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Ödsmål. Kville sn, Bohuslän

Hällristning  
Fiskare från  
bronsåldern

Rock carving  
Bronze age  
fishermen



**MEDDELANDE från  
HAVSFISKELABORATORIET • LYSEKIL**

nr  
112

Hydrografiska avdelningen, Göteborg

Hydrographical Data

July - December 1970

R.V. Skagerak

R.V. Thetis

and

TV 252 1970

November 1971



## 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  
 58-60. Temperature. Wet bulb ) and wet bulb thermometer respectively. Negative temperatures will be  
 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 *)	
		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.		

\*) 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 code:

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

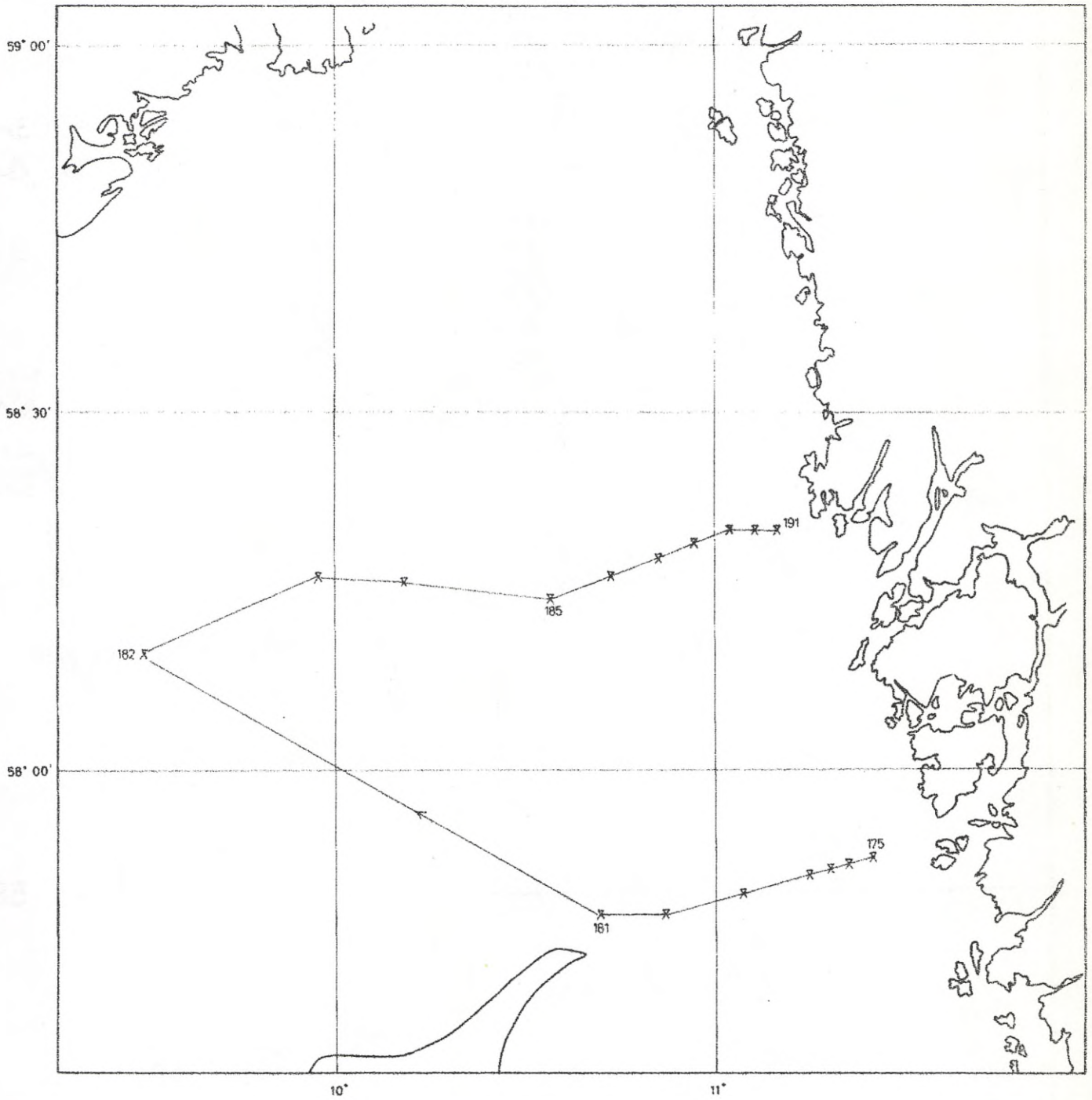
- 1 - Titration by routine Mohr-Knudsen method
- 2 - Titration by special precision method
- 3 - Conductivity measurement by instrument designed to give the salinity permille with a standard deviation of 0.01 or less
- 4 - Conductivity measurement by instrument designed to give the salinity permille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

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:

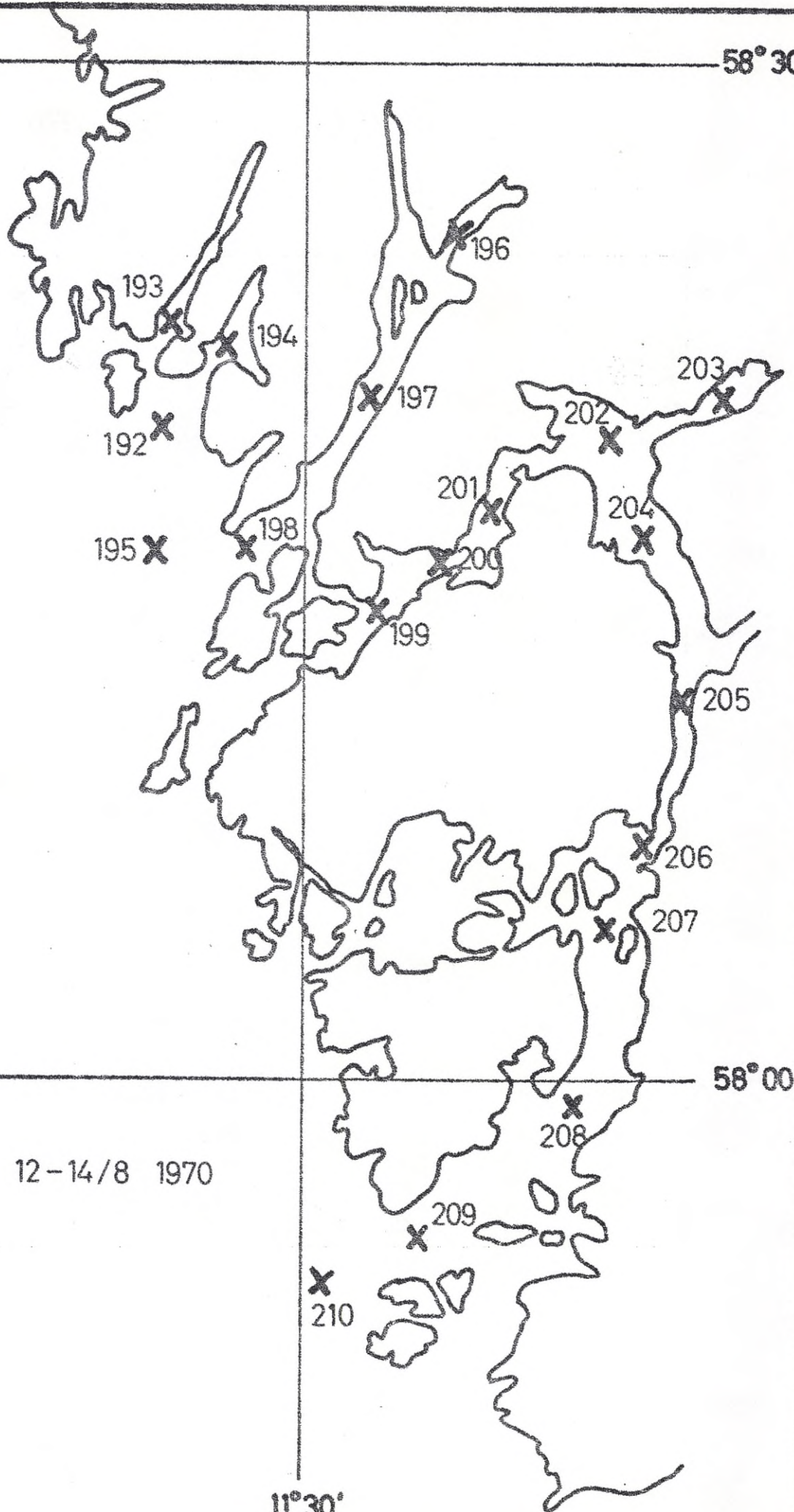
- 0 - No further information
- 1 - Further information other than chemical
- 2 - Further information plus chemical results
- 3 - Chemical results only, not covered by 4-9
- 4 - Phosphate only
- 5 - Phosphate and silicate only
- 6 - Phosphate and nitrate and/or nitrite only
- 7 - Phosphate, silicate and nitrate and/or nitrite only
- 8 - Total phosphorus only
- 9 - Total phosphorus and silicate only.



"SKAGERAK" 10-11/8 1970



58° 30'



"SKAGERAK" 12-14/8 1970

58° 00'

11° 30'



"SKAGERAK" 17/8 - 10/9 1970

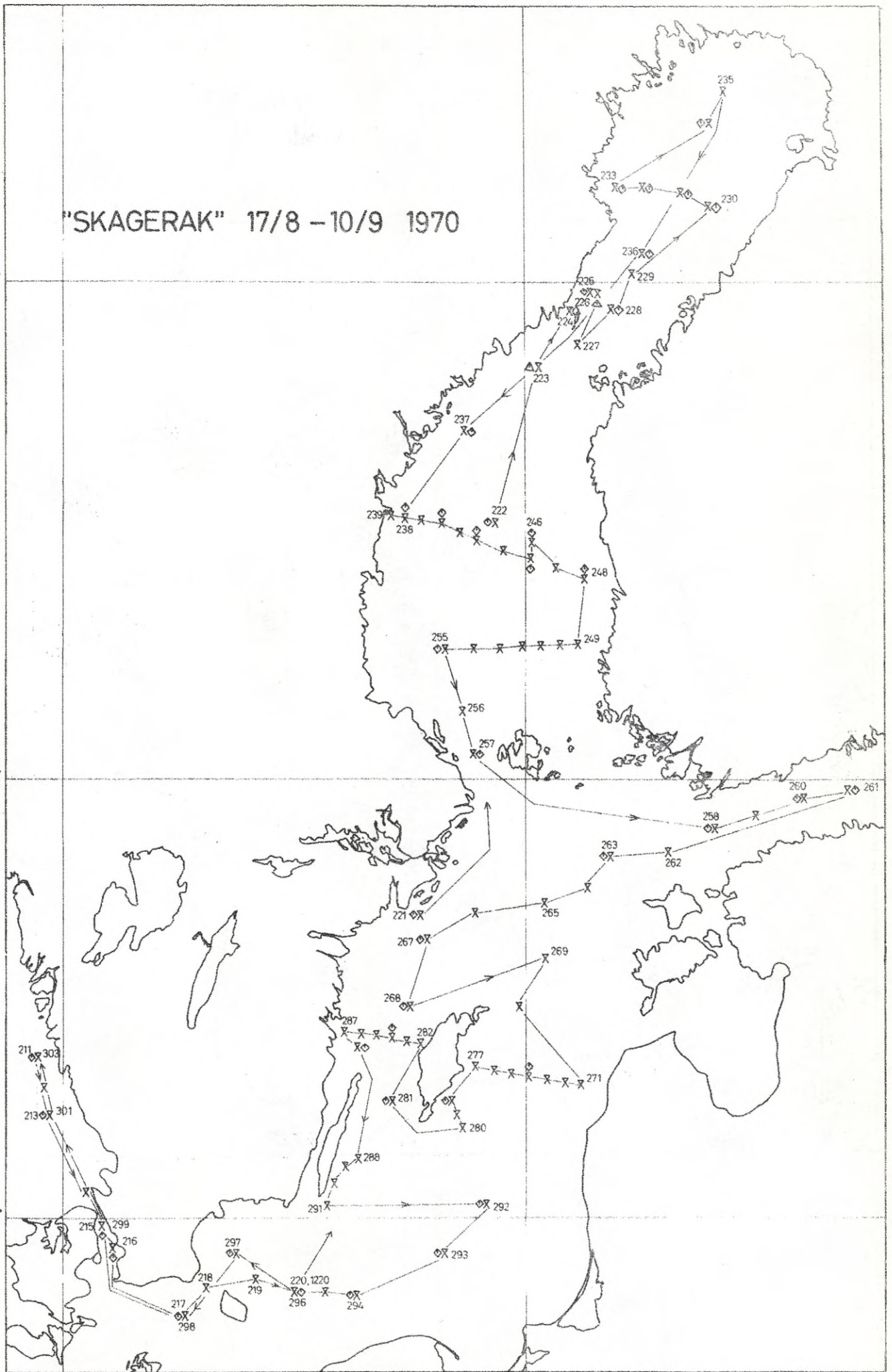
64°

60°

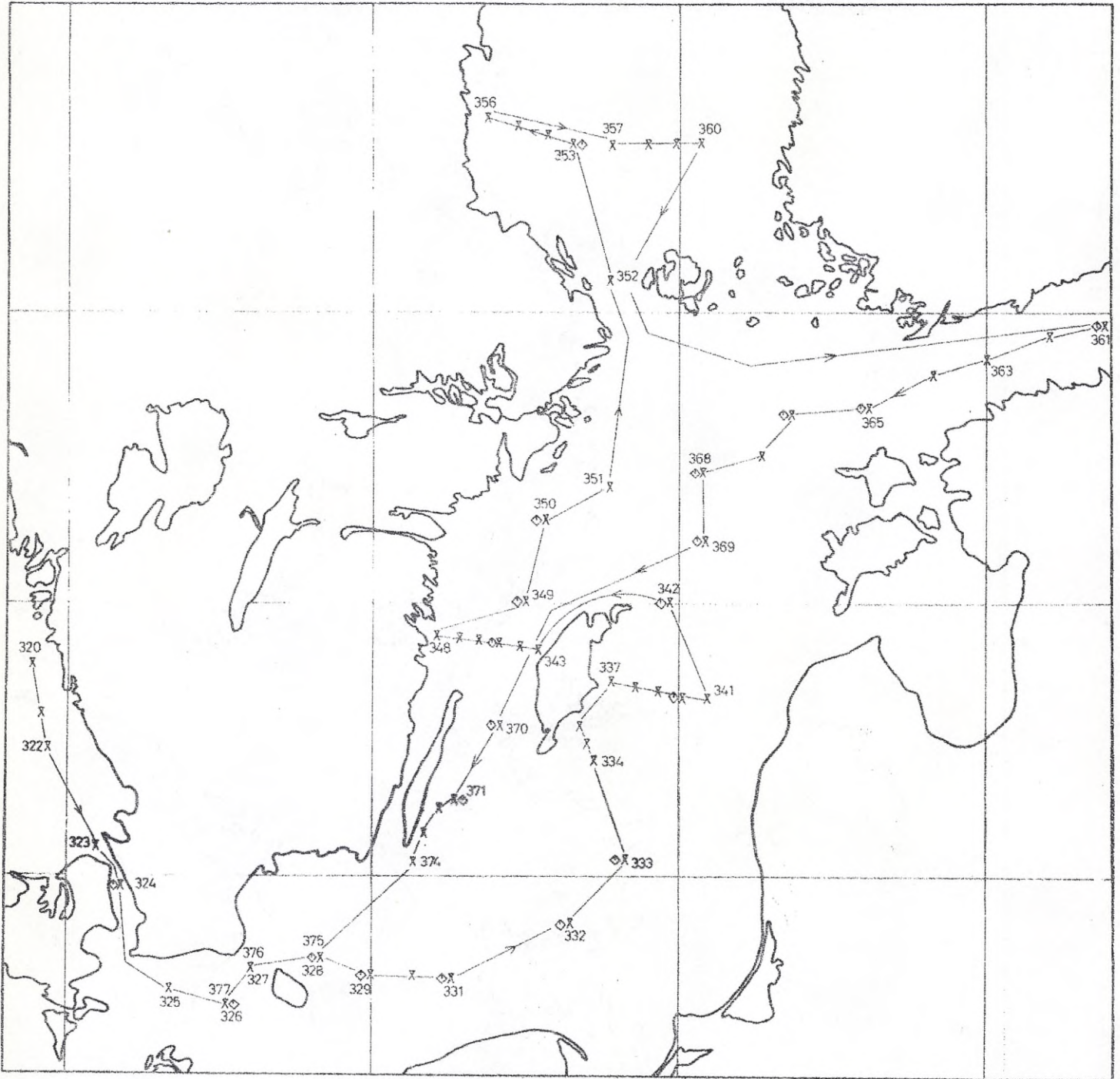
56°

12°

20°

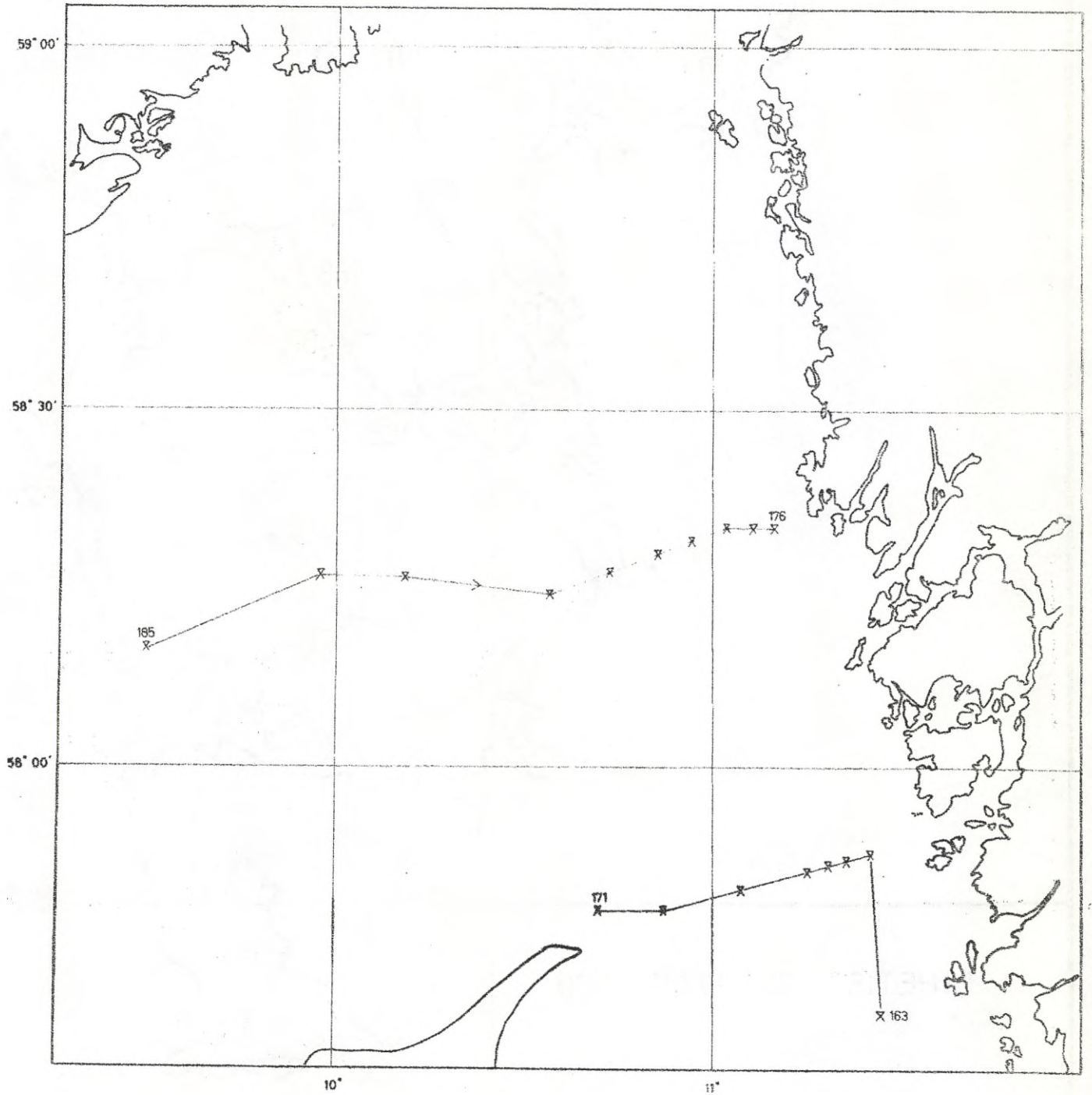


"SKAGERAK" 12-28/10 1970

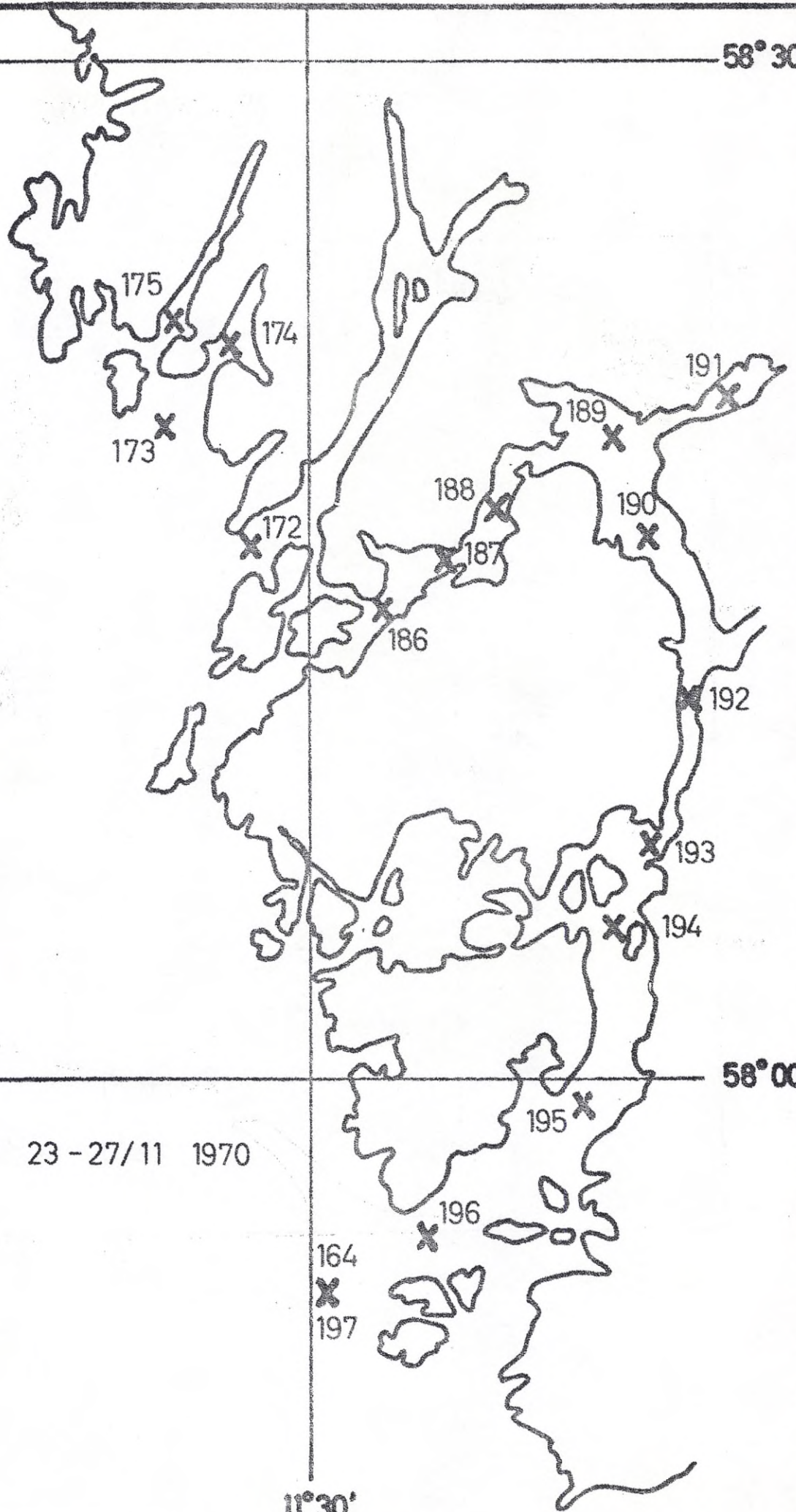




"THETIS" 23-26/11 1970



58° 30'



"THETIS" 23 - 27/11 1970

58° 00'

11° 30'



11 "Skagerak"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

P 1

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
0175	57	53	011	25	0	970	08	10	13	0055	00	022	23	12	195							27	3	0
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$		Oxygen		pH	Tot. P µgat/l	Sal. method	Extra info.													
25 27	28 29 30 31	32 33	34 35	36 37	38 39 40	41 42	43 44 45					ml/l	%	61 62 63	64									
13	0000	1608	29369	2144		585			0.30		3	8												
	0005	1598	29810	2179		577			0.35															
	0010	1598	29966	2191		578			0.31															
	0015	1602	30092	2200		581			0.35															
	0020	1618	30663	2240		588			0.36															
	0030	1517	31860	2354		531			0.27															
	0040	0901	33094	2566		473			0.76															
	0050	0761	34070	2663		489			2.41															
BT Slide Sk 246/399/70												Observer: Lagergren												

11 "Skagerak"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

P 1 B

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
0176	57	52	011	21	0	970	08	10	14	0066	01	024	23	12	195							2	73	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				ml/l	%	61 62 63	64										
14	0000	1679	31094	2259		605					3	0												
	0005	1671	31067	2260		648																		
	0010	1667	31542	2297		613																		
	0015	1637	31742	2319		608																		
	0020	1626	31833	2328		599																		
	0030	1414	33088	2470		617																		
	0040	1339	33889	2547		592																		
	0050	0845	34576	2690		501																		
	0060	0749	34826	2724		569																		
BT Slide Sk 247/399/70												N 57°52.3' E 11°21' Observer: Bladh												



11 "Skagerak"

1970

Station

77 Sweden

P 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
0177	57	52	011	18	0	970	08	10	15	0098	01			25	08	190						14	3	0
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	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								
15	0000	1698	32096	2331	631				0.32			3	8											
	0005		32099		637				0.30															
	0010	1687	32098	2334	635				0.26															
	0015	1675	32098	2337	633				0.30															
	0020	1463	32722	2431	637				0.34															
	0030	1387	33611	2516	598				0.34															
	0040	1265	34148	2582	556				0.33															
	0050	1004	34408	2651	476				0.49															
	0075	0705	34953	2740	586				0.80															
	0090	0695	34982	2744	597				0.90															
Observer: Lagergren																								

11 "Skagerak"

1970

Station

77 Sweden

P 2 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	51 52	53 54					55 56	57 58 59	60
0178	57	51	011	15	0	970	08	10	16	0070	01	012	25	08	190							1	3	3	0
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	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									
16	0000		32120		628																		3	0	
	0005	1696	32131	2335	624																				
	0010	1683	32145	2339	628																				
	0015	1601	32433	2379	644																				
	0020	1434	33230	2476	646																				
	0030	1362	34150	2563	608																				
	0040	1272	34541	2610	603																				
	0050	1034	34433	2648	485																				
	0060	0949	34480	2665	459																				
BT Slide Sk 248/399/70 N 57°51.4' E 11°14.9'												Observer: Bladh													



11 "Skagerak"

1970

Station

77 Sweden

## Hydro Depth Observations (Code 03)

P 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
0179	57	50	011	04	0	970	08	10	17	0048	00	010	25	08	185			14	3	0																									
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														
17	0000	1673	32259	2349	616				0.33			3	8																																
	0005	1674	32258	2349	633				0.35																																				
	0010	1675	32281	2350	637				0.31																																				
	0015	1617	32394	2373	638				0.25																																				
	0020	1586	32462	2386	638				0.18																																				
	0030	1535	32880	2429	640																																								
	0040	1140	34436	2630	531				0.33																																				
	0045	1123	34405	2630	514				0.54																																				
BT Slide Sk 249/399/70												Observer: Bladh																																	

11 "Skagerak"

1970

Station

77 Sweden

## Hydro Depth Observations (Code 03)

P 4

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
0180	57	48	010	52	0	970	08	10	18	0055	00	022	25	10	180			1	4	30																									
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														
18	0000	1721	31800	2304	639				0.42																																				
	0005	1720	31797	2304	633				0.31																																				
	0010	1722	31802	2303	633				0.32																																				
	0015	1713	31837	2309	620				0.45																																				
	0020	1710	31845	2310	620				0.32																																				
	0030	1677	32007	2330	616				0.28																																				
	0040	1532	32742	2418	642				0.25																																				
	0050	1480	32957	2446	625				0.28																																				
BT Slide Sk 250/399/70												Observer: Lagergren																																	

11 "Skagerak"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

R 53

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
0181	57	48	010	42	0	970	08	10	19	0084	01	011	25	16	170			13	3	0																									
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	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	77	78													
19	0000		31779			672		0.30		3	8																																		
	0005	1708	31786	2306	636			0.28																																					
	0010	1700	31842	2312	617			0.30																																					
	0015	1638	32350	2365	610			0.27																																					
	0020	1637	32340	2365	622			0.28																																					
	0030	1666	32558	2375	657			0.22																																					
	0040	1538	33064	2442	615			0.23																																					
	0050	1379	33777	2531	626			0.21																																					
	0075	0823	34658	2700	512			0.45																																					
BT Slide Sk 251/399/70											Observer: Bladh																																		



11 "Skagerak"

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Station

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M 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																									
	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
0182	58	10	009	30	0	970	08	11	01	0630	06	009	27	22	130			00	4	0																									
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														
02	0000	1711	27958	2015	607			830	0.23		3	3																																	
	0005	1714	27948	2014	599			830	0.20																																				
	0010	1270	32312	2449	673			830	0.16																																				
	0015	0690	34233	2685	699			826	0.23																																				
	0020	0509	34147	2702	679			822	0.40																																				
	0030	0491	34354	2719	664			820	0.70																																				
	0040	0477	34491	2732	659			818	0.70																																				
	0050	0490	34626	2742	656			819	0.70																																				
	0075	0513	34792	2751	648			819	0.70																																				
	0100	0506	34889	2760	643			818	0.74																																				
01	0125	0502	34909	2762	640			814	0.75																																				
	0150	0518	34971	2766	637			817	0.77																																				
	0200	0487	34959	2768	649			818	0.74																																				
	0300	0481	35021	2773	656			818	0.77																																				
	0400	0477	35023	2774	663			819	0.77																																				
	0500	0461	35005	2775	678			820	0.76																																				
	0600	0455	35010	2776	682			820	0.74																																				
BT Slide Sk 252/399/70												Observer: Bladh																																	



11 "Skagerak"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

R 45

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	58	16	009	58	0	970	08	11	05	0515	05	008	25	14	160					0	03	0	
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH		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													
06	0000	1668	29048	2106	605																	3	0
	0005	1667	29055	2107	611																		
	0010	1235	32916	2492	682																		
	0015	0939	34213	2647	705																		
	0020	0517	34213	2706	678																		
	0030	0519	34506	2729	659																		
	0040	0494	34614	2739	654																		
	0050	0512	34739	2747	646																		
	0075	0529	34874	2756	635																		
05	0100	0514	34939	2764	641																		
	0125	0512	34984	2767	642																		
	0150	0565	35079	2768	637																		
	0200	0509			651																		
	0300	0477	34995	2773	657																		
	0400	0471	35014	2774	663																		
	0500	0465	35014	2775	661																		
BT Slide Sk 253/399/70 N 58°16.4' E 09°57.5' Observer: Lagergren																							



11 "Skagerak"

1970

Station

77 Sweden

## Hydro Depth Observations (Code 03)

Å 18 B

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
0184	58	16	010	11	0	970	08	11	07	0450	04	009	25	14	165									14	3	0		
Obs. time	Obs. depth	Temp.		Sol.	$\sigma_t$	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
07	0000	1677	29651	2150	599					0.15		3	8															
	0005	1677	29663	2150	594					0.16																		
	0010	1421	32740	2442	661					0.17																		
	0015	1141	34170	2609	695					0.21																		
	0020	0793	34396	2684	709					0.27																		
	0030	0595	34556	2723	657					0.63																		
	0040	0556	34659	2736	649					0.70																		
	0050	0542	34730	2744	653					0.70																		
	0075	0580	34955	2757	650					0.76																		
	0100	0573	35020	2762	648					0.80																		
	0125	0584	35101	2767	642					0.76																		
	0150	0551	35120	2772	642					0.76																		
	0200	0501	35018	2771	647					0.77																		
	0300	0479	35006	2773	663					0.76																		
	0400	0475	35013	2773	660																							
BT Slide Sk 254/399/70													Observer: Bladh															





11 "Skagerak"

1970

Station

77 Sweden

A 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	
	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	58	16	010	44	0	970	08	11	10	0205	02	012	32	16	160			1	43	0	
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	Tot. P $\mu\text{g}/\text{l}$	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										
10	0000	1675	31635	2302	602					0.15										3	8
	0005	1679	31633	2301	609					0.15											
	0010	1677	31748	2310	601					0.22											
	0015	1408	34056	2546	666					0.41											
	0020	1284	34595	2613	679					0.16											
	0030	0903	34715	2691	641					0.25											
	0040	0732	34775	2723	591					0.42											
	0050	0710	34822	2729	604					0.42											
	0075	0686	34892	2738	620					0.47											
	0100	0679	35057	2752	624					0.60											
	0125	0667	35153	2761	622					0.91											
	0150	0647	35165	2765	621					0.71											
	0175	0634	35165	2766	614					0.77											
BT Slide Sk 256/11601/70											N 58°16'		E 10°43.5'		Observer: Lagergren						















































11 "Skagerak"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

Hakefjord

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	57	59	011	46	0	970	08	14	07	0028	00	005	00	00	160			0	01	0		
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		$\sigma_t$	pH	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	77	78					
07	0000	1832	23056	1612	637			845	0.31		3	3										
	0005	1853	23164	1615	631			848	0.43													
	0010	1540	28527	2094	395			824	0.45													
	0015	1492	30674	2268	426			827	0.49													
	0020	1409	31789	2372	424			827	0.63													
	0025	1296	32301	2433	398			824	2.17													
BT Slide Sk 278/399/70 N 57°59.38' E 11°45.7' Observer: Lagergren																						

11 "Skagerak"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

Åstol

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	57	55	011	36	0	970	08	14	08	0055	00	008	14	04	170			0	01	0		
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		$\sigma_t$	pH	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	77	78					
08	0000	1785	22374	1571	625			842	0.25		3	3										
	0005	1769	23171	1635	619			842	0.37													
	0010	1618	28684	2089	571			838	0.46													
	0015	1564	31736	2334	535			837	0.33													
	0020	1549	32230	2375	553			837	0.26													
	0030	1248	32676	2472	473			829	0.67													
	0040	1042	33047	2539	464			825	0.80													
	0050	0989	33139	2555	457			823	0.87													
BT Slide Sk 279/399/70 N 57°55.18' E 11°35.6' Observer: Bladh																						



11 "Skagerak"

1970

Station

77 Sweden

Marstrandfjord

## 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
0210	57	54	011	32	0	970	08	14	09	0030	00	004	14	06	170						0	01	0
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		ml/l	%			$\mu$ gat/l	77	78									
09	0000	1799	22309	1564	617			842	0.34		3	3											
	0005	1768	22890	1614	618			843	0.35														
	0010	1621	28079	2043	583			838	0.38														
	0015	1552	31562	2322	526			836	0.38														
	0020	1541	32166	2372	547			836	0.49														
	0025	1492	32476	2407	560			837	0.32														
BT Slide Sk		280/399/70		Observer: Lagergren																			

11 "Skagerak"

1970

Station

77 Sweden

SW Vinga

## 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
0211	57	33	011	32	0	970	08	17	14	0090	01	020	14	18	150							6	83	0
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		ml/l	%			$\mu$ gat/l	PO <sub>4</sub> -P	$\mu$ gat/l	77	78								
14	0000	1656	26631	1925	619	1064	830	0.30	0.13		3	3												
	0005	1656	26723	1931	629	1081	836	0.27	0.12															
	0010	1652	27318	1978	615	1060	837	0.20	0.14															
	0015	1662	29621	2151	619	1082	837	0.23	0.11															
	0020	1650	30932	2254	640	1125	837		0.13															
	0030	1597	32685	2401	646	1133	835		0.12															
	0040	1465	33262	2473	558	959	832		0.15															
	0050	1224	33887	2570	520	852	825	0.32	0.23															
	0060	0970	34103	2633	456	708	816	0.64																
	0070	0778	34123	2664	460	686	816	0.71	0.54															
	0080	0788	34581	2699	492	735	817	0.78	0.60															
BT Slide Sk		281/11601/70		N 57°33' E 11°31.5'		Observer: Engström																		







11 "Skagerak"

1970

Station

77 Sweden

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				
	o	'	o	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51	52					53	54	55	56
0213	56	58	011	46	0	970	08	17	21	0082	01	012	23	16	165								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
21	0000	1684	19341	1362	615			830	0.08															3	3	
	0005	1687	19343	1362	631			835	0.09																	
	0010	1685	19381	1365	625			835	0.06																	
	0015	1557	28891	2129	539			830	0.06																	
	0020	1500	31025	2294	498			828	0.10																	
	0030	1345	31986	2401	487			827	0.24																	
	0040	1016	32486	2499	459			822	0.50																	
	0050	0669	32985	2590	470			814	0.59																	
	0060	0594	33046	2604	454			808	0.70																	
	0070	0618	33552	2641	474			809	0.79																	
BT Slide Sk		283/875/70		N 56°57.5' E 11°45.5'		Observer: Engström																				

11 "Skagerak"

1970

Station

77 Sweden

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				
	o	'	o	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51	52					53	54	55	56
0214	56	14	012	22	0	970	08	18	03	0024	00	008	18	12	140									1	62	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
03	0000	1637	13156	0903	667			840	0.45																3	3
	0005	1650	13593	0933	671			842	0.40																	
	0010	1693	15292	1053	649			845	0.22																	
	0015	1164	30002	2280	467			822	0.27																	
	0020	0604	32928	2594	408			809	0.67																	
BT Slide Sk		284/875/70		N 56°14' E 12°22.2'		Observer: Bladh																				







11 "Skagerak"

1970

Station

77 Sweden

## Hydro Depth Observations (Code 03)

Arkona

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
0217	55	00	014	05	0	970	08	18	16	0048	00	015	14	06	160						0	02	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							
16	0000	1603	07879	0504	727				852	0.10	0.14	1.584	3	3									
	0005	1600	07884	0505	714				852	0.09	0.17	1.525											
	0010	1597	07899	0508	697				852	0.09	0.17	1.517											
	0015	1587	07900	0510	698				853	0.08	0.16	1.507											
	0020	0591	08101	0643	762				834	0.29		1.552											
	0030	1146	10314	0762	584				821	0.31		1.642											
	0040	1257	14026	1035	442				810	0.66		1.759											
	0045	1119	16182	1220	165				774	1.49		1.860											
BT Slide Sk 286/875/70										Observer: Bladh													
										NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N												
										µgat/l	µgat/l												
	0000									0.17	0.01												
	0005									0.36													
	0010									0	0												
	0015									0													
	0020									0	0.01												
	0030									0.07													
	0040									1.06													
	0045									1.68	0.23												









11 "Skagerak"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

Bornholm Deep

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
0220	55	15	015	59	0	970	08	19	02	0090	01	014	29	08	154								1	1	1	0		
Obs. time	Obs. depth		Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot. P	Alkal.	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
02	0000	1562	07467	0481	735			842	0.07	0.25	1.493	3	3															
	0005	1566	07467	0481	713			853	0.05	0.22	1.491																	
	0010	1556	07455	0481	711			854	0.11	0.26	1.488																	
	0015	1524	07424	0483	711			851	0.11	0.22	1.485																	
	0020	0973	07550	0569	731			832	0.17	0.21	1.504																	
	0030	0500	07742	0618	796			828	0.25		1.525																	
	0040	0292	07970	0642	774			810	0.32		1.552																	
	0050	0249	09802	0822	696			800	0.39	0.47	1.621																	
	0060	0472	12795	1019	488			787	0.56	0.65	1.733																	
	0070	0468	15006	1195	265			769	1.18	1.25	1.812																	
	0080	0590	16258	1284	075			756	1.71	1.78	1.860																	
	0087	0565	16560	1310	033			753	1.77	1.82	1.860																	
	BT Slide Sk 289/11601/70												Observer: Engström															
									NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N																	
									μgat/l	μgat/l	μgat/l																	
	0000								0.14	0.01	2.04																	
	0005								0.09		0.15																	
	0010								0		0.82																	
	0015								0.03	0.01	1.51																	
	0020								0		0.84																	
	0030								0.04	0.06	0.90																	
	0040								0.12		1.24																	
	0050								0.38	0.21	1.48																	
	0060								0.53		1.54																	
	0070								1.50	0.04	0.31																	
	0080								2.28		0.05																	
	0087								2.58	0.10	0.88																	











11 "Skagerak"

1970

Station

77 Sweden

S. Berguddens fyr  
(SMHI:s strömmätare)

## 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
0224	63	47	020	48	0	970	08	24	22	0024	00	010	25	10	170		1	1	20	
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH										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	
22	0000	1487	03481	0186															3	0
	0005	1493	03468	0184																
	0010	1470	03503	0198																
	0015	1192	03989	0267																
	0020	0726	05417	0422																
BT Slide Sk 291/875/70 N 63°46.6' E 20°47.7' Observer: Bladh																				

11 "Skagerak"

1970

Station

77 Sweden

Extra C<sub>14</sub> no 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				
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	63	55	021	09	0	970	08	25	07											
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH		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	
07	0000	1595	03262	0152						798	0.773								3	3
	0005	1497	03262	0168						819	0.773									
	0007	1492	03272	0169						820	0.781									
N 63°54.8' E 21°08.6' Observer: Sen Gupta																				



11 "Skagerak"

1970

Station

77 Sweden

N St. Fjäderägg  
(Strömmät. 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	57	58	59	60
0226	63	55	021	09	0	970	08	25	09	0050	00	016	34	16	150							16	2	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
09	0000	1495	03292	0170	728							817	0.13																3	3
	0005	1491	03289	0171	740							826	0.09																	
	0010	1488	03286	0172	730							828	0.08																	
	0015	1490	03287	0171	734							827	0.10																	
	0020	1409	03250	0180	727							818	0.10																	
	0030	0933	03735	0275	764							800	0.12																	
	0040	0962	04429	0326	721							791	0.13																	
BT Slide Sk 292/875/70												N 63°54.8' E 21°08.6'												Observer: Bladh						

11 "Skagerak"

1970

Station

77 Sweden

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	51	52					53	54	55	56	57	58	59	60	61
0227	63	33	020	53	0	970	08	25	19	0030	00	014	36	10	150																
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
19	0000	1511	03387	0176	727							807	0.10																		
	0005	1508	03386	0176	738							795	0.08																		
	0010	1505	03372	0175	733							799	0.12																		
	0015	1480	03374	0179	727							800	0.11																		
	0020	1006	04484	0326	714							784	0.11																		
	0025	0602	05481	0434	707							774	0.15																		
BT Slide Sk 293/875/70												Observer: Bladh																			











11 "Skagerak"

1970

Station

77 Sweden

F 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	Log						
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	55	56					57	58	59	60	61	62
0231	64	41	022	44	0	97	08	26	09	0095	01	019	36	18	110							15	3	0				
Obs. time	Obs. depth	Temp.	Sol.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P μgat/l	Tot.P μgat/l	Alkal. 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
09	0000	1449	03220	0172	729		807	0.05	0.25	0.773		3	3															
	0005	1451	03218	0172	721		800	0.05	0.10	0.773																		
	0010	1450	03218	0172	731		795	0.06	0.10	0.773																		
	0015	1452	03233	0172	739		811	0.09		0.773																		
	0020	1388	03232	0182	728		811	0.07		0.773																		
	0030	0320	03411	0277	976		795	0.09		0.805																		
	0040	0170	03595	0291	901		784	0.08	0.14	0.826																		
	0050	0093	03943	0315	889		783	0.10	0.16	0.898																		
	0060	0064	04076	0325	882		780	0.11	0.23																			
	0070	0052	04123	0327	883		779	0.13	0.22	0.941																		
	0080	0046	04145	0330	885		779	0.13	0.16	0.946																		
	0090	0046	04167	0331	874		779	0.17	0.23	0.946																		
				NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot.N	SiO <sub>2</sub>																				
				μgat/l	μgat/l	μgat/l	μgat/l	μgat/l																				
	0000			0.30	0.06	1.47	9.17	41.0																				
	0005			0.34		0		40.0																				
	0010			0.33		0.08		40.5																				
	0015			0.10		0		40.0																				
	0020			0.16	0.07	0	9.17	40.5																				
	0030			1.30	0.31	0	6.94	41.5																				
	0040			0.85		0		43.0																				
	0050			0.88		0		43.0																				
	0060			1.37	0.05	0	6.53	42.0																				
	0070			0.87		0		42.5																				
	0080			1.04		0		42.0																				
	0090			1.48	0.04	0	5.56	42.5																				
BT Slide Sk 297/11601/70 N 64°40.5' E 22°44' Observer: Bladh																												
Secchi disk: 7 m																												







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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
0233	64	44		021	35	0		970	08	26	14	0070	01	021	36	10	120					1	3	3	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	1458	03163	0166	732		822	0.04	0.27	0.792		3	3																																
	0005	1457	03159	0166	729		821	0.05	0.15	0.752																																			
	0010	1452	03161	0167	732		819	0.05	0.23	0.749																																			
	0015	1442	03157	0168	727		817	0.06	0.17	0.760																																			
	0020	1433	03150	0169	725		801	0.05	0.22	0.773																																			
	0030	0402	03390	0275	862		786	0.05	0.14	0.792																																			
	0040	0181	03577	0289	887		782	0.05	0.17	0.824																																			
	0050	0142	03798	0305	866		776	0.06	0.14	0.879																																			
	0060	0090	04093	0326	853		773	0.06	0.17	0.933																																			
				NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot.N	SiO <sub>2</sub>																																					
				µgat/l	µgat/l	µgat/l	µgat/l	µgat/l																																					
	0000			0.16	0.03	0	6.94	41.0																																					
	0005			0.13		0		41.0																																					
	0010			0.27		0		41.0																																					
	0015			0		0		41.0																																					
	0020			0.03	0.02	0	7.22	41.0																																					
	0030			1.03	0.23	0	16.39	42.0																																					
	0040			1.50		0		42.5																																					
	0050			1.71		0		43.0																																					
	0060			2.07	0.03	0		44.0																																					
BT Slide Sk 299/11601/70 N 64°43.5' E 21°35' Observer: Bladh																																													







11 "Skagerak"

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Station

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F 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
0235	65	24	023	30	0	970	08	26	21	0080	01	016	00	00	120			1	21	0																									
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	SiO <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	77	78														
21	0000	1481	02824	0136	711			795	0.10	45.5		33																																	
	0005	1471	02823	0138	698			795	0.08	45.5																																			
	0010	1469	02826	0139	709			796	0.08	45.0																																			
	0015	1465	02833	0139	703			795	0.11	45.0																																			
	0020	0530	03142	0250	814			773	0.09	45.0																																			
	0030	0331	03409	0277	840			772	0.11	45.5																																			
	0040	0189	03695	0299	824			768	0.10	45.5																																			
	0050	0180	03873	0312	805			766	0.11	45.0																																			
	0060	0155	03952	0317	806			766	0.11	45.0																																			
	BT Slide Sk 301/11601/70 N 65°23.5' E 23°30'											Observer: Carlberg																																	
								NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot.N																																		
								μgat/l	μgat/l	μgat/l	μgat/l																																		
	0000							0.45	0.10	0.04	10.00																																		
	0005							0.62		0.12																																			
	0010							0.71		0																																			
	0015							0.35	0.10	0.09	14.45																																		
	0020							1.64	0.34	0.27	9.86																																		
	0030							2.31		0																																			
	0040							0.85	0.01	0	12.50																																		
	0050							1.90		0																																			
	0060							1.87	0.03	0	9.58																																		











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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	51 52	53 54					55 56
0238	62	08	017	52	0	970	08	28	22	0069	01	014	29	10	140						27	2	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							
22	0000	1555	04580	0250	681			817	0.09	0.23	1.044	3	3										
	0005	1551	04580	0260	685			812	0.08	0.21	1.044												
	0010	1548	04590	0262	691			816	0.09	0.18	1.052												
	0015	1508	04725	0280	680			813	0.08	0.16	1.065												
	0020	0952	05132	0382	713			800	0.10	0.17	1.143												
	0030	0239	05617	0453	907			808	0.07	0.15	1.222												
	0040	0182	05762	0464	832			792	0.16	0.22	1.318												
	0050	0239	05986	0483	677			773	0.31	0.34	1.310												
	0060	0251	06071	0490	624			767	0.43	0.56	1.318												
	0000			NO <sub>3</sub> -N	NO <sub>2</sub> -N	NH <sub>4</sub> -N	Tot.N	SiO <sub>2</sub>															
				$\mu\text{gat/l}$	$\mu\text{gat/l}$	$\mu\text{gat/l}$	$\mu\text{gat/l}$	$\mu\text{gat/l}$															
	0000			0.05	0.02	0	13.06	23.5															
	0005			0.05		0.04		23.5															
	0010			0.08		0		23.5															
	0015			0.02	0.02	0	10.14	23.5															
	0020			0.72	0.42	0	14.86	24.0															
	0030			0.27		0		23.5															
	0040			0.37		0		29.0															
	0050			0.77		0		36.5															
	0060			1.33	0.02	0	15.83	39.0															
BT Slide Sk 304/11601/70 N 62°08' E 17°51.5' Observer: Bladh																							







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Hydro Depth Observations (Code 03)

MS 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
0240	62	08	018	10	0	970	08	29	02	0074	01	017	32	08	140			28	2	0
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		ml/l	%			μgat/l	77 78							
02	0000	1491	05046	0307	696		807	0.05			33									
	0005	1493	05051	0307	696		797	0.04												
	0010	1490	05062	0308	688		821													
	0015	1488	05106	0312	696		820	0.07												
	0020	0547	05562	0443	842		808	0.06												
	0030	0233	05646	0456	923		807	0.04												
	0040	0220	05700	0460	905		808	0.06												
	0050	0210	05770	0465	887		802	0.08												
	0060	0218	06001	0484	750		781	0.10												
BT Slide Sk 306/11601/70 Observer: Carlberg																				
							NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N											
							μgat/l	μgat/l	μgat/l											
	0000						0.14	0.02	0											
	0005						0.07	0.02	0											
	0010						0.06	0.01	0											
	0015						0.07	0.02	0											
	0020						0.08	0.07	0											
	0030						0.02	0.04	0											
	0040						0.08	0.04	0											
	0050						0.34	0.02	0											
	0060						1.25	0.02	0											



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Hydro Depth Observations (Code 03)

MS 4

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 4	50	51 52	53 54	55 56 57	58 59	60	61	62	63	64
0241	62	06	018	33	0	970	08	29	02	0082	01	016	29	10	140				2	82	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		56	59 60	61 62 63			64	77	78						
02	0000	1484	05231	0322	706			822	0.05	0.12	1.158		33									
	0005	1483	05230	0322	702			827	0.03	0.26	1.158											
	0010	1485	05231	0322	681			829	0.05	0.07	1.158											
	0015	1481	05236	0323	702			829	0.05	0.07	1.158											
	0020	0298	05550	0448	888			810	0.05		1.238											
	0030	0172	05649	0455	905			810	0.06		1.212											
	0040	0202	05748	0464	900			807	0.07		1.252											
	0050	0203	05910	0476	802			790	0.08		1.286											
	0060	0233	06137	0495	698			777	0.13		1.331											
	0070	0290	06384	0515	564			783	0.28		1.358											
	0080	0300	06453	0520	529			758	0.40		1.382											
BT Slide Sk 307/11601/70 N 62°06' E 18°32.5'										Observer: Engström												
	0000							SiO <sub>2</sub>														
	0005							µgat/l														
	0010							22.0														
	0015							22.0														
	0020							21.5														
	0030							22.0														
	0040							23.5														
	0050							24.5														
	0060							25.5														
	0070							28.5														
	0080							32.5														
								39.0														
								42.5														



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MS 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																													
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
0242	62	03	018	51	0	970	08	29	04	0058	00	018	27	12	140						1	62	0																						
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$		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														
04	0000	14	79	05	25	03	24	70	3	82	7	0.08		3	3																														
	0005	14	74	05	24	03	25	70	2	82	8	0.07																																	
	0010	14	72	05	24	03	25	70	2	82	9	0.06																																	
	0015	14	75	05	25	03	25	70	1	82	9	0.07																																	
	0020	10	14	05	34	03	93	7	37	82	0	0.07																																	
	0030	02	99	05	64	04	55	9	05	81	3	0.05																																	
	0040	03	02	05	68	04	60	8	75	80	7	0.08																																	
	0050	02	73	05	74	04	64	8	37	80	0	0.10																																	
	BT Slide Sk 308/875/70 N 62°02.5' E 18°51' Observer: Engström																																												
										NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot.N																																
										µgat/l	µgat/l	µgat/l	µgat/l																																
	0000									0	0.01		5.97																																
	0005									0.09																																			
	0010									0.02																																			
	0015									0																																			
	0020									0.03	0.02		4.17																																
	0030									0.03	0.05	0.36	19.86																																
	0040									0.15	0.10	3.18																																	
	0050									0.32	0.12	3.80																																	











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MS 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
0245	61	51	020	03	0	970	08	29	09	0120	01	020	27	12	150			1	6	30
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	65			66	67 78				
09	0000	15.43	05.678	0347	688			835	0.07	0.15	1.246	33								
	0005	15.39	05.683	0347	687			837	0.15	0.16	1.249									
	0010	15.41	05.678	0347	691			838	0.06	0.16	1.244									
	0015	15.36	05.681	0348	680			837	0.07	0.16	1.238									
	0020	07.82	05.656	0437	794			821	0.10	0.15	1.238									
	0030	04.03	05.740	0462	881			814	0.09	0.14	1.265									
	0040	03.21	05.905	0476	838			798	0.11		1.283									
	0050	02.36	06.064	0489	797			788			1.313									
	0060	02.09	06.285	0507	705			774	0.10		1.334									
	0070	02.13	06.472	0522	680			772	0.21		1.382									
	0080	02.09	06.612	0533	694			775	0.32		1.398									
	0090	02.60	06.716	0542	603			767	0.51		1.414									
	0100	02.19	06.822	0550	620			766	0.62		1.424									
	0110	02.01	06.894	0555	622			769	0.73		1.435									
				NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot.N	SiO <sub>2</sub>												
				μgat/l	μgat/l	μgat/l	μgat/l	μgat/l												
	0000			0	0.02	0	10.00	19.0												
	0005			0.03		0		19.0												
	0010			0.06		0		18.5												
	0015			0	0.01	0	11.19	18.5												
	0020			0	0.02	0		21.0												
	0030			0.33		0		22.5												
	0040			0.27		0		24.0												
	0050			0.12		0		26.0												
	0060			0.42		0		32.0												
	0070			0.90	0.02	0.48	5.07	33.5												
	0080			0.44		0.47		33.0												
	0090			1.43		0.71		38.0												
	0100			2.21		0.67		39.5												
	0110			0.79	0.01	0.90	19.17	39.0												
BT Slide Sk 311/11601/70 N 61°50.5' E 20°02.5' Observer: Carlberg																				



11 "Skagerak"  
77 Sweden

1970

Station  
F 26

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
0246	61	59	020	04	0	970	08	29	11	0140	01	020	27	12	150			16	3	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	Sed. 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	15	53	05	679	03	45	696		835	0.05	0.14	1.249	3	3																														
	0005	15	48	05	679	03	46	699		840	0.03	0.14	1.238																																
	0010	15	38	05	680	03	48	701		841	0.05	0.14	1.238																																
	0015	15	37	05	676	03	48	699		842	0.05	0.17	1.244																																
	0020	07	65	05	710	04	43	800		819	0.06	0.16	1.249																																
	0030	03	96	05	759	04	64	894		814	0.06	0.14	1.260																																
	0040	01	96	05	899	04	75	860		797	0.12	0.10	1.289																																
11	0050	02	36	06	046	04	88	809		794	0.10	0.15	1.313																																
	0060	01	97	06	254	05	04	710		777	0.12	0.12	1.345																																
	0070	02	13	06	419	05	18	673		773	0.14	0.22	1.376																																
	0080	02	06	06	564	05	29	673		773	0.27		1.390																																
	0090	01	99	06	710	05	41	696		777	0.38		1.414																																
	0100	01	96	06	808	05	49	682		776	0.51		1.451																																
	0125	01	98	06	870	05	54	657		773	0.62	0.89	1.451																																
BT Slide Sk 312/11601/70														Observer: Engström																															







11 "Skagerak"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

MS 10

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
0248	61	41	021	00	0	970	08	29	16	0052	00	015	23	12	180			11	3	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					
16	0000	1534	05644	0346	702				826	0.06	0.26	1.228	3	3							
	0005	1529	05643	0347	703				831	0.02	0.70	1.238									
	0010	1527	05643	0347	711				829	0.03	0.14	1.230									
	0015	1509	05630	0349	697				827	0.05	0.14	1.225									
	0020	0545	05717	0455	874				818	0.04	0.12	1.254									
	0030	0416	05828	0469	844				805	0.07		1.265									
	0040	0305	05987	0483	809				795	0.10	0.23	1.291									
	0047	0240	06140	0495	773				783	0.15	0.41	1.323									
				NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot.N	SiO <sub>2</sub>													
				μgat/l	μgat/l	μgat/l	μgat/l	μgat/l													
	0000			0	0	0.82	14.72	16.0													
	0005			0		0.08		16.0													
	0010			0		0		16.5													
	0015			0	0	0.04	17.08	16.5													
	0020			0	0	0	5.28	21.5													
	0030			0.45		0		22.5													
	0040			0.50		0		24.5													
	0047			0.54	0.07	0.26		28.0													
BT Slide Sk 314/875/70 Observer: Bladh																					











11"Skagerak"

1970

Station

77 Sweden

SS 29 a

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
0251	61	07	020	16	0	970	08	29	22	0115	01	018	20	08	160						12	2	0																						
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot. P	Alkal.	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														
22	0000	1606	05591	0329	706		840	0.10	0.31	1.228		33																																	
	0005	1596	05585	0331	700		841	0.06	0.31	1.228																																			
	0010	1568	05579	0335	697		841	0.06	0.25	1.228																																			
	0015	1562	05580	0336	694		840	0.07	0.21	1.238																																			
	0020	0742	05668	0441	820		823	0.04	0.23	1.265																																			
	0030	0446	05729	0460	909		824	0.06	0.17	1.265																																			
	0040	0293	05806	0468	868		821	0.07	0.17	1.265																																			
23	0050	0316	06083	0490	772		803	0.10	0.20	1.318																																			
	0060	0278	06448	0520	750		788	0.19	0.32	1.376																																			
	0070	0246	06644	0535	723		787	0.28	0.69	1.403																																			
	0080	0244	06822	0550	729		802	0.43	0.50	1.430																																			
	0090	0222	06910	0557	725		783	0.47	0.64	1.443																																			
	0100	0238	06993	0563	715		783	0.56	0.80	1.456																																			
	0110	0243	06993	0563	718		783	0.59	0.80	1.459																																			
				NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot. N	SiO <sub>2</sub>																																					
				μgat/l	μgat/l	μgat/l	μgat/l	μgat/l																																					
22	0000			0.06	0.02	0.48	16.39	20.0																																					
	0005			0.05				19.0																																					
	0010			0.03				18.5																																					
	0015			0.02	0.01		23.33	19.0																																					
	0020			0.07	0.05	0.34	17.78	21.5																																					
	0030			0.17				22.0																																					
	0040			0.15		1.09		25.0																																					
23	0050			0.20	0.05	0	24.31	27.0																																					
	0060			0.58				28.0																																					
	0070			0.41				29.5																																					
	0080			0.42				29.0																																					
	0090			1.49				30.0																																					
	0100			0.57				29.5																																					
	0110			0.74	0.04	0.71	27.78	30.5																																					

BT Slide Sk 317/11601/70 N 61°06.5' E 20°16' Observer: Carlberg



11 "Skagerak"

1970

Station

77 Sweden

SS 29 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	53	54					55	56
0252	61	06	019	57	0	970	08	30	00	0115	01	018	25	08	160						1	42	0	
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								
00	0000	1584	05618	0335	715					843	0.04													33
	0005	1582	05618	0335	701					843	0.03													
	0010	1563	05616	0339	705					842	0.04													
	0015	1558	05616	0340	690					842	0.04													
	0020	0586	05716	0454	873					819	0.08													
	0030	0308	05767	0465	898					807	0.05													
	0040	0244	05949	0480	839					795	0.06													
	0050	0198	06135	0494	762					784	0.07													
	0060	0219	06415	0517	673					773	0.08													
	0070	0264	06562	0529	642					767	0.16													
	0080	0241	06687	0539	665					772	0.31													
	0090	0235	06789	0548	709					778	0.42													
	0100	0214	06908	0557	685					775	0.50													
	0110	0221	07008	0565	661					773	0.75													

BT Slide Sk 318/11601/70 Observer: Carlberg



11 "Skagerak"

1970

Station

77 Sweden

SS 30 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	log
	°	'	''	°	'	''		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	61	05	019	35	0	970	08	30	02	0130	01	017	25	04	160				2	72	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	77	78							
03	0000	1578	05644	0338	704		837	0.04	0.26	1.238		33										
	0005	1573	05645	0339	702		843	0.03	0.24	1.238												
	0010	1574	05645	0339	703		845	0.04	0.26	1.238												
	0015	1564	05643	0340	705		843	0.05	0.31	1.230												
	0020	0888	05	0432	784		818	0.09	0.41	1.249												
	0030	0403	05737	0462	914		820	0.08	0.14	1.254												
	0040	0229	05838	0471	886		805	0.07	0.16	1.270												
	0050	0206	06058	0488	814		791	0.10	0.20	1.313												
02	0060	0205	06257	0505	714		787	0.07	0.16	1.353												
	0070	0230	06421	0518	676		774	0.12	0.17	1.382												
	0080	0245	06571	0530	627		769	0.25	0.34	1.398												
	0090	0244	06670	0538	611		768	0.38		1.406												
	0100	0238	06764	0545	699		777	0.41	0.49	1.430												
	0125	0232	07061	0569	704		780	1.98	3.63	1.544												
				NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot.N	SiO <sub>2</sub>														
				µgat/l	µgat/l	µgat/l	µgat/l	µgat/l														
03	0000			0.08	0.04	0	10.95	18.5														
	0005			0.11				18.5														
	0010			0.09				18.5														
	0015			0.03	0.02	0	15.59	18.5														
	0020			0.11	0.03	0.21	11.55	20.5														
	0030			0.16				22.5														
	0040			0.16	0.13	0	18.93	25.0														
	0050			0.17				26.5														
02	0060			0.62				31.5														
	0070			0.85				34.0														
	0080			1.07	0.03	0.21		36.5														
	0090			2.52				38.0														
	0100			0.79				33.0														
	0125			1.41	0	1.46	10.83	33.0														

BT Slide Sk 319 /11501/70 Observer: Bladh







11 "Skagerak"

1970

Station

77 Sweden

SS 31 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
0255	61	05	018	37	0	970	08	30	07	0040	00	012	27	08	170			13	3	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	77	78														
07	0000	1497	05321	0327	723		830	0.06	0.26	1.185		33																																	
	0005	1497	05326	0327	730		831	0.04	0.23	1.185																																			
	0010	1489	05330	0329	716		832	0.03	0.33	1.185																																			
	0015	0988	05433	0402	765		817	0.06	0.30	1.212																																			
	0020	0423	05519	0444	855		821	0.06	0.25	1.217																																			
	0030	0264	05645	0456	834		818	0.09	0.32	1.265																																			
	0037	0255	05717	0461	834		801	0.10	0.26	1.265																																			
				NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot.N	SiO <sub>2</sub>																																					
	0000			0	0	0.08		22.0																																					
	0005			0.04				--																																					
	0010			0.03	0.02		11.81	21.5																																					
	0015			0	0.06	0	14.44	--																																					
	0020			0.06		0.15		25.5																																					
	0030			0.40				27.5																																					
	0037			0.44	0.21	0		27.5																																					
BT Slide Sk 321/875/70 N 61°04.5' E 18°37' Observer: Bladh																																													
Secchi disc: 6.5 m																																													



11 "Skagerak"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

F 33

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		
0256	60	33	018	55	0	970	08	30	10	0140	01	015	32	10	150					1	4	20		
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										
10	0000	1585	05380	0317		707			829	0.03												33		
	0005	1582	05380	0317		705			831	0.05														
	0010	1569	05395	0320		705			833	0.02														
	0015	1539	05581	0340		698			831	0.05														
	0020	0769	05432	0420		780			807	0.05														
	0030	0320	05585	0451		837			797	0.08														
	0040	0397	05706	0460		917				0.06													4	
	0050	0330	06709	0540		798			788	0.35													3	
	0060	0284	07048	0568		785			795	0.46														
	0070	0263	07206	0581		770			794	0.49														
	0080	0256	07232	0583		773			794	0.51														
	0090	0250	07240	0584		779			793	0.53														
	0100	0246	07256	0585		769			791	0.52														
	0125	0240	07322	0590		769			789	0.50														
BT Slide Sk 322/11601/70												Observer: Engström												











11 "Skagerak"

1970

Station

77 Sweden

L 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	
0259	59	41	024	00	0	970	08	31	08	0070	01	022	29	06	16	0			1	62	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			65 66 67 68	77	78						
08	0000	16	30	05664	0330	707			829	0.08		3	3								
	0005	16	30	05675	0332	673			828	0.06											
	0010	16	10	05704	0337	670			829	0.04											
	0015	16	10	05730	0340	678			830	0.04											
	0020	15	09	05804	0361	633			816	0.11											
	0030	13	32	06596	0450	631			810	0.15											
	0040	05	59	06921	0549	744			805	0.35											
	0050	02	30	07794	0628	657			793	0.96											
	0060	04	47	10410	0833				745	3.80	0.70										
	0068	04	63	10696	0855				739	3.62	27.20										
BT Slide Sk 325/11601/70										Observer: Bladh		Secchi disc: 5 m									
									NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot.N									
									µgat/l	µgat/l	µgat/l	µgat/l									
	0000								0	0.03	2.00	6.90									
	0005								0.05		1.54										
	0010								0.02		0.44										
	0015								0		0.44										
	0020								0.16	0.06	0.45	12.74									
	0030								0.35	0.20	0.44	15.59									
	0040								0.54		0.12										
	0050								1.11		0.92										
	0060								0.02	0.02	3.44										
	0068								0	0.02	6.27										



11 "Skagerak"

1970

Station

77 Sweden

L 7

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
0260	59	51	024	50	0	970	08	31	12	0077	01	014	00	00	160							1	2	1	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	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
12	0000	1550	04931	0288		721			815	0.07		33																
	0005	1530	04931	0291		702			829	0.04																		
	0010	1530	04934	0291		689			829	0.05																		
	0015	1233	05408	0372		585			794	0.08																		
	0020	0955	06056	0454		633			796																			
	0030	0586	06286	0499		647			786	0.20																		
	0040	0319	07062	0569		715			788	0.43																		
	0050	0216	07563	0609		710			785	0.57																		
	0060	0370	09474	0760		891			740	0.84																		
	0070	0421	10123	0810		015			736	3.79	0.00																	
	0075	0439	10431	0835					737	3.98	8.90																	
										Alkal.																		
										Mval/l																		
	0000									1.260																		
	0004									1.286																		
	0006									1.262																		
	BT Slide Sk 326/11601/70										Observer: Engström		Secchi disc: 6 m															
									NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot.N																
									µgat/l	µgat/l	µgat/l	µgat/l																
	0000								0.03	0.02	0.11	8.21																
	0005								0.02		0																	
	0010								0.02		0																	
	0015								0.04	0.04	0	4.05																
	0020								0.32	0.06	0.05	4.76																
	0030								0.43		0																	
	0040								1.13		0																	
	0050								0.84	0.17	0	5.48																
	0060								0.69		3.09																	
	0070								0.18		4.63																	
	0075								0	0	6.07	5.00																



11 "Skagerak"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

L 5

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
0261	59	55	025	36	0	970	08	31	14	0068	01	006	23	08	178					1	1	10	
Obs. time	Obs. depth	Temp.		Sel.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	Alkal.	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	1656	05080	0281	739			835	0.06	0.53	1.260		33										
	0005	1664	05080	0279	737			840	0.05	0.58	1.260												
	0010	1586	05094	0294	676			828	0.07	0.45	1.260												
	0015	1580	05089	0295	671			834	0.07	0.38	1.260												
	0020	1349	05468	0360	600			803	0.07	0.30	1.313												
	0030	0822	06225	0479	642			792	0.38	0.56	1.398												
	0040	0281	07057	0569	638			777	0.94	1.17	1.485												
	0050	0230	07911	0637	550			769	1.48	1.61	1.576												
	0060	0309	08752	0704	277			750	2.73	2.97	1.626												
	0065	0328	08999	0723	174			744	3.49	3.79	1.642												
				NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot.N	SiO <sub>2</sub>															
				μgat/l	μgat/l	μgat/l	μgat/l	μgat/l															
	0000			0	0	0	7.14	11.5															
	0005			0.11		0		9.0															
	0010			0.14		0		9.0															
	0015			0	0	0.11		9.0															
	0020			0.13	0.09	0.44	9.17	12.0															
	0030			0.87		0.07		19.0															
	0040			1.44	0	0		30.5															
	0050			1.86	0.02	0		39.0															
	0060			1.91	0	0.26		59.5															
	0065			2.25		0.97	14.29	67.5															

BT Slide Sk 327/11601/70 Observer: Bladh



11 "Skagerak"

1970

Station

77 Sweden

L 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.	D y					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	59	22	022	28	0	970	09	01	01	0105	01	010	20	16	160			2	8	30																									
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														
01	0000	1654	06265	0373	715			848	0.04																																				
	0005	1648	06266	0374	705			842	0.04																																				
	0010	1647	06281	0375	701			841	0.04																																				
	0015	1445	06635	0436	644			821	0.05																																				
	0020	0685	06825	0537	713			804	0.30																																				
	0030	0420	07042	0566	765			798	0.35																																				
	0040	0262	07289	0588	886			813	0.21																																				
	0050	0198	07450	0601	884			811	0.27																																				
	0060	0357	09264	0743	221			744	2.08																																				
	0070	0411	10347	0830	017			734	2.83																																				
	0080	0479	10607	0847				732	2.94	5.60																																			
	0090	0492	10876	0862				733	2.78	8.40																																			
	0100	0496	11029	0879				734	2.68	10.50																																			
BT Slide Sk 328/11601/70 Observer: Engström																																													
								NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot.N																																		
								μgat/l	μgat/l	μgat/l	μgat/l																																		
	0000							0.13	0.02	0.07	10.71																																		
	0005							0.20		0.43																																			
	0010							0.20		2.12																																			
	0015							0.05	0.02	1.04	7.62																																		
	0020							0.53	0.07	0.43																																			
	0030							0.39		1.43																																			
	0040							0.07		0.31																																			
	0050							0.17	0.01	0.90	6.07																																		
	0060							1.26		0.27																																			
	0070							0		0.66																																			
	0080							0	0.01	1.50																																			
	0090							0		1.64																																			
	0100							0	0.01	2.43	17.50																																		











11 "Skagerak"

1970

Station

77 Sweden

L 19

## 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
0265	58	53	020	19	0	970	09	01	13	0170	02	017	20	24	170			4	83	0																									
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot. P	Alkal.	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														
13	0000	1665	06598	0396	689		837	0.05	0.38	1.435		33																																	
	0005	1667	06597	0396	781		842	0.02	0.38	1.435																																			
	0010	1666	06600	0396	700		845	0.05		1.435																																			
	0015	1666	07068	0432	697		845	0.04	0.37	1.430																																			
	0020	1136	07354	0535	688		821	0.03		1.504																																			
	0030	0488	07355	0589	640		818	0.16	0.32	1.536																																			
	0040	0258	07471	0602	847		815	0.20	0.42	1.589																																			
	0050	0280	07617	0614	862		809	0.23		1.571																																			
	0060	0218	07828	0631	829		798	0.35	0.36	1.571																																			
	0070	0227	08153	0656	675		780	0.54		1.571																																			
	0080	0389	09435	0757	196		743	1.84	2.00	1.629																																			
	0090	0461	10233	0817	016		735	2.68	2.83	1.653																																			
	0100	0481	10652	0851	012		734	2.30		1.677																																			
	0125	0528	11432	0908	031		736	2.37	2.61	1.695																																			
	0160	0540	11809	0937	019		735	2.76	2.95	1.703																																			
BT Slide Sk 331/11601/70 Observer: Bladh																																													
							SiO <sub>2</sub>	NO <sub>2</sub> <sup>-</sup> -N	NO <sub>3</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot. N																																		
							μgat/l	μgat/l	μgat/l	μgat/l	μgat/l																																		
	0000						14.5	0.18	0.02	0.86	12.50																																		
	0005							0.11		0.61																																			
	0010						14.5	0.14		1.11																																			
	0015							0.03	0.01	0.79	11.43																																		
	0020						13.0	0.04	0.02	0.89	8.69																																		
	0030						14.0	0.06	0.02	0.69	9.64																																		
	0040						15.0	0.05		0.58																																			
	0050						15.0	0.17		2.86																																			
	0060						19.5	0.40		1.21																																			
	0070						26.0	0.85	0.28	0.89	11.07																																		
	0080						57.5	1.03		0.48																																			
	0090						73.0	1.17		0																																			
	0100						75.0	1.30	0.10	0.46	20.00																																		
	0125						72.5	1.78		0.16																																			
	0160						77.0	2.68	0.07	0	23.21																																		











11 "Skagerak"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

F 90 Norrköping deep

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
0268	58	00	017	59	0	970	09	02	04	0208	02	017		25	16	155					2	83	0																						
Obs. time	Obs. depth	Temp.	Sal.	σ <sub>t</sub>	Oxygen		pH	PO <sub>4</sub> -P	Tot. P	Alkal.	S <sub>ed. method</sub>	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	1679	06520	0388	682			836	0.01	0.31	1.384	3	3																																
	0005	1678	06523	0388	677			838	0.00	0.28	1.384																																		
	0010	1677	06523	0388	683			840	0.07	0.34	1.384																																		
	0015	1682	06518	0387	681			840	0.00	0.32	1.395																																		
	0020	0842	06789	0522	727			812	0.05	0.31	1.427																																		
	0030	0290	07213	0581	857			809	0.21	0.37	1.483																																		
	0040	0220	07424	0598	839			801	0.39	0.52	1.536																																		
	0050	0262	08057	0649	600			771	0.96	1.19	1.584																																		
	0060	0397	09293	0744	158			740	2.12	2.33	1.626																																		
	0070	0447	09899	0791	022			729	2.81	3.16	1.648																																		
	0080	0453	10161	0812	0			731	3.09	3.41	1.714																																		
	0090	0460	10366	0829	0			732	3.23	3.70	1.677																																		
	0100	0480	10548	0843	0			732	2.80	3.43	1.690																																		
	0125	0483	10742	0857	0			731	2.89	3.43	1.690																																		
	0150	0483	10785	0861	0			731	2.84	3.53	1.701																																		
	0175	0483	10850	0866	0			735	2.88	3.52	1.701																																		
				NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot. N	SiO <sub>2</sub>	H <sub>2</sub> S																																				
				μgat/l	μgat/l	μgat/l	μgat/l	μgat/l	μgat/l																																				
	0000			0.15	0	1.04	9.29	17.5																																					
	0005			0.20		0.84		16.5																																					
	0010			0.24		1.05		16.5																																					
	0015			0	0	0.98		16.5																																					
	0020			0	0	0.67	13.98	17.5																																					
	0030			0	0	0.66		19.0																																					
	0040			0.11		0.19		21.5																																					
	0050			0.43		0		36.0																																					
	0060			1.10	0	0	18.29	63.5																																					
	0070			0.68		0.17		75.0	0.00																																				
	0080			0		0.93		79.0	3.60																																				
	0090			0		0.96		81.5	7.75																																				
	0100			0	0	1.05	15.86	81.0	7.20																																				
	0125			0		1.17		83.0	5.90																																				
	0150			0		1.60		83.0	8.05																																				
	0175			0	0	1.77	9.51	82.0	7.50																																				

BT Slide Sk 334/11601/70 N 57°59.7' E 17°58.5' Secchi disc : 7 m



11 "Skagerak"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

F 79

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	51	52					53	54	55	56	57	58
0269	58	27	020	20	0	970	09	02	13	0125	01	020	23	12	170								1	53	0			
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P μgat/l		Sail. 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	1676	06695	0402	689					842	0.04																	33
	0005	1672	06695	0402	691					845	0.03																	
	0010	1673	06696	0402	689					845	0.02																	
	0015	1670	06693	0402	684					844	0.03																	
	0020	1662	06698	0404	675					844	0.04																	
	0030	0346	07380	0594	870					821	0.12																	
	0040	0260	07668	0618	838					807	0.20																	
	0050	0233	07830	0631	789					795	0.30																	
	0060	0193	08124	0654	710					778	0.44																	
	0070	0350	09098	0731	312					751	1.46																	
	0080	0450	10043	0802	052					734	2.30																	
	0090	0486	10638	0850	031					734	2.41																	
	0100	0526	11268	0896	071					738	2.13																	
	0115	0538	11569	0919	021					734	2.75																	
BT Slide Sk 335/11601/70													N 58°26.5'		E 20°20'		Observer: Bladh											



11 "Skagerak"

1970

Station

77 Sweden

F 80 Fårö deep

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
0270	58	00	019	54	0	970	09	02	16	0203	02	017	27	12	165			12	3	0
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Tot.P µgat/l	SiO <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	ml/l							%	61 62 63 64	77	78				
16	0000	1705	06790	0403	700			855	0.05	0.38	12.5	3	3							
	0005	1705	06783	0402	701			856	0.03	0.36	12.5									
	0010	1700	06860	0409	701			856	0.06	0.37	11.0									
	0015	1669	06976	0424	673			852	0.07	0.34	10.0									
	0020	0970	07244	0545	656			829	0.08	0.30	12.5									
	0030	0317	07365	0594	880			825	0.20	0.33	13.5									
	0040	0268	07517	0606	848			817	0.24	0.36	15.0									
	0050	0266	07679	0621	827			809	0.38	0.49	16.0									
	0060	0219	08029	0647	697			791	0.78	0.84	25.0									
	0070	0339	09056	0727	334			752	1.38	1.44	46.0									
	0080	0444	10039	0802	068			737	2.39		66.0									
	0090	0500	10666	0851	068			738	2.20	2.39	64.5									
	0100	0524	11318	0900	112			742	1.87	2.11	60.5									
	0125	0557	12057	0956	097			742	2.26		68.0									
	0150	0555	12293	0974	054			739	2.87		77.5									
	0180	0550	12357	0980	047			739	3.24	3.33	79.5									
BT Slide Sk 336/11601/70 Observer: Engström																				
								NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot.N									
								µgat/l	µgat/l	µgat/l	µgat/l									
	0000							0	0.02	1.91	16.81									
	0005							0												
	0010							0		0.84										
	0015							0												
	0020							0	0.01		10.06									
	0030							0		1.46										
	0040							0		0.59										
	0050							0.13		0.77										
	0060							0.65		0.81										
	0070							1.22	0.01	1.12	12.83									
	0080							1.67		0.08										
	0090							2.29		0.28										
	0100							2.70		0.38										
	0125							3.90	0.01	0.65	13.27									
	0150							4.12		0.55										
	0180							4.68	0.06	0.58	19.58									



11 "Skagerak"

1970

Station

77 Sweden

## Hydro Depth Observations (Code 03)

1/9

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
0271	57	13	020	56	0	970	09	02	22	0034	00	016	23	12	155			0	03	0																									
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	$\text{NO}_3^- \text{-N}$ $\mu\text{gat}/1$	$\text{NO}_2^- \text{-N}$ $\mu\text{gat}/1$	$\text{NH}_4^+ \text{-N}$ $\mu\text{gat}/1$	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																	
22	0000	1677	07108	0433	695		848	0.21	0.01	0.05		33																																	
	0005	1680	07108	0433	695		850																																						
	0010	1683	07116	0433	693		850																																						
	0015	1680	07155	0436	782		850	0.11	0	0																																			
	0020	1129	07459	0544	610		819																																						
	0030	0749	07610	0594	646		806	0.65	0.20	0.42																																			
BT Slide Sk 337/875/70 N 57°13.2' E 20°56' Observer: Bladh																																													



11 "Skagerak"

1970

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
0272	57	16	020	39	0	970	09	02	23	0085	01	018	23	12	155			0	03	0	
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	SiO <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 60			61 62 63 64	77 78								
23	0000	1714	07226	0435	689			857	0.03	8.0	3	3									
	0005	1714	07226	0435	685			861	0.02	8.0											
	0010	1715	07225	0435	689			863	0.03	7.5											
	0015	1713	07224	0435	689			863	0.05	8.0											
	0020	1175	07426	0536	613			830	0.03	11.0											
	0030	0326	07545	0608	810			815	0.15	14.0											
	0040	0293	07749	0625	805			806	0.18	14.5											
	0050	0225	07909	0637	771			796	0.28	18.0											
	0060	0240	08398	0676	615			778	0.53	26.0											
	0070	0366	09591	0769	234			748	1.26	48.5											
	0080	0422	10245	0822	126			741	1.64	57.5											
BT Slide Sk		338/11601/70		N 57°15.5' E		20°38.5'		Observer: Bladh													
	0000							NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N											
	0015							µgat/l	µgat/l	µgat/l											
	0030							0.02	0.02	0											
	0050							0.02	0	0											
	0080							0.02	0.01	0.46											
								0.97	0.31	0.39											
								0.47	0.05	0.43											



11 "Skagerak"

1970

Station

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	57	58	59
0273	57	18	020	21	0	970	09	03	00	0175	02	018	27	10	160							00	3	0					
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH	$\text{NO}_3^- \text{-N}$	$\text{NO}_2^- \text{-N}$	$\text{NH}_4^+ \text{-N}$	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
01	0000	17	11	07	24	1	04	36	687			864	0.06	0.01	0													3	3
	0005	17	14	07	24	0	04	36	688			865																	
	0010	17	13	07	23	7	04	36	689			865																	
	0015	17	16	07	23	8	04	36	688			865	0.13	0.01	0														
	0020	11	76	07	43	0	05	37	610			826																	
	0030	03	82	07	58	5	06	11	787			814	0.13	0.01	0														
	0040	02	68	07	72	6	06	22	836			810																	
	0050	02	12	07	91	1	06	37	789			800	0.08	0.05	0														
	0060	01	85	08	29	9	06	68	680			783																	
	0070	03	74	09	62	0	07	71	221			746																	
00	0080	04	41	10	35	3	08	28	114			749	1.15	0.01	0														
	0090	04	55	11	06	8	08	84	172			746																	
	0100	04	53	11	31	2	09	03	183			745	2.88	0.06	0														
	0125	04	63	11	86	5	09	46	211			748																	
	0150	04	85	12	36	8	09	85	137			744																	
	0170	05	02	12	51	2	09	95	106			744	4.42	0.04	0														
BT Slide Sk		339/11601/70		N 57°17.5' E		20°21'		Observer: Engström																					



























11 "Skagerak"

1970

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
0281	57	07	017	40	0	970	09	03	20	0112	01	016	14	26	170			14	3	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															
21	0000	1669			693		839	0.11	0.17	1.419	3	3																																	
	0005	1665	06766	0409	687		841	0.11	0.21	1.416																																			
	0010	1670	06767	0409	691		842	0.16	0.21	1.416																																			
	0015	1638	06778	0414	688		844	0.17	0.21	1.424																																			
	0020	0693	07159	0562	765		815	0.16	0.21	1.488																																			
	0030	0343	07379	0594	845		809	0.32		1.504																																			
	0050	0312	08357	0672	456		761	1.37		1.634																																			
	0060	0360	08901	0714	229		743	2.06		1.605																																			
20	0070	0391	09159	0734	131		737	2.45		1.637																																			
	0080	0420	09519	0762	027		731	2.59		1.685																																			
	0090	0457	10148	0810	0		732	3.00																																					
	0100	0466	10371	0829	0		731	2.88		1.703																																			
	0105	0464	10402	0831	0		731	3.06		1.690																																			
BT Slide Sk 347/11601/70												Observer: Engström																																	
							NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot. N																																			
							µgat/l	µgat/l	µgat/l	µgat/l																																			
21	0000						0.10	0.01		21.34																																			
	0005						0.05																																						
	0010						0.05		0.77																																				
	0015						0.06	0.02	0.55																																				
	0020						0.05	0.02	0.26	12.83																																			
	0030						0.06																																						
	0050						1.21	0.03	0.43	16.70																																			
	0060						1.31		0.19																																				
20	0070						1.36		0																																				
	0080						1.67	0.06	0.08	16.70																																			
	0090						0		3.82																																				
	0100						0		4.52																																				
	0105						0	0.02	4.91	13.38																																			







11 "Skagerak"

1970

Station

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																													
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
0283	57	40	017	56	0	970	09	04	03	0105	01	014	27	24	160			1	43	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														
03	0000	1607	06438	0394	688	833	0.06	0.15	1.376	3	3																																		
	0005	1605	06437	0394	688	837	0.03	0.20	1.408																																				
	0010	1607	06441	0394	687	838	0.00	0.28	1.376																																				
	0015	1537	06462	0408	690	836	0.02	0.25	1.382																																				
	0020	0679	06731	0529	730	802	0.19	0.39	1.419																																				
	0030	0338	07157	0576	806	802	0.30	0.42	1.477																																				
	0040	0241	07359	0593	850	806	0.37	0.54	1.501																																				
	0050	0221	07555	0609	784	812	0.56	0.67	1.517																																				
	0060	0253	08023	0646	630	774	0.97	1.05	1.547																																				
	0070	0397	09300	0745	156	736	2.19	2.41	1.605																																				
	0080	0445	09904	0791	020	730	2.73	3.02	1.648																																				
	0090	0459	10528	0842	0	731	3.08	3.51	1.685																																				
	0100	0470	10555	0844		732	2.98	3.78	1.690																																				
			NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot.N	SiO <sub>2</sub>	H <sub>2</sub> S																																					
			μgat/l	μgat/l	μgat/l	μgat/l	μgat/l	μgat/l																																					
	0000		0.18	0.02	0.97	17.03	18.0																																						
	0005		0.18		0.70		17.0																																						
	0010		0.10		0.78		17.0																																						
	0015		0.12	0.04	0.40	13.71	17.0																																						
	0020		0.12	0.13	0.36		20.0																																						
	0030		0.15		0.40		21.0																																						
	0040		0.31	0.08	0.44	16.48	20.5																																						
	0050		0.36		0.71		23.5																																						
	0060		0.75		0.20		33.5																																						
	0070		1.73	0	0.17	12.61	61.5																																						
	0080		1.09		0.20		73.0																																						
	0090		0.08		1.67		79.0	7.20																																					
	0100		0.04	0	2.76	14.27	83.5	18.05																																					

BT Slide Sk 349/11601/70 Observer: Carlberg







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
0285	57	43	017	22	0	970	09	04	07	0140	01	012	25	24	120			1	1	4	0																								
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	SiO <sub>2</sub>	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														
07	0000	1610	06600	0405	686			832	0.01	16.5		33																																	
	0005	1611	06600	0405	677			839	0.02	16.5																																			
	0010	1607	06601	0406	679			840	0.02	16.5																																			
	0015	1521	06659	0426	679			838	0.06	16.0																																			
	0020	0575	07023	0558	804			812	0.08	19.0																																			
	0030	0265	07237	0583	835			805	0.28	20.5																																			
	0040	0236	07443	0600	824			803	0.42	22.0																																			
	0050	0241	07869	0634	660			780	0.74	31.5																																			
	0060	0310	08532	0685	406			756	1.47	47.0																																			
	0070	0420	09564	0764	019			734	2.77	75.0																																			
	0080	0452	10014	0800	014			732	2.94	78.5																																			
	0090	0473	10350	0827	0			732	3.09	84.5	17.70																																		
	0100	0470	10447	0835	0			730	3.00	83.0	13.15																																		
	0125	0483	10734	0856	0			731	2.97	82.0	8.05																																		
	0135	0480	10758	0859	0			733	2.86	82.5	10.30																																		
BT Slide Sk 351/11601/70													Observer: Engström																																



11 "Skagerak"

1970

Station

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																													
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
0286	57	44	017	06	0	970	09	04	09	0069	01	010	27	20	140			12	4	0																									
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	$H_2S$ $\mu\text{gat/l}$	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													
09	0000	1498	06706	0433	697		817		3	3																																			
	0005	1492	06702	0433	695		826																																						
	0010	1480	06702	0435	693		828																																						
	0015	1050	06698	0494	721		816																																						
	0020	0588	06873	0546	785		809																																						
	0030	0432	07182	0576	812		803																																						
	0040	0238	07383	0595	848		803																																						
	0050	0270	08083	0651	580		770																																						
	0060	0453	10236	0818	0		733	11.05																																					
BT Slide Sk 352/875/70 N 57°44' E 17°05.5' Observer: Bladh																																													

11 "Skagerak"

1970

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
0287	57	46	016	50	0	970	09	04	10	0029	00	013	27	24	150			15	3	0																									
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	$PO_4^{-P}$ $\mu\text{gat/l}$	Tot.P $\mu\text{gat/l}$	$SiO_2$ $\mu\text{gat/l}$	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	1362	06629	0449	691		816	0.17	0.32	18.0		3	3																																
	0005	1377	06633	0447	689		819	0.12	0.31	17.5																																			
	0010	1374	06631	0447	685		819	0.13	0.28	17.0																																			
	0015	1096	06727	0492	702		814	0.20	0.45	18.5																																			
	0020	0613	07047	0559	772		807	0.34	0.56	20.5																																			
	0025	0524	07109	0568	775		802	0.42	0.54	21.5																																			
BT Slide Sk 353/875/70 N 57°45.7' E 16°50' Observer: Engström																																													







11 "Skagerak"

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Station

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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		
	o	'	o	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	61	62					63	64
0289	56	30	016	52	0	970	09	07	17	0067	01	013	34	16	130				1	23	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																
17	0000	1442	07053	0469	701		843	0.06															3	3
	0005	1440	07052	0469	702		842	0.05																
	0010	1435	07053	0469	703		841	0.04																
	0015	1388	07110	0482	700		840	0.07																
	0020	0604	07166	0569	790		819	0.22																
	0030	0446	07362	0591	813		811	0.33																
	0040	0314	07537	0607	785		802	0.48																
	0050	0302	08011	0645	564		773	1.10																
	0060	0375	09081	0728	154		743	2.47																
BT Slide Sk		355/875/70		N 56°29.5' E 16°52'		Observer: Engström																		

11 "Skagerak"

1970

Station

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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		
	o	'	o	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	61	62					63	64
0290	56	19	016	41	0	970	09	07	19	0043	00	013	34	08	116				1	23	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	1437	07017	0468	695		835	0.04																33
	0005	1434	07013	0467	706		838	0.03																
	0010	1438	07009	0467	700		839	0.06																
	0015	1041	07254	0539	732		826	0.10																
	0020	0615	07359	0582	787		813	0.21																
	0030	0414	07495	0602	807		806	0.34																
	0040	0388	07765	0624	718		795	0.41																
BT Slide Sk		356/875/70		Observer: Bladh																				







11 "Skagerak"

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Station

77 Sweden

Klaipeda

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				
0292	56	08	019	17	0	970	09	08	06	0119	01	026	27	02	120			1	32	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	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

07	0000	1539	07333	0475	662		847	0.04	0.27	1.531	3	3
	0005	1534	07333	0475	670		848	0.02	0.28	1.509		
	0010	1537	07337	0475	663		849	0.03	0.32	1.509		
	0015	1533	07331	0475	665		849	0.02	0.34	1.512		
	0020	1531	07331	0476	665		848	0.03	0.34	1.512		
	0030	1003	07588	0569	615		818	0.10	0.33	1.549		
	0040	0321	07630	0615	821		813	0.21	0.38	1.555		
06	0050	0271	07737	0624	828		806	0.18	0.32	1.555		
	0060	0187	08076	0650	763		791	0.33	0.47	1.557		
	0070	0245	08635	0695	569		771	0.66	0.75	1.581		
	0080	0319	09896	0795	359		759	1.08	1.38	1.650		
	0090	0346	10687	0858	331		750	1.33	1.56	1.656		
	0100	0344	11086	0890	306		752	1.34	1.72	1.677		
	0115	0345	11232	0901	277		750	1.52	1.77	1.677		

BT Slide Sk 358/11601/70 N 56°07.5' E 19°17' Secchi disc: 6 m

Observer: Bladh

Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot.N	SiO <sub>2</sub>
					µgat/l	µgat/l	µgat/l	µgat/l	µgat/l
07	0000	1539	07333	0475	0.04	0.02	0.39	12.76	12.5
	0005	1534	07333	0475	0.02		0.23		11.5
	0010	1537	07337	0475	0.02		0.20		11.5
	0015	1533	07331	0475	0.02		0.08		11.5
	0020	1531	07331	0476	0.03	0.02	0.08	14.09	11.5
	0030	1003	07588	0569	0.06	0.04	0.69	17.08	12.0
	0040	0321	07630	0615	0.02		0.79		13.0
06	0050	0271	07737	0624	0.01		0.50		14.0
	0060	0187	08076	0650	0.16		1.05		19.0
	0070	0245	08635	0695	0.65	0.42	1.12	17.76	29.5
	0080	0319	09896	0795	1.51		0.12		41.5
	0090	0346	10687	0858	1.70		0.20		50.0
	0100	0344	11086	0890	1.90		0.36		50.5
	0115	0345	11232	0901	3.43	0.07	0.36	16.15	54.0



11 "Skagerak"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

Rysshålan

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
0293	55	38	018	36	0	970	09	08	11	0100	01	028	20	06	150			13	2	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														
11	0000	1570	07387	0473	683			847	0.05	0.39	1.520																																		
	0005	1570	07387	0473	681			850	0.05	0.41	1.523																																		
	0010	1552	07386	0476	672			849	0.05	0.39	1.523																																		
	0015	1553	07387	0476	670			849	0.05	0.35	1.515																																		
	0020	1551	07388	0477	659			846	0.04	0.36	1.520																																		
	0030	1220	07458	0535	640			830	0.09	0.35	1.525																																		
	0040	0323	07649	0616	820			812	0.19	0.36	1.557																																		
	0050	0345	07824	0629	798			809	0.21	0.34	1.563																																		
	0060	0211	08223	0662	741			793	0.36	0.64	1.568																																		
	0070	0370	09628	0772	211			746	1.38	1.42	1.642																																		
	0080	0456	11069	0884	134			741	1.74	1.87	1.690																																		
	0090	0355	11975	0959	350			757	1.17	1.32	1.695																																		
				NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot. N	SiO <sub>2</sub>																																					
				µgat/l	µgat/l	µgat/l	µgat/l	µgat/l																																					
	0000			0	0.02	1.04	15.31	11.0																																					
	0005			0.07		0.54		11.0																																					
	0010			0.04		0.63		11.0																																					
	0015			0		0.78		11.0																																					
	0020			0	0.02	0.86	12.76	11.5																																					
	0030			0.01	0.06	0.94	13.76	12.0																																					
	0040			0.06		0.55		13.0																																					
	0050			0.24		1.29		14.0																																					
	0060			0.60		1.32		19.5																																					
	0070			0.70		0.50		49.0																																					
	0080			2.75		0.17		58.5																																					
	0090			1.85	0.03	0	13.98	41.5																																					
BT Slide Sk 359/11601/70													Secchi disc: 8 m		Observer: Engström																														











11 "Skagerak"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

Bornholm Deep

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				
0296	55	15	015	59	0	970	09	08	24	0091	01	023	20	14	170					1	63	0

Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Tot.P µgat/l	SiO <sub>2</sub> µgat/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

24	0000	1549	07580	0491	676		836	0.04		13.0	3	3
	0005	1551	07579	0491	674		839	0.06	0.42	12.5		
	0010	1552	07579	0491	677		840	0.06	0.32	12.0		
	0015	1553	07580	0491	675		840	0.04	0.31	12.5		
	0020	1548	07585	0492	673		840	0.04	0.32	12.0		
	0030	0426	07737	0621	783		799	0.19	0.41	14.5		
	0040	0205	08087	0651	725		792	0.43	0.64	19.5		
	0050	0234	09472	0761	675		777	0.43	0.65	18.5		
	0060	0536	12406	0985	502		777	0.60	0.80	25.0		
	0070	0554	15120	1198	277		755	1.25	1.54	53.0		
	0080	0580	16247	1285	087		747	1.74	1.98	71.0		
	0087	0537	16737	1326	019		741	1.63	1.88	85.0		

BT Slide Sk 362/11601/70 Observer: Bladh

	NO <sub>3</sub> <sup>-</sup> -N µgat/l	NO <sub>2</sub> <sup>-</sup> -N µgat/l	NH <sub>4</sub> <sup>+</sup> -N µgat/l	Tot.N µgat/l
0000	0.05	0	0	15.97
0005	0.11		0.04	
0010	0.12		0.27	
0015	0		0.27	
0020	0	0.01	0.07	14.31
0030	0	0	0.46	13.65
0040	0.15		0.36	
0050	0.47		0.40	
0060	1.22		0.32	
0070	2.94		0.03	
0080	4.12		0	
0087	4.40	0.06	0	14.98







11 "Skagerak"

1970

Station

77 Sweden

S 12 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	55	56	57	58	59	60	61	62	63	64
0298	55	00	014	05	0	970	09	09	13	0048	00	014	23	10	160			28	3	0																									
Obs. time	Obs. depth		Temp.		Sal.	$\sigma_t$		Oxygen		pH	PO <sub>4</sub> -P	Tot. P	SiO <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	60	61	62	63	64	77	78														
13	0000	1539	08115	0534	697			828	0.03	0.49	13.5	3	3																																
	0005	1537	08109	0535	701			831	0.03	0.37	13.0																																		
	0010	1532	08124	0536	697			828	0.04	0.46	13.0																																		
	0015	1497	08137	0543	692			830	0.05	0.39	13.0																																		
	0020	1572	08855	0585	646			819	0.08	0.43	13.0																																		
	0030	1379	10819	0768	570			805	0.29	0.57	17.5																																		
	0040	1181	16098	1205	342			778	0.73	1.01	32.5																																		
	0045	1128	17848	1347	214			765	1.33	1.48	52.0																																		
BT Slide Sk 364/875/70 Observer: Bladh																																													
								NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot. N																																		
								μgat/l	μgat/l	μgat/l	μgat/l																																		
	0000							0.19	0	0	16.30																																		
	0005							0.10		0.37																																			
	0010							0.19	0	0.44																																			
	0015							0	0	0.16	12.21																																		
	0020							0		0.74																																			
	0030							0.40		1.63																																			
	0040							0.58		1.75																																			
	0045							1.44	0.25	1.16																																			



11 "Skagerak"

1970

Station

77 Sweden

W Landskrona

## 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
0299	55	52	012	45	0	970	09	09	23	0045	00	013	23	12	160			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.																																		
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	1474	10979	0763	674			817	0.17	0.48			3	3																															
	0005	1473	11030	0768	665			824	0.20	0.58																																			
	0010	1473	11308	0789	670			826	0.20	0.69																																			
	0015	1235	25187	1896	479			816	0.53	0.90																																			
	0020	0844	31183	2424	346			805	0.96	1.25																																			
	0030	0823	31811	2476	329			803	0.98	1.31																																			
	0040	0823	31958	2488	334			804	1.01	1.39																																			
BT Slide Sk 365/875/70												N 55°51.8'		E 12°45.2'		Observer: Bladh																													

11 "Skagerak"

1970

Station

77 Sweden

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
0300	56	14	012	22	0	970	09	10	02	0023	00	012	18	10	160			2	8	20																									
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	77	78												
02	0000	1557	19894	1430	623			834	0.14				3	3																															
	0005	1555	19895	1431	624			839	0.18																																				
	0010	1537	20011	1443	622			839	0.20																																				
	0015	1344	24438	1819	518			827	0.32																																				
	0020	0616	32947	2594	315			800	1.02																																				
BT Slide Sk 366/875/70												N 56°14'		E 12°22.2'		Observer: Engström																													



11 "Skagerak"

1970

Station

77 Sweden

L:a Middelgrund

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	'	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	
0301	56	58	011	46	0	970	09	10	08	0090	01	025	20	18	160			2	8	3	0

Obs. time	Obs. depth	Temp.	Sal.	σ <sub>t</sub>	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

08	0000	1585	19297	1379	625		833	0.07	0.42		3	3
	0005	1582	19297	1380	627		839	0.07	0.33			
	0010	1562	22267	1610	589		836	0.07	0.52			
	0015	1558	27837	2038	543		836	0.10	0.32			
	0020	1559	29039	2129	591		842	0.07	0.32			
	0030	1396	31623	2361	539		841	0.07	0.23			
	0040	1485	32577	2416	505		835	0.19	0.52			
	0050	1241	32844	2485	458		828	0.39	0.55			
	0060	0905	33047	2562	404		819	0.71	0.99			
	0070	0852	33170	2579	392		815	0.84	1.06			
	0080	0817	33201	2586	382		814	0.86	1.06			

BT Slide: Sk 367/11601/70 N 56°57.5' E 11°45.5' Observer: Bladh



11 "Skagerak"

1970

Station

77 Sweden

Fladen

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
0302	57	12	011	40	0	970	09	10	10	0075	01	025	20	18	160			1	63	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														
10	0000	1539	25949	1897	625	1042	838	0.08	0.47		3	3																																	
	0005	1541	26049	1904	619	1032	843	0.10	0.46																																				
	0010	1527	27170	2001	625	1049	843	0.06	0.39																																				
	0015	1516	27942	2055	615	1034	843	0.06	0.37																																				
	0020	1551	31974	2355	521	903	840	0.11	0.38																																				
	0030	1453	32531	2419	498	851	835	0.20	0.32																																				
	0040	1262	33076	2500	463	762	829	0.35	0.53																																				
	0050	1192	33277	2530	454	735	827	0.45	0.61																																				
	0060	1109	33483	2561	445	711	824	0.59	0.54																																				
	0070	0932	33629	2602	411	630	820	0.78	0.97																																				
BT Slide Sk 368/11601/70 N 57°11.5' E 11°40' Observer: Bladh																																													



11 "Skagerak"

1970

Station

77 Sweden

SW Vinga

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				
0303	57	33	011	32	0		970	09	10	13	0080	01	023	14	26	160					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							
13	0000	1549	28633	2099	626	1061	841	0.07	0.21			3	3										
	0005	1550	28650	2101	620	1053	843	0.05	0.21														
	0010	1546	28698	2105	616	1044	843	0.06	0.33														
	0015	1551	29261	2147	602	1029	844	0.08	0.23														
	0020	1551	29709	2181	594	1017	844	0.08	0.13														
	0030	1589	32422	2382	533	930	842	0.10	0.20														
	0040	1374	32508	2433	475	792	832	0.36	0.33														
	0050	1224	33105	2509	451	736	828	0.48	0.48														
	0060	1042	33296	2558	427	671	822	0.68	0.65														
	0070	0945	33629	2601	412	634	819	0.77	0.77														
BT Slide Sk 369/11601/70 N 57°33' E 11°31.5' Observer: Bladh																							















11 "Skagerak"

1970

Station

77 Sweden

Alsäck

## 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				
0307	58	19	011	33	0	970	09	21	17	0118	01	015	34	12	150					13	1	0
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P μgat/l	Tot.P μgat/l	SiO <sub>2</sub> μgat/l	Sol. method	Extra info.										
					ml/l	%																
17	0000	1458	2478	1824				0.08	0.79	6.38	1	3										
	0005	1491	2580	1895	674			0.04	0.75	4.43												
	0010	1509	2784	2048	559			0.06	0.55	3.13												
	0015	1516	2968	2188	503			0.14	0.40	5.16												
	0020	1486	3119	2310	528			0.21	0.58	5.36												
	0030	1437	3202	2384	481			0.52	0.58	6.82												
	0040	1251	3225	2438	390			0.54	0.77	9.51												
	0050	0982	3309	2552	406			0.63	0.90	10.55												
	0060	0436	3413	2709	414			1.30	1.63	17.80												
	0070	0436	3419	2714	411			1.23	1.52	18.32												
	0080	0429	3421	2715	416			1.32	--	19.47												
	0090	0408	3421	2717	424			1.35	1.72	17.59												
	0100	0409	3422	2718	390			1.49	--	20.09												
	0110	0410	3424	2720	295			2.00	2.46	27.00												
								NO <sub>3</sub> -N μgat/l	NO <sub>2</sub> -N μgat/l	Tot.N μgat/l												
	0000							0.87	0.13	10.35												
	0005							0.13	0.06	--												
	0010							0.36	0.09	15.05												
	0015							0.55	0.11	--												
	0020							1.18	0.17	--												
	0030							2.31	0.31	--												
	0040							5.70	0.60	3.95												
	0050							5.71	0.71	--												
	0060							7.97	0.21	9.90												
	0070							6.35	0.17	--												
	0080							7.12	0.20	27.70												
	0090							7.52	0.18	--												
	0100							8.30	0.30	--												
	0110							7.50	0.31	25.15												
BT Slide Sk 373/11601/70 N 58°19.17' E 11°32.6'												Observer: Rudels										



11 "Skagerak"

1970

Station

77 Sweden

Bornö

## 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
0308	58	23	011	35	0	970	09	21	18	0038	00	020		36	02	150			1	6	1	0																							
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	SiO <sub>2</sub>	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														
18	0000	1477	2472	1816	690			0.27	1.02	7.36	1	3																																	
	0005	1489	2542	1867	648			0.08	0.93	6.18																																			
	0010	1495	2685	1976	553			0.06	0.52	4.14																																			
	0015	1516	2954	2177	474			0.09	0.40	4.31																																			
	0020	1478	3116	2309	429			0.14	0.47	5.65																																			
	0025	1430	3165	2356	370			0.29	0.57	7.71																																			
	0030	1371	3183	2383	342			0.32	0.68	9.01																																			
	0035	1326	3190	2397	345			0.41	0.87	9.55																																			
								NO <sub>3</sub> -N	NO <sub>2</sub> -N	Tot.N																																			
								μgat/l	μgat/l	μgat/l																																			
	0000							0.35	0.02	30.30																																			
	0005							0.16	0.03	--																																			
	0010							0.27	0.17	17.55																																			
	0015							0.51	0.23	--																																			
	0020							2.23	0.47	17.30																																			
	0025							3.60	0.53	--																																			
	0030							4.88	0.35	--																																			
	0035							5.32	0.21	14.85																																			
BT Slide Sk 374/399/70 N 58°22.9' E 11°34.7' Observer: Rudels																																													



11 "Skagerak"

1970

Station

77 Sweden

Bredungen

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
0309	58	25	011	36	0	970	09	21	18	0035	00	015	36	02	150			1	3	1	0																								
Obs. time	Obs. depth	Temp.	Sol.	σ <sub>t</sub>	Oxygen		pH	PO <sub>4</sub> -P	Tot. P	SiO <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	60	61	62	63	64	77	78														
18	0000	1500	2555	1875	6.49			0.63	0.61	4.54		1																																	
	0005	1494			5.63			0.04	0.53	3.46																																			
	0010	1489			5.43			0.00	0.49	2.85																																			
	0015	1522	2970	2187	4.88			0.04	0.47	4.03																																			
	0020	1469	3113	2309	3.95			0.15	0.43	6.02																																			
	0025	1421	3167	2360	3.73			0.22	0.55	2.93																																			
	0030	1373	3178	2615	3.37			0.32	0.63	2.08																																			
	0000							NO <sub>3</sub> -N	NO <sub>2</sub> -N	Tot. N																																			
	0005							μgat/l	μgat/l	μgat/l																																			
	0010							0.01	0.00	25.20																																			
	0015							0.01	0.05	--																																			
	0020							--	0.04	14.45																																			
	0025							0.22	0.03	--																																			
	0030							2.14	0.17	18.00																																			
								3.13	0.43	--																																			
								4.05	0.18	--																																			
BT Slide Sk 375/875/79 N 58°24.6'E 11°36' Observer: Rudels																																													















11 "Skagerak"

1970

Station

77 Sweden

Alsbäck

## 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
0314	58	19	011	33	0	970	09	22	10	0119	01	025	02	08	110						0	01	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						
10	0000	1418	2433	1796	681										0.18							1	4
	0010	1509	2898	2134	519										0.16								
	0020	1457	3163	2346	485										0.29								
	0030	1433	3196	2380	447										0.31								
	0050	0859	3325	2584	383										0.77								
	0070	0417	3419	2714	429										1.25								
	0110	0405	3421	2717	333										1.77								
BT Slide Sk 380/11601/70 N 58°19.17' E 11°32.6' Observer: Rudels																							

11 "Skagerak"

1970

Station

77 Sweden

Alsbäck

## 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
0315	58	19	011	33	0	970	09	22	14	0118	01	015	32	06	160						0	01	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						
14	0000	1458	2483	1828	668										0.13							1	4
	0010	1508	2949	2173	489										0.18								
	0020	1464	3163	2347	484										0.28								
	0030	1438	3202	2383	464										0.34								
	0050	0796	3321	2590	390										0.81								
	0070	0412	3400	2700	431										1.28								
	0110	0399	3423	2719	364										1.67								
BT Slide Sk 381/11601/70 N 58°19.17' E 11°32.6' Observer: Almgren																							















11 "Skagerak"

1970

Station

77 Sweden

Fladen

## 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
0321	57	12	011	40	0	970	10	12	15	0070	01	006	00	00	110					1	3	1	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										
15	0000	1289	213	18	1589	691	1063	827	0.09	0.37		3	3										
	0005	1292	217	30	1620	666	1026	827	0.12	0.75													
	0010	1385	261	70	1944	543	876	824	0.21	0.50													
	0015	1390	300	71	2242	535	884	829	0.26	0.39													
	0020	1394	319	33	2385	548	916	832	0.21	0.43													
	0030	1385	327	34	2448			829	0.26	0.38													
	0040	1360	332	18	2491	506	850	825	0.31	0.48													
	0050	1348	334	41	2511	510	854	824	0.39	0.47													
	0060	1284	339	03	2559	473	784	818	0.52	0.60													
	0065	1236	340	76	2582	440	724	815	0.68	0.75													
	BT Slide Sk 387/11601/70 N 57°11.5' E 11°40' Observer: Carlberg																						
									NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot.N											
									µgat/l	µgat/l	µgat/l	µgat/l											
	0000								0.38	0.02	0.61	18.05											
	0005								0.11		0.18												
	0010								1.45	0.26	0.67	17.28											
	0015								1.43		1.29												
	0020								0.92		1.26												
	0030								1.45		1.44												
	0040								2.52	0.41	1.25	14.32											
	0050								1.94		1.87												
	0060								3.65	0.65	1.74	14.00											



11 "Skagerak"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

L:a Middelgrund

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
0322	56	58	011	46	0	970	10	12	18	0100	01	013	00	00	100			1	20	0																									
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Tot.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												
18	0000	1259	19504	1454	681			830	0.09	0.33		3	3																																
	0005	1291	20277	1509	670			829	0.14	0.39																																			
	0010	1270	20706	1545	692			827	0.11	0.37																																			
	0015	1414	29589	2201	431			818	0.48	0.68																																			
	0020	1398	32107	2398	442			820	0.39	0.47																																			
	0030	1359	32730	2453	436			819	0.45	0.42																																			
	0040	1340	32959	2475	434			818	0.47	0.57																																			
	0050	1285	33094	2496	391			813	0.60	0.61																																			
	0060	1262	33609	2540	408			813	0.65																																				
	0070	1260	33738	2551	416			813	0.66																																				
	0080	1257	33737	2552	412			813	0.67	0.72																																			
	0090	1250	33758	2555	406			812	0.69	0.85																																			
BT Slide Sk 388/11601/70												N	56°57.5'	E	11°45.5'	Observer: Bladh																													

11 "Skagerak"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

Kullen

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
0323	56	14	012	22	0	970	10	13	00	0025	00	000	16	06	090			28	2	0																									
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	Tot.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													
00	0000	1187	15253	1138	737			829	0.83			3	3																																
	0005	1219	16463	1226	701			832	1.33																																				
	0010	1240	18115	1350	296			830	0.44																																				
	0015	1271	31287	2360	296			804	0.76																																				
	0020	0974	32568	2512	190			785	0.95																																				
BT Slide Sk 389/13259/70												N	56°14'	E	12°22.2'	Observer: Carlberg																													



11 "Skagerak"

1970

Station

77 Sweden

## Hydro Depth Observations (Code 03)

W Landskrona

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
0324	55	52	012	45	0	970	10	13	04	0050	00	010	14	06	100						28	1	0					
Obs. time	Obs. depth	Temp.		Sol.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Tot.P µgat/l	Alkal. 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
04	0000	1189	10057	0738	725			824	0.30	0.55	1.649	3	3															
	0005	1204	10767	0790	691			819	0.30	0.49	1.664																	
	0010	1235	13433	0991	634			814	0.43	0.73	1.748																	
	0015	1240	27543	2077	313			799	1.24	1.47	2.184																	
	0020	1202	30263	2292	236			793	1.11	1.47	2.296																	
	0030	1221	31717	2403	249			796	1.22	1.36																		
	0040	1179	32052	2439	234			795	1.17	1.23																		
	0045	1156	32207	2452	239			794	1.09	1.34																		
BT Slide Sk 390/13259/70 N 55°51.8' E 12°45.2' Observer: Engström																												

11 "Skagerak"

1970

Station

77 Sweden

## Hydro Depth Observations (Code 03)

S Smygehuk

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
0325	55	10	013	20	0	970	10	13	12	0038	00	014	00	00	120							28	1	0				
Obs. time	Obs. depth	Temp.		Sol.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Tot.P µgat/l	Alkal. 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
12	0000	1224	07887	0566	767			822	0.16			3	3															
	0005	1225	07885	0566	741			819	0.13																			
	0010	1217	07890	0566	734			819	0.15																			
	0015	1217	07957	0572	718			813	0.17																			
	0020	1191	07974	0576	690			813	0.20																			
	0030	1178	08618	0627	675			807	0.31																			
	0035	1185	09114	0664	679			807	0.38																			
BT Slide Sk 391/13259/70 N 55°09.5' E 13°20' Observer: Bladh																												



















11 "Skagerak"

1970

Station

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Hydro Depth Observations (Code 03)

Stolpe ränna

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
0331	55	13	017	04	0	970	10	14	08	0090	01	027	07	16	090			2	73	0																									
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Tot.P µgat/l	SiO <sub>2</sub> 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																	
08	0000	1303	07500	0524	712			827	0.06	0.42	6.0	3	3																																
	0005	1303	07500	0524	710			827	0.08	0.30	5.5																																		
	0010	1308	07499	0524	712			827	0.05	0.34	5.5																																		
	0015	1302	07499	0524	706			826	0.04	0.34	5.0																																		
	0020	1302	07499	0524	724			826	0.06	0.32	5.0																																		
	0030	1277	07506	0529	699			824	0.06	0.34	7.0																																		
	0040	0650	07730	0609	701			790	0.28	0.47	13.0																																		
	0050	0335	08591	0690	678			768	0.45	0.63	17.5																																		
	0060	0541	11318	0899	525			759	0.62	0.81	24.0																																		
	0070	0577	12387	0981	442			749	0.75	0.99	29.0																																		
	0080	0617	13383	1056	357			745	0.95	1.17	36.0																																		
BT Slide Sk 397/11601/70												Observer: Bladh																																	
								NO <sub>3</sub> <sup>-</sup> -N µgat/l	NO <sub>2</sub> <sup>-</sup> -N µgat/l	NH <sub>4</sub> <sup>+</sup> -N µgat/l	Tot.N µgat/l																																		
	0000							0.49	0.08	0.31																																			
	0005							0.46		0.28																																			
	0010							0.38		0.32																																			
	0015							0.17		0																																			
	0020							0.20		0																																			
	0030							0.11		0.34																																			
	0040							0.70	0.44	1.08	13.42																																		
	0050							0.78		0.08																																			
	0060							1.46	0.14	0.55																																			
	0070							2.42		0.26																																			
	0080							2.14	0.02	0.24																																			







11 "Skagerak"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

Klaipeda

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	61	62				
0333	56	08	019	17	0	970	10	14	20	0123	01	033	05	16	070					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	Alkal. Mval/l	Sed. 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	1172	07270	0524	735		818	0.05	0.26	1.535	3	3
	0005	1177	07269	0524	732		819	0.05	0.31	1.527		
	0010	1173	07267	0524	734		820	0.06	0.26	1.527		
	0015	1171	07267	0524	737		821	0.04	0.20	1.605		
	0020	1173	07267	0524	732		822	0.04	0.38	1.527		
	0030	1165	07271	0525	731		821	0.04	0.26	1.548		
	0040	0350	07711	0620	795		788	0.23	0.31	1.579		
	0050	0218	07937	0639	774		775	0.27	0.57	1.586		
	0060	0233	08565	0688	570		750	0.55	0.68	1.612		
	0070	0399	09895	0793	142		722	1.29	1.56	1.672		
	0080	0440	10487	0840	142		730	1.46	2.04	1.677		
	0090	0441	11023	0880	159		725	1.47	1.69	1.703		
	0100	0403	11365	0909	232		727	1.42	1.72	1.763		
	0115	0399	11652	0932	214		726	1.49	1.53	1.729		

	NO <sub>3</sub> <sup>-</sup> -N μgat/l	NO <sub>2</sub> <sup>-</sup> -N μgat/l	NH <sub>4</sub> <sup>+</sup> -N μgat/l	Tot.N μgat/l	SiO <sub>2</sub> μgat/l
0000	0.35	0.01	0.72	16.78	9.0
0005	0.41		0.22		9.0
0010	0.29		0.16		9.0
0015	0.15		0.08		9.0
0020	0.16		0.18		9.0
0030	0.14	0.01	0.13	13.25	9.0
0040	0.61	0.42	0.89	12.00	12.0
0050	0.61		0.70		15.0
0060	0.99		0.15		25.5
0070	1.64	0.03	0	9.30	47.0
0080	1.93		0		49.0
0090	3.06		0.19		50.0
0100	3.90		0.21		49.0
0115	3.62	0.05	0.18	16.58	52.5

N 56° 07.5' E 19° 17' Observer: Bladh  
BT Slide Sk 399/11601/70



















































11 "Skagerak"

1970

Station

77 Sweden

## Hydro Depth Observations (Code 03)

12/9

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
0347	57	44	017	06	0	970	10	16	12	0070	01	023	32	04	110			1	41	0																									
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														
12	0000	1092	06745	0494	779			817	0.07		3	3																																	
	0005	1089	06745	0494	782			821	0.06																																				
	0010	1069	06746	0497	762			817	0.08																																				
	0015	1066	06753	0497	760			816	0.10																																				
	0020	1067	06758	0497	757			815	0.09																																				
	0030	0895	06975	0532	701			793	0.25																																				
	0040	0501	07316	0585	743			778	0.43																																				
	0050	0332	07785	0626	653			759	0.82																																				
	0060	0356	08969	0719	268			726	1.89																																				
BT Slide Sk 413/11601/70 N 57°44' E 17°05.5'										Observer: Engström																																			
	0000							NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N																																			
	0020							μgat/l	μgat/l	μgat/l																																			
	0040							0.27	0	0.65																																			
	0060							0.01		0.13																																			
								0.51	0.30	0.22																																			
								1.47	0.02	0.21																																			















11 "Skagerak"

1970

Station

77 Sweden

F 78 Landsort Deep

## 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
0350	58	35	018	14	0	970	10	21	16	0459	04	032	02	18	070			6	8	30																									
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	77	78														
17	0000	0933	06814	0515	781			0.09	0.38	1.470	3	3																																	
	0005	0928	06814	0516	765			0.10	0.35	1.470																																			
	0010	0922	06819	0517	767			0.10	0.32	1.464																																			
	0015	0902	06812	0518	757			0.12	0.38	1.454																																			
	0020	0898	06812	0519	758			0.12	0.39	1.470																																			
	0030	0883	06819	0521	755			0.12	0.43	1.462																																			
	0040	0272	07520	0606	781			0.41	0.63	1.550																																			
	0050	0331	08633	0693	405			1.37	1.64	1.618																																			
	0060	0403	09543	0764	143			2.07	2.40	1.696																																			
	0070	0437	09935	0795	081			2.42	2.75	1.683																																			
	0080	0442	10155	0813	098			2.38	2.72	1.693																																			
	0090	0446	10216	0817	110			2.35	2.69	1.693																																			
	0100	0455	10343	0827	060			2.40	2.74	1.729																																			
16	0125	0464	10411	0832	035			2.68	3.07	1.706																																			
	0150	0466	10531	0842	017			2.65	3.08	1.722																																			
	0200	0494	10864	0866	010			2.72	3.14	1.724																																			
	0300	0528	11446	0909	017			2.58	2.89	1.745																																			
	0400	0527	11443	0909	013			2.49	2.89	1.742																																			
	0425	0531	11488	0913	015			2.53	2.97	1.755																																			
	0440	0525	11492	0913	013			2.54	2.83	1.748																																			
BT Slide Sk 416/11601/70													Observer: Engström																																



11 "Skagerak"

1970

Station

77 Sweden

F 78 Landsort Deep

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				
0350	58	35	018	14	0	970	10	21	16	0459	04	032	02	18	070						6	8	3	0
Obs. time	Obs. depth	NO <sub>3</sub> <sup>-</sup> -N		NO <sub>2</sub> <sup>-</sup> -N		NH <sub>4</sub> <sup>+</sup> -N		Tot.N		SiO <sub>2</sub>		Sal. method		Extra info.										
26 27	28 29 30 31	μgat/l		μgat/l		μgat/l		μgat/l		μgat/l		77		78										
17	0000	0.53		0		0.16		12.33		17.5														
	0005	0.63				0.13				16.5														
	0010	0.62				0.32				16.5														
	0015	0.63				0.26				17.0														
	0020	0.65				0.78				16.5														
	0030	0.65		0.04		0.23				16.5														
	0040	0.93		0.18		0.09		13.07		20.5														
	0050	1.69				0				40.0														
	0060	1.82				0				56.0														
	0070	1.58		0		0				62.5														
	0080	1.77				0				62.0														
	0090	2.12				0				62.0														
	0100	1.76		0.05		0		14.17		64.5														
16	0125	1.36				0.15				67.0														
	0150	1.37				0.20				68.5														
	0200	1.38		0.04		0.17				69.5														
	0300	3.76		0.13		0.18		14.85		67.0														
	0400	4.33				0.38		16.46		66.5														
	0425	4.16				0.94				66.5														
	0440	4.30		0.17		0.78		18.63		66.5														



11 "Skagerak"

1970

Station

77 Sweden

L 21

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				Weciner	Cloud amount	State of sea	Ice
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	60	61				
0351	58	47	019	06	0	970	10	21	23	0180	01	037	02	22	080					2	83	0

Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Sai. 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	0861	06839	0524	779		806	0.06	3	3
	0005	0858	06839	0524	780		798	0.07		
	0010	0863	06839	0524	781		800	0.05		
	0015	0862	06840	0524	781		786	0.05		
	0020	0862	06840	0524	781		783	0.06		
	0030	0858	06841	0524	780		797	0.07		
	0040	0655	07138	0563	786		786	0.12		
	0050	0244	07663	0616	807		776	0.24		
	0060	0237	08150	0656	654		753	0.55		
	0070	0356	09184	0736	285		720	1.41		
	0080	0467	10577	0846	053		712	2.19		
	0090	0474	10629	0849	053		713	2.21		
	0100	0497	10964	0873	032		708	2.28		
	0125	0495	11273	0897	021		709	2.26		
	0150	0494	11363	0905	019		706	2.25		

BT Slide Sk 417/11601/70 Observer: Engström



11 "Skagerak"

1970

Station

77 Sweden

F 64 Solovjeva

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
0352	60	12	019	09	0	970	10	22	14	0275	02	027	36	34	030							67	5	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.																																
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	0759	06054	0470	791		800	0.16	0.33	1.353		3	3																															
	0005	0759	06050	0470	790		795	0.13	0.35	1.345																																		
	0010	0758	06049	0470	790		794	0.13	0.34	1.355																																		
	0015	0761	06053	0470	789		793	0.11	0.37	1.366																																		
	0020	0760	06057	0471	786		796	0.16	0.31	1.397																																		
	0030	0777	06153	0476	785		792	0.13	0.43	1.358																																		
	0040	0702	06413	0502	767		792	0.18		1.412																																		
	0050	0734	06585	0514	757		778	0.25	0.35	1.444																																		
	0060	0581	06885	0548	747		779	0.34	0.42	1.496																																		
	0070	0507	07081	0556	738		777	0.39	0.56	1.537																																		
	0080	0469	07188	0575	732		772	0.44	0.58	1.537																																		
	0090	0456	07216	0579	729		773	0.40	0.53	1.571																																		
14	0100	0421	07259	0583	732		760	0.44	0.58	1.550																																		
	0125	0356	07385	0595	719		762	0.53	0.68	1.550																																		
	0150	0327	07463	0601	722		751	0.56	0.76	1.550																																		
	0200	0320	07572	0610	682		754	0.67	0.87	1.568																																		
	0250	0321	07626	0614	655		752	0.88	1.34	1.576																																		
						NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot.N	SiO <sub>2</sub>																																		
						μgat/l	μgat/l	μgat/l	μgat/l	μgat/l																																		
15	0000					0.83	0.13		16.21	19.0																																		
	0005					0.69				19.5																																		
	0010					0.89		0.70		19.0																																		
	0015					0.61				19.5																																		
	0020					0.45		0.32		19.0																																		
	0030					0.59	0.12		12.47	19.5																																		
	0040					0.72		0.78		19.5																																		
	0050					0.46				19.0																																		
	0060					0.55	0.01	0.33		19.0																																		
	0070					0.87				20.0																																		
	0080					0.52		0.51		20.5																																		
	0090					0.62				20.5																																		
14	0100					0.77	0.01	0.23	13.21	21.0																																		
	0125					0.60		0.14		22.0																																		
	0150					0.73	0.01	0.33		23.5																																		
	0200					0.95		0.08		25.5																																		
	0250					0.81	0.04	0.20	5.46	28.0																																		



11 "Skagerak"  
77 Sweden

1970

Station  
SS 31 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						
	o	'	o	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	60	61					62	63	64			
0353	61	05	018	37	0	970	10	23	10	0040	00	032	36	12	040					1	53	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
10	0000	0689	0552	1	0433	799			786	0.07	0.28	1.290	3	3														
	0005	0689	0551	9	0433	798			787	0.06	0.26	1.251																
	0010	0689	0552	0	0433	804			787	0.05	0.25	1.293																
	0015	0690	0552	1	0433	807			787	0.06	0.28	1.275																
	0020	0688	0552	5	0434	797			788	0.06	0.27	1.262																
	0030	0683	0552	8	0434	806			788	0.06	0.27	1.249																
BT Slide Sk. 419/13259/70 N 61°04.5' E 18°37'										Observer: Bladh																		
Secchi disc: 8 m																												
									NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot. N																
									μgat/l	μgat/l	μgat/l	μgat/l																
	0000								0.84	0.27	0.77	8.83																
	0005								0.69		0.25																	
	0010								0.78		0.55																	
	0015								0.75	0.25	0.32	21.19																
	0020								0.56		0.31																	
	0030								0.59	0.59	0.31	19.35																



11 "Skagerak"

1970

Station

77 Sweden

SS 31 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				
0354	61	08	018	15	0	970	10	23	12	0070	01	038	27	04	010			12	3	0

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	58 59 60	61 62 63 64			77	78

12	0000	0751	05431	0421	804		795	0.03		3	3
	0005	0744	05431	0422	802		795	0.03			
	0010	0743	05431	0422	806		795	0.06			
	0015	0742	05431	0422	803		796	0.08			
	0020	0741	05437	0422	806		795	0.05			
	0030	0743	05431	0422	808		795	0.05			
	0040	0649	05501	0433	800		787	0.07			
	0050	0267	05764	0465	762		763	0.10			
	0060	0277	05809	0469	732		758	0.15			

BT Slide Sk 420/11601/70 Observer: Bladh



11 "Skagerak"

1970

Station

77 Sweden

SS 32 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
0355	61	12	017	52	0	970	10	23	13	0073	01	035	27	06	024			11	3	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.																																
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													
13	0000	0757	05356	0415	802			784	0.06	0.25	1.228	3	3																																
	0005	0752	05389	0418	795			790	0.04	0.25	1.220																																		
	0010	0753	05394	0418	800			771	0.03	0.22	1.228																																		
	0015	0752	05395	0419	799			782	0.06	0.22	1.236																																		
	0020	0753	05397	0419	798			792	0.03	0.28	1.236																																		
	0030	0754	05403	0419	799			789	0.04	0.22	1.236																																		
	0040	0376	05755	0464	752			764	0.10	0.28	1.301																																		
	0050	0316	05816	0469	738			754	0.14	0.25	1.306																																		
	0060	0293	05854	0472	731			755	0.13	0.28	1.324																																		
				NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot.N	SiO <sub>2</sub>																																					
				µgat/l	µgat/l	µgat/l	µgat/l	µgat/l																																					
	0000			0.71	0.32	1.21	22.64	21.5																																					
	0005			0.62		0.51		21.0																																					
	0010			0.63		0.39		21.0																																					
	0015			0.69		0.24		21.0																																					
	0020			0.58		0.24		21.0																																					
	0030			0.59	0.32	0.15	19.81	21.0																																					
	0040			1.19	0.04	0.38	20.99	26.0																																					
	0050			0.83		0.32		26.5																																					
	0060			0.96	0.02	0.34	18.42	27.0																																					

BT Slide Sk 421/11601/70 Observer: Engström















11 "Skagerak"

1970

Station

77 Sweden

SS 29 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
	o	'	o	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb				
0360	61	07	020	16	0	970	10	24	02	0115	01	053	23	20	040			0	0	30

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	%						
02	0000	0700	05825	0456	805		790	0.09	0.08	1.335		33
	0005	0703	05823	0456	807		794	0.07	0.10	1.309		
	0010	0699	05823	0456	807		794	0.07	0.10	1.353		
	0015	0699	05825	0456	811		795	0.08	0.08	1.301		
	0020	0700	05824	0456	804		794	0.08	0.07			
	0030	0695	05827	0457	808		795	0.07	0.06	1.306		
	0040	0698	05825	0456	806		794	0.04	0.06	1.386		
	0050	0699	05831	0456	810		792	0.06	0.16	1.327		
	0060	0395	06002	0482	757		769	0.15	0.17	1.405		
	0070	0379	06399	0515	720		762	0.20	0.28	1.418		
	0080	0330	06631	0534	735		761	0.27	0.25	1.441		
	0090	0331	06732	0542	707		761	0.34	0.34	1.459		
	0100	0333	06852	0552	706		761	0.34	0.37	1.472		
	0110	0311	06933	0559	700		761	0.44	0.49	1.488		

BT Slide Sk 426/11601/70 N 61°06.5' E 20°16' Observer: Bladh

	NO <sub>3</sub> <sup>-</sup> -N μgat/l	NO <sub>2</sub> <sup>-</sup> -N μgat/l	NH <sub>4</sub> <sup>+</sup> -N μgat/l	Tot.N μgat/l	SiO <sub>2</sub> μgat/l
0000	0.80	0.23	0.04	19.34	19.5
0005	0.80				19.5
0010	0.89		0.20		19.5
0015	0.68				19.5
0020	0.60		0.30		19.5
0030	0.65				19.5
0040	0.64		0.34		19.5
0050	0.57	0.22	0.32	13.30	19.5
0060	0.85	0.02	0.30	17.86	23.5
0070	1.25				25.5
0080	1.20		0.32		25.0
0090	1.45				25.5
0100	1.66		0.56		25.5
0110	1.55	0.02	0.86	21.19	26.0







11 "Skagerak"

1970

Station

77 Sweden

L 7

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							
0362	59	51	024	50	0	970	10	25	14	0080	01	033	23	08	062						2	82	0

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	58 59 60	61 62 63 64			77	78

14	0000	0772	05815	0451	792		798	0.26			3	3
	0005	0768	05814	0451	806		798	0.27				
	0010	0775	05839	0452	790		798	0.29				
	0015	0770	06162	0478	732		786	0.35				
	0020	0779	06541	0507	738		788	0.34				
	0030	0780	06753	0524	758		789	0.35				
	0040	0340	07323	0589	523		746	1.16				
	0050	0298	07878	0634	445		734	1.57				
	0060	0313	08336	0671	362		728	1.90				
	0070	0380	09362	0750	142		717	2.77				
	0075	0400	09801	0784	061		718	3.54				

BT Slide Sk 428/11601/70 Observer: Bladh

	NO <sub>3</sub> <sup>-</sup> -N µgat/l	NO <sub>2</sub> <sup>-</sup> -N µgat/l	NH <sub>4</sub> <sup>+</sup> -N µgat/l	Tot.N µgat/l
0000	1.54	0.19	0.43	25.47
0005	1.61		0.61	
0010	1.54		0.61	
0015	1.52		0.64	
0020	1.05		0.64	
0030	0.92	0.19	0.75	21.19
0040	3.47	0.04	0.10	23.35
0050	3.73		0.19	
0060	3.59		0.12	
0070	3.23		0.23	
0075	2.07	0.11	4.87	25.57



11 "Skagerak"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

L 9

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
0363	59	41	024	00	0	970	10	25	17	0073	01	026	20	20	070							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	%				
17	0000	0794	06369	0492	771		793	0.21		3 3
	0005	0798	06367	0492	767		794	0.21		
	0010	0790	06383	0494	767		794	0.22		
	0015	0783	06401	0496	783		794	0.22		
	0020	0771	06523	0506	750		789	0.26		
	0030	0629	06752	0534	706		775	0.40		
	0040	0428	07271	0583	637		757	0.73		
	0050	0349	07671	0616	565		747	1.02		
	0060	0330	08107	0652	464		736	1.36		
	0065	0318	08249	0664	447		733	1.45		

BT Slide Sk 429/11601/70 Observer: Bladh

	NO <sub>3</sub> <sup>-</sup> -N μgat/l	NO <sub>2</sub> <sup>-</sup> -N μgat/l	NH <sub>4</sub> <sup>+</sup> -N μgat/l	Tot.N μgat/l
0000	1.93	0.18	0.58	19.58
0005	1.65		0.50	
0010	1.38		0.69	
0015	0.90		0.81	
0020	0.80		0.59	
0030	1.04	0.13	0.80	21.19
0040	2.02	0.10	0.39	20.76
0050	1.77		0	
0060	2.01		0	
0065	2.81	0.07	0	8.65



11 "Skagerak"

1970

Station

77 Sweden

L 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																									
	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
0364	59	35	023	18	0	970	10	25	20	0070	01	039	23	22	080						1	33	0																						
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> <sup>-P</sup>	SiO <sub>2</sub>	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														
20	0000	0807	06369	0491	787		791	0.19	14.5	1.470	3	3																																	
	0005	0798	06370	0492	784		797	0.21	14.5	1.467																																			
	0010	0796	06386	0494	795		797	0.23	14.5	1.483																																			
	0015	0795	06399	0495	781		797	0.24	14.5	1.488																																			
	0020	0790	06485	0502	770		796	0.26	14.5	1.488																																			
	0030	0770	06684	0519	770		791	0.28	15.0	1.488																																			
	0040	0705	06795	0533	750		786	0.35	16.5	1.524																																			
	0050	0384	07393	0594	714		762	0.60	21.5	1.576																																			
	0060	0284	08205	0661	518		740	1.17	35.0	1.633																																			
BT Slide Sk 430/1601/70												Observer: Carlberg																																	
							NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot.N																																			
							μgat/l	μgat/l	μgat/l	μgat/l																																			
	0000						0.89	0.15	0.62	20.28																																			
	0005						0.78		1.14																																				
	0010						0.73		0.96																																				
	0015						0.68		1.05																																				
	0020						0.65	0.14	0.96	20.50																																			
	0030						0.65		0.87																																				
	0040						0.95	0.14	0.80	21.46																																			
	0050						1.18		0.67																																				
	0060						1.86	0.07	0.73	22.34																																			







11 "Skagerak"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

F 72

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
0366	59	17	021	34	0	970	10	26	06	0185	02	037	27	12	060			1	33	0																									
Obs. time	Obs. depth		Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P	Tot.P	Alkal.	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	0807	06749	0522	791			795	0.13	0.13	1.516	3	3																																
	0005	0809	06752	0522	780			800	0.11	0.14	1.496																																		
	0010	0808	06751	0522	786			801	0.11	0.12	1.511																																		
	0015	0810	06752	0522	781			802	0.12	0.12	1.483																																		
	0020	0815	06755	0522	783			802	0.12	0.12	1.506																																		
	0030	0808	06784	0524	781			802	0.13		1.501																																		
	0040	0738	07176	0561	753			793	0.26		1.571																																		
	0050	0428	07628	0611	732			774	0.42		1.589																																		
	0060	0387	08399	0674	510			747	1.04		1.638																																		
	0070	0374	09482	0760	197			723	2.11	2.15	1.680																																		
	0080	0382	09564	0765	173			720	2.15	2.17	1.683																																		
	0090	0388	09630	0771	163			720	2.18	2.28	1.690																																		
	0100	0442	10248	0821	079			712	2.52	2.75	1.714																																		
	0125	0457	10516	0841	041			714	2.67	3.03	1.719																																		
	0150	0470	10668	0852	027			713	2.88	2.95	1.732																																		
	0180	0466	10691	0854	019			715	2.80	3.07	1.732																																		
				NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot.N	SiO <sub>2</sub>																																					
				µgat/l	µgat/l	µgat/l	µgat/l	µgat/l																																					
	0000			0.34	0.14	0.74	17.79	15.0																																					
	0005			0.47		0.65		15.0																																					
	0010			0.42		0.56		14.5																																					
	0015			0.31		0.58		14.5																																					
	0020			0.27		0.61		14.5																																					
	0030			0.23	0.12	0.82	16.67	14.5																																					
	0040			0.44		0.87		16.0																																					
	0050			0.64	0.19	0.64	15.48	19.0																																					
	0060			1.11		0.48		33.5																																					
	0070			1.62		0.51		55.0																																					
	0080			1.96		0.50		55.5																																					
	0090			2.05	0.09	0.39	18.22	56.5																																					
	0100			1.64		1.50		64.0																																					
	0125			0.97		1.57		66.0																																					
	0150			0.51		2.16		67.5																																					
	0180			0.66	0.12	2.37	17.52	68.5																																					

BT Slide Sk 432/11601/70 N 59°17.48' E 21°34' Observer: Bladh



11 "Skagerak"

1970

Station

77 Sweden

L 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				
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		
0367	59	02	021	05	0	970	10	26	11	0200	02	039	27	16	080			14	3	0
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/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									
11	0000	0818	06726	0519	800			803	0.09										3	3
	0005	0820	06725	0519	787			788	0.11											
	0010	0819	06721	0519	785			801	0.12											
	0015	0826	06726	0519	786			790	0.12											
	0020	0817	06725	0519	780			794	0.10											
	0030	0806	06941	0537	779			800	0.14											
	0040	0483	07507	0601	764			783	0.22											
	0050	0369	07796	0627	725			769	0.26											
	0060	0310	08168	0656	618			751	0.56											
	0070	0351	08948	0718	362			729	1.14											
	0080	0412	09820	0785	134			718	1.88											
	0090	0448	10304	0824	076			714	2.27											
	0100	0474	10640	0850	013			709	2.61											
	0125	0508	11179	0890	008			711	2.66											
	0150	0521	11365	0904	012			708	2.62											
	0175	0521	11396	0906	012			708	2.69											
BT Slide Sk 433/11601/70 Observer Bladh, Thelén																				







11 "Skagerak"

1970

Station

77 Sweden

F 79

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		
0369	58	27	020	20	0	970	10	26	18	0125	01	025	29	18	060			6	83	0		
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -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						
18	0000	0810	06758	0523		793			806	0.03	1.501									3	3	
	0005	0814	06757	0522		808			804	0.07	1.503											
	0010	0810	06767	0523		801			799	0.08	1.496											
	0015	0811	06769	0523		796			800	0.03	1.496											
	0020	0811	06757	0522		797			804	0.07												
	0030	0819	06826	0527		800			799	0.05												
	0040	0784	07091	0550		787			801	0.09												
	0050	0719	07248	0568		780			794	0.13												
	0060	0298	07955	0641		679			763	0.50												
	0070	0314	08849	0711		396			734	0.96												
	0080	0455	10309	0824		077			716	1.77												
	0090	0482	10744	0857		053			715	1.80												
	0100	0498	11119	0885		028			715	2.11												
	0115	0514	11442	0909		026			715	2.18												
BT Slide Sk 435/11601/70 N 58°26.5' E 20°20' Observer: Engström																						



11 "Skagerak"

1970

Station

77 Sweden

S 41

## 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
0370	57	07	017	40	0	970	10	27	08	0110	01	013	29	16	060			14	3	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														
08	0000	0834	06906	0532	776			804	0.09	0.24	1.475																																		
	0005	0832	06905	0532	772			804	0.09	0.24	1.477																																		
	0010	0838	06905	0532	780			800	0.08	0.23	1.470																																		
	0015	0793	06978	0541	783			801	0.10	0.30	1.503																																		
	0020	0775	07008	0545	787			794	0.10	0.35	1.490																																		
	0030	0776	07026	0546	782			798	0.12	0.39	1.490																																		
	0040	0633	07160	0566	782			788	0.20	0.44	1.522																																		
	0050	0337	07641	0615	713			765	0.53	0.76	1.568																																		
	0060	0366	08847	0710	291			728	1.68	1.91	1.628																																		
	0070	0441	09927	0794	017			710	2.50	2.81	1.690																																		
	0075		10010		012			710	2.53	2.89	1.690																																		
	0080	0464	10323	0824				710	2.79	3.67	1.729																																		
	0090	0466	10368	0829				710	2.74	3.75	1.716																																		
	0100	0467	10413	0831				709	2.69	3.75	1.727																																		
	0105	0464	10455	0836				707	2.67	3.65	1.727																																		
				NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot.N	SiO <sub>2</sub>	H <sub>2</sub> S																																				
				µgat/l	µgat/l	µgat/l	µgat/l	µgat/l	µgat/l																																				
	0000			0.07	0	0.70	14.31	14.0																																					
	0005			0.10		0.62		13.5																																					
	0010			0.07		0.73		13.5																																					
	0015			0.06		0.62		14.0																																					
	0020			0.05		0.47		14.0																																					
	0030			0.04		0.42		14.0																																					
	0040			0.11	0	0.47	16.18	15.5																																					
	0050			0.21	0.08	0.30	15.40	21.0																																					
	0060			0.49		0.41		46.5																																					
	0070			0.32	0.02	0.58	14.52	65.0	0																																				
	0075			0.22		0.66			0																																				
	0080			0.04		2.98		73.5	20.7																																				
	0090			0		3.88		73.5	23.8																																				
	0100			0		4.35		74.5	25.0																																				
	0105			0	0.01	3.92	13.98	76.0	23.8																																				
BT Slide Sk 436/11601/70 Observer: Engström Secchi disc: 10.5 m																																													







11 "Skagerak"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

Segerstad II

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
0372	56	30	016	52	0	970	10	27	15	0070	01	021	29	18	060					00	3	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							
15	0000	0880	07182	0549	764			805	0.12													3	3
	0005	0883	07182	0549	767			806	0.13														
	0010	0882	07192	0550	761			806	0.14														
	0015	0879	07185	0549	759			806	0.12														
	0020	0861	07217	0554	759			804	0.13														
	0030	0602	07772	0615	698			778	0.47														
	0040	0551	07947	0632	670			769	0.52														
	0050	0424	08818	0706	285			730	1.63														
	0060	0441	09933	0794	0			715	2.96	7.5													
	0065	0445	10117	0808				712	2.83	25.0													
BT Slide Sk 438/11601/70 N 56°29.5' E 16°52' Observer: Engström																							

11 "Skagerak"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

Segerstad III

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
0373	56	19	016	41	0	970	10	26	17	0050	00	018	29	12	060					1	13	0	
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							
17	0000	0838	07344	0565	774			805	0.12													3	3
	0005	0836	07349	0566	779			807	0.13														
	0010	0828	07367	0569	786			806	0.15														
	0015	0806	07426	0575	768			801	0.13														
	0020	0743	07619	0594	734			790	0.30														
	0030	0643	07790	0614	705			772	0.40														
	0040	0461	08325	0666	493			748	1.07														
BT Slide Sk 439/13259/70 Observer: Engström																							



11 "Skagerak"

1970

Station

77 Sweden

Ölands S. udde

## 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
0374	56	07	016	32	0	970	10	27	18	0052	00	024	29	16	065			11	3	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	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													
18	0000	0821	07586	0586	776		798	0.19	0.42	1.539	3	3																																	
	0005	0820	07586	0586	772		801	0.16	0.65	1.539																																			
	0010	0819	07586	0586	773		801	0.14	0.50	1.553																																			
	0015	0820	07588	0586	771		801	0.14	0.49	1.548																																			
	0020	0821	07590	0586	774		799	0.16	0.44	1.553																																			
	0030	0787	07725	0601	746		794	0.22	0.49	1.550																																			
	0040	0567	08087	0642	679		775	0.40	0.59	1.576																																			
	0047	0426	08750	0701	391		740	1.37	1.59	1.620																																			
BT Slide Sk 440/13259/70 Observer: Bladh																																													
							NO <sub>3</sub> <sup>-</sup> -N µgat/l	NO <sub>2</sub> <sup>-</sup> -N µgat/l	NH <sub>4</sub> <sup>+</sup> -N µgat/l	Tot.N µgat/l																																			
	0000						0.20	0.09		12.84																																			
	0005						0.17		0.63																																				
	0010						0.16		0.72																																				
	0015						0.19		0.90																																				
	0020						0.19		0.80																																				
	0030						0.31	0.10	0.88	17.39																																			
	0040						0.77		0.54																																				
	0047						1.03	0.04	0.88	19.35																																			



11 "Skagerak"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

Christiansö

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
0375	55	23	015	20	0	970	10	28	01	0091	01	020	27	14	066			00	3	0																									
Obs. time	Obs. depth	Temp.	Sol.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -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														
01	0000	1023	07613	0568	750		806	0.06	1.560		3	3																																	
	0005	1025	07608	0568	747		810		1.563																																				
	0010	1024	07608	0568	740		810	0.05	1.558																																				
	0015	1028	07610	0568	737		811	0.04	1.563																																				
	0020	1019	07611	0569	745		810	0.06																																					
	0030	0988	07624	0573	747		810	0.05																																					
	0040	0983	07641	0575	749		797	0.07																																					
	0050	0424	09894	0791	588		760	0.48																																					
	0060	0873	13361	1032	381		755	0.66																																					
	0070	0603	15601	1231	142		732	1.31																																					
	0080	0566	16279	1287	009		725	1.76																																					
	0087	0560	16425	1300	005		726	2.13																																					
BT Slide Sk 441/11601/70 Observer: Bladh																																													
							NO <sub>3</sub> <sup>-</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NH <sub>4</sub> <sup>+</sup> -N	Tot.N																																			
							µgat/l	µgat/l	µgat/l	µgat/l																																			
	0000						0.12	0.06	0.57	20.05																																			
	0005						0.25		0.38																																				
	0010						0.16		0.42																																				
	0015						0.13		0.33																																				
	0020						0.14		0.37																																				
	0030						0.13	0.07	0.30	16.41																																			
	0040						0.16		0.41																																				
	0050						1.28	0.04	0.16	13.86																																			
	0060						2.12	0.03	0.15	17.67																																			
	0070						4.65		0.10																																				
	0080						4.10		0.73																																				
	0087						2.92	1.24	2.21	18.75																																			















11 "Skagerak"

1970

Station

77 Sweden

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
0381	55	15	015	59	0	970	11	16	19	0090	01		09	12	060			2	81	0																									
Obs. time	Obs. depth	Temp.		Sel.	$\sigma_t$	Oxygen		pH	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														
19	0000	0739	07842	0612	787																																								
	0010	0745	07843	0612	789																																								
	0020	0739	07844	0612	785																																								
	0030	0736	07850	0613	793																																								
	0040	0733	07878	0615	791																																								
	0050	0782	11326	0883	480																																								
	0060	0800	13300	1035	351																																								
	0070	0708	15433	1210	140																																								
	0080	0653	16376	1288	041																																								
	0085	0596	16482	1301	006																																								
	0090		16440		024				2.10			8																																	
BT Slide Sk 453/11601/70													Observer: Claesson																																



11 "Skagerak"

1970

Station

77 Sweden

Inre Gdansk

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	
0382	54	50	019	00	0	970	11	17	09	0103	01		32	14	050		2	83	0	
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	77	78											
					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											
09	0000	0747	07632	0596		778														
	0010		07630			780														
	0020	0794	07659	0594		774														
	0030	0789	07658	0595		777														
	0040	0750	07666	0598		776														
	0050	0689	07632	0600		784														
	0060	0687	07653	0601		778														
	0070	0428	09493	0760		365														
	0080	0446	10424	0833		286														
	0090	0354	11171	0895		209														
	0098	0434	11892	0949		185														
BT Slide Sk 454/11601/70 N 54°49.5' E 18° 59.5' Observer: Claesson																				







11 "Skagerak"

1970

Station

77 Sweden

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	58	59					60
0384	56	02	018	54	0	970	11	17	22	0120	01		32	14	040					1	4	20	
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		
22	0000	0618	07531	0596	802																3	0	
	0010	0614	07530	0596																			
	0020	0613	07526	0596																			
	0030	0615	07532	0596	802																		
	0040	0612	07525	0596																			
	0050	0605	07540	0598	802																		
	0060	0295	09014	0724	390																		
	0070	0426	10177	0815	107																		
	0080	0444	10911	0873	153																		
	0090	0470	11371	0907	125																		
	0100	0485	11700	0932	123																		
	0115	0497	12085	0962	076																		
BT Slide Sk 456/11601/70 N 56°01.5' E 18°54' Observer: Claesson																							

11 "Skagerak"

1970

Station

77 Sweden

ESE När

## 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				
0385	57	11	018	49	0	970	11	18	20	0042	00		16	16	050					1	62	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	
20	0000	0576	07205	0574	821																3	0
	0010	0580	07203	0572	814																	
	0020	0580	07192	0572	821																	
	0030	0579	07205	0574	814																	
	0038	0574	07264	0577	794																	
BT Slide Sk 457/13259/70 N 57°10.5' E 18°48.5' Observer: Claesson																						



11 "Skagerak"

1970

Station

77 Sweden

Landsort Deep

## 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
0386	58	36	018	13	0	970	11	20	02	0140	01		14	30	060	045						4	83	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	0524	06848	0547					820																			3	0
	0010	0526	06846	0547																									
	0020	0526	06847	0547																									
	0030	0526	06848	0547					819																				
	0040	0523	06852	0547																									
	0050	0497	07365	0589					690																				
	0060	0385	08089	0650					580																				
	0070	0401	09206	0738					302																				
	0080	0424	09812	0785					123																				
	0090	0456	10288	0823					055																				
	0100	0474	10560	0844					018																				
	0125		10925						018																				
BT Slide Sk		458/11601/70		N 58°36' E 18°12.5'		Observer: Claesson																							

11 "Skagerak"

1970

Station

77 Sweden

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
0387	55	00	014	06	0	970	11	25	05	0048	00		18	16	056															
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	0648	08072	0637					811																					
	0010	0646	08066	0637																										
	0020	0666	08173	0643					805																					
	0030	0692	08305	0653					791																					
	0040	1047	14887	1130					480																					
	0045	1080	15667	1186																										
BT Slide Sk		460/13259/70		Observer: Claesson																										











11 "Skagerak"

1970

Station

77 Sweden

Västra snittet

## 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	
0394	57	44	017	06	0	970	11	23	10	0070	01		14	12					68		2	0
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	Tot.P $\mu\text{g}/\text{l}$	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				
10	0070		08277		498			1.35														38
N 57°44'17" 05.5' Observer: Claesson																						

11 "Skagerak"

1970

Station

77 Sweden

Västra snittet

## 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	
0395	57	44	017	14	0	970	11	23	11	0110	01		14	12					6	8	20	
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	Tot.P $\mu\text{g}/\text{l}$	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				
11	0110		10540		0			3.27														38
N 57°43.5' E 17°14' Observer: Claesson																						

11 "Skagerak"

1970

Station

77 Sweden

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						
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	
0396	55	31	016	16	9	970	11	24	02	0075	01		20	10	050				0	02	0	
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	Tot.P $\mu\text{g}/\text{l}$	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				
02	0075	0742	15529	1214	098			1.85														38
Observer: Hagberg																						







11 "Skagerak"

1970

Station

77 Sweden

Trelleborgsnittet

## 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
0400	55	02	013	16	0	970	11	25		0042	00									
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	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	ml/l	%	77	78		
	0042	0990	14097	1077	466			1.14		38										
Observer: Hagberg																				

11 "Skagerak"

1970

Station

77 Sweden

Trelleborgsnittet

## 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
0401	55	08	013	16	0	970	11	25		0038	00									
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	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	ml/l	%	77	78		
	0038	0924	12187	0935	612			0.80		38										
N 55°07.5' E 13°16' Observer: Hagberg																				

11 "Skagerak"

1970

Station

77 Sweden

Trelleborgsnittet

## 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
0402	55	14	013	16	0	970	11	25		0040	00									
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	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	ml/l	%	77	78		
	0040	0864	09790	0754				0.46		38										
N 55°13.5' E 13°16' Observer: Hagberg																				























13 "Thetis"

1970

Station

77 Sweden

K 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	61	62					63
0145	57	24	012	03	0	970	10	13	14	0018	00		00	00	120	11.2	15	0	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				ml/l	%	77	78										
14	0000	1173	13172	0980	731																	3	0
	0005	1244	19960	1492	646																		
	0010	1269	21544	1609	607																		
	0015	1266	23112	1731	534																		
BT Slide Th 173/358/70, N 57°24' E 12°02.8' Observer: Claesson																							

13 "Thetis"

1970

Station

77 Sweden

K 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	61	62					63	64
0146	56	55	012	17	0	970	10	14	08	0022	00		16	10	085									
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				ml/l	%	77	78											
08	0000	1207	18809	1410	690																			
	0005	1231	19035	1423	687																			
	0010	1262	21329	1594	657																			
	0015	1224	28781	2174	346																			
	0020	1178	31532	2397	173																			
BT Slide Th 174/358/70, N 56°54.5' E 12°17', Observer: Claesson																								



13 "Thetis"

1970

Station

77 Sweden

## Hydro Depth Observations (Code 03)

K 16a

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
0147	56	52	012	02	0	970	10	14	10	0048	00		16	08	105								1	4	10			
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH																				
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	12	52	20	306	15	17			661																3	0	
	0005	12	56	20	275	15	16			662																		
	0010	12	84	20	893	15	56			639																		
	0015	14	08	26	917	19	98			481																		
	0020	14	59	31	046	23	04			405																		
	0030	12	75	32	514	24	53			363																		
	0040	12	10	32	700	24	80			323																		
BT Slide Th 175/358/70, N 56°52.1' E 12°02.2', Observer: Claesson																												

13 "Thetis"

1970

Station

77 Sweden

## Hydro Depth Observations (Code 03)

K 16

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
0148	56	51	011	47	0	970	10	14	11	0067	00		14	10	100											16	1	0
Obs. time	Obs. depth	Temp.		Sal.	$\sigma_t$	Oxygen		pH																				
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	12	48	19	035	14	20			666																	3	0
	0005	12	54	19	288	14	39			682																		
	0010	12	82	20	061	14	93			660																		
	0015	13	75	24	937	18	52			567																		
	0020	13	68	31	983	23	95			384																		
	0030	12	92	32	484	24	48			348																		
	0040	12	63	32	957	24	90			399																		
	0050	12	52	33	165	25	08			357																		
BT Slide Th 176/11600/70, N 56°51' E 11°46.5', Observer: Claesson																												



13 "Thetis"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

K 15a

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
0149	56	51	011	30	0	970	10	13	13	0013	00			14	10	10	0			2	7	1	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										
13	0000	1227	19038	1424	705																			
	0005	1267	19660	1465	721																			
	0010	1320	20628	1530	635																			
BT Slide Th 177/358/70, Observer: Claesson																								

13 "Thetis"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

K 15

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
0150	56	51	011	13	0	970	10	14	15	0015	00			14	08	100				16	1	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										
15	0000	1229	19465	1457	670																			
	0005	1236	19532	1460	679																			
	0010	1310	32959	2481	690																			
BT Slide Th 178/358/70, N 56°51' E 11°12.6' Observer: Claesson																								



13 "Thetis"

1970

Station

77 Sweden

## Hydro Depth Observations (Code 03)

K 12a

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
0151	56	58	011	45	0		970	10	15	08	0095	01			29	12	115						2	8	2	0		
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	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
09	0000	1230	19918	1490			671																			3	0	
	0005	1235	19884	1488			662																					
	0010	1309	20883	1550			622																					
	0015	1413	25889	1917			420																					
	0020	1385	30888	2307			424																					
	0030	1300	32066	2414			624																					
08	0040	1316	32959	2480			412																					
	0050	1287	33388	2519			387																					
	0060	1281	33568	2534			396																					
	0070	1272	33646	2542			391																					
	0080	1266	33670	2545			403																					
	0090	1253	33703	2549			389																					
BT Slide Th 180/11600/70, N 56°57.5' E 11°44.8' Observer: Claesson																												

13 "Thetis"

1970

Station

77 Sweden

## Hydro Depth Observations (Code 03)

K 12

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
0152	57	10	011	38	0		970	10	15	10	0055	00			27	12	110								2	8	2	0
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	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
10	0000	1227	21038	1578			656																				3	0
	0005	1227	21016	1576			658																					
	0010	1280	22220	1659			637																					
	0015	1386	28198	2100			501																					
	0020	1408	31724	2366			538																					
	0030	1386	32411	2424			532																					
	0040	1364	33084	2479			493																					
	0050	1281	33822	2553			429																					
BT Slide Th 181/358/70, N 57°09.7' E 11°37.8' Observer: Claesson																												







13 "Thetis"

1970

Station

77 Sweden

## Hydro Depth Observations (Code 03)

Idefjord 2

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
0155	59	02	011	25	0	970	11	05	08	0026	00		05	06	005								1	61	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	59 60	61 62 63	64												77	78			
08	0000	0316	03432	0278	715																				3	0	
	0002	0517	05043	0402	627																						
	0005	1152	23538	1783	0																						
	0010	1000	25895	1990	0																						
	0015	0883	27471	2130	0																						
	0020	0877	28389	2202																							
	0025	0604	31038	2445	0																						
N 59°02.2' E 11°24.9' Observer: Claesson																											

13 "Thetis"

1970

Station

77 Sweden

## Hydro Depth Observations (Code 03)

Idefjord 4

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
0156	59	05	011	23	0	970	11	05	09	0033	00		05	08	005										2	71	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	59 60	61 62 63	64												77	78			
09	0000	0327	04577	0370	642																				3	0	
	0002	0856	08573	0659	433																						
	0005	1191	24126	1822	0																						
	0010	1120	26255	1999	0																						
	0015	1053	27563	2111																							
	0020	1084	29240	2235	019																						
	0030	0598	31070	2448	0																						
N 59°04.9' E 11°23' Observer: Claesson																											







13 "Thetis"

1970

Station

77 Sweden

Idefjord 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		
	°	'	°	'		Year	Mo.	Day					Dir.	Sp. kn.	Dry bulb	Wet bulb	51 52	53 54					55 56	57 58 59
0159	59	06	011	17	0	970	11	05	12	0040	00		05	02	000							27	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								
12	0000	0479	04699	0376	395																		3	0
	0002	0665	08248	0650	245																			
	0005	1230	23403	1759	0																			
	0010	1167	26804	2033	079																			
	0015	1127	28823	2196	310																			
	0020	1129	29502	2248																				
	0025	1140	29767	2267	393																			
	0030	1169	30035	2283																				
	0038	1167	30372	2309	409																			
N 59°05.9' E 11°17.1' Observer: Claesson																								

13 "Thetis"

1970

Station

77 Sweden

Idefjord 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	51 52	53 54					55 56	57 58 59	60
0160	59	06	011	16	0	970	11	05	12	0027	00		05	03	001								2	7	10
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	0517	05813	0464	369																			3	0
	0002	0849	10058	0776	241																				
	0005	1177	25903	1962	051																				
	0010	1148	30309	2307	414																				
	0015	1176	31742	2413	501																				
	0020	1179	31850	2421																					
	0025	1194	32063	2435	502																				
N 59°05.75' E 11°15.8' Observer: Claesson																									















13 "Thetis"

1970

Station

77 Sweden

P 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
0167	57	52	011	18	0	970	11	23	16	0097	01	000	27	02	060			28	1	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													
16	0000	0765	26942	2104	714					0.34	0.59	3	3																																
	0005	0806	27658	2155	680					0.44	0.38																																		
	0010	0769	28750	2245						0.33	0.55																																		
	0015	0818	29721	2314	675					0.35	0.47																																		
	0020	0889	31193	2418	635					0.41	0.40																																		
	0030	0886	32511	2522	645					0.57	0.55																																		
	0040	0904	32763	2538	633					0.62	0.64																																		
	0050	0945	33226	2569	628					0.58	0.64																																		
	0075	1031	34166	2628	605					0.75																																			
	0090	1044	34370	2641	628					0.68	0.79																																		
BT Slide Th 196/11600/70, Observer: Allersand																																													

13 "Thetis"

1970

Station

77 Sweden

P 2 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
0168	57	51	011	15	0	970	11	23	16	0068	01		27	02	060			2	8	1	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													
16	0000	0782	30462	2376	679					0.57		3	4																																
	0005	0794	30605	2386	668					0.53																																			
	0010	0836	31508	2451	652					0.55																																			
	0015	0849	32006	2488	654					0.61																																			
	0020	0858	32166	2499	650					0.60																																			
	0030	0898	32666	2533	637					0.58																																			
	0040	0891	32914	2552	591					0.64																																			
	0050	0866	33499	2602	615					0.68																																			
	0060	1032	34121	2624	610					0.72																																			
BT Slide Th 197/11600/70, N 57°51.4' E 11°14.9' Observer: Engström																																													



13 "Thetis"

1970

Station

77 Sweden

## Hydro Depth Observations (Code 03)

P 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
0169	57	50	011	04	0	970	11	23	17	0047	00	000	18	12	050			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.									
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	0824	30786	2396	662			0.52	0.68	3	3									
	0005	0835	31311	2436	660			0.55	0.68											
	0010	0836	31653	2462	658			0.61	0.68											
	0015	0845	31910	2480	648			0.58	0.76											
	0020	0874	32289	2506	645			0.63	0.79											
	0030	0888	32418	2514	653			0.61	0.85											
	0040	0888	32475	2519	636			0.67	0.81											
	0045	0895	32518	2521	640			0.64	0.87											
BT Slide Th 198/358/70												Observer: Engström								

13 "Thetis"

1970

Station

77 Sweden

## Hydro Depth Observations (Code 03)

P 4

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	57	48	010	52	0	970	11	23	19	0058	00	003	18	14	050			2	83	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	77	78			
19	0000	0782	27285	2129	703			0.29	0.68	3	3									
	0005	0852	31096	2416	647				0.68											
	0010	0844	31801	2472	653			0.59	0.84											
	0015	0850	31880	2478	651			0.63	0.96											
	0020	0859	31963	2483	650			0.60	0.88											
	0030	0888	32440	2516	649			0.61	0.81											
	0040	0902	32666	2532	655			0.60	0.81											
	0050	0961	33349	2575	637			0.65	0.82											
BT Slide Th 199/358/70												Observer: Bladh								







13 "Thetis"

1970

Station

77 Sweden

## Hydro Depth Observations (Code 03)

Malmödrag

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
0173	58	19	011	22	0	970	11	25	12	0034	00	034	18	10	075			47	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.									
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	0689	27184	2132	724		847	0.36	0.57		3	3								
	0005	0687	27222	2136	721		847	0.33	0.57											
	0010	0708	27580	2151	724		846	0.32	0.55											
	0015	0739	27747	2171	720		846	0.34	0.57											
	0020	0741	27792	2173	701		846	0.35	0.57											
	0030	0701	28281	2217	679		846	0.41	0.56											
BT Slide Th 202/358/70, N 58°19.1' E 11°21.7' Observer: Bladh																				

13 "Thetis"

1970

Station

77 Sweden

## Hydro Depth Observations (Code 03)

Brofjorden

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
0174	58	22	011	26	0	970	11	25	13	0023	00	008	23	08	085			4	71	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	77	78			
13	0000	0625	25759	2027	726		845	0.40	0.68		3	3								
	0005	0617	25761	2028	714		845	0.43	0.73											
	0010	0673	27057	2125	712		846	0.42	0.62											
	0015	0678	27626	2169	698		847	0.37	0.54											
	0020	0686	27844	2185	696		847	0.41	0.57											
BT Slide Th 203/358/70, N 58°21.6' E 11°25.5' Observer: Engström																				















13 "Thetis"

1970

Station

77 Sweden

## Hydro Depth Observations (Code 03)

Å 16

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
0181	58	16	010	44	0	970	11	25	18	0200	02	000	23	12	065			28	3	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														
19	0000	1012	34303	2640	601			0.57	0.72		3	3																																	
	0005	1010	34301	2640	639			0.62	0.72																																				
	0010	1014	34301	2640	629			0.60	0.67																																				
	0015	1006	34424	2651	621			0.54	0.65																																				
	0020	1001	34493	2657	629			0.63	0.64																																				
	0030	1002	34575	2664	622			0.56	0.67																																				
	0040	0990	34657	2672	625			0.55	0.59																																				
	0050	0971	34725	2681	619			0.52	0.61																																				
18	0075	0928	34767	2691	622			0.54	0.62																																				
	0100	0898	34811	2699	620			0.54	0.62																																				
	0125	0901	34894	2705	625			0.55	0.58																																				
	0150	0892	35040	2719	614			0.60	0.67																																				
	0190	0817	35130	2738	578			0.84																																					
BT Slide Th												210/13268/70 N 58°15' E 10°43.5' Observer: Engström																																	



13 "Thetis"

1970

Station

77 Sweden

Å 17

## Hydro Depth Observations (Code 03)

Station No.	Lat.		Long.		N S E W	Date			Station time	Depth to bottom	Max. abs. 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
0182	58	15	010	34	0	970	11	25	20	0310	03	005	20	12	065			28	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														
20	0000	0845	34148	2657	645					0.39		3	4																																
	0005	0848	34154	2657	653					0.43																																			
	0010	0951	34605	2675	629					0.53																																			
	0015	0951	34615	2676	632					0.51																																			
	0020	0957	34642	2677	627					0.52																																			
	0030	0966	34727	2683	621					0.54																																			
	0040	0954	34740	2685	618					0.52																																			
	0050	0939	34757	2689	623					0.50																																			
	0075	0903	34843	2701	628					0.49																																			
	0100	0902	34973	2711	612					0.57																																			
	0125	0897	35033	2718	608					0.63																																			
	0150	0884	35075	2723	599					0.66																																			
	0200	0688	35225	2764	567					0.97																																			
	0300	0578	35150	2772	590					1.00																																			
BT Slide Th 211/13268/70 N 58°14.5' E 10°34'													Observer: Bladh																																



13 "Thetis"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

Å 18 B

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				
0183	58	16	010	11	0	970	11	25	22	0470	04	025	23	04	065			2	82	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	56 59 60	61 62 63 64				77	78

22	0000	0799	33792	2635	648			0.23	0.49		3	3
	0005	0800	33792	2635	657			0.22	0.58			
	0010	0798	33796	2636	659			0.21	0.48			
	0015	0796	33817	2639	657			0.25	0.28			
	0020	0801	33823	2638	655			0.26	0.35			
	0030	0866	34348	2669	628			0.29	0.42			
	0040	0870	35024	2720	586			0.60	0.61			
	0050	0863	35147	2732	579			0.69	0.69			
	0075	0677	35014	2749	577			0.81				
	0100	0678	35121	2757	570			0.80	0.85			
	0125	0641	35111	2760	573			0.80	0.87			
	0150	0628	35122	2763	582			0.94				
	0200	0610	35132	2766	585			0.95				
	0300	0537	35080	2771	616			0.94				
	0400	0484	35032	2774	632			0.95				

BT Slide Th 212/13268/70, Observer: Bladh







13 "Thetis"

1970

Station

77 Sweden

M 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	58	24	009	46	0	970	11	26	02	0640	06	050	29	04	070			4	9	2	0
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P		Tot.P	Sel. method	Extra info.									
					ml/l	%		$\mu\text{g}/\text{l}$	$\mu\text{g}/\text{l}$												
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									
03	0000	0815	31213	2430	677		842	0.44	0.52		3	3									
	0005	0808	33599	2619	661		845	0.40	0.47												
	0010	0811	33752	2630	657		846	0.40													
	0015	0829	34015	2649	655		845	0.44	0.45												
	0020	0822	34038	2651	658		846	0.42	0.51												
	0030	0826	34054	2651	654		846	0.45	0.45												
	0040	0821	34380	2678	625		844	0.50	0.52												
	0050	0807	35015	2731	577		842	0.70	0.77												
	0075	0653	35011	2751	592		840	0.82	0.85												
	0100	0620	35063	2759	587		839	0.85	0.86												
02	0125	0663	35163	2762			831	0.93	0.90												
	0150	0636	35142	2764	584		836	0.91	0.95												
	0200	0600	35118	2767	597		838	0.88	0.94												
	0300	0519	35067	2773	626		840	0.88	0.90												
	0400	0494	35035	2773	641		840	0.87	0.84												
	0500	0470	35021	2775	658		840	0.84	0.84												
	0600	0459	35031	2777	657		840	0.86	0.91												
BT Slide Th 214/13268/70 N 58°23.7' E 09°45.8' Observer: Engström																					











13 "Thetis"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

Björningarna

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
0190	58	16	011	49	0	970	11	26	13	027	00	004	07	04	050			68	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														
13	0000	0494	22521	1784	800			833	0.78	0.95		3	3																																
	0005	0641	25888	2036	700			835	0.68	0.85																																			
	0010	0714	27055	2119	621			834	0.77	0.88																																			
	0015	0907	28209	2182	503			831	0.94	1.06																																			
	0020	1127	29799	2271	297			820	1.67	1.74																																			
	0025	1046	30819	2364	187			810	2.68	2.76																																			
BT Slide Th 219/358/70 N 58°15.58' E 11°49.24' Observer: Engström																																													

13 "Thetis"

1970

Station

77 Sweden

Hydro Depth Observations (Code 03)

Byfjorden

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
0191	58	20	011	53	0	970	11	26	14	0048	00	000	07	10	045			68	2	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														
14	0000	0498	12259	0976	802			819	1.08	1.86																																			
	0005	0842	26446	2055	539			828	1.02	1.21																																			
	0010	0961	27715	2138	405			823	1.35	1.57																																			
	0015	0972	28505	2197	221			808	2.71	2.93																																			
	0020	0469	30750	2436	0			784	7.19	7.46	59.5																																		
	0030	0447	31001	2458	0			782	6.68		58.0																																		
	0040	0445	31095	2456	0			778	8.56	8.70	68.75																																		
	0045	0445	31103	2456	0			776		10.55	64.5																																		
BT Slide Th 220/358/70 Observer: Engström																																													







13 "Thetis"

1970

Station

77 Sweden

## Hydro Depth Observations (Code 03)

Askeröfjord

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
0194	58	04	011	47	0	970	11	27	08	0029	00	008	00	00	050			28	0	0																									
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Tot.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	63	64														
08	0000	0577	25058	1978	851			838	0.50	0.68	3	3																																	
	0005	0584	25199	1988	797			839	0.51	0.67																																			
	0010	0592	25496	2010	745			839	0.59	0.68																																			
	0015	0651	26189	2059	669			836	0.70	0.90																																			
	0020	0770	27358	2136	556			832	1.04	1.25																																			
	0025	0834	27842	2166	518			829	1.21	1.64																																			
BT Slide Th 223/358/70 N 58°04.23' E 11°47.20' Observer: Bladh																																													

13 "Thetis"

1970

Station

77 Sweden

## Hydro Depth Observations (Code 03)

Hakefjord

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
0195	57	59	011	46	0	970	11	26	08	0031	00	012	00	00	050			28	0	0																									
Obs. time	Obs. depth	Temp.	Sal.	$\sigma_t$	Oxygen		pH	PO <sub>4</sub> -P µgat/l	Tot.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	63	64														
08	0000	0582	24658	1945	805			839	0.35	0.68	3	3																																	
	0005	0599	24923	1965	744			835	0.32	0.64																																			
	0010	0576	25413	2005	726			837	0.37	0.68																																			
	0015	0627	26048	2050	698			837	0.39	0.69																																			
	0020	0759	28006	2188	591			834	0.85	1.06																																			
	0028	0881	31121	2414	598			839	0.72	1.05																																			
BT Slide Th 224/358/70 N 57°59.38' E 11°45.7' Observer: Engström																																													











20 "TV 252"

1970

77 Sweden

Fladen

## 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	
0020	57	11	011	40	0	970	07	26	10	0074	01		18	04				2	8	3	9
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	159	27213	1982			608														
	0010	158	28678	2096			631														
	0020	155	30331	2230			593														
	0030	147	31641	2347			529														
	0040	112	32450	2477			542														
	0050	090	32885	2550			519														
	0060	064	33302	2618			507														
	0070	061	33376	2628			496														
BT Slide TV		252 22/10874/70			N 57°11.4'		E 11°40'														

20 "TV 252"

1970

77 Sweden

Station

Fladen

## 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
0025	57	11	011	40	0	970	08	23	14	0073	01		27	06				11	1	9
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	182	18485	1268			632													
	0010	164	18937	1341			629													
	0020	161	32169	2357			602													
	0030	144	32800	2442			486													
	0040	108	32832	2514			471													
	0050	091	32988	2555			464													
	0060	068	33803	2652			444													
	0070	068	33912	2661			453													
BT Slide TV		252 27/10874/70			N 57°11.4'		E 11°40'													











20 "TV 252"

1970

Station

77 Sweden

Hållsundsudde

## 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	
0029	57	20	012	01	0	970	09	24	13	0033	00		27	10				1	22	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	ml/l	%	77	78				
13	0000	139	23697	1743																3	0
	0010	151	27502	2022																	
	0020	145	29742	2204																	
	0030	133	31965	2402																	
BT Slide TV 252 31/10874/70 N 57°20.25' E 12°00.85'																					

20 "TV 252"

1970

Station

77 Sweden

Hållsundsudde

## 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	
0030	57	20	012	01	0	970	10	04	12	0034	00		05	06				2	82	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	ml/l	%	77	78				
12	0000	122	19218	1439																3	0
	0010	125	31301	2364																	
	0020	126	33120	2503																	
	0030	121	33373	2532																	
BT Slide TV 252 32/10874/70 N 57°20.25' E 12°00.85'																					



20 "TV 252"

1970

Station

77 Sweden

Fladen

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
0028	57	11	011	40	0	970	09	20	20	0075	01			25									9	9	99
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										
20	0000	148			22545	1647			657														3	0	
	0010	149			22943	1676			650																
	0020	153			27748	2037			593																
	0030	149			31235	2312			547																
	0040	132			32931	2477			476																
	0050	111			33234	2540			428																
	0060	104			33387	2565			405																
	0070	093			33625	2602			409																
BT Slide TV		252 30/10874/70			N 57°11.4'			E 11°40'																	















20 "TV 252"

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77 Sweden

Hällsundsudde

## 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
0035	57	20	012	01	0		970	11	12	08	0033	00			16	08									5	82	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	055	24372	1923																											30
	0010	070	25991	2036																											
	0020	083	28103	2186																											
	0030	096	30728	2362																											
BT Slide TV		252 38/10874/70		N 57°20.25' E 12°00.85'																											

20 "TV 252"

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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	60	61	62
0036	57	20	012	01	0		970	11	25	10	0033	00			20	10																4	8	40
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	062	20050	1579																													30	
	0010	061	20468	1613																														
	0020	075	26329	2058																														
	0030	097	31693	2444																														
BT Slide TV		252 39/10874/70		N 57°20.25' E 12°00.85'																														



20 "TV 252"  
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				
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	
0037	57	11	011	40	0	970	11	28	15	0080	01		99	12					1	65	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	068	23953	1879		860	1173															30
	0010	077	25681	2004		745	1049															
	0020	086	31491	2445		669	996															
	0030	090	32362	2507		623	943															
	0040	091	32694	2532		631	959															
	0050	096	33266	2570		621	957															
	0060	096	33266	2570		672	1035															
	0070	096	33305	2574		622	958															
BT Slide TV		252 40/10874/70		N 57°11.4'		E 11°40'																

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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	
0038	57	20	012	01	0	970	12	07	15	0035	00		36	14								28 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
15	0000	048	21322	1691																		3 0
	0010	075	23263	1817																		
	0020	094	32772	2534																		
	0030	096	33265	2569																		
BT Slide TV		252 41/10874/70		N 57°20.25'		E 12°00.85'																











