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Ödsmål, Kville sn, Bohuslän

Hällristning
Fiskare från
bronsåldern

Rock carving
Bronze age
fishermen



MEDDELANDE från
HAVSFISKELABORATORIET · LYSEKIL

nr
165

BROFJORDEN VI

OCEANOGRAPHICAL DATA

July - Dec. 1973

edited by

Bertil Öström

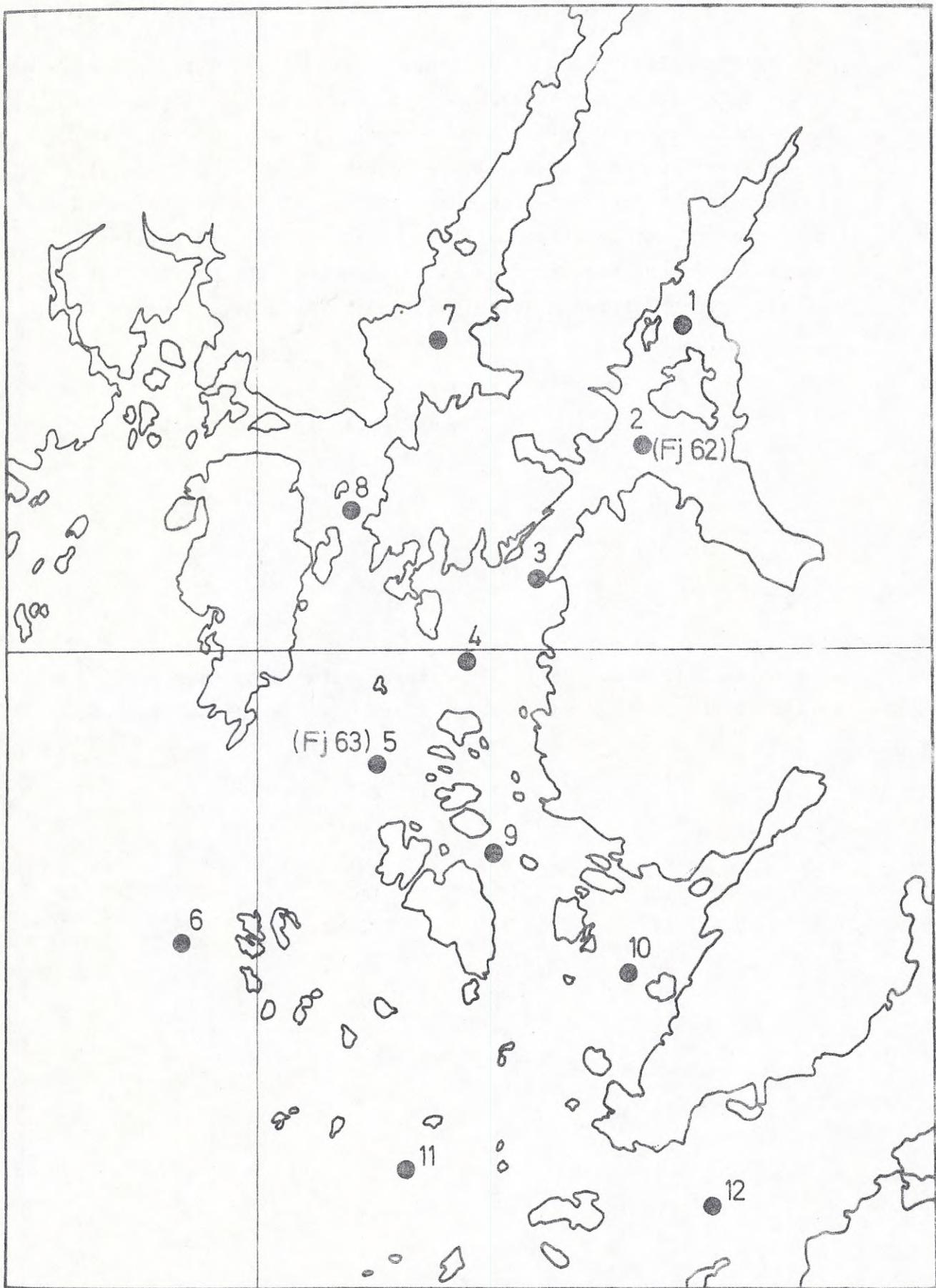
April 1974

Data from the later half of 1973 are now prepared. For explanations to the data tables see Meddelande från Havsfiskelaboratoriet No 156. The method for determining total nitrogen content is fairly rough and intercalibrations often give differing results. Tot.-N values are therefore to be used with the knowledge of the roughness of the method of determination. All methods used for the chemical analyses are described in "New Baltic Manual, ICES Cooperative Research Report Series A No. 29" edited by Stig R. Carlberg.

Bertil Öström
Fishery Board of Sweden
Hydrographic Department

At station 2 (Fj 62) Brofjorden October 3:rd 1973, Data page 50 values of phosphatephosphorus PO_4 -P are missing. These should be

Depth (m)	PO_4 -P (μ gAt/l)
0	0.05
5	0.19
10	0.39
15	0.39
20	0.45
25	0.46



58° 25'

58° 20'

58° 15'

11° 20'

11° 30'

STATION 1 INRE BROFJORDEN LAT: N 56 22.50 LONG: E 11 26.30 BOTTOM DEPTH: 18 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD WAVE AIR SECOHI PROD: START DURAT
 YEA MON DAY HOU MIN DIR. VEL. COVER HEIGHT TEMPE DEPTH HR MT HR MT

73 07 11 13 00 73 07 11 12 00 NSW 8 M/S 4 /6 0.1 M 19.0 C
 DEPTH TEMP. OXYG % SAT A.O.U. SALT PO4P TOTP ORGP NO3N NO2N BOTH IN NH4N SUMN TOTN ORGN SIGMA SOUNDV STABIL.
 M CELS. ML/L MA/L O/00 MA/L M/S

0	20.8	6.32	114.3		21.015	.04	.57	.53	.22	.04	.17	.4	11.6	11.2	13.99	1508.4
2.5	20.9	6.27	113.6		20.970	.00	.62	.62	.11	.04	.36	.5			13.93	1508.7
5	20.6	6.25	112.6		20.990	.10	.54	.44	.46	.03	.34	.8	17.6	16.8	14.02	1507.9
10	16.1	4.46	76.6	21.5	27.528	.27	1.21	.94	.29	.10	2.93	3.3			20.02	1502.1
15	12.4	4.42	71.5	157.0	30.493	.36	1.03	.65	.84	.17	2.27	3.3	18.9	15.6	23.05	1493.3

DEPTH OIL FEN ORGC VEL. PH CPROD NETPR CORPR NETCO CARB SUMN ORGN TOTN CARB / ORGC / TOTC / MEAN MEAN
 M MG/L MIG MG/L MGC/QMK MGC/L /PO4 /OP /TP PO4P ORGP TOTP TOTP N/P C/P

0																
2.5																
5																
10																
15																

* = UNSTABLE DENSITY STRATIFICATION WATER SAMPLER THERMOMETER NO. 42

23.8

STATION 4 YTTRE BROBJORDEN LAT: N 58 19.90 LONG: E 11 23.10 BOTTOM DEPTH 34 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD WAVE AIR SECCHI PROD: START DURAT
 YEA MON DAY HOUR MIN D/R. VELL. COVER HEIGHT TEMP. DEPTH HR MT HR MT

DEPTH TEMP. OXYG % SAT A.O.U. SALT P04P T0TP ORGP NO3N NO2N BOTH NH4N SUMN TOTN ORGN SIGMA SOUNDV STABIL.
 M CELS. ML/L MA/L O/00 MA/L M/S

DEPTH OIL FBN ORGC VEL. PH CPROD NETPR CORR INETCO CARB SUMN ORGN TOTN CARB/ ORGC/ TOTCP/ MEAN MEAN
 M MG/L L/MG MG/L MG/GMH MG/L /P04 /OP /TP P04P ORGP TOTP N/P C/P

* = UNSTABLE DENSITY STRATIFICATION WATER SAMPLER THERMOMETER NO 43

STATION 5 (FUJ-03) INAUWEDRAG LAY: N 50.19.10 LONG: E 11.21.70 BOTTOM DEPTH 36 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD WAVE AIR (SECH) PROD: START DURAT
 YEAR MONTH DAY HOUR MIN DIR. VEL. COVER HEIGHT TEMPI DEPTH HR INT HR INT

73: 07 11 10 30 73 07 11 09 30 MSW 0 M/S: 6/70 1.2 2.5 M 19.0 C 11.0 M 11 15 14 5

DEPTH M	TEMP. CELS	OXYG % SAT	A.O.U	SALT	PO4P	TOYP	ORCP	NO3N	INQ2N	DOTH	IN4N	SUMN	TOTN	ORGN	SIGMA	SOUNDY	STABLL
		ML/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	IN/S	
0	19.6	6.42	13.8	21.279	.05	.41	.36	.36	.04	.24	.6	15.0	13.0	14.47	1505.5		
2.5	19.6	6.41	13.6	21.229		.36	.16	.02		.59	.8	14.43		14.43	1505.4	-15.4	
5	19.0	6.41	13.3	21.261		.38	.21	.04		.51	.8	16.3	15.5	14.60	1503.7	67.4	
10	15.4	6.09	12.0	20.095	.03	.51	.46	.02		.36	.6	20.61		20.61	1500.5	1201.9	
15	13.5	6.06	10.6	30.757	.05	.41	.36	.08		.34	.6	23.04		23.04	1497.5	406.9	
20	12.3	5.85	9.4	31.220	.23	.51	.28	.10				16.80		23.63	1494.0	117.0	
30	9.5	5.01	7.7	32.966	.24	.87	.63	.46		1.04	4.1			25.48	1486.6	184.6	

DEPTH OIL PEN ORGC YEL PH ORPD NETR: CORPR: NETR: CO: CARB: SUMN: ORGN: TOTN: GARB: ORGB: TOTG: MEAN: MEAN:
 M MG/L MG MG/L MCC/MN

0 11.7 36.6 33.2
 2.5 42.9
 5 11.0
 10 32.4
 15 35.6
 20 35.6

AVERAGE VALUES FOR THE WATER COLUMN 0-30 M AVERAGE VALUES FOR THE WATER COLUMN BELOW 30 M
 PO4P (TOTP) SUMN (TOTN) CARB (TOTC) TONS (TONS) TONS (TONS) TONS (TONS) TONS (TONS)
 1.0 4.1 4.4 60.9 5162
 WATER: SAMPLER THERMOKERER: NO 43

STATION 1 INRE BROFJORDEN LAT: N 56 22.50 LONG: E 11 26.30 BOTTOM DEPTH: 18 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND DIR. WAVE HEIGHT AIR TEMP SECCHI PROD: START DURAT
 YEA MON DAY HOU MIN 73 07 24 12 30 73 07 24 11 30 E 3 M/S 7 / 8 0 M HR MT HR MT

DEPTH M	TEMP CELS	OXYG % SAT	A.O.U	SALT MA/L	PO4P MA/L	TOTP MA/L	ORGP MA/L	NO3N MA/L	NO2N MA/L	BOTH MA/L	NH4N MA/L	SUMN MA/L	TOTN MA/L	ORGN MA/L	SIGMA M/S	SOUNDV	STABIL.
0	19.3	6.30	113.4	24.914	.32	.73	.41	.13	.04	1.29	1.5	21.0	19.5	17.31	1508.5		
2.5	18.3	6.10	108.9	26.790	.05	.52	.47	.12	.01	1.13	1.3			18.97	1507.8	663.6	
5	16.6	6.10	106.7	29.025	.24	.48	.24	.08	.02	1.30	1.4			21.06	1505.3	634.6	
10	15.1	5.80	99.2	4.3	30.208	.22	.22	.09	.04	1.11	1.2			22.29	1502.1	245.5	
15	13.3	4.04	66.8	179.2	30.743	.43	1.31	.51	.14	2.15	2.8			23.06	1496.9	155.4	
18	13.3	4.33	71.7	152.7	30.840	.68	.99	.52	.14	2.47	3.1	18.0	14.8	23.14	1497.1	25.0	

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	VEL. PH	CPROD	NETPR	CORPR	NETCO	CARB MG/L	SUMN /PO4	ORGN /MOP	TOTN /TP	CARB/PO4P	ORGC/ ORGF	TOTC/ TOTP	MEAN N/P	MEAN C/P
0										4.5	48.0	20.6					
2.5										23.3							
5										5.9							
10										5.8							
15										6.5							
18										4.6	47.5	10.2					23.5

WATER SAMPLER THERMOMETER NO 44

STATION 3 STRETUDDEN LATI N 58 20.55 LONG: E 11 24.15 BOTTOM DEPTH 48 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD WAVE AIR SECCI PROD: START DURAT
 YEA MON DAY HOU MIN DIR. VEL. COVER HEIGHT TEMP DEPTH HR MT HR MT

DEPTH M	TEMP. CELS.	OXYG % SAT	A.O.U. SALT	PO4P	TOTP	ORGP	NO3N	NO2N	CARB	SUMN	ORGN	TOTN	CARB	PO4P	ORGP	TOTC	MEAN
		ML/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L
0	19.5	6.26	113.0	24.968	.10	.52	.42	.14	.04	.94	1.1	22.8	21.7	17.30	1509	1	
5	17.4	6.16	109.2	28.658	.04	.46	.42	.05	.03	1.17	1.3	14.9	13.6	20.60	1507.3	658.9	
10	16.6	6.15	108.3	30.133	.16	.43	.27	.04	.02	.96	1.0			21.90	1506.7	261.1	
15	14.5	5.87	99.8	31.256	.27	.58	.31	.09	.03	1.66	1.8			23.23	1501.4	264.3	
20	13.5	5.62	93.9	32.4	.19	.49	.30	.19	.12	1.29	1.6	15.5	13.9	23.71	1498.8	96.7	
30	12.0	5.10	83.0	32.640	.47	.87	.40	1.7	.36	1.35	3.4			24.79	1494.9	107.6	
40	10.4	5.08	80.5	33.619	.66	1.19	.53	1.8	.36	2.15	4.3			25.82	1490.8	103.8	
49	10.4	4.95	78.4	33.678	.67	1.08	.41	2.1	.37	2.54	5.0	15.5	10.5	25.87	1491.0	5.7	

DEPTH M	OIL	FEN	ORGC	VEL.	PH	CFROD	NETFR	CORPR	NETCO	CARB	SUMN	ORGN	TOTN	CARB	PO4P	ORGP	TOTC	MEAN
	MG/L	MG	MG/L			MG/GMH			MG/L	MG/L	/PO4	/OP	/TP	PO4P	ORGP	TOTP	N/P	MEAN
0											11.6	51.3	43.9					
5											29.2	32.7	32.3					
10											6.4							36.0
15											6.6							
20											8.3	46.9	31.7					
30											7.2							
40											6.5							
48											7.4	23.5	14.4					14.4

WATER SAMPLER THERMOMETER NO 44

STATION 4 YTTRE BRORJORDEN LAT: N 59 29,90 LONG: E 11 23,10 BOTTOM DEPTH 34 M

LOCAL DATE AND TIME 73 07 24 16 45 GREENWICH MEAN TIME 73 07 24 15 45 WIND DIR. NNW WIND VEL. 3 M/S WAVE HEIGHT 0.1-0.3 M AIR TEMP 12.4 SECCHI DEPTH 17.43

DEPTH M	TEMP CELS	OXYG % SAT	A.O.U. SALT	PO4P	TOTP	ORGP	NO3N	NO2N	BOTH	NH4N	SUMN	TOTN	ORGN	SIGMA	SOUNDV	STABIL.
		MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	M/S	M/S	
0	15.2	6.23	111.9	25.041	.05	.41	.36	.11	.08	.82	1.0	15.7	14.7	17.43	1506.3	
5	17.4	6.31	111.8	28.340	.13	.37	.24	.08	.02	1.06	1.2	12.4	11.2	20.33	1506.9	580.3
10	16.4	6.25	109.7	30.176	.01		.05	.02		.24	.3			21.98	1506.2	329.6
15	15.1	6.15	106.0	31.398	.06	.38	.32	.08	.04	.59	.7			23.20	1503.7	243.3
20	13.7	5.80	97.3	34.431	.13	.46	.33	.13	.07	.69	1.1	14.6	13.5	23.71	1499.5	103.2
30	11.9	5.38	87.4	69.032	.39	.57	.18	.33		1.06	3.2			24.97	1494.8	125.3
34	11.9	5.55	90.3	53.332	.38	.53	.15	.30		2.03		16.2		24.97	1495.1	1.1

DEPTH M OIL FEN ORGC YEL. PH CPROD NETPR CORPR NETCO CARB SUMN ORGN TOTN CARB/ ORGC/ TOTC/ MEAN MEAN

M	MG/L	MG	MG/L	MG/GMH	MG/L											
0					18.8	41.2	36.2									
5					18.9	46.5	33.4									
10					29.6											
15					11.0											
20					8.5	40.9	31.8									
30					8.1											
34																

WATER SAMPLER THERMOMETER NO 44

STATION 5 (FU 63) MALMØDRAG LAT: N 58 19.10 LONG: E 11 21.70 BOTTOM DEPTH 36 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND WAVE AIR SECCHI PROD: START DURAT
 YEA MON DAY HOU MIN DIR. VEL. COVER HEIGHT TEMP DEPTH HR MT HR MT
 73 07 24 09 30 73 07 24 08 30 E 1 M/S: 7 / 8 0 M 14.0 M 10 15 4 0

DEPTH TEMP OXYG % SAT A.O.U. SALT PO4P TOTP ORGP NO3N INO2N BOTH NH4N SUMN TOTN ORGN SIGMA SOUNDV STABIL.
 M CELS. ML/L MA/L O/00 MA/L M/S
 0 18.7 6.22 111.0 25.182 .49 .13 .06 .65 .8 24.8 24.0 17.65 1507.2
 2.5 18.6 6.20 110.6 25.751 .14 .39 .25 .09 .04 .55 .7 18.10 1507.6 182.1
 5 17.3 6.25 110.8 28.833 .05 .52 .47 .03 .05 1.87 1.9 13.9 12.0 20.76 1507.2 1061.7
 10 16.4 6.19 109.1 30.588 .01 .38 .37 .04 .05 1.52 1.6 22.29 1506.8 306.5
 15 14.7 6.08 103.7 31.312 .16 .55 .39 .08 .03 1.30 1.4 23.23 1502.1 188.0
 20 14.5 5.99 102.4 31.974 .29 .38 .09 .25 .06 .94 1.3 15.8 14.5 23.77 1502.5 108.0
 30 12.3 5.47 89.6 56.632 .511 .42 .63 .21 1.5 .27 1.01 2.8 24.62 1496.0 85.2
 34 12.3 5.50 90.1 53.932 .601 .37 .62 .25 1.6 .26 1.23 3.1 20.0 16.9 24.69 1496.1 17.4

DEPTH OIL FEN ORGC YEL. RH CPROD NETRR CORPR NETCO CARB SUMN ORGN TOTN CARB/ ORGC/ TOTC/ MEAN MEAN
 M MG/L MIG MG/L MGC/GMH MG/L /P04 /OP /TP P04P ORGP TOTP N/P C/P
 0 8.2 4.01 3.84 4.41 4.22 22.4 50.7
 2.5 8.2 5.30 5.83 22.6 4.9
 5 8.2 3.24 3.11 3.56 3.42 23.5 36.2 25.7 26.8
 10 8.1 3.24 3.56 24.5
 15 8.1 2.15 1.98 2.36 2.17 24.8 8.7
 20 4.3 41.5
 30 6.7 32.3
 34 8.5 66.4 32.3

AVERAGE VALUES FOR THE WATER COLUMN 0-30 M AVERAGE VALUES FOR THE WATER COLUMN BELOW 30 M
 PO4P TOTP SUMN TOTN CARB TOTC P04P TOTP SUMN TOTN CARB TOTC
 TONS
 1.8 4.1 5.5 52.5 5446 .2 .3 .6 2.4
 WATER SAMPLER THERMOMETER NO 44
 PRIMARY PRODUCTION VALUES INTEGRATED FROM CPROD AND CORPR VALUES ARE RESP: 57 AND 63 MGC/SQRMH

STATION 7 LAT: 56 22.40 LONG: 11 22.65 BOTTOM DEPTH 27 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD WAVE AIR SECCHI PROD START DURAT
 YEA MON DAY HOU MIN 73 07 24 11 05 DIR. VEL. COVER HEIGHT TEMP DEPTH HR MT HR MT
 73 07 24 12 05 73 07 24 11 05 N 2 M/S NO OBS NO OBS

DEPTH (M)	TEMP (CELS)	OXYG % SAT	A.O.U. SALT (MA/L)	PO4P (MA/L)	TOTP (MA/L)	ORGP (MA/L)	NO3N (MA/L)	NO2N (MA/L)	BOTH (MA/L)	SUMN (MA/L)	TOTN (MA/L)	ORGN (MA/L)	SIGMA	SOUNDV (M/S)	STABIL.
0	19.3	6.18	111.0	24.634	.05	.56	.10	.03			17.6	17.10	1508.1		
2.5	19.2	6.13	109.9	24.637	.49	.48	.07	.02			16.2	17.12	1508.0	5.7	
5	18.6	6.06	107.9	25.234	.04	.44	.05	.02				17.71	1507.0	238.3	
10	14.9	5.45	92.9	37.330	.250	.59	.05	.02				22.37	1501.3	932.1	
15	14.1	5.48	92.4	40.331	.119	.62	.06	.02				23.20	1500.0	164.6	
20	13.7	5.52	92.5	39.831	.419	.60	.09	.04			13.6	23.51	1499.1	62.3	
25	13.0	4.82	79.6	409.931	.647	.83						23.82	1497.1	62.9	

DEPTH (M)	OIL (MG/L)	FEN (MG/L)	ORGC (MG/L)	VEL. (PH)	CPROD (MGC/GMH)	NETPR	CORPR	NETCO	CARB (MG/L)	PO4 (MG/L)	NO3 (MG/L)	SUMN (MG/L)	TOTN (MG/L)	CARB (MG/L)	PO4P (MG/L)	ORGP (MG/L)	TOTP (MG/L)	MEAN N/P	MEAN C/P
0																			
2.5													31.4						
5													33.7						
10																			
15																			
20																			
25																			

29.2

STATION 8 LAT: 58 21.10 LONG: 11 21.35 BOTTOM DEPTH 36 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD WAVE AIR SECCHI PROD START DURAT
 YEA MON DAY HOU MIN /73 07 24 11 55 DIR. VEL. COVER HEIGHT TEMP DEPTH HR MT HR MT

DEPTH	TEMP.	OXYG	% SAT	A.O.U.	SALT	PC4P	TOTP	ORGF	NO3N	NO2N	BOTH	NH4N	SUMN	TOTN	ORGN	SIGMA	SOUNDV	STABIL.
M	CELS.	ML/L	ML/L	ML/L	ML/L	MA/L	M/L	M/S										
0	19.2	6.09	109.3		24.772	.03	.45	.42	.15	.02		.49	.7	14.4	13.8	17.23	1508.0	
2.5	19.0	6.13	109.7		24.868		.40									17.34	1507.7	43.5
5	17.8	6.10	108.1		27.015	.03	.56	.53			.1	.31	.4	21.3	20.9	19.25	1506.7	765.0
10	16.1	6.08	106.1		30.119	.06	.44	.38	.06	.02		.49	.6			22.00	1505.2	550.3
15	15.3	6.03	104.0		30.875	.05	.53	.48	.09	.01		.49	.6			22.76	1503.6	150.6
20	14.1	5.80	98.0		31.548	.11	.48	.37	.06	.03		.49	.6	18.8	18.2	23.53	1500.6	153.8
30	12.1	4.94	80.6		32.525	.53	.93	.40	1.8	.31		2.45	4.5			24.67	1495.2	114.6
34	11.6	5.20	84.1		32.898		.83									25.05	1494.0	95.3

DEPTH OIL FEN ORGC YEL. PH CFROD NETPR CORPR NETCO CARB SUMN ORGN TOTN CARB ORGC TOTCO MEAN MEAN
 M MG/L MG/L MG/L MG/L MGC/GMH MGC/GMH MGC/GMH MGC/L MGC/L

0																			
2.5																			
5																			
10																			
15																			
20																			
30																			
34																			

20.2 33.0 32.1
 12.3 39.7 36.1
 18.8
 10.9
 5.6 48.8 39.1
 6.6

36.4

STATION 9 LAT 58 18.40 LONG 11 23.50 BOTTOM DEPTH 27 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD WAVE AIR SECCHI PROD: START DURAT
 YEA MON DAY HOU MIN 73 07 24 13 05 NW 2 M/AS NO OBS DIR. VEL. COVER HEIGHT TEMP DEPTH HR MT HR MT
 73 07 24 14 05 /73 07 24 13 05

DEPTH M	TEMP CELS	OXYG % SAT	A.O.U	SALT O/00	PO4P MA/L	TOTP MA/L	ORGP MA/L	NO3N MA/L	NO2N MA/L	BOTH MA/L	SUMN MA/L	TOTN MA/L	ORGN MA/L	SIGMA M/S	SOUNDV	STABIL.
0	19.0	6.12	109.8	25.169	.03	.39	.36	.06	.06	.26	.4	21.0	20.6	17.57	1506.0	
2.5	18.9	6.10	109.0	25.136	.03	.39	.42	.07	.04	.28	.4	16.5	16.1	17.57	1507.7	
5	17.9	6.11	108.3	26.947	.03	.45	.27	.05	.03	.21	.3			19.18	1506.9	64.2
10	16.5	6.12	107.4	29.937	.06	.33	.36	.10	.03	.21	.3			21.76	1506.2	51.7
15	14.8	6.00	102.7	31.177	.06	.42	.36	.10	.03	.21	.3			23.10	1502.4	263.9
20	14.8	5.85	100.4	31.635	.10	.46	.36	.10	.04	.30	.4			23.45	1503.0	70.2
30	12.3	5.33	87.2	69.532	.589	.66				1.11				24.68	1496.0	123.7

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	VEL. RH	CPROD MGC/QMH	NETPR	CORPR	NETCO	CARB MG/L	SUMN ORGN /PO4 /QP	TOTN CARB /TP	PO4P	ORCP	TOTP	MEAN N/P	MEAN C/P
0										11.8	57.7	55.9				
2.5										12.1	38.5	36.6				
5										4.5						
10										5.3						
15										4.6						
20																
30																

* = UNSTABLE DENSITY STRATIFICATION

45.2

STATION 10 LAT: 58 17.45 LONG: 11 25.50 BOTTOM DEPTH 22 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD WAVE AIR SECCCHI PROD: START DURAT
 YEA: MON DAY HOU: MIN /73 07 24 14 10 DIR: VEL: COVER HEIGHT TEMP DEPTH HR: MT HR: MT
 73 07 24 15 10 /73 07 24 14 10 NM: 3 M/S: NO: OBS NO: OBS 7.0 M

DEPTH TEMP: OXYG % SAT A: O: U: SALT PO4P TOTP ORGP NO3N NO2N BOTH NH4N SUMM TOTN ORGN SIGMA SOUNDV STABIL.
 M: CELS: ML/L MA/L /000 MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L M/S

0	19.0	6.26	112.1	25.114	.14	.49	.35	.09	.03	.64	.8	14.6	13.8	17.53	1508.0
2.5	18.9	6.25	111.9	25.152	.58	.58	.37	.11	.02	.31	.5	14.4	13.9	17.56	1507.8
5	17.5	6.30	110.9	27.050	.02	.39	.37	.11	.02	.31	.5	14.4	13.9	19.35	1505.8
10	16.3	6.24	109.0	29.623	.10	.38	.28	.07	.02	.32	.4			21.59	1505.1
15	15.0	6.09	104.5	31.073	.13	.46	.35	.06	.02	.36	.4			22.97	1502.9
20	14.1	5.48	92.5	39.5	.16	.71	.55	.22	.06	.66	.9			23.44	1500.5

DEPTH OIL FEN ORGC VEL. PH CP PROD NETPR CORPR NETCO CARB SUNN ORGN TOTN CARB ORGC TOTOC MEAN MEAN
 M MG/L MG/L MG/L MG/L MG/L MG/GMH MG/L MG/L /PO4/ /ORP/ /TP/ PO4P ORGP TOTP N/P C/P

0							5.4	39.5	29.0								
2.5							21.0	37.6	36.9								
5							4.3										
10							4.1										
15							5.8										
20																	

STATION 11 LAT: 58 15.95 LONG: 11 22.20 BOTTOM DEPTH 40 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD WAVE AIR SECCHI PROD: START DURAT
 YEA MON DAY HOU MIN 73 07 24 07 20 DIR. VEL. COVER HEIGHT TEMP DEPTH HR MT HR MT
 73 07 24 08 20 73 07 24 07 20 N 1 M/S NO OBS 0 M 0 M 10.0 M

DEPTH M	TEMP. CELS	OXYG % SAT	A.O.U SALT MA/L	P04P MA/L	TOTP MA/L	ORGF MA/L	N03N MA/L	N02N MA/L	BOTH MA/L	NH4N MA/L	SUMN MA/L	TOTN MA/L	ORGN MA/L	SIGMA M/S	SOUNDY	STABIL.
0	18.3	6.19	109.7	25.623	.10	.40	.30	.07	.04	.19	.3	16.2	15.9	18.09	1506.3	
2.5	18.2	6.21	109.9	25.834	.46	.46								18.27	1506.3	73.6
5	17.1	6.19	109.3	29.045	.06	.51	.45	.11	.04	.42	.6	3.3	2.8	20.97	1506.8	1078.9
10	16.7	6.16	108.6	29.894	.03	.47	.44	.11	.02	.39	.5			21.70	1506.8	145.4
15	16.1	6.10	107.2	31.332	.04	.36	.32	.11	.04	.63	.8			22.93	1506.7	246.9
20	15.7	6.11	106.8	31.859	.10	.44	.34	.15	.05	.63	.8			23.43	1506.0	100.6
25	15.0	6.06	104.8	32.399		.41				.8				23.99	1504.7	111.2
30	13.9	5.93	100.4	32.698	.15	.04	2.1	.12		.79	3.0			24.46	1501.4	94.3
40	10.9	5.58	89.2	60.433	.524	.81			4.1					25.67	1492.2	121.2

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	YEL. PH	CFPROD NETPR MGC/QMH	CORPR	NETCO	CARB MG/L	SUMN ORGN /P04 /OP	TOTN /TP	CARB /P04P	ORGC /ORGP	TOTC /TOTP	MEAN N/P	MEAN C/P
0									3.0	52.3	40.4				
2.5									8.7	6.2	6.5				
5									16.3						
10									18.0						
15									8.5						
20															
25															
30															
40									20.2						23.5

STATION 12: LAY 58 15.65 LONG 11.26 70 BOTTOM DEPTH 52 M

LOCAL DATE AND TIME	GREENWICH MEAN TIME	WIND DIR.	WIND VELOCITY	CLOUD COVER	WAVE HEIGHT	AIR TEMP	SECCHI DEPTH	PRODURAT						
YEAR/MON/DAY/HR:MIN	73 07 24 16 00	73 07 24 15 00	NN	3 M/S	NO OBS	9.0 M		HR:MIN						
DEPTH TEMP	OXYG % SAT	A.O.U. SALT	TOTP	ORGP	NOBN	NOEN	BOTM	IN4N	SUMN	TOTN	ORGN	SIGKA	SOUNDV	STADIL
M	CELS	ML/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	M/S	
0	19.2	5.65	105.2	39	.2	.24	.5	20.3	19.0	17.61	1506.6		47.4	
2.5	18.9	6.20	111.0	41	.1	.36	.5	11.3	10.6	17.73	1507.0		52.2	
5	17.7	6.20	109.4	34	.1	.15	.3			19.03	1506.0		47.2	
10	16.9	6.23	110.1	40	.1	.08	.2			21.39	1507.0		240.8	
15	16.0	6.02	105.4	39	.3	.41	.7			22.64	1505.9		189.4	
20	14.9	5.91	101.8	40	.2	.61	3.4			23.58	1503.6		131.7	
25	13.5	5.57	97.6	45	.5	.77	5.6			24.25	1499.7		93.2	
30	12.0	5.60	91.2	56	.1	.72				24.72	1494.9		97.6	
40	10.2	5.39	84.0	73	.6	.72				25.09	1469.7		46.3	
50	9.0	5.22	80.2	88						26.18	1465.9			

DEPTH	OIL	FBN	ORSC	VEL	PH	CPROD	NETPR	CORFR	NETCO	CARE	SUMN	ORGN	TOTN	CARB	ORGC	TOTC	MEAN
Y	MG/L	MG	MG/L	MG/L	MG/OMH	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
0											52.1						
2.5																	
5																	
10																	
15																	
20																	
25																	
30																	
40																	
50																	

STATION 2 (FJ 62) BROFJORDEN LAT: N 58 21.60 LONG: E 11 25.70 BOTTOM DEPTH: 22 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD AIR SECCHI PROD: START DURAT
 YEA/MON DAY HOU MIN DIR. VEL. HEIGHT TEMP DEPTH HR MT HR MT
 73 08 08 11 35 73 08 08 10 35 WNW 12 M/S 2/8 0.1-0.5 M 7.0 M 11 35 4 0

DEPTH TEMP. OXYG % SAT A.O.U. SALT P04P TOTP ORGP NO3N NO2N BOTH NH4N SUMN TOTN ORGN SIGMA SOUNDV STABIL.
 M CELS. ML/L MA/L 0/00 MA/L M/S
 0 18.2 5.98 105.4 25.128 .00 .74 .74 .31 .07 26.0 17.73 1505.5
 2.5 18.2 5.91 104.3 25.093 .03 .73 .33 .03 17.70* 1505.5 -10.7
 5 18.2 6.11 107.7 25.096 .03 .54 .51 .30 .03 20.5 17.71 1505.6
 10 17.9 5.80 102.4 26.314 .00 .52 .52 .35 .04 18.70 1506.2 198.8
 15 17.4 5.85 103.2 27.541 .03 .51 .48 .29 .05 19.74 1506.3 207.1
 20 4.8 5.24 72.2 180.332.047 .31 .82 .51 .99 .21 .80 20.6 18.6 25.38 1466.6 1128.8
 22 5.3 5.38 74.9 160.432.232 .28 .87 .59 1.00 .15 1.17 2.3 25.7 23.4 25.48 1468.7 48.1

DEPTH OIL FEN ORGC VEL. RH CPROD NETPR CORR NETCO CARB SUMN ORGN TOTN CARB/ ORGC/ TOTC/ MEAN MEAN
 M MG/L MFG MG/L MGC/QMH MGC/L /P04 /OP /TP P04P ORGP TOTP N/P C/P
 0 8.1 15.1 14.9 16.6 16.4 22.9 35.2
 2.5 8.1 10.3 11.4 22.9
 5 8.1 8.63 8.47 9.50 9.31 22.9 38.0
 10 8.1 2.16 2.38 23.2
 15 8.0 .40 .30 .44 .33 24.0
 20 6.5 36.3 25.1
 22 8.4 39.4 29.6 32.0

* = UNSTABLE DENSITY STRATIFICATION WATER SAMPLER THERMOMETER NO 44
 PRIMARY PRODUCTION VALUES INTEGRATED FROM CPROD AND CORPR VALUES ARE RESP. 90 AND 99 MGC/SORMH

STATION 5 (FU 63) MALMÖDRAG LAT: N 58 19.10 LONG: E 11 21.70 BOTTOM DEPTH 36 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD WAVE AIR SECHCHI PROD: START DURAT
 YEA MON DAY HOU MIN DIR. VEL. COVER HEIGHT TEMP DEPTH HR MT HR MT
 73 08 08 14 05 /73 08 08 13 05 MSW 13 M/S 3 /8 1.2 2.5 M 10 50 4 5

DEPTH M	TEMP CELS	OXYG % SAT	A.O.U. SALT MA/L	PO4P MA/L	NO3N MA/L	NO2N MA/L	BOTHIN MA/L	SUMN MA/L	TOTN MA/L	ORGN MA/L	SIGMA M/L	SOUNDV M/S	STABIL.
0	18.2	6.08	107.4	.68	.27	.04		19.0		17.93	1505.8		
2.5	18.2	6.06	107.1	.52	.23	.03				17.91*	1505.8	-9.9	
5	18.2	6.13	108.2	.65	.26	.03	.03	3.21	4.21	17.93	1505.9	9.3	
10	17.6	5.93	104.8	.53	.27	.05	.26	.6		19.48	1506.5	310.2	
15	16.0	5.53	96.9	.53	.44	.10	.28	1.8	16.6	23.10	1506.5	724.2	
20	6.0	5.79	82.1	.58	.45	.08	.35	.8	17.7	25.43	1471.6	464.9	
30	5.3	5.69	79.7	.59	.49	.12	.38	1.2	29.9	25.97	1469.7	54.5	
33	5.4	5.70	80.0	.72	.57	.09	.41	1.2	28.7	25.94*	1470.3	-9.9	

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	VEL. PH	CPROD MGC/QMH	NETPR	CORPR	NETCO	CARB MG/L	SUMN /PO4	ORGN /OP	TOTN /TP	CARB/ ORGP	ORGC/ TOTP	MEAN N/P	MEAN C/P
0						3.04	3.47	3.34	22.5	28.0						
2.5						6.42	7.06	7.06	22.5							
5						3.63	3.44	3.78	22.5	32.9						
10						1.43	1.57	1.57	23.5	26.2						
15						.61	.67	.61	25.2	11.8						
20									39.6	32.0						31.0
30									50.7	41.5						41.5
33																

AVERAGE VALUES FOR THE WATER COLUMN 0-30 M AVERAGE VALUES FOR THE WATER COLUMN BELOW 30 M

PO4P TONS	TOTP TONS	CARB TONS	SUMN TONS	TOTN TONS	CARB TONS	TOTC TONS	MEAN N/P	MEAN C/P
0.9	4.5	3.2	70.2	53.6	4.2	4.2		

UNSTABLE DENSITY STRATIFICATION WATER SAMPLER THERMOMETER NO. 44
 PRIMARY PRODUCTION VALUES INTEGRATED FROM CPROD AND CORPR VALUES ARE RESP. 44 AND 48 MGC/SQRMH

STATION 1 INRE BROFJORDEN LAT: N 58 22.50 LONG: E 11 26.30 BOTTOM DEPTH: 18 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD WAVE AIR SECCHI PROD: START DURAT
 73 08 23 08 25 73 08 23 07 25 DIR. VEL. COVER COVER HEIGHT TEMP HR MT HR MT
 73 08 23 08 25 73 08 23 07 25 NNE 2 M/S 2/8 0.1 M 13.0 C

DEPTH	TEMP.	OXYG %	SAT	A.O.U	SALT	PO4P	NO2N	NO3N	BOTH	NH4N	SUMN	TOTN	ORGN	SIGMA	SOUNDV	STABIL.
M	CELS.	ML/L	ML/L	ML/L	ML/L	ML/L	ML/L	ML/L	ML/L	ML/L	ML/L	ML/L	MA/L	MA/L	M/S	
0	17.0	6.37	109.3		24.419	.06	.55	.49					17.46	1501.1		
2.5	17.0	6.35	109.0		24.414	.06	.54	.48					17.45*	1501.2		4.2
5	17.1	5.83	103.0		29.060	.11	.54	.43					20.98	1506.9		1412.4
10	15.9	4.96	87.1		65.9	.31	.677	.41					23.24	1506.5		451.8
15	15.8	4.43	77.6		114.1	.31	.853	.38					23.40	1506.4		33.2
17	15.6	4.69	82.0		91.7	.32	.116	.60					23.64	1506.2		118.4

DEPTH	OIL	FEN	ORGC	YEL.	PH	CPROD	NETPR	CORPR	NETCO	CARB	SUMN	ORGN	TOTN	CARB	ORGC	TOTC	MEAN
M	MG/L	MG/L	MG/L	MG/L	MG/GMH	MG/GMH	MG/L	MG/L	MG/L	MG/L	PO4	POP	PO4P	PO4P	ORGP	TOTP	N/P
0					8.4					21.4							
2.5					8.4					21.4							
5					8.3					23.1							
10					8.2					24.2							8065
15					8.2					24.5							4854
17					8.2					24.6							6016

UNSTABLE DENSITY STRATIFICATION
 NOTE: DATA OBTAINED BY U/F SKAGERAK

STATION 2 (FU 62) BROFJORDEN

LAT: N 58 21.60 LONG: E 11 25.70

BOTTOM DEPTH: 22 M

LOCAL DATE AND TIME: 73 08 23 09 05
 YEAR/MON/DAY/HOU/MIN
 GREENWICH MEAN TIME: 73 08 23 08 05
 WIND WIND DIR. WIND VEL. WIND WIND DIR. WIND VEL. WIND WIND DIR. WIND VEL.
 WAVE HEIGHT: 0.1 M
 AIR TEMP: 14.0 C
 SECCHI PROD: START DURAT
 DEPTH HR:MT:HR:MT

DEPTH TEMP: CELS: ML/L
 OXYG % SAT
 A.O.U. SALT
 MA/L
 NO3N MA/L
 NO2N MA/L
 BOTH MA/L
 NH4N MA/L
 SUMN MA/L
 TOTN MA/L
 ORGN MA/L
 SIGMA SOUNDY STABIL.
 M/S

0	17.2	6.47	111.6	24.516	.06	.57	.51	17.48	1501.9
2.5	17.1	6.45	111.0	24.532	.05	.50	.45	17.52	1501.6
5	17.6	6.19	109.5	27.571	.06	.50	.44	19.73	1506.6
10	16.0	5.16	90.6	47.631	.687	.33	.19	23.23	1506.6
15	15.5	4.75	83.0	87.032	.198	.33	.30	23.72	1506.0
20	15.2	4.71	81.9	92.732	.621	.48	.24	24.12	1505.5
23	15.1	4.49	78.1	112.732	.731	.50	.34	24.22	1505.5

DEPTH: M
 OIL: MG/L
 FEN: MG/L
 ORGC: MG/L
 YEL: PH
 CPROD: MGC/GMH
 NETPR: MGC/GMH
 CORPR: MGC/GMH
 INETCO: MGC/L
 CARB: MGC/L
 SUMN ORGN: MGC/L
 TOTN: MGC/L
 CARB: MGC/L
 ORGC: MGC/L
 TOTC: MGC/L
 MEAN: MGC/L
 MEAN: MGC/L
 C/P: MGC/L

0	8.4	8.4	8.3	8.2	8.2	8.2	8.2	21.4	6082
2.5	8.4	8.3	8.2	8.2	8.2	8.2	8.2	21.4	6178
5	8.3	8.2	8.2	8.2	8.2	8.2	8.2	22.5	4270
10	8.2	8.2	8.2	8.2	8.2	8.2	8.2	24.1	4123
15	8.2	8.2	8.2	8.2	8.2	8.2	8.2	24.5	
20	8.2	8.2	8.2	8.2	8.2	8.2	8.2	24.6	
23	8.2	8.2	8.2	8.2	8.2	8.2	8.2	24.8	

NOTE: DATA OBTAINED BY U/F/SKAGERAK

STATION 5 (FU 63) MALIMDRAG LAT: N 58 19.10 LONG: E 11 21.70 BOTTOM DEPTH 36 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND WAVE AIR SECCHI PROD: START DURAT
 YEA MON DAY HOU MIN DIR. VEL. COVER HEIGHT TEMP HR MT HR MT
 73 08 23 07 35 / 73 08 23 06 35 NNE 2 M/S 2 / 8 0 = 0.1 M 13.0 C

DEPTH M	TEMP. CELS.	OXYG % SAT	A.O.U.	SALT MA/L	NO2N MA/L	NO3N MA/L	NO4N MA/L	SUMN MA/L	TOTN MA/L	ORGN MA/L	SIGMA M/L	SOUNDV M/S	STABIL.
0	16.7	6.45	110.7	25.406	.07	.50	.43				18.27	1501.3	
5	17.1	6.35	112.5	29.332	.09	.43	.34				21.17	1507.3	579.8
10	16.1	5.81	102.4	31.728	.13	.45	.32				23.23	1507.1	412.4
15	15.7	5.26	92.2	39.632	.19	.53	.34				23.71	1506.6	95.2
20	15.2	5.09	88.7	57.732	.27	.58	.31				24.25	1505.9	108.0
30	14.6	4.84	83.6	84.733	.41	.74	.33				24.93	1504.8	67.5
35	14.5	4.86	83.9	83.433	.40	.81	.41				24.94	1504.7	2.4

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	YEL. RH	CRD NETPR MGC/QMH	CORPR NETCO	CARB MG/L	SUMN /P04 /OP	TOTN /TP	CARB /P04P	ORGC /ORGP	TOTC /TOTP	MEAN N/P	MEAN C/P
0				8.4			21.7							
5				8.3			23.0							
10				8.3			23.9							
15				8.2			24.3							
20				8.2			24.4						7535	
30				8.2			24.8						5042	
35				8.2			24.8						5169	

AVERAGE VALUES FOR THE WATER COLUMN 0-30 M AVERAGE VALUES FOR THE WATER COLUMN BELOW 30 M

P04P TONS	TOTP TONS	SUMN TONS	CARB TONS	TOTC TONS
1.6	4.3	0.1	0.3	2.48

STATION 3 STRETUDDEN LAT: N 56 20.55 LONG: E 11 24.15 BOTTOM DEPTH 48 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND DIR. WIND VEL. WAVE HEIGHT AIR TEMP. SECCHI PROD. START DURAT
 YEA MON DAY HOUR MIN 73 08 28 12 00 SSW 3 M/S 7/8 0 0.1 M 17.5 C 8.0 M HR MT HR MT

DEPTH (M)	TEMP. (CELS)	OXYG %	SAT (ML/L)	A.O.U.	SALT (MA/L)	PO4P (MA/L)	TOTP (MA/L)	ORGP (MA/L)	NO3N (MA/L)	NO2N (MA/L)	BOTH (MA/L)	NH4N (MA/L)	SUMN (MA/L)	TOTN (MA/L)	ORGN (MA/L)	SIGMA	SOUNDV (M/S)
0	16.7	6.40	110.9		27.000	.11	.46	.35	.35	.02		.23	.6	9.2	8.6	19.49	1503.2
5	16.4	6.37	110.1		27.699	.07	.57	.50	.12	.03		.28	.4			20.09	1503.1
10	16.4	6.49	112.6		28.031	.02	.47	.45	.30	.02		.34	.7	10.8	10.1	20.34	1503.6
15	16.4	6.36	110.6		28.496	.09	.59	.50	.15	.03		.24	.4			20.70	1504.3
20	16.4	5.64	99.6	2.0	31.159	.12	.52	.40	.33	.02		.50	.8	10.8	10.0	22.73	1507.5
30	15.0	4.40	76.5	120.5	33.029	.42	.65	.23	.97	.40		1.77	3.1			24.47	1505.6
40	14.3	3.96	68.1	165.5	33.815	.76	1.12	.36	1.5	.40		4.34	6.2			25.23	1504.5
48	14.2	3.48	59.8	208.7	33.862	.97	1.50	.53	2.2	.43		5.49	8.2	12.4	4.3	25.28	1504.3

DEPTH (M)	OIL (MG/L)	FEN (MG/L)	ORGC (MG/L)	VEL. (PH)	PH	CPROD (MGC/QMH)	NETPR	CORPR	NETCO (MG/L)	CARB (MG/L)	SUMN (MG/L)	ORGN (MG/L)	TOTN (MG/L)	CARB (MG/L)	PO4P (MG/L)	ORGP (MG/L)	TOTP (MG/L)	MEAN (MG/L)
0											5.3	24.7	20.0					
5											5.8							
10											26.5	22.8	23.0					
15											4.8							
20											6.8	25.2	20.8					
30											7.4							21.3
40											8.2							
48											8.4	8.1	8.3					8.3

WATER SAMPLER THERMOMETER NO 44

STATION 4 YTTRE BROFJORDEN LAT: N 58 19.90 LONG: E 11 23.10 BOTTOM DEPTH 34 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND WAVE AIR SECCHI PROD: START DURAT
 YEA MON DAY HOU MIN DIR. VEL. HEIGHT TEMP DEPTH HR MT HR MT
 73 08 28 15 10 /73 08 26 14 10 S 1 M/S 0 → 0.1 M 19.0 C 8.2 M

DEPTH M	TEMP. CELS.	OXYG % SAT	A.O.U. SALT MA/L	0/00 MA/L	NO3N MA/L	NO2N MA/L	BOTH MA/L	NH4N MA/L	SUMN MA/L	TOTN MA/L	ORGN MA/L	SIGMA M/S	SOUNDV	STABIL.	
0	16.7	6.36	110.3	27.091	.11	.44	.33	.22	.07	.46	.8	7.4	6.7	19.56	1503.3
5	16.4	6.44	111.5	27.818	.05	.53	.48	.09	.05	.35	.5	20.18	5.7	20.18	1503.3
10	16.4	6.29	109.0	27.949	.16	.49	.33	.19	.07	.41	.7	6.3	5.7	20.28	1503.5
15	16.4	6.37	110.9	28.808	.05	.41	.36	.09	.06	.43	.6	6.9	6.3	20.94	1504.6
20	16.6	6.13	108.2	30.450	.11	.47	.36	.17	.06	.32	.6	6.3	6.3	22.15	1507.3
30	15.1	4.39	76.4	121.3	32.815	.41	.75	.34	.36	1.22	2.5	12.6	9.9	24.29	1505.6
33	15.2	4.48	78.1	112.5	32.818	.41	.76	.35	.33	1.43	2.7	12.6	9.9	24.28*	1505.9

DEPTH M	OIL MG/L	PEN MG/L	ORGC MG/L	VEL. PH	CPROD MGC/QMH	NETPR	CORPR	NETCO	CARB MG/L	SUMN /PO4	ORGN /OP	TOTN /TP	CARB/PO4P	ORGC/ ORGP	TOTC/ TOTP	MEAN N/P	MEAN C/P
0										6.7	20.3	16.9					
5										9.9							
10										4.1	17.3	12.9					
15										11.9							
20										5.0	17.7	14.6					14.8
30										6.0							16.5
33										6.6	28.2	16.5					

* = UNSTABLE DENSITY STRATIFICATION WATER SAMPLER THERMOMETER NO 44

STATION 5 (FJ 63) MALMÖDRAG LAT: N 58 19.10 LONG: E 11 21.70 BOTTOM DEPTH 36 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND WAVE AIR SECOND PROD: START DURAT
 YEA MON DAY HOU MIN DIR. VEL. COVER HEIGHT TEMP HR MT HR MT
 73 08 28 10 22 73 08 28 09 22 SSW 4 M/S 7 / 8 0 0.1 M 17.0 C 11 15 4 0

DEPTH M	TEMP CELS	OXYG % SAT	A.O.U SALT MA/L	0/00 MA/L	P04P MA/L	T0TP MA/L	ORGP MA/L	N03N MA/L	N02N MA/L	BOTH MA/L	NH4N MA/L	SUMN MA/L	TOTN MA/L	ORGN MA/L	SIGMA MA/L	SOUNDV M/S	STABIL.
0	16.5	6.42	111.1	27.610	.05	.47	.42	.28	.05	1.77	2.1	11.6	9.5	20.00	1503.3		
2.5	16.4	6.46	111.8	27.649	.06	.39	.33	.11	.05	.39	.6			20.05	1503.0		20.7
5	16.3	6.39	110.3	27.799	.07	.68	.61		.02	.30		9.3		20.19	1503.0		54.5
10	16.3	6.32	109.3	27.920	.05	.56	.51	.14	.04	.74	.9			20.28	1503.2		18.4
15	16.4	6.33	110.1	28.693	.10	.40	.30	.31	.03	1.77	2.1			20.85	1504.5		113.7
20	16.3	5.76	101.7	31.641	.14	.42	.28	.22	.00	.53	.8	16.1	15.3	23.12	1507.8		455.1
30	15.0	4.72	82.0	32.934	.36	.64	.28	.83	.33	1.47	2.6			24.40	1505.5		127.5
34	15.0	4.60	79.9	33.028	.30	.64	.34	.2	.08	2.04	4.3	16.4	12.1	24.47	1505.7		18.1

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	PH	CPROD MGC/QMH	NETPR MGC/QMH	CORPR	NETCO	CARB MG/L	/P04	/QP	TOTN /TP	CARB P04P	ORGP	TOTC/ TOTP	MEAN N/P	MEAN C/P
0	8.1	5.74	5.66	6.32	6.32	23.7	42.2	22.5	24.6								
2.5	8.1	5.04	5.55	23.7	8.9												25.5
5	8.1	4.64	4.40	4.84	23.7	13.7											25.6
10	8.1	2.59	2.85	23.8	18.6												
15	8.1	1.01	.87	.95	24.0	21.2	5.5	54.1	38.2								
20							7.3										
30							14.3	35.5	25.6								
34																	

AVERAGE VALUES FOR THE WATER COLUMN 0-30 M AVERAGE VALUES FOR THE WATER COLUMN BELOW 30 M

P04P TONS	T0TP TONS	SUMN TONS	TOTN TONS	CARB TONS	TOTC TONS
.9	4.1	30.8	149.9	5480	

WATER SAMPLER THERMOMETER NO 44
 PRIMARY PRODUCTION VALUES INTEGRATED FROM CPROD AND CORPR VALUES ARE RESP. 55 AND 61 MGC/SQRMH

STATION 6 DYNABROTT LAT: N 58 17.70 LONG: E 11 18.85 BOTTOM DEPTH 96 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD WAVE AIR SECCHI PROD: START DURAT
 YEA MON DAY HOU MIN IGRN WICH TIME DIR. VEL. COVER HEIGHT TEMP DEPTH HR MT HR MT
 73 08 28 10 45 73 08 28 09 45 SW 3 M/S NO OBS NO OBS 10.0 M 10.0 M

DEPTH M	TEMP. CELS.	OXYG. ML/L	% SAT	A.O.U.	SALT O/O	PO4P MA/L	TOTP MA/L	ORGP MA/L	NO3N MA/L	NO2N MA/L	BOTH MA/L	NH4N MA/L	SUMN MA/L	TOTN MA/L	ORGN MA/L	SIGMA M/L	SOUNDV M/S	STABIL.
0	16.4	6.64	114.8			27.586	.11	.49	.38	.30	.02	.00	.3	5.2	4.9	20.00	1502.9	
2.5	16.5	6.54	113.2			27.548		.42								19.95*	1503.3	-20.4
5	16.4	6.69	115.6			27.604		.57	.19	.01		.01	.2	8.2	8.0	20.02	1503.0	25.7
10	16.4	6.46	111.9			27.841	.11	.42	.31	.26	.02	.03	.3			20.20	1503.4	36.2
15	16.4	6.08	105.5			28.171	.17	.45	.28	.23	.02	.03	.3			20.45	1503.9	50.4
20	16.1	5.40	95.1			24.6	.17	.50	.33	.35	.03	.38	.8	7.0	6.2	23.21	1507.3	552.3
30	15.3	4.99	87.1			65.8	.19	.57	.38	.75	.35	.76	1.9			24.35	1506.4	114.2
40	14.6	4.65	80.5			100.6	.39	.59	.20	.83	.30					25.10	1505.3	74.4
60	11.8	5.11	83.9			87.4	.34	.632	.20			1.66	2.8			26.36	1497.3	63.2
80	11.8	5.12	84.1			86.4	.34	.663								26.38	1497.7	1.2
90	11.7	5.07	83.1			91.9	.34	.664	1.4	.00		3.23	4.6			26.40	1497.5	2.0

DEPTH M	OIL MG/L	FEN MG/L	ORGC	VEL.	RH	CPROD MGC/QMH	NETFR	CORRR	NETCO	CARB MG/L	SUMN /PO4	ORGN /OP	TOTN /TP	CARB /PO4P	ORGC /ORGP	TOTC /TOTP	MEAN N/P	MEAN C/P
0											2.9	12.9	10.6					
2.5																		
5																		
10																		
15																		
20																		
30																		
40																		
60																		
80																		
90																		

* = UNSTABLE DENSITY STRATIFICATION

STATION 6 LAT 58 21.10 LONG 11 21.35 BOTTOM DEPTH 36 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD WAVE AIR SECCHI PROD: START DURAT
 YEA MON DAY HOUR MIN /73 06 28 12 25 DIR. VEL. COVER HEIGHT TEMP DEPTH HR MT HR MT
 73 08 28 13 25 SW 2 M/S NO OBS NO OBS

DEPTH M	TEMP	OXYG % SAT	A.O.U	SALT	PO4P	TOTP	ORGP	NO3N	NO2N	BOTH	IN4N	SUMN	TOTN	ORGN	SIGMA	SOUNDV	STABIL
	CELS	MLYL	MA/L	0/00	MA/L	M/S											
0	16.7	6.39	110.9	27.377	.11	.42	.31	.22	.02	.14	.4	.92	16.9	19.78	1503.6		
2.5	16.7	6.36	110.4	27.373	.11	.65	.35	.14	.02	.15	.3	8.8	18.5	19.77*	1503.7		-1.2
5	16.6	6.32	109.6	27.394	.10	.58	.48	.26	.02	.00	.0	10.6	10.6	20.25	1503.4		15.2
10	16.7	6.46	112.6	28.004	.10	.37	.27	.20	.01	.00	.0	10.6	10.6	21.19	1504.5		80.5
15	16.5	6.36	111.2	29.164	.12	.49	.37	.32	.00	.00	.3	10.9	10.6	22.40	1505.4		186.2
20	16.7	6.40	113.6	30.615	.76	.95	.30	.30	.12	.49	.3	10.9	10.6	24.06	1508.1		243.1
30	15.1	3.64	63.2	32.518										24.85	1505.2		165.9
35	14.6			33.463										24.85	1505.5		158.2

DEPTH M	OIL	FEN	ORGC	VEL	PH	CFPROD	NETPR	CORFR	NETCO	CARB	SUMN	ORGN	TOTN	CARS	ORGO	TOTCO	MEAN	MEAN
	MG/L	MG/L	MG/L	MG/L	MG/GMH	MG/L	MG/L	MG/L	MG/L	MG/L	PO4	PO4	PO4P	PO4P	ORGP	TOTP	N/P	C/P
0											3.4	28.8	22.0					
2.5											2.8	24.5	19.2					
5											2.6	29.1	22.3					
10											1.2							21.2
15																		
20																		
30																		
35																		

* UNSTABLE DENSITY STRATIFICATION

STATION 10 LAT 156 17.45 LONG 111 25.50 BOTTOM DEPTH 22 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD WAVE AIR SECCHI PROD: START DURAT
 YEA MON DAY HOU MIN /73 08 28 14 30 DIR. VEL. COVER HEIGHT TEMP DEPTH HR MT HR MT
 73 08 28 15 30 /73 08 28 14 30 SW 3 M/S NO OBS NO OBS NO OBS 9.5 M

DEPTH	TEMP	OXYG	% SAT	A.O.U	SALT	PO4P	TOTP	ORGP	NO3N	NO2N	BOTH	NH4N	SUMN	TOTN	ORGN	SIGMA	SOUNDV	STABIL
M	CELS	ML/L	ML/L	ML/L	ML/L	ML/L	ML/L	ML/L	ML/L	ML/L	ML/L	ML/L	ML/L	ML/L	ML/L	M/L	M/S	
0	16.7	6.50	112.9	27.344	.12	.72	.60	.00	.26	.00	.08	.03	8.0	7.7	19.75	1503.6		
2.5	16.7	6.53	113.3	27.340	.19	.56	.37	.14	.01	.09	.02	.2	7.6	7.3	19.75	1503.6		-1.3
5	16.7	6.54	113.5	27.372	.05	.45	.40	.16	.02	.00	.00	.2			19.77	1503.7		9.7
10	16.5	6.47	112.1	27.569	.10	.44	.34	.15	.02						19.97	1503.4		38.9
15	16.6	6.30	109.8	28.222	.17	.51	.34	.23	.04						20.44	1504.6		95.3
20	16.3	5.75	101.0	30.527	.17	.51	.34	.23	.04						22.27	1506.5		365.4

DEPTH	OIL	FEN	ORGC	VEL	PH	CRUD	NETPR	CORPR	NETCO	CARB	SUMN	ORGN	TOTN	CARB	ORGC	TOTC	MEAN
M	MG/L	MG	MG/L	MG/L	MG/GMH	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
0																	
2.5											2.7	12.9	11.1				
5											1.3	19.6	13.5				
10																	
15																	
20																	

* UNSTABLE DENSITY STRATIFICATION

12.0

11.5

STATION 12

LAT: 58 15.65 LONG: 11 26.70

BOTTOM DEPTH 52 M

LOCAL DATE AND TIME YEA MON DAY HOU MIN	73 08 28 16 20	73 08 28 15 20	73 08 28 15 20	GREENWICH MEAN TIME	WIND DIR. VEL. W	WIND WIND 4 M/S	CLOUD COVER NO OBS	WAVE HEIGHT NO OBS	AIR TEMP	SECCHI DEPTH	PROD: START HR MT	DURAT HR MT		
DEPTH TEMP. CELS. ML/L	0 16.6 6.53 113.1	27.309	.06	.54	.48	.22	.03	.00	.00	.3	10.7	10.4	19.75	1503.2
2.5 16.6 6.47 112.1	27.307	.01	.64	.73	.72	.13	.00	.00	.00	.3	10.7	10.4	19.75	1503.3
5 16.6 6.47 112.2	27.311	.06	.62	.62	.56	.16	.01	.22	.4	.4	5.8	5.8	19.75	1503.3
10 16.6 6.59 114.1	27.328	.05	.62	.62	.57	.18	.00	.00	.00	.4	5.8	5.8	19.76	1503.4
15 16.4 6.29 109.5	28.578	.01	.57	.57	.56	.20	.03	.43	.7	.7	6.9	6.9	20.76	1504.4
20 16.0 5.69 99.8	31.308	.24	.43	1.19	1.19	1.7	.46	.42	2.6	2.6	6.2	6.2	22.94	1506.5
30 14.6 4.90 84.4	32.850	.26	.75	.49	1.8	1.8	.43	1.23	3.5	3.5	24.42	24.42	1504.0	148.7
40 14.0 4.76 81.2	33.467	.88	1.32	.44	9.4	9.4	.19	.00	9.6	9.6	25.02	25.02	1503.0	60.1
50 9.3 4.12 63.6	210.633	.88	1.32	.44	9.4	9.4	.19	.00	9.6	9.6	25.91	25.91	1486.7	89.1

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	VEL. RH	CPROD NETPR MGC/GMH	CORPR NETCO	CARB MG/L	SUMN ORGN /P04	TOTN /YP	CARB /P04P	ORGC /ORGP	TOTC/ TOTP	MEAN N/P	MEAN C/P
0								4.1	21.9	19.8				
2.5														
5								6.3	7.9					
10														
15														
20								53.0	11.2	12.1				13.3
30								11.1						
40								13.4						
50								10.8						

* = UNSTABLE DENSITY STRATIFICATION

STATION 1 INRE BROFJORDEN LAT: N 58 22.50 LONG: E 11 26.30 BOTTOM DEPTH: 18 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD WAVE AIR SECCHI PROD: START DURAT
 YEA MON DAY HOU MIN DIR. VEL. COVER HEIGHT TEMP DEPTH HR MT HR MT

73 09 11 12 25 73 09 11 11 25 E 2 M/S 6/8 0 M
 DEPTH TEMP. OXYG % SAT A.O.U SALT P04P TOTP ORGP NO3N NO2N BOTH NH4N SUMN TOTN ORGN SIGMA SOUNDV STABIL.
 M CELS ML/L MA/L 0/00 MA/L M/S

0 14.9 6.19 103.8 27.600 .20 .60 .40 .37 .02 .74 1.1 16.1 15.0 20.33 1498.2
 2.5 15.8 5.92 102.8 30.324 .14 .63 .49 .09 .01 .76 .9 22.23 1504.4 758.8
 5 15.7 5.60 97.5 12.9 31.030 .10 1.05 .95 .06 .02 .27 .3 35.0 34.7 22.79 1504.9 224.8
 10 15.5 4.57 79.7 104.1 31.891 .22 .52 .30 .14 .07 .63 .8 23.49 1505.4 140.5
 15 15.2 4.27 74.2 132.6 32.354 .52 .90 .38 .87 .38 2.18 3.4 30.4 27.0 23.91 1505.1 84.1
 18 15.1 4.22 73.2 138.0 32.466 .56 .99 .43 1.1 .41 2.11 3.6 24.1 20.5 24.02 1505.0 35.9

DEPTH OIL FEN ORGC VEL. PH CPD NETPR CORPR NETCO CARB SUMN ORGN TOTN CARB/ ORGC/ TOTC/ MEAN MEAN
 M MG/L MIC MG/L
 0 < .05 .55
 2.5 .41
 5 .64
 10 .46
 15 .41
 18 .51
 5.7 37.3 26.9
 6.2
 3.3 36.7 33.4
 3.8
 6.5 71.7 33.8
 6.5 47.4 24.3 29.6

WATER SAMPLER THERMOMETER NO 144

STATION 2 (FJ 62) BROFJORDEN LAT: N 58 21.60 LONG: E 11 25.70 BOTTOM DEPTH: 22 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND WAVE AIR SECCHI PROD: START DURAT
 YEAR/MON DAY HOU MIN DIR. VEL. HEIGHT TEMPERATURE DEPTH HR MT HR MT
 73 09 11 11 10 73 09 11 10 10 0 M/S 0 M 11 25 4 0

DEPTH M	TEMP. CELS.	OXYG % ML/L	SAT %	A.O.U. MA/L	SALT 0/00	P04P MA/L	TOTP MA/L	ORGP MA/L	NO3N MA/L	NO2N MA/L	BOTH MA/L	NH4N MA/L	SUMN MA/L	TOTN MA/L	ORGN MA/L	SIGMA M/S	SOUNDV M/S	STABIL.
0	14.9				27.759	.10	.50	.40	.04	.06	.50	.6	22.3	21.7	20.45	1498.4		
2.5	15.5	5.98	102.8		29.732	.22	.61	.39	.08	.02	.95	1.1			21.84	1502.7	554.5	
5	15.7	5.34	92.9	36.6	30.859	.14	.63	.49	.06	.02	1.24	1.3	22.5	21.2	22.66	1504.7	328.1	
10	15.4	4.64	80.8	98.7	31.917	.22	.60	.38	.22	.10	.92	1.2			23.53	1505.2	175.1	
15	15.2	4.83	83.9	82.8	32.261	.24	.60	.36	.66	.26	1.19	2.1			23.84	1505.0	61.4	
20	14.1	4.57	78.0	115.1	33.061	.53	.80	.27	1.8	.47	1.47	3.7	35.3	31.6	24.69	1502.5	169.6	
22	14.2	4.69	80.2	103.5	33.046	.50	.80	.30	2.5	.41	1.48	4.4	30.8	26.4	24.65*	1502.9	16.2	

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	VEL. PH	CPROD MGC/QMH	NETPR MGC/QMH	CORPR MGC/QMH	NETCO MGC/L	CARB MG/L	SUMN /P04	ORGN /OP	TOTN /TP	CARB/ P04P	ORGC/ ORGP	TOTC/ TOTP	MEAN N/P	MEAN C/P
0	<.05			.97	8.2	4.66	4.45	5.13	4.90	23.3	5.7	54.8	44.5				
2.5	<.05			.55	8.2	6.18	6.79	6.79	23.8	4.8				18979			
5	<.05			.32	8.1	8.17	7.95	8.99	8.75	24.6	9.5	43.2	35.7				
10				.28	8.1	1.24		1.37	24.9	5.6				9393			
15				.41	8.0	.22	.15	.24	.17	25.5	8.7			8692			
20				.18					6.9	44.2							
22				.32					8.8	88.1	38.5						40.7

* UNSTABLE DENSITY STRATIFICATION WATER SAMPLER THERMOMETER NO 44
 PRIMARY PRODUCTION VALUES INTEGRATED FROM CPROD AND CORPR VALUES ARE RESP: 59 AND 65 MGC/SQRMH

STATION 3 STRETUDDEN LAT: N 58 20.55 LONG: E 11 24.15 BOTTOM DEPTH 48 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND WAVE AIR SECCHI PROD: START DURAT
 YEA MON DAY HOU MIN DIR. VEL. HEIGHT TEMP HR MT HR MT
 73 09 11 14 00 73 09 11 13 00 WNW 2 M/S 0 -0.1 M

DEPTH M	TEMP. CELS.	OXYG % SAT	A.O.U. SALT	MA/L	0/00	MA/L	PO4P	TOTP	MA/L	ORGP	MA/L	N03N	MA/L	N02N	MA/L	BOTH	NH4N	SUMN	TOTN	MA/L	ORGN	SIGMA	SOUNDV	STABIL.	M/S	
0	14.7	6.30	105.7	28.156	.08	.60	.52	.05	.04	.51	.6	19.1	18.5	20.80	1498.2											
5	15.5	5.85	101.3	30.714	.19	.05	.33	.06	.06	.31	.4	22.59	1503.9	358.7												
10	15.6	5.38	93.7	32.531	.408	.45	.27	.47	.23	1.20	1.3	21.8	20.5	23.10	1505.2											
15	15.2	4.93	85.6	74.032	.192	.58	.27	1.2	.32	1.59	2.3	23.79	1505.0	137.4												
20	14.4	4.87	83.5	86.232	.805	.68	.27	1.2	.46	1.17	2.7	21.0	18.3	24.43	1503.2											
30	13.5	4.71	79.5	108.233	.438	.81	.25	1.5	.48	.87	1.5	25.10	1501.2	67.3												
40	13.5	4.75	80.1	105.133	.443	.82	.29	2.5	.48	.83	1.6	25.11	1501.2	1.4												
46	13.3	4.69	78.9	111.833	.513	1.11	.61	2.4	.45	1.06	3.9	21.0	17.2	25.20	1500.9											

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	VEL.	PH	CPROD	NETPR	CORPR	NETCO	CARB	MG/L	SUMN	ORGN	TOTN	CARB	ORGC	TOTC	MEAN	MEAN	N/P	C/P	
0	.10			.69								7.2	35.7	31.8								
5				.46								2.1										
10				.55								11.2	61.5	48.5								
15				.55								7.3										
20				.46								6.7	67.1	30.9								
30				.32								2.6										
40				.32								2.9										
46				.28								7.8	28.1	19.0								

WATER SAMPLER THERMOMETER NO 44

STATION 4 YTTRE BROFJORDEN LAT: N 58 19.90 LONG: E 11 23.10 BOTTOM DEPTH 34 M

LOCAL DATE AND TIME: 73 09 11 13 50 GREENWICH MEAN TIME: 73 09 11 12 50 WIND WIND DIR. WIND VEL. WIND WIND WAVE HEIGHT AIR TEMP SECCHI PROD: START DURAT
 YEA/MON DAY HOU MIN 73 09 11 13 50 NW 1 M/S: 7/18 0-0.1 M 0-0.1 M

DEPTH M	TEMP CELS	OXYG %	SAT	A.O.U.	SALT	PO4P	TOTP	ORGP	NO3N	NO2N	BOTH	NH4N	SUMN	TOTN	ORGN	SIGMA	SOUNDV	STABIL
		ML/L	MA/L	0/00	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	M/S	
0	14.9	6.24	104.9		27.905	.19	.57	.38	.06	.02		.90	1.0	18.6	17.6	20.56	1498.5	
5	15.5	5.77	99.7	1.5	30.703	.13	.60	.47	.12	.02		.50	.6			22.59	1503.8	405.7
10	15.5	5.04	87.7	63.3	31.845	.17	.76	.59	.08	.13		.82	1.0	18.9	17.9	23.47	1505.2	175.1
15	15.1	4.86	84.3	80.7	32.301	.30	.65	.35	.69	.28		1.27	2.2			23.89	1504.8	185.0
20	14.5	4.93	84.7	79.8	32.728	.33	.63	.30	1.2	.29		1.54	3.1	23.3	20.3	24.35	1503.4	91.1
30	13.4	4.74	79.9	106.6	33.494	.51	.72	.21	1.00	.43		1.05	2.5			25.17	1500.8	182.7
33	13.2	4.69	78.8	112.6	33.556	.51	.79	.28	2.5	.44		.88	3.8	20.5	16.7	25.25	1500.4	25.9

DEPTH M	OIL FEN ORGC YEL	PH	CPROD	NETPR	CORPR	NETCO	CARB	SUMN	ORGN	TOTN	CARB	ORGC	TOTC	MEAN
	MG/L	MG/L	MGC/GMH			MG/L	MG/L	/PO4	/OP	/TP	PO4P	ORGP	TOTP	C/P
0	<.05	.78						5.3	46.0	32.7				
5		.55						5.0						
10		.37						5.9	30.5	24.8				
15		.28						7.4						
20		.18						9.4	66.7	37.1				
30		.28						4.9						31.5
33		.37						7.5	59.9	25.9				25.9

WATER SAMPLER THERMOMETER NO 44

STATION 5 (FJ 63) MALMØDRAG LAT: N 58 19.10 LONG: E 11 21.70 BOTTOM DEPTH 36 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND WIND WAVE AIR SECCHI PROD: START DURAT
 YEA MON DAY HOU MIN DIR. VEL. COVER HEIGHT TEMP DEPTH HR MT HR MT
 73 09 11 09 40 73 09 11 08 40 E 2 M/S 3 /8 0 -0.1 M 10 25 4 0

DEPTH M	TEMP. CELS.	OXYG % SAT	A.O.U. SALT MA/L	PO4P MA/L	TOTP MA/L	ORGP MA/L	NO3N MA/L	NO2N MA/L	BOTH MA/L	NH4N MA/L	SUMN MA/L	TOTN MA/L	ORGN MA/L	SIGMA M/S	STABIL.
0	14.6	6.19	104.1	29.055	.07	.49	.42	.06	.04	.38	.5	.51	21.51	1498.9	
2.5	14.6	6.13	103.4	29.584	.06	.45	.39	.03	.04	.63	.7	.91	21.91	1499.6	162.4
5	14.7	6.09	103.1	29.632	.06	.49	.43	.05	.02	.55	.6	28.1	21.93	1500.1	6.4
10	15.3	5.35	92.9	31.871	.12	.47	.35	.21	.08	.68	1.0		23.52	1504.8	318.3
15	15.1	5.17	89.5	32.165	.22	.57	.35	.49	.16	1.07	1.7		23.79	1504.6	53.7
20	14.6	5.15	88.7	32.677	.33	.57	.24	1.9	.26	1.13	3.3	27.4	24.2	1503.7	99.9
30	13.1	4.81	80.7	33.557	.47	.76	.29	2.5	.43	.68	3.6		25.27	1500.0	98.6
34	13.3	4.73	79.6	33.549	.52	.82	.30	2.7	.39	.87	4.0	29.4	25.4	1500.7	-11.6

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	YEL. PH	CPROD MGC/QMH	NETPR	CORPR	NETCO	CARB MG/L	SUMN /PO4	ORGN /OP	TOTN /TP	CARB/PO4P	ORGC/ ORGP	TOTC/ TOTP	MEAN N/P	MEAN C/P
0	<.05			.83	8.2	3.33	3.18	3.66	3.50	23.7	6.9						
2.5				.64	8.2	4.32		4.75	23.8	12.0							
5	<.05			.64	8.2	4.39	4.20	4.83	4.62	23.8	10.7	63.6	57.3				
10				.41	8.1	3.44		3.78	24.9	8.4							
15				.37	8.1	.44	.25	.49	.27	25.0	7.8			9425			
20				.37					10.1	98.8	48.1						
30				.46					7.7								52.7
34				.51					7.6	85.6	35.8						35.8

AVERAGE VALUES FOR THE WATER COLUMN 0-30 M AVERAGE VALUES FOR THE WATER COLUMN BELOW 30 M

PO4P TONS	TOTP TONS	SUMN TONS	TOTN TONS	CARB TONS	TOTC TONS
4.5	5.6	79.9	5627	.2	.3
				.5	3.3

* UNSTABLE DENSITY STRATIFICATION WATER SAMPLER THERMOMETER NO 44
 PRIMARY PRODUCTION VALUES INTEGRATED FROM CPROD AND CORPR VALUES ARE RESP: 51 AND 56 MGC/SGRMH

STATION 2 (FU 62) BROFJORDEN LAT: N 58 21.60 LONG: E 11 25.70 BOTTOM DEPTH: 22 M

LOCAL DATE AND TIME: 73 10 02 11 20
 GREENWICH MEAN TIME: 73 10 02 10 20
 WIND WIND DIR. WIND VEL. WAVE HEIGHT AIR TEMP. SECCHI PROD: START DURAT HR: MT HR MT
 73 10 02 11 20 W 5 M/S 6/8 0.1-0.5 M

DEPTH M	TEMP. CELS.	OXYG % SAT	A.O.U.	SALT O/00	PO4P MA/L	TOTP ORGP MA/L	NO3N MA/L	NO2N MA/L	BOTH MA/L	NH4N MA/L	SUMN MA/L	TOTN MA/L	ORGN MA/L	SIGMA MA/L	SOUNDV M/S	STABIL.
0	12.3	6.83	107.4	25.914	.08	.67	.59	.34	.06	1.11	1.5	25.9	24.4	19.53	1487.3	
2.5	12.5	6.81	107.5	25.914	.10		.28	.03		1.03	1.3			19.49*	1488.0	-14.1
5	12.3	6.85	107.7	25.915	.17	.70	.53	.19	.04	.82	1.0	19.2	18.1	19.53	1487.4	14.2
10	12.5	6.31	100.1	26.665	.16	.64	.48	.28	.04	.95	1.3			20.07	1489.1	108.6
15	12.5	5.08	83.2	31.765	.54	.72	.18	3.4	.49	1.26	5.1			24.01	1495.5	786.9
20	11.7	5.17	83.9	33.025	.54	.81	.27	3.5	.52	1.01	5.0	22.3	17.3	25.13	1494.3	224.8
22	12.3				.18	.80	.62	1.2	.19	1.14	2.5					NOT COMPUTED

DEPTH M	OIL MG/L	FEN ORGC MG/L	PH	CPROD MGC/GMH	NETPR MGC/GMH	CORPR	NETCO	CARB MG/L	SUMN /PO4	ORGN /OP	TOTN /TP	CARB/PO4P	ORGC/ ORGP	TOTC/ TOTP	MEAN N/P	MEAN C/P
0																
2.5			8.2	6.48	6.37	7.13	7.00	22.9	19.0	41.3	38.7					
5			8.2	10.4		11.5		22.9	13.2							
10			8.2	5.80	5.67	6.38	6.24	22.9	6.2	34.1	27.4					
15			8.2	1.51		1.66		23.1	8.1							
20			8.1	.13	.11	.15	.12	25.0	9.5							
22									9.2	64.3	27.6					
									14.1							31.2

* = UNSTABLE DENSITY STRATIFICATION
 PRIMARY PRODUCTION VALUES INTEGRATED FROM CPROD AND CORPR VALUES ARE RESP.: 64 AND 71 MGC/SORMH
 WATER SAMPLER THERMOMETER NO. 44

STATION 5 (FJ 63) MALMUDRAG

LAT: N 58 19.10 LONG: E 11 21.70

BOTTOM DEPTH 36 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND WAVE AIR SECCHI PROD: START DURAT
 YEA MON DAY HOU MIN DIR. VEL. COVER HEIGHT TEMP DEPTH HR MT HR MT
 73 10 02 09 16 /73 10 02 08 16 W 9 M/S 4 /8 1.2-2.5 M

DEPTH TEMP. OXYG % SAT A.O.U. SALT P04P TOTP ORGP NO3N NO2N BOTH NH4N SUMN TOTN ORGN SIGMA SOUNDV STABIL.
 M CELS. ML/L MA/L O/00 MA/L M/S

0	12.3	6.61	104.4	26.658	.08	.58	.50	.22	.07	1.25	1.5	27.8	26.2	20.10	1488.2
2.5	12.6	6.56	104.2	26.670	.17	.57	.40	.90	.06	1.03	2.0	20.06*	1489.3	-17.8	
5	12.5	6.63			.16	.56	.40	.31	.06	1.18	1.5	22.5	21.0	NOT COMPUTED	
10	12.8	5.99			.18			.37	.04	.99	1.4			NOT COMPUTED	
15	12.3	5.79	94.7	32.201	.41	.60	.19	2.2	.40	1.28	3.9	24.38	1495.3		
20	11.6	5.38	87.3	33.192	.41	.65	.24	2.5	.38	1.60	4.5	27.6	23.2	25.28	1494.2
30	10.8	5.20	83.2	33.823	.59	.76	.17	2.2	.48	1.26	3.9	25.91	1492.3	63.5	
32	10.6	5.12	81.6	34.126	.59	.82	.23	4.6	.44	1.42	6.5	26.18	1492.0	135.7	

DEPTH OIL FEN ORGC YEL. PH CPROD NETPR CORPR NETCO CARB SUMN ORGN TOTN CARB/ ORGC/ TOTC/ MEAN MEAN
 M MG/L MG MG/L

0										19.6	52.3	47.8			
2.5										11.8					
5										9.8	52.1	40.2			
10										7.8					
15										9.7					
20										11.0	94.7	42.5			
30										6.6					
32										11.1					43.5

AVERAGE VALUES FOR THE WATER COLUMN 0-30 M AVERAGE VALUES FOR THE WATER COLUMN BELOW 30 M

P04P TONS	TOTP TONS	SUMN TONS	TOTN TONS	CARB TONS	TOTC TONS
1.9	4.8	8.5	78.4	5408	

UNSTABLE DENSITY STRATIFICATION WATER SAMPLER THERMOMETER NO 44

STATION 6 DYNABROTT LAT: N 58 17.70 LONG: E 11 18.85 BOTTOM DEPTH 96 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD WAVE AIR SECCHI PROD:START DURAT
 YEA MON DAY HOU MIN 73 10 03 10 00 73 10 03 09 00 SW 1 M/S NO OBS NO OBS NO OBS NO OBS NO OBS NO OBS HR MT HR MT
 73 10 03 10 00 73 10 03 09 00 SW 1 M/S NO OBS NO OBS NO OBS NO OBS NO OBS NO OBS 12.0 C 9.0 M

DEPTH M	TEMP CELS	OXYG %	SAT ML/L	A.O.U	SALT 0/00	PO4P MA/L	TOTP MA/L	ORGP MA/L	NO3N MA/L	NO2N MA/L	BOTH MA/L	NH4N MA/L	SUMN MA/L	TOTN MA/L	ORGN MA/L	SIGMA M/S	SOUNDV	STABIL.
0	12.6	6.60	105.0		26.944	.09	.57	.48	.53	.04	.34	.9	27.1	26.2	20.27	1489.5		
2.5	12.6	6.57	104.6		27.059										20.36	1489.7		35.3
5	12.6	6.55	104.7		27.505	.23	.55	.32	.12	.03	.68	.8	18.2	17.4	20.70	1490.3		137.6
10	12.3	5.81	95.0		27.332	.160	.68	.62	1.1	.26	.54	1.9			24.35	1495.1		729.7
15	12.3	6.01				.17	.77	.60	.57	.10	.73	1.4			NOT COMPUTED			
20	12.2	6.17	101.5		33.699		.56				.86	1.6			25.56	1496.9		
30	12.2	5.92	97.6		12.933	.835	.50		.63	.15	.99	1.8			25.67	1497.2		10.5
40	11.7	5.71	93.1		37.833	.944	.60								25.85	1495.8		17.9
60	9.9	5.14	80.9		108.134	.556	.74	1.02	.28	.38	.52	6.3			26.64	1490.4		39.8
80	9.6	5.64	88.3		66.634	.731	.95								26.83	1489.9		9.4
90	9.5	5.11	79.8		115.434	.721	.56	1.05	.49	.31	.49	.9			26.84	1489.7		.9

DEPTH M	OIL MG/L	FEN MG/L	ORGC	VEL PH	CPROD MGC/QMH	NETPR	CORPR	NETCO	CARB MG/L	SUMN /PO4	ORGN /OP	TOTN /TP	CARB /PO4P	ORGC /ORGP	TOTC /TOTP	MEAN N/P	MEAN C/P
0										10.1	54.5	47.5					
2.5										3.7	53.5	33.1					
5										33.6							
10										8.3							
15																	
20																	
30																	
40																	
60										8.5							
80																	
90																	

40.3

STATION 7 LAT:58 22.40 LONG:11 22.65 BOTTOM DEPTH 27 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD WAVE AIR SECCHI PROD: START DURAT
 YEA MON DAY HOU MIN 73 10 03 11 15 DIR. VEL. COVER HEIGHT TEMP DEPTH HR:MT:HR MT
 73 10 03 12 15 73 10 03 11 15 SW 2:M/S NO OBS NO OBS NO OBS 13.0 C 7.0 M

DEPTH TEMP. OXYG % SAT A.O.U. SALT P04P T0TP ORGP NO3N NO2N BOTH NH4N SUMN TOTN ORGN SIGMA SOUNDV STABIL.
 M CELLS. ML/L MA/L 0/00 MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L M/S

0	12.3	6.76	106.3		26.080	.05	.54	.49	.97	.02	.66	1.7	24.8	23.1	19.66	1487.4
2.5	12.2	6.88	108.0		26.091		.68								19.68	1487.1
5	12.3	6.74	106.2		26.199		.72	.24	.01		.54	.8	20.0	19.2	19.75	1487.6
10	12.5	5.37	87.5		68.3	30.938	.32	.77	.45	.44	1.07	3.5			23.37	1494.3
15	11.7	5.28	85.6		79.4	32.821	.41	.74	.33	.44	.76	4.5			24.98	1493.9
20	11.7	5.12	83.4		91.3	33.510	.59	.91	.32	.50	.45	4.9			25.51	1494.9
25	10.9	5.06	81.1		105.2	33.769		.90							25.86	1492.5

DEPTH OIL FEN ORGC VEL. PH CPROD NETPR CORPR NETCO CARB SUMN ORGN TOTN CARB/ ORGC/ TOTG/ MEAN MEAN
 M MG/L MIG MG/L MGC/QMH MG/L /P04 /OP /TP P04P ORGP TOTP N/P C/P

0	<	.05														
2.5																
5																
10																
15																
20																
25																

36.7 46.7 45.9 27.8

11.0
 11.2
 8.4

36.8

STATION 8
 LOCAL DATE AND TIME 73 10 03 12 50
 YEAR MON DAY HOU MIN
 LAT: 58 21.10 LONG: 11 21.35
 BOTTOM DEPTH 36 M

DEPTH M	TEMP CELS	OXYG %	SAT ML/L	A O U	SALT MA/L	0/00	PO4P MA/L	TOTP MA/L	ORGP MA/L	NO3N MA/L	NO2N MA/L	BOTH MA/L	NH4N MA/L	SUMN MA/L	TOTN MA/L	ORGN MA/L	SIGMA M/S	SOUNDY	STABIL
0	12.6	6.83	108.2		26.149		.10	.60	.50	.21	.04		.41	.7	25.9	25.2	19.66	1488.6	
2.5	12.5	6.88	108.8		26.164			.54									19.69	1488.3	
5	12.6	7.06	112.4		26.901		.09	.70	.61	.30	.02			.8	17.3	16.5	20.24	1489.6	
10	12.6	5.46	189.4		58.1	31.433	.30	.67	.37	2.1	.44			3.1			23.73	1495.2	220.2
15	11.8	5.78	93.9		33.6	32.991	.37	.63	.26	3.1	.43			4.0			25.09	1494.5	699.0
20	11.4	5.50	88.9		61.5	33.524	.47	.78	.31	3.8	.48			4.8			25.58	1493.8	271.2
30	10.9	5.35	82.1		104.2	27.059	.62	.83	.21	4.7	.45			5.9			20.65*	1484.1	-492.3
35	9.6	5.08	76.0		143.1	27.505		1.04									21.20	1479.9	110.1

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	VEL	PH	CPROD MGC/QMH	NETRR	CORPR	NETCO	CARB MG/L	SUMN /P04	ORGN /OP	TOTN /TP	CARB /P04P	ORGC /ORGP	TOTC /TOTP	MEAN N/P	MEAN C/P
0											6.5	50.6	43.2					
2.5											9.3	27.0	24.7					
5											10.3							
10											10.8							
15											10.1							
20											9.4							
30																		
35																		

* UNSTABLE DENSITY STRATIFICATION

STATION 9 LAT:58 18,40 LONG:11 23,50 BOTTOM DEPTH 27 M

LOCAL DATE AND TIME	GREENWICH MEAN TIME	WIND DIR.	WIND VEL.	CLOUD COVER	WAVE HEIGHT	AIR TEMP	SECCHI DEPTH	PROD.	START	DURAT							
YEA MON DAY HOU MIN		SW	M/S	NO	NO	C	M	HR	MT	HR	MT						
73 10 03 13 45	73 10 03 12 45		2			14.5	8.5										
DEPTH TEMP. CELLS	OXYG % SAT	A.O.U	SALT	P04P	T0TP	ORGP	N03N	N02N	BOTH	MA/L	MA/L	SUMN	T0TN	ORGN	SIGMA	SOUNDV	STABIL.
M	ML/L	MA/L	0/00	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	M/S		
0	12.7	6.96	110.5	26.104	.07	.59	.52	.28	.02	.75	1.1	22.5	21.4	19.61	1488.9		
2.5	12.6	6.99	110.8	26.352		.59								19.82	1488.6		83.8
5	12.8	6.99	111.9	27.027	.09	.87	.78	.20	.03	.61	.8	24.6	23.8	20.30	1490.4		193.5
10	12.7	5.79	95.0	27.1	31.576	.33	.70	2.4	.44	1.31	4.1			23.82	1495.8		705.2
15	11.9	5.96	97.2	15.6	33.007	.36	.66	2.7	.41	1.72	4.8			25.08	1494.9		251.5
20	12.1	5.85	95.4	25.0	32.577	.28	.63	4.1	.31	1.47	5.9			24.71	1495.1		-74.1
30	11.6	6.20	100.8	33.769		.66								25.73	1495.0		101.6

DEPTH	OIL	FEN	ORGC	VEL.	PH	CPROD	NETPR	CORPR	NETCO	CARB	SUMN	ORGN	T0TN	CARB	ORGC	T0TCV	MEAN
M	MG/L	MG/L	MG/L			MGC/QMH			MG/L	/P04	/OP	/TP	P04P	ORGP	T0TP	N/P	C/P
0											15.7	41.0	38.1				
2.5											9.3	30.5	28.3				
5											12.6						
10											13.5						
15											21.0						
20																	
30																	

* = UNSTABLE DENSITY STRATIFICATION

STATION 10

LAT: 58 17.45 LONG: 11 25.50

BOTTOM DEPTH 22 M

LOCAL DATE AND TIME	GREENWICH MEAN TIME	WIND WIND	CLOUD COVER	WAVE HEIGHT	AIR TEMP	SECCHI DEPTH	PROD: START	DURAT
YEA MON DAY HOU MIN		DIR. SW	NO OBS	NO OBS	14.0 C		HR MT	HR MT
73 10 03 14 25	73 10 03 13 25	1 M/S	NO OBS	NO OBS	14.0 C			

DEPTH M	TEMP CELS	OXYG % SAT	A.O.U	SALT	PO4P	TOTP	ORGP	NO3N	NO2N	BOTH	NH4N	SUMN	TOTN	ORGN	SIGMA	SOUNDV	STABIL
		ML/L	MA/L	0/00	MA/L	M/L	M/S										
0	12.6	7.09	112.2	25.872	.11	.54	.43	.20	.05	.36	.06	15.4	14.8	19.45	1488.2		
2.5	12.7	6.83	108.7	26.485		.56								19.90	1489.4	181.7	
5	12.7	6.99	111.3	26.546	.07	.57	.50	.24	.02	.07	.03	6.2	5.9	19.95	1489.5	16.9	
10	12.8	5.51	89.8	55.8	.30	.80	.48	1.6	.31	.25	2.2			22.66	1494.3	542.5	
15	12.0	5.34	87.0	71.0	.32	.76	.33	3.7	.46	.34	4.5			24.93	1495.0	454.2	
20	11.6	5.70	92.5	41.2	.33	.68	.33	3.3	.40	.66	4.3			25.44	1494.4	102.7	

DEPTH M	OIL	FEN	ORGC	VEL	PH	CPROD	NETPR	CORPR	NETCO	CARB	SUMN	ORGN	TOTN	CARB	ORGC	TOTC	MEAN
	MG/L	MIG	MG/L			MGC/QMH			MG/L	MG/L	/P04	/CP	/TP	P04P	ORGP	TOTP	N/P
0											5.4	34.7	28.6				
2.5																	
5											4.9	11.7	10.9				
10											6.9						
15											1.1						
20											12.4						19.8

STATION 11

LAT:58 15.95 LONG:11 22.20

BOTTOM DEPTH 40 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND DIR. WIND VEL. WIND SW. WAVE HEIGHT NO OBS AIR TEMP DEPTH SECCHI PROD: START DURAT
 YEA MON DAY MOU MIN 73 10 03 08 25 73 10 03 07 25 1 M/S NO OBS 13.0 C 19.5 M

DEPTH M	TEMP CELS	OXYG ML/L	SAT	A. O. U	SALT MA/L	P04P MA/L	TOTP MA/L	NO3N MA/L	NO2N MA/L	BOTH MA/L	SUMN MA/L	TOTN MA/L	ORGN MA/L	SIGMA M/S	SOUNDV	STABIL
0	12.6	6.29	100.4		27.402	.11	.64	.58	.08	.32	1.0	21.4	20.4	20.62	1490.1	
2.5	12.6	6.30	100.5		27.385		.59							20.61*	1490.1	-5.1
5	12.6	6.33	101.2		27.492	.03	.59	.44	.01	.28	.7	20.3	19.5	20.69	1490.3	33.0
10	12.7	5.20	85.4		27.231	.674	.50	.18	.33	.52	3.4			23.90	1495.9	641.4
15	12.2	5.79	95.3		25.533	.655	.26	.29	.21	.78	2.5			25.53	1496.7	325.5
20	12.2	5.92	97.4		14.133	.542	.24	.33	.21	.54	2.2	14.9	12.7	25.44*	1496.7	-17.6
30	11.9	5.83	95.4		25.433	.732	.25	.19	.23	.72	2.8			25.64	1496.0	20.4

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	PH	CPROD	NETPR	CCRPR	NETCO	CARB MG/L	SUMN /P04	ORGN /OP	TOTN /TP	CARB /P04P	ORGC /ORGP	TOTC /TOTP	MEAN N/P	MEAN C/P
0										8.8	38.7	33.4					
2.5										21.9	35.1	34.4					
5										6.8							
10										9.8							
15										9.4	38.0	26.1					
20										1.2							
30																	

* UNSTABLE DENSITY STRATIFICATION

STATION 12

LAT: 58 15.65 LONG: 11 26.70

BOTTOM DEPTH 52 M

LOCAL DATE AND TIME	GREENWICH MEAN TIME	WIND DIR.	WIND VEL.	CLOUD COVER	WAVE HEIGHT	AIR TEMP.	SECCHI DEPTH	PROD.	START	DURAT						
YEA/MON/DAY/HOU/MIN		SW	1 M/S	NO	NO OBS	14.0 C	7.5 M		HR	MT						
73 10 03 15 10	73 10 03 14 10															
DEPTH TEMP. CELS.	% SAT	A.O.U.	SALT	PO4P	TOTP	ORGP	NO3N	NO2N	BOTH	NH4N	SUMN	TOTN	ORGN	SIGMA	SOUNDV	STABIL.
M	ML/L	MA/L	0/00	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	M/L	M/S	
0	12.8	6.82	108.7	26.434	.20	.86	.66	.16	.02	.45	.6	18.8	18.1	19.84	1489.6	
2.5	12.8	6.49	103.6	26.665		.61				.42	.6	24.0	23.4	20.02	1489.9	71.0
5	12.7	6.58	104.9	26.779	.11	.61	.50	.18	.02	.47	3.2			20.13	1489.8	42.4
10	13.8	4.74	79.4	110.0	.31	.030	.39	2.4	.29	.29	3.6			23.19	1498.8	612.5
15	12.1	5.70	93.3	36.7	.32	.935	.68	2.9	.35	.54	2.8	23.4	20.6	24.99	1495.5	360.3
20	12.3	5.65	92.3	42.0	.32	.026	.34	2.0	.28	.47	2.9			24.25*	1495.1	148.2
30	12.0	5.75	94.1	32.0	.33	.563	.26	2.1	.25					25.49	1496.2	124.6

DEPTH	ML/L	ML/L	ML/L	MG/GMH	MG/L												
0	11.5	1.65	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
2.5	11.5	1.65	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
5	11.5	1.65	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
10	11.5	1.65	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
15	11.5	1.65	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
20	11.5	1.65	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
30	11.5	1.65	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
40	11.5	1.65	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80

UNSTABLE DENSITY STRATIFICATION

33.8

EXTRA STATION AT THE MOUTH OF BROOKLYN

LOCAL DATE AND TIME YEA/MON/DAY/HOU/MIN	GREENWICH MEAN TIME	WIND DIR. W	WIND VEL. M/S	CLOUD COVER	WAVE HEIGHT M	AIR TEMP	SECCHI DEPTH	PROD.	START TIME HR/MT/HR/MT	DURAT									
73 10 02 13 40	73 10 02 12 40	W	4	3/8	0														
DEPTH TEMP. OXYG % SAT	A.O.U. SALT	PO4P	TOTP	ORGP	NO3N	NO2N	BOTH	NH4N	SUMN	TOTN	ORGN	SIGMA	SOUNDV	STABIL.					
M CELS. ML/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	M/S						
.1	3.02	5.18	2.16	25.2	3.5	12.40	41.0	105.9	64.9	NOT	COMPUTED								
.1	3.15	4.90	1.75	24.9	3.5	12.47	40.9	109.5	68.6	NOT	COMPUTED								
DEPTH	OIL	FEN	ORGC	YEL.	PH	CPROD	NETRR	CORPR	NETCO	CARB	MG/L	SUMN	ORGN	TOTN	CARB/	ORGC/	TOTC/	MEAN	MEAN
M	MG/L	MIG	MG/L			MGC/QMH						/TP	PC4P	ORGP	TOTP	N/P	C/P		
.1												13.6	30.0	20.4					
.1												13.0	39.3	22.4					

STATION 1 INRE BROFJORDEN LAT: N 58 22.50 LONG: E 11 26.30 BOTTOM DEPTH: 18 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD WAVE WAVE AIR SECCHI PROD: START DURAT
 YEA/MON DAY HOU MIN /73 10 03 10 20 DIR. VEL. COVER COVER HEIGHT HEIGHT TEMP. DEPTH HR MT HR MT
 73 10 03 11 20 /73 10 03 10 20 SSW 1 M/S 0 /8 0 0.1 M 14.5 C 4.0 M

DEPTH	TEMP.	OXYG %	SAT	A.O.U.	SALT	PO4P	TOTP	ORGP	NO3N	NO2N	BOTH	NH4N	SUMN	TOTN	ORGN	SIGMA	SOUNDV	STABIL
M	CELS	ML/L	ML/L	ML/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	M/S	M/S	M/S
0	12.0	7.09	110.6		25.778	.07	.63	.56							19.48	1485.9		
5	12.9	5.49	89.6	57.1	29.944	.28	.98	.70							22.53	1494.3	610.3	
10	12.1	5.29	86.3	75.1	32.603	.39	.71	.32							24.74	1494.9	440.9	
15	11.5	5.30	85.8	78.2	33.326	.50	.79	.29							25.40	1494.0	132.4	
17	11.5	5.15	83.4	91.8	33.394	.51	.87	.36							25.46	1493.9	130.0	

DEPTH	CHL	FEN	ORGC	VEL	PH	CPROD	NETPR	CORPR	NETCO	CARB	MG/L	SUMN	ORGN	TOTN	CARB	ORGC	TOTC	MEAN	MEAN
M	MG/L	MG	MG/L			MGC/QMH	/OP	/TP	PO4P	ORGP	TOTP	N/P	C/P						
0					8.2					22.8					7258				
5					8.1					24.4					5411				
10					8.1					25.3					4260				
15					8.1					25.6									
17					8.1					25.7									

NOTE: UVF THETIS

STATION 2 (FJ 62) BROFJORDEN LAT: N 58 21.60 LONG: E 11 25.70 BOTTOM DEPTH: 22 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND WAVE AIR SECCHI PROD:START DURAT
 YEA MON DAY HOU MIN DIR. VEL. COVER HEIGHT TEMP DEPTH HR MT HR MT
 73 10 03 11 45 73 10 03 10 45 SSW 1 M/S 0 /8 0 -0.1 M 14 5 C 6.1 M

DEPTH TEMP. OXYG % SAT A.O.U SALT P04P TOTP ORGP N03N N02N BOTH NH4N SUMN TOTN ORGN SIGMA SOUNDV STABIL.
 M CELS. ML/L MA/L 0/00 MA/L M/S
 0 12.3 7.12 111.9 25.933 .65 .60 19.54 1487.3
 5 12.9 5.75 93.3 36.8 29.068 .75 21.86 1493.2 462.5
 10 12.0 5.34 87.0 71.4 32.696 .87 24.82 1494.7 593.7
 15 11.7 5.57 90.5 52.4 33.238 .70 25.30 1494.4 94.7
 20 11.3 5.28 85.2 82.0 33.537 .83 25.60 1493.5 61.0
 25 11.3 5.26 84.9 83.4 33.593 .70 25.65 1493.7 8.3

DEPTH OIL FEN ORGC YEL. PH CPROD NETPR CORPR NETCO CARB SUMN ORGN TOTN CARB/ ORGC/ TOTC/ MEAN MEAN
 M MG/L MG/L MG/L MGC/QMH MG/L /P04 /OP /TP P04P ORGP TOTP N/P C/P
 0 8.3 22.7
 5 8.2 24.0
 10 8.1 25.3
 15 8.1 25.5
 20 8.1 25.7
 2 8.1 25.7
 105
 54
 54
 47
 46

NOTE: U/F THETIS

STATION 3 STRETUDDEN
 LOCAL DATE AND TIME 73 10 03 13 00 73 10 03 12 00
 YEAR MON DAY HOU MIN
 LAT: N 56 20.55 LONG: E 11 24.15
 BOTTOM DEPTH 48 M

DEPTH M	TEMP CELS	OXYG ML/L	% SAT	A.O.U	SALT MA/L	PO4P MA/L	TOTP MA/L	ORGP MA/L	NO3N MA/L	NO2N MA/L	BOTH MA/L	NH4N MA/L	SUMN MA/L	TOTN MA/L	ORGN MA/L	SIGMA M/S	SOUNDV M/S	STABIL
0	12.5	6.89	108.9		26.269	.06	.58	.52								19.77	1488.3	
5	12.9	6.28	101.1		27.786	.12	.68	.56								20.87	1491.6	219.2
10	12.3	5.45	89.0	60.4	32.056	.31	.61	.30								24.28	1494.9	681.4
15	11.9	5.78	94.3	31.0	33.501	.27	.66	.39								25.47	1495.3	239.8
20	11.7	5.66	92.0	43.7	33.554	.30	.64	.34								25.55	1494.8	15.3
30	10.7	5.08	81.1	106.0	34.023	.56	.91	.35								26.10	1492.0	54.7
40	9.2	5.06	78.7	122.4	34.832	.78	1.17	.39								26.97	1488.0	87.0
47	9.3	5.02	78.1	125.7	34.833	.79	1.29	.50								26.97*	1488.2	7.4

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	VEL PH	CPROD MGC/GMH	NETPR	CORPR	NETCO	CARB MG/L	SUMN /PO4	ORGN /OP	TOTN /TP	CARB/PO4P	ORGC/ORGP	TOTC/TOTP	MEAN N/P	MEAN C/P
0				8.2					23.0								
5				8.2					23.5								
10				8.1					25.1								6737
15				8.1					25.5								7854
20				8.1					25.4								7062
30				8.1					25.9								3847
40				8.1					26.2								2800
47				8.1					26.3								2770

* = UNSTABLE DENSITY STRATIFICATION

STATION 4 YTTRE BRGFJORDEN LAT: N 58 19.90 LONG: E 11 23.10 BOTTOM DEPTH 34 M

LOCAL DATE AND TIME 73 10 03 13 30 GREENWICH MEAN TIME 73 10 03 12 30 WIND WIND DIR. WIND VEL. WIND SW WAVE HEIGHT 0.1-0.5 M AIR TEMP 16.0 C SECCHI PROD: START DURAT DEPTH HR MT HR MT 6.4 M

DEPTH M	TEMP CELS	OXYG % SAT	A.O.U	SALT	P04P	TOTP	ORGP	NO3N	NO2N	BOTH	IN4N	SUMN	TOTN	ORGN	SIGMA	SOUNDV	STABIL
			MA/L	0/00	MA/L	M/L	M/S										
0	12.4	7.10	112.0	26.132	.08	.58	.50							19.68	1487.9		
5	12.6	6.78	108.0	27.023	.09	.66	.57							20.33	1489.8		129.8
10	12.3	5.60	91.5	46.732	.141	.70	.43							24.34	1495.0		802.5
15	11.9	5.88	96.0	21.833	.292	.69	.45							25.30	1495.3		191.3
20	11.9	5.94	97.1	16.033	.619	.51	.27							25.56	1495.6		52.9
25	11.5	5.73	93.0	38.333	.736	.60	.28							25.71	1494.7		30.4
31	11.4	5.62	91.0	49.633	.781	.84	.47							25.77	1494.3		10.1

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	VEL. PH	CPROD	NETPR	CORPR	NETCO	CARB	SUMN	ORGN	TOTN	CARB	ORGC	TOTC	MEAN	MEAN
	MG/L	MG/L	MG/L		MGC/QMH				MG/L	/P04	/OP	/TP	P04P	ORGP	TOTP	N/P	C/P
0				8.2					22.8								
5				8.2					23.2								
10				8.1					25.1						7728		
15				8.1					25.4						8813		
20				8.1					25.4						8829		
25				8.1					25.6						6648		
31				8.1					25.7						5777		

NOTE: U/F THETIS

STATION 5 (FJ 63) MALM6DRAG LAT: N 58 19,10 LONG: E 11 21,70 BOTTOM DEPTH 36 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND WAVE AIR SECCHI PROD:START DURAT
 YEA MON DAY HOU MIN /73 10 03 10 25 /73 10 03 09 25 S 2 M/S 0 /8 0 =0.1 M 14.5 C 7,0 M DEPTH HR:MT HR MT

DEPTH M	TEMP CELS	OXYG % SAT	A.O.U	SALT MA/L	PO4P MA/L	TOTP MA/L	ORGP MA/L	NO3N MA/L	NO2N MA/L	BOTH MA/L	SUMN MA/L	TOTN MA/L	ORGN MA/L	SIGMA M/S	SOUNDV	STABIL
0	12.3	6.88	108.4	26.258	.06	.47	.41							19.79	1487.8	
5	12.7	6.45	103.4	27.596	.08	.63	.55							20.75	1490.9	191.8
10	12.1	5.60	91.3	47.4	32.595	.29	.36							24.73	1494.9	796.0
15	11.9	5.83	95.2	26.1	33.427	.23	.29							25.41	1495.4	135.6
20	12.0	5.91	96.8	17.3	33.710	.15	.37							25.61	1496.1	41.6
30	11.5	5.83	94.7	29.1	33.897	.26	.34							25.84	1494.9	23.1
35	11.3	5.55	89.7	56.9	33.914	.35	.33							25.90	1494.1	11.4

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	YEL. PH	CPROD MGC/QMH	NETPR	CORPR	NETCO	CARB MG/L	SUMN /P04	ORGN /OP	TOTN /TP	CARB/ P04P	ORGC/ ORGP	TOTC/ TOTP	MEAN N/P	MEAN C/P
0	<.05			8.2					23.0								
5				8.2					23.5								
10				8.1					25.3				7262				
15				8.1					25.5				9228				
20				8.1					25.5								
30				8.1					25.6				8213				
35				8.1					25.8				6129				

AVERAGE VALUES FOR THE WATER COLUMN 0-30 M				AVERAGE VALUES FOR THE WATER COLUMN BELOW 30 M			
PO4P TONS	TOTP TONS	SUMN TONS	TOTN TONS	PO4P TONS	TOTP TONS	SUMN TONS	TOTN TONS
4.9				2.2			
				0.3			

NOTE: U/F/T/H/T/S

STATION 1 INREIBROBJORDEN LAT: N 58 22.50 LONG: E 11 26.30 BOTTOM DEPTH: 18.1M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD WAVE AIR SECCHI PROD: START DURAT
 YEA MON DAY HOUR MIN DIR. VEL. COVER HEIGHT TEMP DEPTH HR MT HR MT

DEPTH TEMP: OXYG % SAT A.O.U. SALT PO4P TOTP ORGP NO3N NO2N BOTH NH4N SUMN TOTN ORGN SIGMA SOUNDY STABIL
 M CELS. ML/L (MA/L) (0/00) (MA/L) (M/S)

DEPTH OIL FEN ORGC VEL. RH CRKOD NETRR CORPR NETCO CARB SUMN ORGN TOTN CARB/ ORGC/ TOTCP MEAN MEAN
 M (MG/L) (MIG) (MG/L) (MGC/QMH) (MG/L) (MG/L) (PO4/OP) (TP) (PO4P) (ORGP) (TOTP) (N/P) (C/P)

WATER SAMPLER THERMOMETER NO: 44

STATION 12 (FU-62) BROFJORDEN LAT: N 58 21.60 LONG: E 11 25.70 BOTTOM DEPTH: 22 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND WIND WAVE WAVE AIR SECCHI PROD: START DURAT
 YEA MON DAY HOU MIN DIR. VEL. COVER COVER M/S: 0 / 8 HEIGHT TEMP DEPTH HR: MT HR: MT

DEPTH (M)	TEMP (CELS)	OXYG %	SAT	A.O.U.	SALT	PO4P	TOTP	ORGP	NO3N	NO2N	BOTH	NH4N	SUMN	TOTN	ORGN	SIGMA	SOUNDV	STABIL
M	CELS	ML/L		MA/L	0/00	MA/L	M/L	M/S										
0	8.1	6.75	97.0	18.7	26.590	.15	.53	.38	.48	.05		.87	1.4	16.5	15.1	20.70	1472.5	
2.5	10.1	6.25	95.1	28.5	28.336	.12	.52	.40	.23	.04		.79	1.1			21.77	1482.4	427.8
5	10.2	6.44	98.4	9.5	28.589	.08	.51	.43	.11	.04		1.36	1.5	17.9	16.4	21.95	1483.1	72.1
10	10.4	6.29	96.8	18.4	29.074	.10	.67	.57	.17	.03		1.53	1.7			22.29	1484.5	68.9
15	10.9	5.95	93.3	38.2	30.187	.17	.52	.35	.41	.14		1.71	2.3			23.07	1487.8	156.0
20	12.1	4.73	77.4	123.5	32.822	.46	.74	.28	2.2	.59		1.55	4.3	16.9	12.6	24.90	1495.5	365.0
22	12.0	4.66	76.0	131.3	32.811	.54	.92	.38	2.8	.56		1.21	4.5	15.1	10.6	24.91	1495.2	5.3

DEPTH (M)	OIL	FEN	ORGC	VEL.	PH	CPROD	NETPR	CORPR	NETCO	CARB	SUMN	ORGN	TOTN	CARB	ORGC	TOTC	MEAN	MEAN
M	MG/L	MIG	MG/L			MGC/GMH	MG/L	MG/L	MG/L	MG/L	/PO4	/OP	/TP	PO4P	ORGP	TOTP	N/P	C/P
0	<.05			.46							9.5	39.3	31.0					
2.5				.28							8.5							
5	<.05			.23							19.0	38.1	35.1					
10				.23							17.0							
15				.23							13.3							
20	<.05			.09							9.4	45.5	22.9					
22				.09							8.4	28.0	16.4					26.4

WATER SAMPLER THERMOMETER NO 44

STATION 3 STRETUDDEN LAT: N 58 20.55 LONG: E 11 24.15 BOTTOM DEPTH 48 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD WAVE AIR SECCHI PROD: START DURAT
 YEA MON DAY HOU MIN DIR. VEL. COVER HEIGHT TEMP HR MT HR MT
 73 10 16 14 05 73 10 16 13 05 0 M/S 0 /8 0 M

DEPTH M	TEMP CELS	OXYG ML/L	% SAT	A.O.U	SALT MA/L	PO4P MA/L	TOTP MA/L	ORGP MA/L	NO3N MA/L	NO2N MA/L	BOTH MA/L	SUMN MA/L	TOTN MA/L	ORGN MA/L	SIGMA M/S	SOUNDV	STABIL
0	8.3	6.62	95.8	25.6	26.848	.08	.53	.45	.69	.07	1.42	2.2	18.3	16.1	20.87	1473.6	
5	10.1	6.54	99.5	2.9	28.360	.06	.61	.55	.16	.02	.58	.8	25.6	24.8	21.79	1482.4	182.7
10	10.2	6.48	99.3	4.0	29.032	.00	.56	.56	.09	.02	2.90	3.0			22.29	1483.7	101.1
15	10.6	6.20	96.3	21.6	29.886	.10	.48	.38	2.6	.07	1.55	4.3			22.89	1486.4	119.4
20	12.1	4.98	81.4	101.7	32.661	.37	.73	.36	2.1	.50			17.7		24.77	1495.3	376.7
30	12.0	4.79	78.4	117.9	33.284	.53	.89	.36		.56	1.07				25.27	1495.9	50.1
40	10.1	3.38	53.5	262.5	34.502	1.48	2.22	.74	8.3	.53	1.97	10.9			26.56	1490.8	128.8
43	9.7	3.13	49.2	289.1	34.676	1.43	1.92	.49	8.1	.57	2.59	11.3	18.9	7.6	26.77	1489.6	67.8

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	VEL	PH	CPROD MGC/QMH	NETPR	CORPR	NETCO	CARB MG/L	SUMN /PO4	ORGN /OP	TOTN /TF	CARB /PO4P	ORGC /ORGP	TOTC/ TOTP	MEAN N/P	MEAN C/P
0	<.05			.78						27.6	35.7	34.5						
5				.92						13.4	44.9	41.9						
10				.60														
15				.69						41.9			24.3					33.6
20				.92														
30				.78														
40				.78						7.3								
43				.46						7.9	15.4	9.9						9.9

WATER SAMPLER THERMOMETER NO 44

STATION 4 YTTRE BROFJORDEN LAT: N 58 19.90 LONG: E 11 23.10 BOTTOM DEPTH 34 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD WAVE AIR SECCHI PROD: START DURAT
 YEA MON DAY HOU MIN DIR. VEL. COVER HEIGHT TEMP DEPTH HR MT HR MT

73 10 16 13 05 73 10 16 12 05 0 M/S: 0 /8 0 M

DEPTH TEMP. OXYG % SAT A.O.U. SALT P04P TOTP ORGP NO3N NO2N BOTH NH4N SUMN TOTN ORGN SIGMA SOUNDY STABIL.
 M CELS. ML/L MA/L 0/00 MA/L M/S

0	9.0	6.67	98.4	9.5	27.410	.17	.50	.33	.13	.02	.28	.4	12.2	11.8	21.21	1477.0
5	10.3	6.50	99.5	2.9	28.714	.09	.72	.63	.12	.02	1.17	1.3	17.1	15.8	22.03	1483.6
10	10.4	6.40	98.6	8.1	29.219	.06	.52	.46	.16	.01	1.22	1.4			22.40	1484.7
15	11.0	5.99	94.3	32.3	30.546	.15	.55	.40	.57	.12	1.58	2.3			23.33	1488.6
20	12.2	5.08	83.3	91.2	32.816	.37	.74	.37	1.1	.46	2.36	4.0	16.9	12.9	24.87	1495.8
30	12.2	5.11	84.0	86.9	33.347	.42	.76	.34	2.6	.48	1.59	4.6			25.28	1496.7
31	12.2	5.01	82.4	95.7	33.384	.43	.74	.31	3.0	.47	2.62	6.1	17.5	11.4	25.31	1496.7

DEPTH OIL FEN ORGC VEL. PH CPROD NETPR CORPR NETCO CARB SUMN ORGN TOTP CARB/ ORGC/ TOTC/ MEAN MEAN
 M MG/L M/G MG/L

0	<	.05																
5			.01								2.5	35.6	24.4					
10			.01								14.5	25.1	23.7					
15			.00								24.8							
20			.01								15.4							
30			.01								10.6	35.3	22.9					
31			.01								11.1							
			.01								14.2	36.8	23.7					
																	23.7	
																		23.7

WATER SAMPLER THERMOMETER NO 44

STATION 5 (FJ 63) MALMÖDRAG LAT: N 58 19.10 LONG: E 11 21.70 BOTTOM DEPTH 36 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND WAVE AIR SECCHI PROD: START DURAT
 YEA MON DAY HOU MIN DIR. VEL. COVER HEIGHT TEMPERATURE HR MT HR MT
 73 10 16 12 20 73 10 16 11 20 0 M/S: 0 /8 0 M

DEPTH M	TEMP. CELS.	OXYG. ML/L	% SAT	A.O.U.	SALT	PO4P	TOTP	ORGP	NO3N	NO2N	BOTH	NH4N	SUMN	TOTN	ORGN	SIGMA	SOUNDV	STABIL.
				MA/L	0/00	MA/L	M/L	M/S										
0	8.5	6.76	98.5	9.3	27.169	.15	.49	.34	.11	.07			.99	1.2	14.1	12.9	21.10	1474.8
2.5	8.6	6.69	97.8	13.2	27.439	.16			.25	.02			.84	1.1			21.29	1475.5
5	9.9	6.55	99.2	4.7	28.219	.03	.69	.66	.12	.03			2.50	2.7	15.2	12.6	21.71	1481.5
10	10.3	6.38	98.2	10.2	29.464	.09	.58	.49	.14	.02			1.67	1.8			22.61	1484.6
15	10.6	6.26	97.3	15.7	29.975	.12	.50	.38	.30	.05			3.26	3.6			22.96	1486.5
20	12.1	5.05	82.5	95.5	32.730	.44	.63	.19	2.0	.49			1.50	4.0	15.8	11.7	24.83	1495.4
30	12.2	5.16	84.9	82.2	33.509	.42	.66	.24	2.3	.48			2.72	5.5			25.41	1496.9
33	12.2	5.35	88.1	64.8	33.509	.41	1.05	.64	2.3	.47			1.07	3.9	14.3	10.4	25.41*	1496.9

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	VEL. PH	CPROD	NETPR	CORPR	NETCO	CARB	MG/L	SUMN	ORGN	TOTN	CARB	ORGC	TOTC	MEAN
					MGC/QMH						/PO4	/OP	/TP	PO4P	ORGP	TOTP	MEAN
0	<.05			.46							7.9	37.7	28.8				
2.5	<.05			.46							7.0						
5				.41							78.3	19.2	22.1				
10				.32							20.2						
15				.28							29.0						
20	<.05			.23							9.1	62.1	25.0				25.3
30				.23							13.1						13.6
33				.18							9.5	16.2	13.6				

AVERAGE VALUES FOR THE WATER COLUMN 0-30 M AVERAGE VALUES FOR THE WATER COLUMN BELOW 30 M

PO4P TONS	TOTP TONS	SUMN TONS	TOTN TONS	CARB TONS	TOTC TONS
1.5	4.5	8.6	54.7		
		.3	.5	1.1	2.4

UNSTABLE DENSITY STRATIFICATION WATER SAMPLER THERMOMETER NO 44

STATION 6 DYNABROTT LAT: N 58 17.70 LONG: E 11 18.85 BOTTOM DEPTH 96 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND DIR. WIND VEL. WAVE HEIGHT AIR TEMP SECCHI DEPTH PROD: START DURAT
 YEA MON DAY HOU MIN 73 10 16 10 50 73 10 16 09 50 0 M/S: 0 / 8 0 M

DEPTH M	TEMP. CELS.	OXYG % SAT	A.O.U. SALT	PO4P	TOTP	ORGP	NO3N	NO2N	BOTH	NH4N	SUMN	TOTN	ORGN	SIGMA	SOUNDY	STABIL.
		MA/L	0/00	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	M/L	M/S	
0	9.7	6.53	98.3	10.2	27.966	.03	.59	.56	.04	.13	18.7	18.7	21.54	1480.4		
5	10.1	6.54	99.4	3.8	28.214	.08	.58	.50	.02	.18	18.2	18.2	21.67	1482.2	26.2	
10	10.8	6.37	98.8	6.7	28.931	.10	.52	.42	.04	.33	.9	.9	22.12	1485.8	88.5	
15	11.1	6.24	97.8	12.4	29.576	.08	.49	.41	.02	.07	.7	.7	22.56	1487.8	89.7	
20	12.4	5.39	88.8	60.7	33.155	.23	.51	.28	.35	1.22	2.9	18.5	25.10	1496.9	506.9	
30	12.3	5.18	85.4	79.1	33.504	.26	.66	.40	.23	1.43	4.1	1.4	25.39	1497.2	28.9	
50	11.2	5.02	81.2	103.6	34.220	.49	.90	.41	.33	1.04	5.3	1.0	26.15	1494.6	38.1	
88	9.5	5.19	81.1	107.7	34.815	.76	1.16	.40	.33	.46	7.9	27.6	19.7	26.91	1489.8	20.0

DEPTH M	OIL	FEN	ORGC	VEL.	PH	CPROD	NETPR	CORPR	NETCO	CARB	SUMN	ORGN	TOTN	CARB	ORGC	TOTC	MEAN
	MG/L	MG	MG/L			MGC/GMH				MG/L	/PO4	/OP	/TP	PO4P	ORGP	TOTP	N/P
0				.46									31.7				
5				.46									31.4				
10				.55						8.4							
15				.51						8.3							
20				.23						13.0	54.7		36.2				33.1
30				.18						15.8							
50				.18						10.8							
88				.14						10.4	49.1		23.8				23.8

WATER SAMPLER THERMOMETER NO 44

EXTRA STATION AT BROALVEN BRODALEN

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD WAVE WAVE AIR SECCHI PROD: START DURAT
 YEA MON DAY HOU MIN DIR. VEL. COVER NO. OBS HEIGHT TEMP DEPTH HR MT HR MT
 73 10 16 07 45 73 10 16 06 45 0 18 0 18 9.71 61.4 71.5 10.2 NOT COMPUTED

DEPTH TEMP. OXYG % SAT A.O.U SALT P04P TOTR ORGP NO3N NO2N BOTH NH4N SUMN TOTN ORGN SIGMA SOUNDV STABIL.
 CELS. ML/L MA/L 0/00 MA/L M/S

0 1.88 50.6 1.1 9.71 61.4 71.5 10.2 NOT COMPUTED
 0 1.83 51.3 1.1 9.59 62.0 70.6 8.7 NOT COMPUTED

DEPTH OIL FEN ORGC VEL. PH CPROD NETPR CORPR NETCO CARB SUMN ORGN TOTN CARB/ ORGC/ TOTC/ MEAN MEAN
 M MG/L MG MG/L MG/L MG/L MG/L /P04 /OP /TP P04P ORGP TOTP N/P C/P

0 .327
 0 .338

STATION 1 INRE BROFJORDEN LAT: N 58 22,50 LONG: E 11 26,30 BOTTOM DEPTH: 16 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD WAVE AIR (SECOMI PROD: START DURAT
 YEA MON DAY HOU MIN DIR. VEL. COVER HEIGHT TEMP DEPTH HR MT HR MT
 73 11 21 11 30 /73 11 21 10 30 W 15 M/S: 3 /8 NO OBS

DEPTH M	TEMP CELS	OXYG % SAT	A.O.U	SALT	P04P	TOTP	ORGP	NO3N	NO2N	BOTH	NH4N	SUMN	TOTN	ORGN	SIGMA	SOUNDV	STABIL				
M	CELS	ML/L	MA/L	0/00	MA/L	M/L	M/S														
0	6.9	7.02	101.5	31.747	.41	1.16	.75	3.0	.29	1.33	4.6	1.38	4.4	1.40	5.0	13.4	8.5	24.91	24.89	1474.4	1474.0
2.5	6.8	6.95	100.3	31.739	.37	.77	.40	2.7	.32	1.38	4.4	1.40	5.0	13.4	8.5	24.91	24.89	1474.4	1474.0	1474.0	1474.0
5	7.0	7.57	109.8	31.788	.41	.79	.38	3.3	.31	1.40	5.0	1.35	4.0	1.46	3.2	25.02	25.02	1477.3	1477.3	1474.9	1474.9
10	7.5	7.09	104.1	32.014	.29	.81	.52	2.4	.29	1.35	4.0	1.46	3.2	1.70	3.3	20.5	17.2	25.30	25.30	1480.7	1480.7
15	8.2	7.12	106.6	32.491	.24	.78	.54	1.5	.24	1.46	3.2	1.70	3.3	1.70	3.3	20.5	17.2	25.30	25.30	1480.7	1480.7
17	8.2	7.08	106.0	32.497	.25	.82	.57	1.4	.24	1.70	3.3	1.70	3.3	1.70	3.3	20.5	17.2	25.30	25.30	1480.7	1480.7

DEPTH M	OIL	FEN	ORGC	VEL	PH	CFPROD	NETPR	CORPR	NETOC	CARB	MG/L	/F04	/OP	TOTN	CARB	ORGC	TOTC	MEAN	C/P
M	MG/L	MG	MG/L			MGC/QMH													
0	<.05			.60							11.4								
2.5				.46							11.8								
5				.37							12.2	22.1	17.0						
10				.37							14.0								
15				.32							13.1								
17				.37							13.1	30.3	25.0						21.0

WATER SAMPLER THERMOMETER NO 44

STATION 2 (FJ 62) BROFJORDEN LAT: N 58 21.60 LONG: E 11 25.70 BOTTOM DEPTH: 22 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND DIR. WIND SW WAVE HEIGHT AIR TEMP SECCHI PROD: START DUKAT
 YEA MON DAY HOU MIN 73 11 21 11 00 73 11 21 10 00 SW 12 M/S 8/8 0.1-0.5 M

DEPTH M	TEMP. CELS.	OXYG % SAT	A.O.U	SALT MA/L	PO4F MA/L	TOTP MA/L	ORGF MA/L	NO3N MA/L	NO2N MA/L	BOTH MA/L	NH4N MA/L	SUMN MA/L	TOTN MA/L	ORGN MA/L	SIGMA M/S	SOUNDV	STABIL.
0	6.4	7.05	100.8	31.763	.21	.72	.51	2.4	.31	1.52	4.3	4.3	14.8	10.5	24.97	1472.5	
2.5	6.5	7.20	103.2	31.775	.22	.77	.55	2.5	.33	1.60	4.5	4.5	14.8	10.5	24.97	1472.9	.4
5	7.0	6.96	101.1	32.116	.22	.76	.54	2.4	.30	1.52	4.2	4.2	14.8	10.5	25.17	1475.4	81.2
10	8.3	7.23	108.8	33.027	.63	.80	.17	1.8	.35	1.97	4.1	4.1	15.5	12.1	25.70	1481.7	106.0
15	8.2	6.65	103.0	33.230	2.00	.86		1.6	.31	2.43	4.4	4.4	15.5	12.1	25.87	1481.7	34.8
20	8.2	6.98	105.0	33.324	.38	.74	.36	1.4	.29	1.71	3.4	3.4	15.5	12.1	25.95	1481.9	14.7

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	VEL.	PH	CPROD MGC/GMH	NETPR	CORPR	NETCO	CARB MG/L	SUMN /PO4	ORGN /OP	TOTN /TP	CARB /PO4P	ORGC /ORGF	TOTC /TOTP	MEAN N/P	MEAN C/P
0	.06			.37							20.5							
2.5				.41							20.3							
5	.05			.46							19.3	19.5	19.4					
10				.28							6.5							
15				.46							2.2							
20	.05			.51							8.9	34.1	21.0					20.2

WATER SAMPLER THERMOMETER NO 44

STATION 5 (FJ-63) MALMÖDRAG LAT: N 58 19.10 LONG: E 11 21.70 BOTTOM DEPTH 36 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD WAVE AIR SECCHI PROD: START DURAT
 YEA MON DAY HOU MIN DIR. VEL. COVER HEIGHT TEMP DEPTH HR MT HR MT

DEPTH M	TEMP CELS	OXYG % SAT	A.O.U. SALT MA/L	0/00 MA/L	P04P MA/L	T0TP MA/L	ORGP MA/L	N03N MA/L	N02N MA/L	BOTH MA/L	NH4N MA/L	SUMN MA/L	TOTN MA/L	ORGN MA/L	SIGMA M/L	SOUNDV M/S	STABIL
0	7.2		32.350	.33				1.9	.29		1.88	4.1		25.33	1476.4		
2.5	7.2	7.07	32.327	.73				1.8	.29		3.59	5.7		25.31*	1476.4		
5	7.4	7.10	32.359	.49	.34	.83		1.8	.28		3.59	5.6	23.3	25.31*	1477.3	-7.4	
10	7.5	6.98	32.370	.40	.29	.69		1.6	.29		1.52	3.4		25.30*	1477.7	-1.0	
15	8.1	7.04	33.090	.33	.51	.84		1.5	.28		1.87	3.6		25.78	1481.1	95.6	
20	8.2	6.96	33.462	.38	.39	.77		1.5	.31		2.78	4.6	15.7	26.06	1482.0	55.2	
30	8.5	6.60	34.190	.48	.31	.79		1.3	.34		2.24	3.9		26.58	1484.3	52.4	
34	8.8	7.04		.51				1.7	.32		1.77	3.8	30.7	26.9	NOT COMPUTED		

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	VEL MG/L	PH	CPROD MGC/GMH	NETPR MGC/GMH	CORPR	NETCO	CARB MG/L	SUMN /P04	ORGN /OP	TOTN /TP	CARB /P04P	ORGC /ORGP	TOTC /TOTP	MEAN N/P
0				.37													
2.5				.51													
5				.32													
10				.32													
15				.32													
20				.32													
30				.14													
34				.28													

AVERAGE VALUES FOR THE WATER COLUMN 0-30 M
 P04P TOTP SUMN TOTN CARB TOTC
 TONS TONS TONS TONS TONS TONS

AVERAGE VALUES FOR THE WATER COLUMN BELOW 30 M
 P04P TOTP SUMN TOTN CARB TOTC
 TONS TONS TONS TONS TONS TONS

3.2 5.7 13.7 55.7 2.2 .5 4.3

UNSTABLE DENSITY STRATIFICATION

WATER SAMPLER THERMOMETER NO 44

STATION 2 (FJ 62) BROFJORDEN LAT: N 58 21.60 LONG: E 11 25.70 BOTTOM DEPTH: 22 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND WAVE AIR SECCHI PROD: START DURAT
 YEA MON DAY HOU MIN DIR. VEL. COVER HEIGHT TEMP HR MT HR MT
 73 11 27 11 00 /73 11 27 10 00 NNE 6 M/S 6 /8 NO OBS 6.5 M 10 50 4 5

DEPTH TEMP. OXYG % SAT A.O.U SALT P04P TOTP ORGP NO3N NO2N BOTH NH4N SUMN TOTN ORGN SIGMA SOUNDV STABIL.
 M CELS. ML/L MA/L O/00 MA/L M/S
 0 5.4 32.275
 2.5 5.7 32.341
 5 6.4 32.526
 10 8.0 33.029
 15 8.0 33.072

DEPTH OIL FEN ORGC VEL. PH CPROD NETPR CORPR NETCO CARB SUMN ORGN TOTN CARB/ ORGC/ TOTC/ MEAN MEAN
 M MG/L MFG MG/L MA/L MGC/GMH MG/L /P04 /TP /P04P ORGP TOTP N/P C/P
 0 .418.0 .86 .84 .94 .92 26.0
 2.5 .418.0 .67 .74 .74 26.0
 5 .418.0 .32 .30 .36 .32 26.0
 10 .378.0 .07 .08 .08 26.1
 15 .328.0 .03 .04 .04 26.1

PRIMARY PRODUCTION VALUES INTEGRATED FROM CPROD AND CORPR VALUES ARE RESP: 4.5 AND 4.9 MGC/SCRMH

STATION 1 INREBROFJOREN LAY: N 58 22.50 LONG: E 11 26.30 BOTTOM DEPTH: 18 M

LOCAL DATE AND TIME	GREENWICH MEAN TIME	WIND DIR.	WIND VEL.	WIND SW	CLOUD COVER	WAVE HEIGHT	AIR TEMP	SECCHI DEPTH	PROD	START HR	DURAT MT						
73 12 12 09 05	73 12 12 08 05	5	5 M/S	8	46	0.0-0.1 M	2.0 C										
DEPTH (M)	TEMP (C)	OXYG (%)	SAT (ML/L)	A.O.U	SALT (MA/L)	PO4P (MA/L)	TOTP (MA/L)	NO3N (MA/L)	NO2N (MA/L)	BOTH (MA/L)	INHAN (MA/L)	SUMN (MA/L)	YOTN (MA/L)	ORGN (MA/L)	SIGMA (M/S)	SOUNDV (M/S)	STABIL.
0	3.8	7.31	96.1	12.6	31.675	.49	3.9	.46	1.57	5.9	36.5	30.6	25.16	1461.6			
5	4.0	7.55	102.0		31.967	.48	3.7	.39	1.48	5.6	34.6	29.0	25.40	1463.0			42.5
10	4.1	7.49	101.4		32.034	.47	3.8	.44	1.55	5.8			25.44	1463.4			9.6
15	4.1	7.38	100.0		32.066	.49	3.8	.39	1.48	5.7			25.47	1463.7			4.1
19	4.1	7.39	100.1		32.076	.47	1.39	.39	1.39				25.47	1463.7			2.5

DEPTH (M)	CHL (MG/L)	FEN (MG/L)	ORGC (MG/L)	VEL (M/S)	PH	CPROD (MCC/GMH)	NETPR (MCC/GMH)	CORFR (MCC/GMH)	NETGC (MCC/GMH)	CARD (MCC/L)	SUMN (MCC/L)	ORGN (MCC/L)	TOTN (MCC/L)	CARB (MCC/L)	ORGP (MCC/L)	TOYCP (MCC/L)	MEAN (MCC/L)
0					8.6					23.1	12.1						3917
5					8.3					24.6	11.7						4300
10					8.3					24.7	22.4						4376
15					8.3					24.7	11.5						4290
19					8.2					25.1							4430

NOTES: U/P/T/HT/TS

STATION 2 (FU 62) BRORJORDEN LAT: N 58 21.60 LONG: E 11 25.70 BOTTOM DEPTH: 22 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD AIR SECCHI PROD: START DURAT
 YEA MON DAY HOU MIN DIR. VEL. COVER HEIGHT TEMP DEPTH HR MT HR MT
 73 12 12 09 30 73 12 12 08 30 SW 5 M/S 8 / 8 0 = 0.1 M 2.2 C

DEPTH	TEMP	OXYG %	SAT	A.O.U.	SALT	P04P	T0TP	ORGP	N03N	N02N	BOTH	NH4N	SUMN	T0TN	ORGN	SIGMA	SOUNDV	STABIL.
M	CELS.	ML/L	ML/L	ML/L	ML/L	ML/L	ML/L	ML/L	ML/L	ML/L	ML/L	ML/L	ML/L	ML/L	ML/L	M/L	M/S	
0	4.6	7.49	102.5		31.877	.46			2.3	.39	1.08	3.7	25.2	21.4	25.27	1465.1		
5	4.6	7.54	103.2		31.875	.48			2.7	.36	1.14	4.2	27.6	23.4	25.27	1465.1	.1	
10	4.6	7.57	103.6		31.876	.49			3.0	.31	1.27	4.6			25.27	1465.2	.2	
15	4.4	7.52	102.4		31.928	.48	.80	.32	3.1	.34	1.19	4.6			25.33	1464.4	12.7	
20	4.3	7.47	101.6		31.999	.51	.80	.29	3.2	.35	1.37	4.9	34.3	29.4	25.39	1464.4	12.1	
23	4.2	7.42	100.7		32.057	.47	.81	.34	3.7	.35		34.3			25.45	1464.1	19.0	

DEPTH	OIL	FEN	ORGC	VEL.	RH	CPROD	NETPR	CORPR	NETCO	CARB	SUMN	ORGN	T0TN	CARB	ORGC	T0TC	MEAN
M	MG/L	MG/L	MG/L	MG/L		MGC/QMH			MG/L	MG/L	/P04	/OP	/TF	P04P	ORGP	T0TP	C/P
0					8.3				24.5	8.1				4429			
5					8.3				24.4	8.8				4235			
10					8.3				24.4	9.4				4149			
15					8.3				24.5	9.6				4250			
20					8.3				24.6	9.7			42.9	4012			
23					8.3				24.6				42.4	4367			42.6

NOTE: U/F/T/H/E/S

STATION 3 STRETUDDEN

LAT: N 58 20.55 LONG: E 11 24.15

BOTTOM DEPTH 48 M

LOCAL DATE AND TIME	GREENWICH MEAN TIME	WIND DIR	WIND VEL	CLOUD COVER	WAVE HEIGHT	AIR TEMP	SECCOMI DEPTH	PROD	START	DURAT						
YEA MON DAY HOU MIN		SW	M/S	S / 8	M	C	HR MT	HR MT	HR MT							
73 12 12 09 10	73 12 12 06 10				0.1-0.5 M	21.2 C										
DEPTH TEMP	OXYG % SAT	A.O.U	SALT	PO4P	TOTP	ORGF	NO3N	NO2N	BOTH	NH4N	SUMN	TOTN	ORGN	SIGMA	SOUNDY	STABIL
M	CELS	ML/L	(MA/L)	(MA/L)	(MA/L)	(MA/L)	(MA/L)	(MA/L)	(MA/L)	(MA/L)	(MA/L)	(MA/L)	(MA/L)	(MA/L)	(M/S)	
0	4.6	7.63	104.3	31.701	.45	.73	.52	.33	1.02	1.9	19.9	18.0	25.13	1464.9		
5	4.7	7.65	104.8	31.699	.49	.76	2.8	.30	1.15	4.3	24.2	19.9	25.12	1465.4		-2.4
10	4.7	7.68	105.4	31.707	.45	.78	3.1	.33	1.16	4.6			25.12	1465.6		
15	4.7	7.54	103.4	31.713	.46	.79	3.1	.31	1.16	4.6			25.12	1465.7		
20	4.7	7.58	104.0	31.841	.46	.79	3.2	.31	1.14	4.7	35.7	31.1	25.23	1465.9		20.9
25	4.6	7.49	102.5	31.902	.44	.88	3.5	.35	1.56	5.4			25.29	1465.6		12.0
30	4.5	7.48	102.1	31.993	.46	.77	3.6	.37	1.68	5.7			25.37	1465.2		17.1
44	4.4	7.39	100.7	32.002	.47	.66	.39				27.9		25.39	1465.2		1.0

DEPTH	OIL	FEN	ORGC	YEL	PH	CPROD	NETPR	CORPR	NETCO	CARB	SUMN	ORGN	TOTN	CARB	PO4P	ORGP	TOTP	MEAN
M	(MG/L)	(MG/L)	(MG/L)			(MGC/QMH)			(MG/L)	(MG/L)	(PO4 / GP)	(ORGN / TTP)	(TOTN / PO4P)	(CORG / CRGP)	(TOTP / N/P)	MEAN	C/P	
0					8.3				24.4	4.2	64.3	27.2	4519					
5					8.3				24.4	8.8	73.7	31.0	4149					
10					8.3				24.4	10.3			4517					
15					8.3				24.4	9.9			4419					
20					8.3				24.5	10.1	94.2	45.2	4426					
25					8.3				24.5	12.4			4641					
30					8.3				24.6	12.3			4446					
44					8.3				24.6	32.5			4352					

* UNSTABLE DENSITY STRATIFICATION
 NOTE: U/F THE TIS

34.8
32.5

STATION 4 YTTRE BROFJORDEN LAT: N 58 19.90 LONG: E 11 23.10 BOTTOM DEPTH 34 M
 LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND CLOUD WAVE AIR SECCHI PROD: START DURAT
 YEA MON DAY HOU MIN 73 12 12 08 40 SW 5 M/S 8 / 8 0.1-0.5 M 2.2 C DEPTH HR MT HR MT

DEPTH M	TEMP CELS	OXYG ML/L	% SAT	A.O.U	SALT MA/L	PO4P MA/L	TOTP MA/L	ORGP MA/L	NO3N MA/L	NO2N MA/L	BOTH MA/L	NH4N MA/L	SUMN MA/L	TOTN MA/L	ORGN MA/L	SIGMA M/S	SOUNDV	STABIL
0	4.7	7.61	104.1	31.588	.46	.77	.31	.26	.28	1.07	3.9	24.0	20.0	25.03	1465.0			
5	4.8	7.51	103.0	31.584	.45	.79	.34	.30	.27	1.12	4.4			25.02*	1465.5		-2.5	
10	4.7	7.57	103.8	31.654	.48	.68	.20	.31	.30	1.18	4.5	23.1	18.6	25.08	1465.5		11.7	
15	4.7	7.53	103.2	31.719	.48	.85	.37	.31	.31	1.23	4.6			25.14	1465.5		11.3	
20	4.7	7.51	103.0	31.771	.48	.80	.32	.34	.29	1.17	4.8	23.7	18.8	25.18	1465.7		8.0	
30	4.6	7.49	102.6	31.888	.45	.82	.37	.33	.31	1.30	5.0			25.28	1465.7		10.1	
33	4.7	7.56	103.6	31.897	.45	.78	.33	.39	.31	1.48	5.7	33.2	27.5	25.28	1466.0		.6	

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	YEL	PH	CPROD MGC/GMH	NETPR	CORPR	NETCO	CARB MG/L	SUMN /PO4	ORGN /OP	TOTN /TP	CARB/PO4P	ORGC/ ORGP	TOTC/ TOTP	MEAN N/P	MEAN C/P
0					8.3					24.3	8.5	64.7	31.1	4405				
5					8.3					24.4	9.8			4511				
10					8.3					24.4	9.5	92.8	34.0	4232				
15					8.3					24.4	9.6			4236				
20					8.3					24.4	10.1	58.8	29.6	4238				
30					8.3					24.5	11.0			4528				31.6
33					8.3					24.5	12.7	83.3	42.5	4528				42.5

* = UNSTABLE DENSITY STRATIFICATION
 NOTE: U/F THETIS

STATION 5 (FU 63) MAUMDRAG LAT: N 58 19.10 LONG: E 11 21.70 BOTTOM DEPTH 36 M

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND WAVE AIR SECCI PROD: START DURAT
 YEA: MON DAY: HOU: MIN DIR. VEL. COVER HEIGHT TEMP HR: MT: HR: MT

73 12 12 10 25 / 73 12 12 09 25 SW 5 M/S 8 / 8 0.1-0.5 M 2.2 C

DEPTH M	TEMP. CELS.	OXYG % SAT	A. O. U. SALT	NO3N	NO2N	BOTH	NH4N	SUMN	TOTN	ORGN	SIGMA	SOUNDV	STABIL.		
	ML/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	M/S			
0	4.8	7.61	104.5	31.481	.46	.76	.30	2.4	.28	.98	3.7	24.6	20.9	24.93	1465.5
5	4.9	7.58	104.2	31.481	.48	.77	.29	2.6	.26	.98	4.1	21.6	17.5	24.93*	1465.8
10	4.8	7.53	103.4	31.568	.48	.78	.30	2.9	.29	1.06	4.3			25.00	1465.7
15	4.8	7.57	104.0	31.623	.48	.78	.30	2.9	.30	.99	4.2			25.05	1465.9
20	4.7	7.47	102.4	31.871	.48	.77	.29	3.2	.31	1.16	4.6	22.7	18.0	25.26	1465.7
30	6.1	7.07	101.3	33.387	.51	.60	.29	2.7	.32	1.07	4.1			26.29	1473.8
37	6.2	7.06	101.5	33.597	.52	.98	.46	2.7	.31	1.12	4.1	26.3	22.3	26.45	1474.4

DEPTH M OIL FEN ORGC YEL. PH CPROD NETPR CORPR NETOC CARB SUMN ORGN TOTN CARB/ ORGC/ TOTC/ MEAN MEAN
 MG/L MG/L MG/L

0	8.3					24.2	8.1	69.6	32.3	4388
5	8.3					24.3	8.5	60.2	28.0	4214
10	8.3					24.3	8.9			4209
15	8.3					24.3	8.8			4212
20	8.3					24.4	9.6	62.2	29.4	4234
30	8.3					24.7	8.0			4033
37	8.3					24.8	7.9	48.4	26.9	3972

AVERAGE VALUES FOR THE WATER COLUMN 0-30 M AVERAGE VALUES FOR THE WATER COLUMN BELOW 30 M
 P04P TOTP SUMN TOTN CARB TOTC P04P TOTP SUMN TOTN CARB TOTC
 TONS TONS TONS TONS TONS TONS TONS TONS TONS TONS

3.4	5.6	14.8	89.9	5647	.1	.3	.7	4.1	246
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UNSTABLE DENSITY STRATIFICATION
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