0009	00	000	18	02	150			2	8	1	0	
Obs. time	Obs. depth		Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	H <sub>2</sub> S	Sal. method	Extra info.									
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45		58	59 60	61 62 63			64	77	78						
08	0000	1609	11037	0744	445			695	0.09	0.52												
	0001	1683	13690	0934	206			685	0.08													
	0002	1687	16665	1159	0.0			677	0.03													
	0003	1358	18116	1330	0.0			688	0.03		17.75											
	0005	0892	20182	1560	0.0			694	0.04		16.25											
	0007	0760	21862	1706	0.0			805	0.23		19.25											
													BT Slide Th 258/358/68									
													Observer Engström									

13 "Thetis"

77 Sweden

1968

Station

Idefjorden 2

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb						
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64		
0253	59	02	011	25	0	968	08	21	09	0024	00	001	18	04	150			2	8	1	0	
Obs. time	Obs. depth		Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	H <sub>2</sub> S	Sal. method	Extra info.										
26 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45		58	59 60			61 62 63	64	77	78						
09	0000	1633	11688	0789	373			681	0.01													
	0002	1754	15033	1021	092			679	0.04	15.0												
	0005	1193	19244	1445				690	0.08	17.0												
	0010	0752	23933	1869				701	0.36	23.75												
	0015	0815	26685	2078				707	0.69	62.0												
	0020	0768	29153	2276				717	2.33	77.5												
													BT Slide Th 259/358/68									
													Observer Engström									

13 "Thetis"

77 Sweden

1968

Station

Idefjorden 3

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0254	59	03	011	24	0	968	08	21	10	0033	00	000	18	04	150			1	51	0																									
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	H <sub>2</sub> S	Stat. method	Extra info.																																
26	27	28	29	30	31	32	33		34	35	36			37	38	39	40	41	42	43	44	45	50	59	60	61	62	63	64	77	78														
10	0000	16	53	12	49	08	22	298	691	0.09	0.56		33																																
	0002	17	05	14	87	10	20	110	687	0.11		12.3																																	
	0005	12	34	19	94	14	93		697	0.08	0.53	21.5																																	
	0010	08	39	23	86	18	56		702	0.37		23.0																																	
	0015	08	67	26	91	20	88		717	0.79	1.09	52.0																																	
	0020	07	97	28	62	22	34		723	1.48		56.5																																	
	0025	06	82	30	70	24	09		713	1.52		120.0																																	
	0030	06	77	30	75	24	16		723	1.65	7.57	119.0																																	
													BT Slide Th 260/358/68																																
													Observer Engström																																

13 "Thetis"

77 Sweden

1968

Station

Idefjorden 4

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0255	59	05	011	23	0	968	08	21	10	0035	00	000	18	04	150			28	1	0																									
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	H <sub>2</sub> S	Stat. method	Extra info.																																
26	27	28	29	30	31	32	33		34	35	36			37	38	39	40	41	42	43	44	45	50	59	60	61	62	63	64	77	78														
10	0000	17	03	12	47	08	36	122	666	0.03	0.77		33																																
	0002	17	96	14	78	09	92	054	673	0.0		17.0																																	
	0005	15	39	20	68	16	07		687	0.03		31.0																																	
	0010	10	91	23	85	18	18		698	0.04		55.0																																	
	0015	10	59	26	88	20	57		714	0.19		40.5																																	
	0020	07	72	29	13	22	75		722	0.93		75.5																																	
	0025	06	78	30	70	24	10		719	3.14		80.5																																	
	0030	06	75	30	70	24	14		726	3.00		85.8																																	
													BT Slide Th 261/358/68																																
													Observer Engström																																

13 "Thetis"

77 Sweden

1968

Station

Idefjorden 5

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	o	'	o	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0256	59	06	011	22	0	968	08	21	12	0029	00	001	18	04	150			2	8	1	0																								
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$		Oxygen		pH	PO <sub>4</sub> -P	Tot.P	H <sub>2</sub> S	method	Extra info.																																
26	27	28	29	30	31	32	33		34	35	36			37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78														
12	0000	1730	11888	0786				024	0.01	0.88	3.0	3	3																																
	0002	1747	13472	0903				009	0.11		11.0																																		
	0005	1621	20292	1447					0.03	0.64	38.25																																		
	0010	1233	23821	1791					0.09		60.0																																		
	0015	1110	26941	2053					0.07	0.88	77.5																																		
	0020	0774	29305	2287					1.17		83.75																																		
	0025	0675	30719	2411					2.65	7.46	120.5																																		
													BT Slide Th 262/358/68																																
													Observer Engström																																

13 "Thetis"

77 Sweden

1968

Station

Idefjorden 9a

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	o	'	o	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0257	59	07	011	22	0	968	08	21	13	0019	00	001	18	04	160			2	8	1	0																								
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$		Oxygen		pH	PO <sub>4</sub> -P	Tot.P	H <sub>2</sub> S	method	Extra info.																																
26	27	28	29	30	31	32	33		34	35	36			37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78														
13	0000	1755	07494	0446				00	0.07	2.53			33																																
	0002	1774	12483	0822				00	0.00	0.06	21.00																																		
	0005	1653	20065	1431							44.25																																		
	0007	1558	21754	1571					0.0	0.08	85.75																																		
	0010	1269	24118	1808					0.04		83.50																																		
	0015	1124	27148	2068					0.07		83.00																																		
													BT Slide Th 263/358/68																																
													Observer Engström																																
													N 59° 06.7'																																
													E 11° 22.3'																																



13 "Thetis"

77 Sweden

1968

Station

Idefjorden 12

Hydro Depth Observations (Code 03)

Station No.		Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																						
5	6	7	8	9	10		11	12	13					14	15	16	17	18	19					20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55
0258	59	07	011	21	0		968	08	21	14	020	00	001	18	04	160						2	81	0																					
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	H <sub>2</sub> S	Salt method	Extra info.																																
26	27	28	29	30	31	32	33		34	35	36			37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78														
14	0000	1773	04691	0229	049				583	0.14	0.42	10.0	33																																
	0002	1750	14402	0973	000				654	0.11		22.5																																	
	0005	1626	20839	1488					690	0.00		27.0																																	
	0007	1558	21831	1578					694	0.07		19.0																																	
	0009	1440	23830	1754					706	0.00		16.0																																	
	0015	1137	26756	2036					699	0.44		90.25																																	
	0018	0956	28051	2165					702	0.86		94.5																																	
													BT Slide Th 264/358/68																																
													Observer Engström																																

13 "Thetis"

77 Sweden

1968

Station

Säcken

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature		Weather	Cloud amount	State of sea	Ice																									
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
0259	59	00	011	07	0	968	08	22	06	0130	01	004	0904	150				0	01	0																									
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Sel. method	Extra info.																																			
26	27	28	29	30	31	32					33	34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78													
06	0000	1710	19845	1396	579		797	0.12		3	4																																		
	0005	1740	20980	1475	578		808	0.00																																					
	0010	1756	26067	1858	596		821	0.06																																					
	0015	1698	28824	2082	587		814	0.07																																					
	0020	1364	30879	2310	504		816	0.08																																					
	0030	0952	32521	2496	513		807	0.36																																					
	0040	0747	33993	2659	532		807	0.74																																					
	0050	0638	34547	2717	558		813	0.85																																					
	0075	0636	34831	2739	569		812	0.93																																					
	0100	0638	34913	2745	576		813	0.93																																					
	0120	0625	34815	2740	577		810	0.93																																					
											BT Slide Th 265/269/68																																		
											Observer Engström																																		
											N 59° 00.4'																																		
											E 11° 06.8'																																		

13 "Thetis"

77 Sweden

1968

Station

Idefjorden 17

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice							
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51	52					53	54	55	56	57	58	59
0260	59	05	011	10	0	968	08	22	09	0080	01	002	09	02	190								1	2	0	0			
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Sal. method	Extra info.																		
26	27	28	29	30	31	32	33					34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63
09	0000	1770	18693	1294	557			783	0.03																			3	4
	0003	1737	20262	1421	480			780	0.04																				
	0005	1751	21531	1514	575			803	0.03																				
	0010	1739	26086	1865	573			815	0.08																				
	0015	1504	29418	2169	520			807	0.03																				
	0020	1371	30825	2305	494			803	0.14																				
	0030	0886	32611	2530	501			804	0.46																				
	0043	0644	34052	2677	552			802	0.86																				
	0050	0605	34462	2714	547			801	0.87																				
	0075	0637	34836	2740	565			796	0.94																				
												BTSslide Th 266/269/68 Observer Engström N 59° 04.8' E 11° 09.7'																	

13 "Thetis"

77 Sweden

1968

Station

Idefjorden 17 0

Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.				N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice
	°	'	°	'	"	Year		Mo.	Day	Dir.					Sp. kn.	Dry bulb	Wet bulb							
5 6 7 8	9 10	11 12	13 14 15	16 17	18	19 20 21	22 23	24 25	26 27	28 29 30 31	46 47	48 49 50	51 52	53 54	55 56 57	58 59 60	61	62	63	64				
0261	59	04	011	10	0	968	08	22	09	0100	01	000	09	02	190		1			20	0			
Obs. time	Obs. depth	Temp.	Sal.	σ <sub>t</sub>	Oxygen		pH	Sal. method	Extra info.															
					ml/l	%																		
26 27	28 29 30 31	32 33 34 35	36 37 38 39 40	41 42 43 44 45	58 59 60	61 62 63 64		77	78															
09	0000	1814	19164	1321	393		743																	
	0003	1743	20230	1417	379		765																	
	0008	1769	22910	1616	566		814																	
	0010	1769	26047	1855	584		813																	
	0015	1586	29198	2136	634		807																	
	0020	1374	30878	2308	507		804																	
	0030	0881	32380	2512			801																	
	0040	0688	33956	2664	542		800																	
	0050	0625	34423	2708	512		800																	
	0075	0634	34778	2735	572		803																	
	0090	0640	34831	2739	582		799																	

BT Slide Th 267/269/68  
 Observer Engström  
 N 59° 03.9'  
 E 11° 10'

13 "Thetis"

77 Sweden

1968

Hydro Depth Observations (Code 03)

Station

Idefjorden 17 A

Station No.	Lat.		Long.				N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice					
	°	'	°	'	"	Year		Mo.	Day	Dir.					Sp. kn.	Dry bulb	Wet bulb	55	56	57					58	59	60	61	62
0262	59	06	011	08	0	968	08	22	10	0038	00	002	09	02	200						1	20	0						
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Sci. method	Extra info.																			
					ml/l	%																							
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78	
10	0000	1734	16799	1159	586			780	0.14																			3	3
	0003	1786	19838	1378	520			786	0.07																				
	0005	1767	21173	1484	471			803	0.07																				
	0010	1689	25589	1838	498			797	0.03																				
	0015	1538	29703	2183	529			804	0.07																				
	0020	1322	30840	2315	480			801	0.14																				
	0030	0893	32546	2524	496			796	0.56																				
										BT Slide Th 268/358/68																			
										Observer Engström																			
										N 59° 05.5'																			
										E 11° 08'																			

13 "Thetis"

77 Sweden

1968

Station

Idefjorden 17 B

Hydro Depth Observations (Code 03)

Station No.	Lat.			Long.			N S E W	Date			Station time	Depth to bottom	Max. obs. depth	Mixed layer depth	Wind		Temperature				Weather	Cloud amount	State of sea	Ice																							
	°	'	''	°	'	''		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb																													
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64		
0263	59	06	011	10	0			968	08	22	11	0086	01	004	09	02	200																														
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µg/l	Sol. method	Extra info.																																					
26	27	28	29	30	31	32					33	34	35	36	37	38	39	40	41	42	43	44	45	58	59	60	61	62	63	64	77	78															
11	0000	1818	16916	1150		582	781	0.12																																							
	0002	1817	19437	1342		547	793	0.06																																							
	0005	1773	21456	1503		549	803	0.06																																							
	0010	1679	25830	1859		499	803	0.07																																							
	0015	1524	29458	2168		509	804	0.07																																							
	0020	1289	30865	2324		476	804	0.16																																							
	0030	0807	32362	2522		519	801	0.45																																							
	0040	0626	34003	2675		520	801	0.79																																							
	0050	0597	34514	2719		542	802	0.93																																							
	0075	0615	34750	2735		496	802	0.93																																							
										BT Slide Th 269/269/68																																					
										Observer Engström																																					
										N 59° 06.4'																																					
										E 11° 09.5'																																					







