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BROFJORDEN VII

OCEANOGRAPHICAL DATA

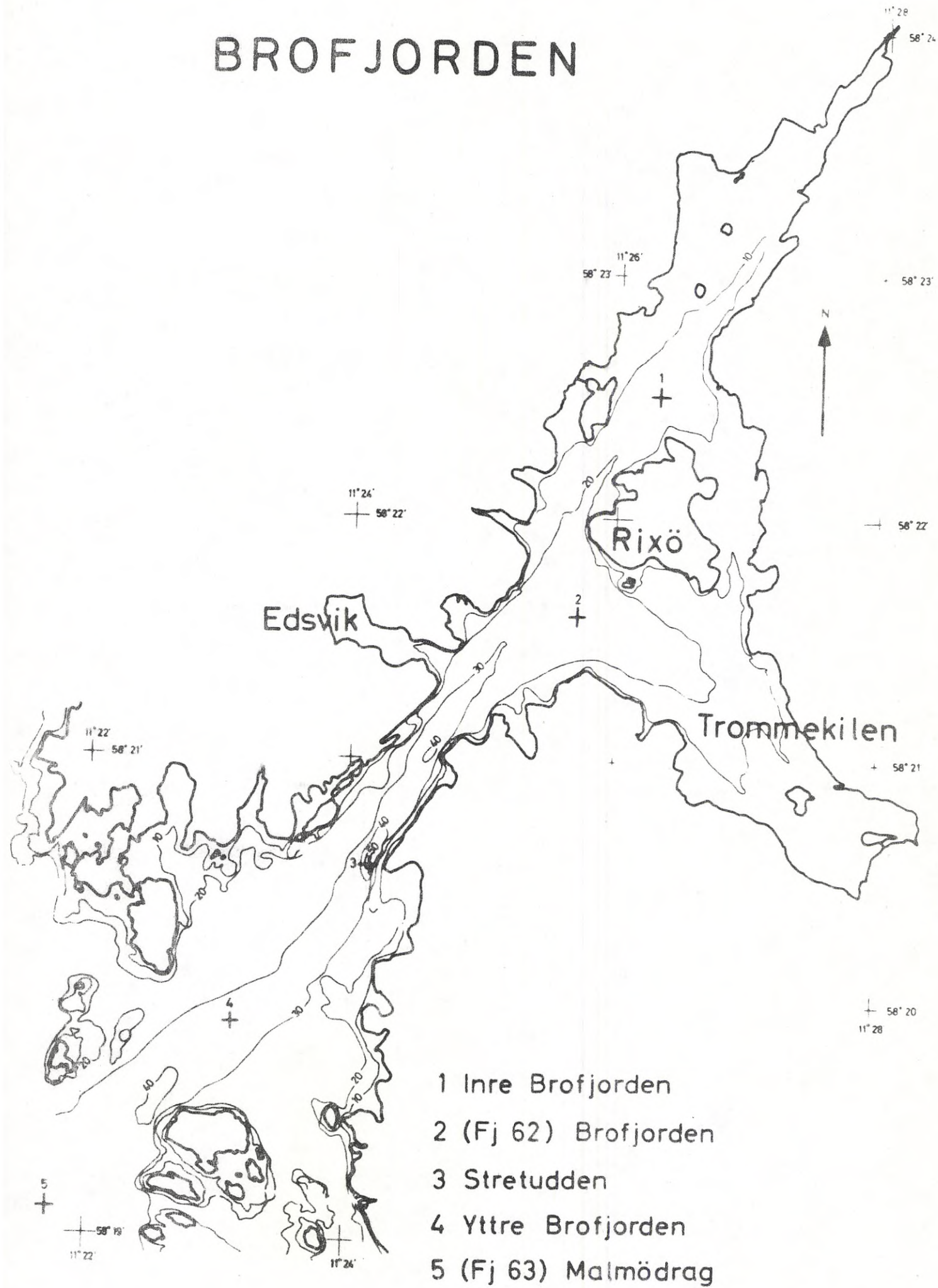
January - June 1974

edited by

Bertil Öström

October 1974

# BROFJORDEN





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

LOCAL DATE AND TIME GREENWICH MEAN TIME WIND WIND WAVE AIR SECCH: PROD: START DURAT  
 YEA MON DAY HOU MIN 74 01 15 10 30 74 01 15 09 30 S 8 M/S NO OBS 0.1-0.5 M 2.0 C DEPTH HR MT HR MT

DEPTH M	CELS.	OXYG %	SAT ML/L	A.O.U MA/L	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 MA/L	SOUNDV M/S	STABIL.
0	1.5	8.64	102.9		22.833	.76	1.42	.66	6.4	.26		2.43	9.1	23.8	14.7	18.30	1439.5	
2.5	1.5	8.63	103.2		23.356	.66	1.22	.56	6.6	.27		2.09	9.0			18.72	1440.2	167.2
5	1.4	8.54	101.9		23.446	.67	1.08	.41	6.4	.25		1.92	8.6	34.5	25.9	18.80	1440.0	30.3
10	1.4	8.67	103.6		23.886	.66	1.04	.38	5.1	.23		1.69	7.0			19.15	1440.4	70.7
15	2.0	8.30	102.0		25.636	.66	.97	.31	4.6	.16		1.30	6.0			20.52	1445.8	273.4
16	2.0	8.21	101.1		25.745	.59	.94	.35		.16		1.61		22.7		20.60	1445.9	86.7

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	YEL. MG/L	PH	CPROD MGC/QMH	NETPR	CORPR	NETCO	CARB MG/L	SUMN /PO4	ORGN /OP	TOTN /TP	CARB P04P	ORGC ORGP	TOTC TOTP	MEAN N/P	MEAN C/P
0	<	.05									12.0	22.2	16.8					
2.5				1.29							13.6							
5				1.01							12.7	63.9	31.9					
10				1.06							10.6							
15				.83							9.1							
16				.60							24.2							24.3

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 DEPTH HR MT HR MT  
 74 01 15 12 30 74 01 15 11 30 S 10 M/S NO OBS 0.1-0.5 M 2.0 C

DEPTH M	TEMP CELS	OXYG %	SAT ML/L	A.O.U MA/L	SALT 0/00	P04P MA/L	TOTP MA/L	ORGP MA/L	N03N MA/L	N02N MA/L	B0TH MA/L	NH4N MA/L	SUMN MA/L	TOTN MA/L	ORGN MA/L	SIGMA	SOUNDV	STABIL.
0	1 4	8 60	102.9		23.951	.67	.96	.29	4.1	.24	1.74	6.1	17.9	11.8	19.20	1440.5		
2.5	1 4	8 65	103.5		24.000	.64	.96	.32	4.7	.23	1.71	6.7			19.24	1440.4		16.6
5	1 5	8 62	103.5		24.105	.63	.92	.29	4.9	.23	1.56	6.6	23.3	16.7	19.32	1441.3		31.0
10	1 5	8 62	103.6		24.153	.63	.91	.28	4.8	.22	1.53	6.5			19.36	1441.4		7.7
15	1 7	8 45	102.6		24.934	.61	.92	.31	4.4	.19	1.35	5.9			19.97	1443.5		122.9
20	2 0	8 39	103.1		25.568	.64	.89	.25	4.2	.15	1.23	5.6	19.3	13.7	20.46	1445.8		98.2
22	1 9	8 17	100.2		25.509	.63	.99	.36	4.4	.18	1.26	5.9	14.9	9.1	20.42*	1445.3		-20.7

DEPTH M	OIL MG/L	FEN ORGC MG/L	YEL. MG/L	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		.37							9.1	41.3	18.6					
2.5	< .05		.92						10.4								
5	< .05		.46						10.6	56.8	25.3						
10			.46						10.4								
15			.32						9.7								
20	< .05		.69						8.8	54.4	21.7						
22			.32						9.4	25.0	15.1						20.2

\* = UNSTABLE DENSITY STRATIFICATION

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 DEPTH HR MT HR MT  
 74 01 15 14 30 / 74 01 15 13 30 S 14 M/S NO OBS 0.5-1.2 M 2.0 C

DEPTH M	TEMP CELS	OXYG % SAT	A.O.U. SALT	PO4P	TOTP	ORGP	NO3N	NO2N	BOTH	NH4N	SUMN	TOTN	ORGN	SIGMA	SOUNDV	STABIL.
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	1.6	8.59	103.6	24.301	.70	.93	.23	3.5	.22	1.56	5.3	12.2	6.9	19.47	1441.9	
5	1.6	8.64	104.2	24.329	.69	.93	.24	4.4	.22	1.74	6.4	15.2	8.8	19.49	1442.0	4.5
10	1.9	8.56	104.5	24.978	.60	.88	.28	4.0	.19	1.38	5.6			20.00	1444.4	100.7
15	1.9	8.63	105.3	25.012	.64	.91	.27	4.0	.20	1.38	5.6			20.02	1444.5	5.4
20	2.2	8.50	105.0	25.681	.61	.91	.30	3.7	.17	1.26	5.1	13.6	8.5	20.55	1446.6	104.1
30	2.5	8.26	103.7	26.830	.65	.88	.23	3.7	.15	1.20	5.0			21.44	1449.9	89.5
40	5.1	6.72	94.0	38.5	.33	.178	.80	1.14	.33	.94	5.7	13.4		26.24	1469.6	480.3
48	5.0	6.83	95.1	31.5	.33	.111	.80	1.30	.30	1.06				26.21*	1469.1	4.5

DEPTH M	OIL	FEN	ORGC	YEL.	PH	CPROD	NETPR	CORPR	NETCO	CARB	SUMN	ORGN	TOTN	CARB	ORGC	TOTC	MEAN
M	MG/L	MG	MG/L			MGC/QMH	MA/L	MA/L	MA/L	MG/L	/P04	/OP	/TP	P04P	ORGP	TOTP	MEAN
0	<	.05		.23							7.6	29.8	13.1				
5				.05							9.3	36.3	16.3				
10				.14							9.2						
15				.23							8.7						
20				.09							8.3	28.8	15.0				14.8
30				.09							7.7						
40				.00							7.1						
48				.00									10.3				10.3

\* = UNSTABLE DENSITY STRATIFICATION WATER SAMPLER THERMOMETER NO 44

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 WAVE AIR SECCHI PRD: START DURAT  
 YEA MON DAY HOU MIN /74 01 28 16 00 /74 01 28 15 00 DIR. VEL. COVER HEIGHT TEMP DEPTH HR MT HR MT

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 MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L M/S

0	2.4	8.59	102.4	19.490	.71	1.39	.68	8.0	.36	4.05	12.4	48.2	35.8	15.60	1439.2
2.5	2.1	8.38	102.5	24.401	.67	.91	.24	7.4	.25	2.14	9.8			19.53	1444.4
5	2.3	8.36	103.3	25.151	.64	.84	.20	6.0	.23	1.92	8.1	25.7	17.6	20.12	1446.3
10	4.4	7.02	96.0	26.2	.63	1.25	.62	5.0	.21	.88	6.1			25.70	1465.2
15	4.6	6.96	96.0	26.1	.71	1.11	.40	5.1	.22	.81	6.2			26.05	1466.7
18	4.6	7.13	98.1	32.877	.76	1.01	.25		.21	.84		17.8		26.06	1466.6

DEPTH OIL FEN ORGC YEL. PH CPROD NETPR CORPR NETCO CARB SUMN ORGN TOTN CARB/ ORGC/ TOTC/ 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															
18															

WATER SAMPLER THERMOMETER NO 44

17.5 52.8 34.7  
 14.7  
 12.6 89.5 30.6  
 9.6  
 8.7  
 17.6  
 27.6



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 DIR.	WIND VEL.	CLOUD COVER	WAVE HEIGHT	AIR TEMP	SECCHI DEPTH	PROD:	START	DURAT						
YEA MON DAY HOU MIN	74 01 28 15 35	74 01 28 14 35	S 3 M/S	8 / 8	0 -0.1 M			HR MT	HR MT	HR MT						
DEPTH TEMP. CELS.	OXYG % 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	2.3	8.53	104.1	23.332	.70	1.00	.30	7.5	.30	2.58	10.4	25.1	14.7	18.67	1443.8	
2.5	2.3	8.46	104.1	24.579	.72	1.07	.30	6.6	.30	2.17	9.0			19.66	1445.5	397.2
5	2.5	8.34	103.9	25.798	.70	.87	.28	5.2	.28	1.92	7.4	21.2	13.9	20.62	1448.1	383.6
10	4.4	7.34	100.2	32.289	.64	.84	.29	4.6	.29	.92	5.8			25.62	1464.8	1000.4
15	4.6	7.15	98.6	32.967	.65	.96	.31	4.8	.31	.80	5.9			26.13	1466.9	102.1
20	4.6	7.12	98.4	33.098	.69	.99	.29	5.0	.29	.95	6.3	16.1	9.8	26.23	1467.2	20.4
22	4.6	7.08	97.7	33.031	.69	.97	.29	4.9	.29	.92	6.1	15.7	9.6	26.18*	1467.1	~25.5

DEPTH	OIL	FEN	ORGC	YEL.	PH	CPROD	NETPR	CORPR	NETCO	CARB	SUMN	ORGN	TOTN	CARB/	ORGC/	TOTC/	MEAN	
M	MG/L	MG	MG/L			MGC/QMH			MG/L	MG/L	/PO4	/OP	/TP	PO4P	ORGP	TOTP	N/P	C/P
0	<	<	.05	1.15							14.9	49.0	25.1					
2.5				.92							12.5							
5	<	<	.05	.69							10.5	82.0	24.4					
10				.41							9.1							
15				.32							9.0							
20	<	<	.05	.28							9.1	32.5	16.2					
22				.37							8.9	34.1	16.2					20.5

\* = UNSTABLE DENSITY STRATIFICATION

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 DEPTH HR MT HR MT  
 74 01 28 13 40 74 01 28 12 40 S 6 M/S 8 /8 0.1-0.5 M

DEPTH M	TEMP. CELS	OXYG %	SAT	A.O.U.	SALT	P04P	TOTP	ORGP	NO3N	NO2N	BOTH	NH4N	SUMN	TOTN	ORGN	SIGMA	SOUNDV	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	MA/L	M/S	
0	2.3	8.44	103.5		24.296	.63	.98	.35	5.9	.26	2.17	8.4	28.4	20.0	19.44	1444.8		
5	2.4	8.39	104.1		25.397	.62	.95	.33	5.8	.28	1.96	8.0	25.1	17.0	20.31	1447.1	173.6	
10	4.0	7.46	100.0		31.160	.63	.88	.25	4.9	.28	1.20	6.4			24.76	1461.6	892.0	
15	4.5	7.22	99.1	5.7	32.668	.63	.94	.31	5.0	.32	.94	6.3			25.90	1466.0	228.0	
20	4.5	7.24	99.5	3.2	32.809	.64	.87	.23	5.0	.41	1.06	6.4	17.7	11.3	26.02	1466.3	22.3	
30	4.5	7.16	98.5	9.5	33.056	.69	1.05	.36	5.1	.43	1.09	6.6			26.21	1466.8	19.5	
40	4.6	7.20	99.4	4.2	33.145	.71	.94	.23		.41	1.12				26.27	1467.5	6.0	
48	4.6	7.14	98.6	8.9	33.177	.69	1.03	.34	5.1	.32	1.19	6.6	18.9	12.3	26.30	1467.7	3.2	

DEPTH M	OIL MG/L	FEN MG/L	ORGC	YEL	PH	CPROD	NETPR	CORPR	NETCO	CARB	SUMN	ORGN	TOTN	CARB	ORGC	TOTC	MEAN
						MGC/GMH			MG/L	MG/L	/P04	/OP	/TP	P04P	ORGP	TOTP	N/P
0	<	.05		1.06							13.2	57.4	28.9				
5				.83							13.0	51.6	26.4				
10				.46							10.1						
15				.32							10.0						
20				.28							10.0	49.7	20.3				25.2
30				.23							9.5						
40				.28							9.6	36.0	18.4				18.4
48				.23													

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 74 01 28 12 40 74 01 28 11 40 S 6 M/S 8 / 8 0.1-0.5 M HEIGHT TEMP DEPTH HR MT HR MT

DEPTH M	TEMP CELS	OXYG %	SAT ML/L	A.O.U MA/L	SALT 0/00	P04P MA/L	T0TP 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	2.3	8.48	104.3		24.617	.62	.97	.35	6.1	.25		2.10	8.4	22.4	14.0	19.69	1445.5	
5	2.5	8.44	105.0		25.434	.75	.69		5.3	.24		1.85	7.4	23.3	15.9	20.33	1447.6	127.7
10	3.8	7.68	102.3		30.736	1.34	.72		4.7	.33		1.50	6.5		24.44		1460.4	822.7
15	4.3	7.29	99.2	5.1	32.186	1.01	.82	.15	5.0	.32		1.23	6.6		25.54		1464.6	220.3
20	4.5	7.31	100.5		32.860	.75	.90		5.3	.39		1.09	6.7	14.7	8.0	26.06	1466.4	102.5
30	4.6	7.13	98.3	11.3	33.145	1.18	.85		5.2	.46		1.17	6.8		26.28		1467.1	22.0
33	4.7	7.13	98.6	9.1	33.214	.83	.98	.15	5.4	.33		1.16	6.9	17.6	10.7	26.32	1467.8	13.9

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										13.6	39.9	23.1					
5										9.9		33.8					
10										4.8							
15										6.5							
20										9.0	52.3	16.4					24.4
30										5.8							18.0
33										8.3	70.0	18.0					

WATER SAMPLER THERMOMETER NO 44

STATION 5 (FJ 63) MALM8DRAG LAT: N 58 19.10 LONG: E 11 21.70 BOTTOM DEPTH 36 M

LOCAL DATE AND TIME	GREENWICH MEAN TIME	WIND DIR.	WIND VEL.	WAVE HEIGHT	AIR TEMP	SECCHI DEPTH	PROD: START	DURAT									
YEA MON DAY HOU MIN							HR MT	HR MT									
74 01 28 11 00	74 01 28 10 00	4	0.1-0.5 M														
DEPTH M	TEMP CELS	OXYG %	SAT ML/L	A.O.U MA/L	TOTP MA/L	CRGP MA/L	N03N MA/L	N02N MA/L	BOTH MA/L	SUMN MA/L	TOTN MA/L	ORGN MA/L	SIGMA MA/L	SOUNDV M/S	STABIL.		
0	2.4	8.50	105.0		24.839	.82	.89	.07	5.4	.25	1.93	7.6	27.6	20.0	19.86	1446.2	
2.5	2.4	8.44	104.6		25.084		90		5.1	.26	1.89	7.2	20.05		20.05	1446.7	76.8
5	2.5	8.53	106.0		25.368	.63	86	.23	5.3	.26	1.75	7.3	21.8	14.5	20.28	1447.3	89.4
10	2.8	8.23	103.9		26.595	.90	84		4.7	.29	1.90	6.9	21.23		21.23	1450.5	191.1
15	4.1	7.52	101.6		31.808	.76	92	.16	4.8	.32	1.30	6.4	25.26		25.26	1463.2	806.0
20	4.4	7.43	101.8		32.733	.88	89	.01	5.0	.40	1.08	6.5	20.1	13.6	25.97	1465.8	140.6
30	4.7	7.12	98.4	10.0	33.232	.74	97	.23	5.2	.32	.94	6.5	26.34		26.34	1467.7	36.9
34	4.6	7.12	98.4	10.5	33.202	.98	97		5.5	.34	1.08	6.9	20.2	13.4	26.32*	1467.5	-4.7

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				.14							9.3		31.0					
2.5				.14							11.5	63.6	25.3					
5				.05							7.7							
10				.00							8.4							
15				.00							7.4		22.6					
20				.00							8.8							
30				.00							7.0		20.8					
34				.00														

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	P04P TONS	TOTP TONS	SUMN TONS	TOTN TONS
5.1	6.8	22.6	70.7	.2	.3	.9	2.5

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 /74 02 18 15 45 /74 02 18 14 45 DIR. VEL. COVER HEIGHT TEMP DEPTH HR MT HR MT

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 O/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	2.8	7.96	99.0	6.9	24.294	.61	.87	.26	6.4	.39	3.54	10.4	26.9	16.5	19.41	1447.3	
2.5	2.7	7.83	97.6	17.2	24.864	.60	.86	.26	7.3	.42	2.21	9.9		19.86	1447.7	183.6	
5	2.7	7.84	98.0	14.6	25.302	.55	.92	.37	6.7	.42	2.00	9.2	30.9	21.8	20.21	1448.3	139.3
10	2.8	8.09				.55	.87	.32	8.3	.35	1.07	9.7				NOT COMPUTED	
15	3.0	7.60				.56	.86	.30	6.6	.39	1.02	8.0				NOT COMPUTED	
18	3.0	7.63				.60	.85	.25		.37	1.52	38.1				NOT COMPUTED	

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

0	<	.05															
2.5																	
5																	
10																	
15																	
18																	

WATER SAMPLER THERMOMETER NO 44

17.1 62.8 30.9  
 16.6  
 16.6 59.0 33.6  
 17.7  
 14.2 44.9  
 36.5

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. HEIGHT HEIGHT DEPTH HR MT HR MT  
 74 02 18 14 40 74 02 18 13 40 NE 3 M/S 0 0.1 M 6.0 M

DEPTH M	TEMP. CELS.	OXYG % SAT	A.O.U.	SALT MA/L	P04P MA/L	TOTP 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/S	SOUNDV	STABIL.	
0	2.7	8.07	100.0	24.037	.54	.91	.37	7.8	.34		2.44	10.5	31.5	21.0	19.21	1446.5		
2.5	2.7	7.98	99.0	7.1	24.258	.86	.31	8.4	.34		2.21	11.0		19.38	1446.8	70.3		
5	2.7	7.90	98.5	10.6	25.117	.83	.19	7.2	.37		2.00	9.6	31.2	21.6	20.06	1448.0	272.9	
10	2.8	7.83	98.1	13.2	25.644	.85	.12	6.6	.35		1.18	8.1		20.48	1449.0	83.2		
15	3.1	7.59	97.2	19.7	27.341	.84	.08	6.4	.40		.87	7.7		21.80	1453.0	264.6		
20	3.4	7.47	96.9	21.2	28.436	.83	.18	6.4	.39		1.08	7.9	23.4	15.5	22.65	1455.6	170.2	
23	3.7	7.04	93.3	45.3	30.200	1.07	.11	6.8	.30		1.11	8.2	21.4	13.2	24.03	1459.5	457.2	

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									19.5	56.6	34.6					
2.5	<.05									20.0							
5	<.05									14.9		37.6					
10										11.1							
15										10.0							
20	<.05									12.1	87.3	28.2					
23										8.6	20.0						30.1

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

74 02 18 10 20 74 02 18 09 20 NE 3 M/S 8 /8 0 → 0.1 M 3.0 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	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	MA/L	M/S	
0	2.7	8.08	100.3	24.466	.63	.95	.32	7.4	.31	2.06	9.8	22.5	12.7	19.55	1446.9		
5	2.8	7.92	99.0	6.9	25.087	.57	.40	6.9	.36	1.95	9.2	28.2	19.0	20.04	1448.4	97.2	
10	2.9	7.80	98.3	11.9	25.959	.54	.36	6.6	.47	1.59	8.6			20.72	1450.1	137.3	
15	3.2	7.67	98.4	11.2	27.249	.56	1.18	6.5	.51	1.35	8.3			21.72	1453.2	200.7	
20	3.6	7.39	96.8	21.6	29.227	.56	1.08	7.0	.53	1.23	8.7	25.1	16.3	23.27	1457.5	308.5	
30	4.3	6.95	94.6	35.6	32.133	.66	.93	7.5	.48	1.32	9.3			25.50	1464.7	223.4	
34	4.4	6.87	94.1	38.8	32.529	.70	1.00	7.5	.37	1.36	9.2	22.9	13.7	25.80	1465.8	75.8	

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

0																			
5																			
10										15.5	39.6	23.7							
15										16.1	47.9	29.1							
20										16.0									
30										14.8									
34										15.5	31.5	23.2							
										14.0									
										13.2	45.2	22.9							

WATER SAMPLER THERMOMETER NO 44

25.3  
22.9

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

LOCAL DATE AND TIME 74 02 18 12 00 GREENWICH MEAN TIME 74 02 18 11 00 WIND WAVE AIR SECCH PROD START DURAT  
 YEA MON DAY HOU MIN DIR VEL COVER HEIGHT TEMP DEPTH HR INT HR MT  
 74 02 18 12 00 74 02 18 11 00 NENE 2 2 M/S 8 8 8/8 0 0 0 0.1 M 3 3.0 C 8 8.0 M

DEPTH M	TEMP CELS	OXYG % SAT	A.O.U	SALT P04P	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	M/M	M/S	
0	27.8	100.8	24.052	5.53	8.92	3.39	8.5	4.42	1.095	10.9	21.6	10.7	19.22	1446.4
2.5	27.7	99.0	24.582	5.54	8.86	3.32	8.0	4.45	1.091	10.4	19.6	9.8	19.64	1447.3
5	28.7	99.0	25.081	5.56	8.86	3.32	7.4	4.46	2.000	9.9	19.6	9.8	20.03	1448.2
10	28.7	99.2	25.668	5.53	2.36	1.83	7.2	4.46	1.087	9.6	19.6	9.8	20.50	1449.3
15	32.7	93.9	26.838	5.54	1.10	0.56	6.8	4.48	1.056	8.8	19.6	9.8	21.40	1452.6
20	33.8	98.4	30.519	5.67	0.99	0.32	7.6	4.48	1.112	9.2	15.3	6.1	24.27	1460.4
30	43.6	90.1	32.267	5.65	1.01	0.36	8.1	3.39	1.116	9.6	19.6	9.8	25.61	1464.9
34	43.6	93.4	32.302	5.60	1.00	0.40	7.1	3.20	1.117	8.4	19.0	10.5	25.64	1465.0

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

0	< 0.05																		
2.5	< 0.05																		
5	< 0.05																		
10	< 0.05																		
15	< 0.05																		
20	< 0.05																		
30																			
34																			

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

4.4	7.1	330.1	683.6	2.2	3.3	1.2	2.9												





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 SECCH PROD: START DURAT  
 YEA MON DAY HOU MIN 74 02 25 14 20 /74 02 25 13 20 SW 1 M/S 3 /8 0.0-0.1 M 0.0-0.1 M DEPTH HR MT HR MT

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/100 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	2.6	8.32	102.7	23.904	46	83	37	5.0	38	97	6.4	15.5	9.2	19.11	1445.9
2.5	2.4	8.19	100.6	23.920	55	82	27	6.8	39	112	8.3	15.2	7.5	19.13	1445.1
5	3.3	7.45	96.4	24.7	28.189	99	44	6.1	36	127	7.7	15.2	7.5	22.46	1454.9
10	4.5	6.78	93.1	45.1	32.674	92	25	6.2	36	125	7.9	15.2	7.5	25.91	1466.0
15	4.6	6.70	92.2	50.6	32.844	95	27	6.5	38	129	8.2	15.2	7.5	26.04	1466.5
18	4.5	6.67	91.7	53.9	32.850	95	27	6.5	38	1328.14	8.2	15.2	7.5	26.05	1466.3

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

0 < .05 /P04 /OP /TP P04P ORGP TOTP N/P C/P  
 2.5 13.8 24.8 18.7  
 5 15.0  
 10 14.0 17.1 15.3  
 15 11.8  
 18 12.1

17.0

7.00 1

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 DEPTH HR MT HR MT  
 74 02 25 13 43 74 02 25 12 43 SW 1 M/S 3 / 8 0 --0.1 M

DEPTH M	TEMP CELS	OXYG % SAT	A.O.U	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	STABIL
0	2.7	8.31	102.9	23.929	.49	.81	.32	6.8	.40	.92	8.2	25.1	16.9	19.12	1446.4		
2.5	2.6	8.29	102.3	23.922	.52	.72	.20	7.5	.41	.87	8.8			19.12*	1446.0		
5	2.5	8.21	101.3	24.223	.59	.78	.19	7.3	.43	.95	8.7	33.5	24.8	19.37	1446.0		98.0
10	3.5	7.45	99.7	1.7 32.618	.62	.91	.29	6.6	.34	1.09	8.0			25.96	1461.6		1319.8
15	4.5	6.89	94.7	34.2 32.829	.75	1.07	.32	7.2	.43	1.11	8.7			26.03	1466.3		13.1
20	4.6	6.91	95.4	29.5 33.114	.76	.90	.14	7.1	.56	1.12	8.7	23.2	14.5	26.25	1467.1		43.5
22	4.6	6.96	96.0	25.7 33.101	.78	1.06	.28	6.3	.52	1.27	8.1	27.5	19.5	26.24*	1467.2		5.2

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	YEL	PH	CPROD MGC/QMH	NETPR	CORPR	NETCO	CARB MG/L	SUMN ORGN /P04 /OP	TOTN CARB/ R04P	ORGC/ ORGP	TOTC/ TOTP	MEAN N/P	MEAN C/P
0	< .05										16.5 53.6 31.0					
2.5	< .05										17.1					
5	< .05										14.8	42.9				
10											12.9					
15											11.7					
20	< .05										11.5	25.8				
22											10.3 69.8 26.0					31.4

\* = UNSTABLE DENSITY STRATIFICATION

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 DEPTH HR MT HR MT  
 74 02 25 11 55 /74 02 25 10 55 SW 1 M/S: 3 /8 0 =0.1 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/L	SOUNDV M/S	STABIL.
0	2.6	8.36	103.3		23.892	.43	.69	.26	6.5	.40	.80	7.7	23.0	15.3	19.10	1446.0		
5	2.5	8.22	101.3		24.040	.44	.76	.32	7.6	.40	.94	8.9	18.9	10.0	19.22	1445.7	24.8	
10	4.2	7.10	96.4		23.9	.54	.85	.31	7.3	.51	1.22	9.0			25.43	1463.8	1241.2	
15	4.5	7.05	97.0		19.4	.62	.85	.23	7.2	.66	1.22	9.0			26.11	1466.4	136.9	
20	4.6	6.90	95.2		31.0	.61	.87	.26	7.1	.51	1.09	8.7	9.1	.4	26.27	1467.2	31.9	
30	5.0	6.75	94.5		35.0	.65	.87	.22	5.9	.38	.83	7.1			26.90	1470.0	62.9	
40	5.0	6.83	95.7		27.1	.67	.97	.30	6.2	.35	.91	7.5			26.95	1470.4	4.7	
45	5.0	6.72	94.2		36.6	.98	2.01	1.03	5.7	.25	1.47	7.5	10.5	3.0	26.97	1470.5	4.3	

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

0	<	<	<	0	18.1	57.8	33.4											
5					20.5	30.9	24.9											
10					16.7													
15					14.6													
20					14.3	1.4	10.4											
30					10.8													
40					11.2													22.9
45					7.6	2.9	5.2											5.2

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 74 02 25 11 05 /74 02 25 10 05 DIR. VEL. COVER HEIGTH TEMP. DEPTH HR MT HR MT

DEPTH	TEMP.	OXYG %	SAT	A.O.U	SALT	PO4P	TOTP	ORGP	NO3N	NO2N	BOTH	NH4N	SUMN	TOTN	ORGN	S	GMMA	SOUNDV	STABIL.
M	CELS.	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	M/S	M/S
0	2.7	8.45	104.2		23.346	.43	.81	.38	6.4	.38	.52	7.3	23.7	16.4	18.66			1445.6	
5	2.7	8.21	102.3		24.910	.48	.83	.35	7.5	.38	.84	8.7	27.5	18.8	19.90			1447.8	248.7
10	4.2	7.12	96.5	23.4	32.018	.55	.85	.30	7.4	.54	1.15	9.1			25.43			1463.6	1105.0
15	4.3	7.09	96.4	23.8	32.193	.59	.89	.30	7.7	.55	1.29	9.6			25.55			1464.4	25.7
20	4.5	7.13	98.2	11.9	33.111	.59	.86	.27	7.7	1.1	1.50	10.3	21.4	11.0	26.26			1466.7	140.3
30	4.9	6.96	97.2	18.0	33.771	.55	.83	.28	6.6	.55	.85	8.0			26.73			1469.4	47.8
34	4.9	6.92	96.6	21.7	33.806	.63	.86	.23	6.4	.50	.87	7.8	15.6	7.9	26.76			1469.6	7.0

DEPTH	OIL	FEN	ORGC	YEL.	PH	CPROD	NETPR	CORPR	NETCO	CARB	MG/L	SUMN	ORGN	TOTN	CARB	ORGC	TOTC	MEAN	
M	MG/L	MG	MG/L			MGC/QMH						/PO4	/OP	/TP	PO4P	ORGP	TOTP	N/P	C/P
0	<	.05										17.2	42.5	29.2					
5												18.0	54.1	33.1					
10												16.5							
15												16.3							
20												17.7	40.2	24.8					
30												14.5							
34												12.3	34.5	18.2					

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 WAVE AIR SECCHI PROD: START DURAT  
 YEA MON DAY HOU MIN DIR. VEL. COVER HEIGHT TEMP DEPTH HR MT HR MT

74 02 25 09 20 74 02 25 08 20 SW 4 M/S 3/8 0.1-0.5 M

DEPTH M	TEMP CELS	OXYG % SAT	A.O.U	SALT 0/00	MA/L	P04P MA/L	TOTP 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	2.5	8.47	104.1	23.630	.39	.79	.40	6.6	.39		.53	7.5	18.89	1445.1			
2.5	2.6	8.38	103.3	23.786	.38	.87	.49	7.0	.38		.46	7.9	19.01	1445.6			48.4
5	2.6	8.12	100.7	24.655	.46	.86	.40	7.3	.39		.91	8.6	19.71	1446.8			276.4
10	4.2	7.12	96.6	22.331	.943	.87	.30	7.3	.46		1.23	9.0	25.36	1463.8			1130.8
15	4.3	7.17	97.9	13.732	.605	.84	.27	7.4	.60		1.19	9.2	25.88	1465.1			103.3
20	4.5	7.11	98.0	12.833	.207	.81	.25	3.4	1.1		1.47	5.9	26.33	1466.9			90.8
30	4.9	6.84	95.5	28.933	.748	.84	.23	6.7	.42		.84	7.9	26.72	1469.3			39.0
32	4.9	6.82	95.3	30.333	.897	.81	.18	5.2	.42		.98	6.6	26.84	1469.5			58.8

DEPTH M OIL FEN ORGC YEL. PH CPROD NETPR CORPR NETCO CARB MG/L /P04 /OP /TP P04P ORGP TOTC/ MEAN MEAN  
 MG/L MIC MG/L MGC/QMH

0	< .05																		
2.5	< .05																		
5	< .05																		
10																			
15																			
20	< .05																		
30																			
32																			

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	P04P TONS	TOTP TONS	SUMN TONS	TOTN TONS	CARB TONS	TOTC TONS
4.0	6.4	26.9	58.5	.2	.4	1.0	1.3				

WATER SAMPLER THERMOMETER NO 44

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 DIR.	WIND VEL.	CLOUD COVER	WAVE HEIGHT	AIR TEMP	SECCHI DEPTH	PROD.	START	DURAT
YEA MON DAY HOU MIN									HR	MT
74 03 11 16 00	74 03 11 15 00	E	2 M/S	1 / 8	0 - 0.1 M	10.0 C				

DEPTH M	TEMP. CELS.	OXYG %	SAT	A.O.U.	SALT	P04P	T0TP	ORGP	N03N	N02N	BOTH	NH4N	SUMN	T0TN	ORGN	SIGMA	SOUNDV	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	MA/L	M/S	
0	2.0	9.24	111.3		22.465	.65	.65	.05						22.7	17.99	1441.3		
2.5	1.9	9.22	110.7		22.511	.65	.65	.00	.04					25.6	18.03	1440.9		16.5
5	2.0	9.21	110.8		22.525	.65	.65	.55							18.04	1441.2		3.5
10	2.5	8.55	104.8		23.128	.71	.64	1.7	.16	.08	2.0				18.49	1444.7		90.7
15	2.7	8.19	101.0		23.447	.77	.67	3.7	.10	.22	4.0				18.74	1446.0		48.8
16	2.6	8.26	101.8		23.556	.82	.82	.13		.16				17.3	18.83	1445.7		92.2

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	YEL.	PH	CPROD	NETPR	CORPR	NETCO	CARB	SUMN	ORGN	T0TN	CARB	ORGC	T0TC	MEAN
						MGC/QMH				MG/L	/P04	/OP	/TP	P04P	ORGP	T0TP	N/P
0	<	.05											34.9				
2.5													39.4				
5											28.8						
10											39.0						
15													21.1				
16																	31.8

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 CLOUD WAVE AIR SECCHI PROD: START DURAT  
 YEA MON DAY HOU MIN DIR. VEL. COVER HEIGHT TEMP HR MT HR MT  
 74 03 11 14 40 74 03 11 13 40 E 3 M/S 1 /8 0 M 10.0 C

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 MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L M/S  
 0 2.2 9.19 111.3 22.537 .15 .58 .43 14.5 18.04 1442.3  
 2.5 2.1 9.20 111.0 22.507 .07 .62 .55 27.6 18.02\* 1441.8  
 5 2.1 9.17 110.7 22.507 .09 .59 .50 .01 18.02\* 1441.9  
 10 2.1 9.11 110.0 22.558 .08 .67 .59 .01 .05 18.06 1442.0  
 15 2.8 8.18 101.6 23.941 .26 .76 .50 4.2 .23 .24 4.7 19.12 1447.2  
 20 3.8 6.83 90.1 67.0 29.252 .51 1.00 .49 9.0 .23 1.07 10.3 17.1 6.8 23.27 1458.6 828.6  
 25 4.3 6.52 88.4 76.1 31.552 .67 1.15 .48 8.1 .26 1.01 9.3 33.1 23.7 25.04 1463.9 355.0

DEPTH OIL FEN ORGC YEL. PH CPDOD NETPR CORPR NETCO CARB SUMN ORGN TOTP CARB/ ORGC/ TOTP/ MEAN MEAN  
 M MG/L M/G MG/L MGC/GMH MG/L /P04 /DP /TP P04P ORGP TOTP N/P C/P

0 < .05 1.11 24.9  
 2.5 .87  
 5 < .05 1.20 46.8  
 10 .87  
 15 .83  
 20 .51 17.9 20.3 13.8 17.1  
 25 .41 14.0 49.1 28.8 29.4

\* = UNSTABLE DENSITY STRATIFICATION

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 DEPTH HR MT HR MT  
 74 03 11 13 45 74 03 11 12 45 E 3 M/S 2 /8 0 =0.1 M 10.0 C

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 O/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 2.0 9.21 110.8 .75 .00 22.358 .13 .63 .50 17.90 1441.1 4.4  
 5 2.0 9.22 111.1 22.387 .13 .63 .50 17.93 1441.4 4.4  
 10 2.2 9.04 109.3 22.520 .11 .61 .50 .05 .02 18.03 1442.3 19.9  
 15 3.2 7.67 97.3 19.0 25.725 .37 .89 .52 7.2 .28 .59 8.1 1451.2 497.9  
 20 4.1 6.85 91.9 54.0 30.666 .53 .97 .44 9.1 .24 1.01 10.4 20.9 10.5 24.36 1461.8 768.7  
 30 5.2 6.40 90.4 61.0 34.248 4.37 .98 7.5 .21 .54 8.3 27.08 1471.3 271.8  
 40 5.5 6.49 92.3 48.5 34.635 .51 5.2 .19 5.2 .19 .28 5.7 27.35 1473.0 27.7  
 48 5.5 6.40 91.2 55.3 34.720 .60 .90 .30 5.7 .17 .30 6.2 27.42 1473.2 8.4

DEPTH OIL FEN ORGC YEL. PH CPROD NETPR CORPR NETCO CARB SUMN ORGN TOTN CARB/ ORGC/ TOTC/ MEAN MEAN  
 M MG/L MIG MG/L MGC/QMH MG/L /P04 /OP /TTP P04P ORGP TOTP N/P C/P  
 0 < .05 .64  
 5 .74  
 10 .64  
 15 .78  
 20 .60  
 30 .14  
 40 .32  
 48 .60  
 22.0 19.6 23.8 21.5  
 1.9  
 11.3  
 10.4  
 17.8  
 10.6  
 16.6

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

74 03 11 10 45 74 03 11 09 45 E 3 M/S 2 / 8 0 0.1 M 8.0 C  
 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 MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L M/S

0	1.8	9.13	109.0	22.176	.63	.04					23.5	17.77	1439.8	
5	1.7	9.12	108.7	22.284	.68						26.0	17.86	1439.8	17.7
10	2.1	9.08	109.6	22.450	.66	.07	.05	.27	.4			17.97	1441.9	23.2
15	3.8	7.16	94.3	38.5	29.152	.47	1.02	.55	8.5	.27	1.11	23.19	1458.4	1042.5
20	4.5	6.56	90.0	64.8	32.637	.52	1.07	.55	8.2	.29	.99	25.88	1466.1	538.8
30	5.4	6.41	91.2	55.2	34.670	.54	1.07	.53	5.0	.17	.27	27.39	1472.7	150.6
33	5.3	6.63	94.0	37.9	34.547	.51	.86	.35	6.1	.22	.32	27.30*	1472.2	28.4

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

0	.05										37.3				
5		.83									38.3				
10		.78													
15		.46													
20		.23													
30		.18													35.4
33		.23													19.3

\* = 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 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 0/00	P04P MA/L	T0TP MA/L	ORGP MA/L	N03N MA/L	N02N MA/L	B0TH MA/L	NH4N MA/L	SUMN MA/L	T0TN MA/L	ORGN MA/L	SIGMA M/S	SOUNDV	STABIL.
0	1.8	9.34	111.1	21.425	.20	.73	.53	.00	.00	.00	.00	.00	25.9	17.17	1439.1		
2.5	1.8	9.26	110.0	21.456	.22	.66	.44	.00	.00	.00	.00	.00		17.19	1439.0		10.3
5	1.7	9.20	109.6	22.034	.15	.68	.53	.07	.01	.03	.03	.1	15.1	14.9	1439.4		185.8
10	1.9	9.10	109.1	22.199	.36	.79	.43	.02	.02	.05	.05	.1		17.78	1440.6		24.7
15	3.5	7.50	97.0	27.319	.43			7.6	.27	.82	.82	8.7		21.76	1454.6		795.2
20	4.5	6.58	90.3	32.591	.54	.86	.32	8.6	.30	1.01	9.9	9.9	26.5	16.7	1466.0		817.1
30	5.4	6.35	90.3	34.687	.48	.90	.42	5.0	.20	.36	5.6	5.6		27.40	1472.7		155.7
32	5.4	6.51	92.6	34.716	.57	.92	.35	6.1	.19	.19	6.5	15.0	8.5	27.42	1472.8		11.5

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	YEL. PH	CPROD NETPR MGC/QMH	NETCO CARB MG/L	SUMN /P04 ORGN /P04P	T0TP /T0P	CORPR	NETCO CARB	SUMN /P04 ORGN /P04P	T0TN CARB/ P04P	ORGC/ ORGP	T0TC/ T0TP	MEAN N/P	MEAN C/P
0	<.05			.69												
2.5				.60												
5		.05		.64												
10				.69												
15				.69												
20	<.05			.55												
30				.60												
32				.14												

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

P04P TONS	T0TP TONS	SUMN TONS	T0TN TONS	CARB TONS	T0TC TONS
3.3	5.6	20.3	70.5	.2	.3
				.9	2.2

WATER SAMPLER THERMOMETER NO 44

EXTRA STATION AT BROXLVEN, BRODALEN

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								HR MT	HR MT											
74 03 11	NOT GIVEN					-1.0														
DEPTH TEMP.	OXYG %	SAT	A.O.U	SALT	MA/L	0/00	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	MA/L	MA/L	MA/L	M/S		
0							1.70			33.3	.31		11.75	45.4						NOT COMPUTED
0							1.69			33.3	.31		11.97	45.5						NOT COMPUTED
0													11.56							NOT COMPUTED
DEPTH	OIL	FEN	ORGC	YEL.	PH	CPROD	NETPR	CORPR	NETCO	CARB	MG/L	/P04	/OP	/TP	P04P	ORGP	TOTP	N/P	C/P	
M	MG/L	MIG	MG/L			MGC/QMH														
0																				
0																				
0																				

26.7  
27.0

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 74 03 25 15 30 74 03 25 14 30 E 3 M/S 4 /8 0 M 15.0 C 7.0 M DEPTH HR MT HR MT

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 MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L M/S

0	3.5	9.15	113.0		20.659	.03	.58	.55	1.1	.04	.82	1.9		16.48	1445.4
2.5	3.3	9.11	112.1		20.727	.06	.56	.50	1.0	.04	.28	1.3		16.54	1444.9
5	3.2	8.86	109.0		21.325	.06	.52	.46	.77	.03	.26	1.1	13.3	17.03	1445.1
10	3.9	7.18	95.4	31.0	29.866	.11	1.15	1.04	1.2	.10	.07	1.4	23.74	23.74	1459.7
15	5.0	5.72	80.0	127.9	33.543	.91	1.14	.23	7.0	.15	.69	7.9	26.54	26.54	1469.4
18	4.7	6.20	85.3	95.1	32.225	.68	1.14	.46	6.0	.14	.52	6.7	8.7	25.53*	1466.4

DEPTH OIL FEN ORGC YEL. PH CPROD NETPR 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	<	.05	.74												
2.5			1.01												
5			.51												
10			.37												
15			.18												
18			.41												19.5

\* = 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 DIR. WAVE HEIGHT AIR TEMP. SECCHI PROD: START DURAT  
 YEA MON DAY HOU MIN 74 03 25 14 20 74 03 25 13 20 E 1 M/S 5 /8 0 M 15.0 C HR MT HR MT

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 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	3.6	9.07	112.5	20.752	.02	.45	.43	.69	.03	.07	.8	16.55	1446.2
2.5	3.2	9.13	112.1	20.787	.10	.50	.40	.61	.01	.09	.7	16.60	1444.4
5	3.1	9.29	113.9	21.239	.05	.55	.50	.49	.04	.13	.7	16.96	1444.5
10	3.1	8.52	106.9	24.342	.05	.81	.76	1.1	.07	.39	1.5	19.42	1449.0
15	4.9	6.27	87.1	82.7	.33	1.33	.63	6.7	.14	.27	7.1	26.23	1468.3
20	5.2	6.30	88.4	73.7	.33	1.669	.28	7.7	.17	.34	8.2	26.62	1470.2
22	5.1	6.20	86.8	83.9	.33	1.504	.30	7.8	.17	.40	8.3	26.50*	1469.8

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

0	< .05		.74							34.8			
2.5			.55							7.0			
5	< .05		.87							14.5	24.7	23.8	
10			.55							33.8			
15			.37							10.0			
20	< .05		.32							11.1	11.4	11.2	
22										11.0	7.5		14.2

\* = UNSTABLE DENSITY STRATIFICATION 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. DEPTH HR MT HR MT  
 74 03 25 17 15 74 03 25 16 15 E 1 M/S 7 /8 0 M 15.0 C 1 1.1

DEPTH M	TEMP. CELS.	OXYG % SAT	A.O.U	SALT	P04P	T0TP	ORGP	N03N	N02N	B0TH	NH4N	SUMN	T0TN	ORGN	SIGMA	SOUNDV	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	MA/L	MA/L	M/S	
0	3.5	9.32	115.1	20.696	.05	.49	.44	.40	.03	.08	.5	17.4	16.9	16.51	1445.4		
5	3.2	9.13	112.1	20.985	.02	.55	.53	.54	.02	.08	.6	11.7	11.1	16.76	1444.6	49.2	
10	4.5	6.66	90.9	59.8	31.832	.48	1.10	.62	.11	.28	6.5			25.24	1464.8	1697.1	
15	5.3	6.24	88.0	76.0	33.772	.81	.98	.17	.18	.06	8.0			26.69	1470.8	289.7	
20	5.4	6.22	88.0	75.5	34.040	.84	1.07	.23	.18			13.8		26.89	1471.7	39.5	
30	5.5	6.30	89.7	64.7	34.397	.74	.95	.21	.20	.00	7.4			27.16	1472.7	27.0	
40	5.5	6.30	89.6	64.9	34.466	.80	.99	.19	.20	.06	7.4			27.21	1473.0	5.5	
48	5.6	6.25	89.3	66.7	34.658	.81	1.08	.27	.18	.74	6.4	19.1	12.8	27.35	1473.8	17.4	

DEPTH M	OIL	FEN	ORGC	YEL.	PH	CPROD	NETPR	CORPR	NETCO	CARB	SUMN	ORGN	T0TN	CARB	ORGC	T0TC	MEAN
	MG/L	MIG	MG/L			MGC/QMH			MG/L	MG/L	/P04	/OP	/TP	P04P	ORGP	T0TP	MEAN
0	<	.05		.74							11.4	38.1	35.6				23.3
5				.78							28.4	21.0	21.3				
10				.37							13.6						
15				.23							9.9						
20				.18									12.9				
30				.14							10.0						
40				.14							9.3						
48				.09							7.9	46.7	17.7				17.7

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 HR MT HR MT  
 74 03 25 10 15 74 03 25 09 15 E 2 M/S 7 /8 0 M 8.0 C

DEPTH M	TEMP CELS	OXYG % SAT	A.O.U	SALT	P04P	TOTP	ORGP	N03N	N02N	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	M/S	
0	3.1	9.01	110.0	20.537	.05	.45	.40	.30	.05	.04	.4	16.2	15.8	16.41	1443.4		
5	2.1	9.03	107.6	20.708	.02	.57	.55	.35	.03	.11	.5	15.5	15.0	16.59	1439.3	36.1	
10	3.8	7.48	98.6	9.629	.016	.91	.91	4.2	.08	.19	4.4			23.08	1458.2	1297.9	
15	5.3	6.31	88.9	70.633	.696	.83	1.06	7.5	.19	.02	7.7			26.63	1470.5	711.4	
20	5.4	6.35	89.9	64.033	.959	.82	.99	7.6	.17	.07	7.8	14.3	6.4	26.82	1471.6	38.0	
30	5.6	6.37	90.8	57.434	.542	.76	.92	6.9	.18	.27	7.4			27.27	1473.1	44.2	
33	5.6	6.34	90.4	60.334	.572	.74	.94	6.7	.21	.05	7.0	15.1	8.1	27.29	1473.2	8.1	

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	YEL. PH	CPROD	NETPR	CORPR	NETCO	CARB	SUMN	ORGN	TOTN	CARB	ORGC	TOTC	MEAN
				MGC/QMH				MG/L	MG/L	/P04	/OP	/TP	P04P	ORGP	TOTP	N/P
0	<.05		.64							8.5	39.1	36.0				25.9
5			.69							21.5	27.4	27.2				16.0
10			.92													
15			.51							9.3						
20			.60							9.6	37.5	14.4				
30			.51							9.7						
33			.60							9.5	39.9	16.0				

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

74 03 25 10 55 /74 03 25 09 55 E 2 M/S 7 /8 0 1 0.1 M 10.0 C

DEPTH M	TEMP CELS	OXYG %	SAT ML/L	A.O.U	SALT 0/00	P04P MA/L	T0TP MA/L	ORGP MA/L	NO3N MA/L	NO2N MA/L	BOTH MA/L	SUMN MA/L	T0TN MA/L	ORGN MA/L	SIGMA M/S	SOUNDV	STABIL.
0	3.3	9.09	111.2		19.871	.02	.45	.43	.19	.04			16.5	15.86	1443.7		
2.5	3.3	9.00	110.1		19.945	.02	.48	.46	.16	.02		.04	.2	15.93	1443.6	24.8	
5	3.3	8.93	109.8		20.730	.03	.48	.45	.50	.02		.15	.7	16.55	1444.8	248.5	
10	4.2	6.86	92.5	49.5	31.111	.39	1.03	.64	5.5	.11		.13	5.7	24.70	1462.7	1630.3	
15	5.2	6.15	86.4	86.2	33.488	.87	1.02	.15	8.1	.17		.01	8.3	26.47	1470.2	354.5	
20	5.5	6.11	86.6	84.6	33.938	.89	1.52	.63	8.2	.14		.11	7.4	26.80	1471.8	65.9	
30	5.6	6.15	87.9	75.5	34.683	.77	1.04	.27	7.1	.18		.01	6.6	27.37	1473.5	57.0	
33	5.6	6.31	90.0	62.8	34.579	.74	.94	.20	6.5	.18			17.4	27.30*	1473.2	-25.2	

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	T0TN /TP	CARB /P04P	ORGC /ORGP	T0TC /TOTP	MEAN N/P	MEAN C/P
0	<.05		.64							9.4		36.7					
2.5	<.05		.74							19.8	39.0	37.6					
5			.60							14.8							
10			.51							9.5							
15			.51									10.9					
20			.23							9.6							28.4
30			.46							9.0	53.5	18.5					18.5
33			.46														

AVERAGE VALUES FOR THE WATER COLUMN 0-30 M  
 P04P T0TP SUMN T0TN CARB T0TC  
 TONS TONS TONS TONS TONS TONS

AVERAGE VALUES FOR THE WATER COLUMN BELOW 30 M  
 P04P T0TP SUMN T0TN CARB T0TC  
 TONS TONS TONS TONS TONS TONS

2.9 6.0 13.5 46.6 .2 .3 1.0 2.4  
 \*\* UNSTABLE DENSITY STRATIFICATION WATER SAMPLER THERMOMETER NO 44

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 WIND AIR SECCHI PROD: START DURAT  
 YEA MON DAY HOU MIN DIR. VEL. COVER HEIGHT TEMP. DEPTH HR MT HR MT  
 74 04 08 15 15 74 04 08 14 15 W 4 M/S: 0 / 8 0 M 14.0 C

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 MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L M/S  
 0 8.0 8.54 116.1 18.316 .06 .54 .48 21.3 14.26 1461.6  
 2.5 6.1 8.88 116.0 19.086 .05 .47 .42 17.1 15.05 1454.8 316.6  
 5 5.3 8.78 112.9 19.942 .01 .41 .40 17.1 15.79 1452.4 297.9  
 10 5.0 5.34 74.4 164.0 33.044 .68 1.08 .40 23.1 26.15 1468.6 2070.7  
 15 5.5 4.87 69.1 194.2 34.150 .87 1.30 .43 23.1 26.96 1472.2 163.5  
 17 5.2 5.63 79.4 130.4 34.202 .84 1.12 .28 23.1 27.04 1471.0 38.7

DEPTH OIL FEN ORGC YEL. PH CPROD NETPR CORPR NETCO CARB SUMN ORGN TOTN CARB/ ORGC/ TOTC/ MEAN MEAN  
 M MG/L MIG MG/L MGC/QMH MG/L /P04/OP /TP P04P ORGP TOTP N/P C/P  
 0 .64 39.5  
 2.5 .74 41.8  
 5 .64 20.6  
 10 .18  
 15 .18  
 17 .18 34.0

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 WAVE AIR SECCHI PROD: START DURAT  
 YEA MON DAY HOU MIN DIR. VEL. COVER HEIGHT TEMP DEPTH HR MT HR MT

74 04 08 14 05 74 04 08 13 05 W 4 M/S 0 /8 0 =0.1 M 13.0 C

DEPTH M	TEMP CELS	CXYG %	SAT ML/L	A.O.U	SALT 0/00	P04P MA/L	T0TP 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	7.9	8.64	117.1		18.306	.02	.39	.37						22.0	14.26	1461.0		
2.5	7.7	8.66	116.9		18.339	.08	.41	.33						15.6	14.31	1460.5		16.7
5	5.4	8.90	114.5		19.465	.01	.50	.49							15.40	1452.4		439.1
10	4.7	6.06	83.4	108.0	32.154	.41	.69	.28							25.48	1466.1		2014.4
15	5.4	5.28	74.8	158.8	34.052	.96	1.11	.15							26.90	1471.7		283.8
20	5.6	5.49	78.4	135.2	34.533	.84	1.08	.24							27.25	1473.2		71.6
24	5.6	5.71	81.5	115.8	34.449	.89	1.14	.25							27.19*	1473.1		16.4

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				.69						56.4							
2.5				.69						31.1							
5				.69													
10				.32													
15				.14													
20				.09						21.8							
24				.09						13.7							30.7

\* = UNSTABLE DENSITY STRATIFICATION WATER SAMPLER THERMOMETER NO 44

STATION 3 STRETTUDDEN 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 DEPTH HR MT HR MT  
 74 04 08 16 00 74 04 08 15 00 W 4 M/S 1/8 0 0.1 M 14.0 C

DEPTH M	TEMP CELS	OXYG % SAT	A.O.U. SALT MA/L	PO4P MA/L	TCTP 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	7.7	9.43	127.1	18.258	.05	.34	.29					18.1	14.25	1460.1		
5	5.5	8.96	115.5	19.428	.09	.38	.29					13.8	15.37	1452.8	223.7	
10	5.0	5.93	82.6	11.7	.32	.985	.34					26.10	26.10	1468.5	2146.7	
15	5.5	5.61	79.7	127.3	.34	.127	.18					18.1	26.95	1472.1	168.9	
20	5.6	5.72	81.6	115.0	.34	.480	.14					18.1	27.21	1473.1	53.3	
30	5.6	5.02	86.0	87.5	.34	.633	.15					15.8	27.33	1473.5	12.1	
40	5.6	5.84	83.5	103.3	.34	.695	.20					15.8	27.38	1473.7	4.9	
48	5.6	5.88	84.1	99.6	.34	.706	.15					15.8	27.39	1473.9	1.0	

DEPTH M	CIL MG/L	FEN MG/L	ORGC MG/L	YEL	PH	CPROD MGC/GMH	NETPR	CORPR	NETCC	CARB MG/L	SUMN /PO4	ORGN /OP	TOTN /TP	CARB /P04P	ORGC /ORCP	TOTC/ TOTP	MEAN N/P	MEAN C/P
0				.74									53.2					
5				.83									36.3					
10				.32														
15				.18														
20				.14									17.4					35.6
30				.14														
40				.14														
48				.14									15.2					15.2

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

74 04 08 13 10 74 04 08 12 10 W 2 M/S 0 /8 0 -0.1 M 11.0 C

DEPTH M	TEMP. CELS.	OXYG %	SAT ML/L	A. O. U	SALT MA/L	0/00	P04P MA/L	T0TP MA/L	ORGP MA/L	N03N MA/L	N02N MA/L	BOTH MA/L	NH4N MA/L	SUMN MA/L	T0TN MA/L	ORGN MA/L	SIGMA M/S	SOUNDV	STABIL.
0	7.3	8.68	116.1		18.295	.06	.60	.54	18.1	14.31	1458.8								
5	4.5	8.90	111.8		19.250	.06	.68	.62	17.6	15.30	1448.2								197.6
10	4.6	6.45	88.2		77.3	31.687	.24	.85	.61	25.12	1465.1								1963.3
15	5.5	5.68	80.7		121.8	33.987	.92	1.24	.32	26.83	1471.9								343.4
20	5.6	5.74	81.8		113.7	34.420	.95	1.15	.20	27.16	1473.0								65.9
30	5.6	6.31	90.1		61.7	34.724	1.01	1.11	.10	27.40	1473.6								24.1
34	5.6	6.10	87.2		80.1	34.719	.74	1.03	.29	27.40*	1473.6								1.0

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	YEL. PH	CPROD MGC/QMH	NETPR	CORPR	NETCO	CARB MG/L	/P04	/OP	T0TN	CARB/TP	ORGP	T0TP	MEAN N/P	MEAN C/P
0				.69								30.1					
5				.83								25.9					
10				.37													
15				.18													
20				.14								20.6					25.5
30				.14													16.4
34				.09													

\* = 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 CLOUD AIR SECCHI PROD: START DURAT  
 YEA MON DAY HOU MIN DIR. VEL. COVER HEIGHT 0 M TEMP DEPTH HR MT HR MT  
 74 04 08 11 20 74 04 08 10 20 W 2 M/S 1 /8 0 M 11.0 C 11.0 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 MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L M/S  
 0 6.8 8.61 113.3 17.803 .02 .30 .28 13.6 13.98 1455.9  
 2.5 5.3 8.89 113.1 18.423 .03 .39 .36 15.1 14.60 1450.4 245.6  
 5 4.0 8.85 110.1 19.638 .06 .36 .30 15.1 15.64 1446.6 418.0  
 10 4.7 6.39 87.7 79.7 32.114 .35 .70 .35 25.0 25.45 1466.0 1961.3  
 15 5.5 5.67 80.5 122.5 34.004 .87 1.08 .21 25.0 26.85 1472.0 280.1  
 20 5.2 6.70 94.7 33.7 34.363 .67 .87 .20 13.3 27.17 1471.3 64.1  
 30 5.5 6.47 92.3 48.5 34.739 .67 .88 .21 13.3 27.43 1473.2 26.1  
 33 5.5 6.29 89.7 64.4 34.767 .73 .88 .15 13.3 27.45 1473.3 7.5

DEPTH OIL FEN ORGC YEL. PH CPROD NETPR CORPR NETCO CARB SUMN ORGN TOTN CARB/ ORGC/ TOTC/ MEAN MEAN  
 M MG/L M/G MG/L MGC/QMH MG/L /P04 /OP /TP P04P ORGP TOTP N/P C/P  
 0 .64 45.2  
 2.5 .74 42.0  
 5 .74  
 10 .37 28.8  
 15 .18 15.1  
 20 .18  
 30 .14  
 33 .14 38.7  
 15.1

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 5.7 61.0 .3 .3 2.1

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 WIND WIND AIR SECCHI PROD: START DURAT  
 YEA MON DAY HOU MIN DIR: VEL. COVER HEIGHT HEIGHT DEPTH HR MT HR MT  
 74 04 24 14 20 74 04 24 13 20 N 3 M/S 7/8 0 M 9.0 C

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 T	SOUNDV	STABIL.
0	6.1	8.24	119.0		34.451	.20	1.17	.97	.06	.03				28.7		27.12	1474.8	
2.5	6.1	7.77	112.2		34.467	.37	1.24	.87	.03	.08						27.14	1474.8	6.1
5	6.1	7.64	110.2		34.474	.39	1.23	.84	.03	.08				23.4		27.15	1474.7	4.7
10	5.6	5.79	82.7		34.720	.88	1.00	.12	6.9	.47						27.40	1473.2	50.2
15	5.7	5.45	78.2		34.838	.96	1.07	.11	8.5	.51	.28	9.3				27.48	1473.9	16.1
18	5.7	5.47	78.4		34.820	.95	1.12	.17	8.3	.51	.19	9.0	30.6	21.6		27.47*	1473.9	4.8

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				.14														
2.5				.18														
5				.14														
10				.09														
15				.09														
18				.09														

\* = UNSTABLE DENSITY STRATIFICATION WATER SAMPLER THERMOMETER NO 44

24.6  
 19.0  
 9.6  
 9.4  
 27.3  
 23.6

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 WIND WAVE AIR SECCHI PROD: START DURAT  
 YEA MON DAY HOU MIN DIR. VEL. HEIGHT HEIGHT TEMP HR MT HR MT  
 74 04 24 13 30 74 04 24 12 30 N 4 M/S 0 -0.1 M 9.0 C 4.0 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 MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L M/S  
 0 6.4 8.65 125.5 34.390 .21 .88 .67 .08 .04 17.4 27.05 1475.7  
 2.5 5.9 8.67 124.4 34.203 .07 .65 .58 .06 .02 13.6 26.96\* 1473.6 -35.8  
 5 6.0 8.81 126.8 34.416 .21 .79 .58 .03 .04 27.11 1474.4 61.9  
 10 5.6 6.45 92.2 48.7 34.732 .89 .99 .10 6.3 .39 27.41 1473.3 60.1  
 15 5.7 6.35 91.0 56.3 34.832 .88 .89 .01 7.6 .40 27.48 1473.7 14.4  
 20 5.7 6.30 90.3 60.4 34.854 1.00 .93 7.8 .42 23.1 27.50 1473.9 2.9  
 22 5.7 5.67 81.4 115.9 34.898 1.02 1.18 .16 7.8 .48 .35 8.6 27.53 1474.1 16.0

DEPTH OIL FEN ORGC YEL. PH CPROD NETPR CORPR NETCO CARB SUMN ORGN TOTN CARB/ ORGC/ TOTC/ MEAN MEAN  
 M MG/L M/G MG/L MG/L MG/L /P04 /OP /TP P04P ORGP TOTP N/P C/P  
 0 .09 19.8  
 2.5 .09 17.3  
 5 .09  
 10 .09  
 15 .09  
 20 .09 24.9  
 22 .09 8.4 20.6

\* = UNSTABLE DENSITY STRATIFICATION 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 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	P04P MA/L	T0TP 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	6.2	7.67	111.1	34.596	.63	.80	.17	4.6	.29			14.2		27.23	1475.3	
5	5.9	6.96	100.2	34.662	.73	.94	.21	5.8	.35			19.3		27.32	1474.4	17.8
10	5.7	6.54	93.6	39.6	34.746	.77	.89	7.2	.42					27.42	1473.5	20.0
15	5.7	6.43	92.1	49.1	34.791	.79	.95	7.7	.42	.17	8.3			27.45	1473.6	7.2
20	5.7	6.25	89.6	64.6	34.853	.85	.89	8.5	.38			16.4		27.49	1474.0	8.4
30	5.9	6.09	87.7	76.4	34.952	.90	1.00	8.2	.50					27.55	1474.9	5.9
40	5.9	5.99	86.2	85.3	34.950	1.02	1.12	8.2	.50					27.55*	1475.1	2.2
47	5.9			34.953	.95	1.12	.17	8.3	.50	.05	8.9			27.55	1475.2	.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				.18													
5				.18													
10				.14													
15				.14						10.5							
20				.14													
30				.14													
40				.14													
47				.14						9.3							18.9

\* = UNSTABLE DENSITY STRATIFICATION 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 74 04 24 10 20 74 04 24 09 20 N 1 M/S 3 /8 0 M 11.0 C DEPTH HR MT HR MT

DEPTH M	TEMP. CELS	OXYG % SAT	A.O.U	SALT MA/L	P04P MA/L	TOTP 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/S	SOUNDV	STABIL.
0	6.2	7.18	103.8	34.431	.57	.92	.35	3.3	.25			15.1	1474.9	27.10	1474.9		
5	5.6	6.73	96.1	34.554	.71	.94	.23	.89	.30			21.0	1472.9	27.27	1472.9		33.4
10	5.6	6.59	94.1	34.699	.76	.87	.11	6.5	.37				1473.2	27.38	1473.2		22.9
15	5.7	6.45	92.4	34.797	.79	.80	.01	7.3	.42			17.6	1473.6	27.46	1473.6		14.2
20	5.7	6.54	93.8	34.851	.79	.84	.05	7.7	.40				1474.0	27.49	1474.0		7.3
30	5.8	6.17	88.8	34.968	.93	.99	.06	8.0	.51				1474.8	27.57	1474.8		7.6
34	5.9	6.04	87.1	34.969	1.06	1.05		8.0	.50				1475.2	27.56*	1475.2		2.1

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				.14						16.4							
5				.14						22.3							
10				.05													
15				.00						20.9							19.9
20				.00													
30				.00													
34				.05													

\* = 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 DIR. WIND VEL. CLOUD COVER WAVE HEIGHT AIR TEMP. SECCHI PROD: START DURAT DEPTH HR MT HR MT  
 74 04 24 11 10 74 04 24 10 10 N 4 M/S 6/8 0 -0.1 M 11.0 C 5.5 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 MA/L O/00 MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L M/S  
 0 6.2 7.99 115.6 34.449 .43 1.00 .57 2.9 .13 22.9 27.11 1475.1  
 2.5 5.8 7.25 104.0 34.500 .52 1.09 .57 3.0 .20 22.6 27.20 1473.6  
 5 5.8 7.26 104.1 34.508 .51 1.07 .56 5.7 .19 22.6 27.21 1473.5  
 10 5.6 6.39 91.4 53.9 34.747 .76 .94 .18 7.4 .42 36.0 27.42 1473.3  
 15 5.7 6.58 94.3 35.3 34.774 .79 .86 .07 7.5 .38 27.43 1473.8  
 20 5.7 6.30 90.4 59.5 34.909 .89 .98 .09 8.2 .45 27.54 1474.2  
 30 5.8 6.22 89.5 65.3 34.963 .83 .99 .16 8.4 .39 27.57 1474.7  
 33 5.8 6.25 89.9 62.5 34.965 .85 1.17 .32 8.2 .35 27.57 1474.8

DEPTH OIL FEN ORGC YEL. PH CPROD NETPR CORPR NETCO CARB SUMN ORGN TOTN CARB/ ORGC/ TOTC/ MEAN ORGN N/P C/P  
 M MG/L M/G MG/L  
 0 .14 22.9  
 2.5 .14 21.2  
 5 .14 10.4  
 10 .14 36.8  
 15 .14  
 20 .14  
 30 .00  
 33 .05 26.9

AVERAGE VALUES FOR THE WATER COLUMN 0-30 M AVERAGE VALUES FOR THE WATER COLUMN BELOW 30 M  
 PO4P TOTP SUMN TOTN CARB TOTC PO4P TOTP SUMN TOTN CARB TOTC  
 TONS TONS TONS TONS TONS TONS TONS TONS TONS TONS  
 4.9 6.9 27.9 69.5 .3 .3 1.2

WATER SAMPLER THERMOMETER NO 44

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 WAVE AIR SECCHI PROD: START DURAT  
 YEA MON DAY HOU MIN 74 05 08 14 20 DIR. VEL. HEIGHT TEMP DEPTH HR MT HR MT

74 05 08 15 20 74 05 08 14 20 NW 3 M/S 1 /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 MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L M/S

0	9.0	8.79	131.2	29.249	.07	.38	.31	.23	.02	7.5	22.65	1479.3
2.5	8.9	8.40	125.2	29.239	.11	.41	.30	.34	.02	18.2	22.65	1479.0
5	8.7	8.69	129.2	29.481	.11	.42	.31	.39	.02	17.6	22.87	1478.6
10	8.7	8.64	128.5	29.618	.12	.57	.45	.41	.02		22.98	1478.8
15	8.5	8.69	128.8	30.059	.18	.45	.27	.19	.02		23.36	1478.6
18	8.0	8.55	126.7	31.612	.37	.81	.44	.55	.05		24.64	1478.8

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

0	.46									19.8		
2.5	.41									43.3		
5	.28											
10	.32											
15	.41											
18	.41									21.7		28.3

WATER SAMPLER THERMOMETER NO 44

STATION 2 (FJ 62) BROF JORDEN 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 74 05 08 14 45 74 05 08 13 45 74 05 08 13 45 0 0.1 M 14.0 C 14.0 M DEPTH HR MT HR MT  
 14.0 M

DEPTH M	TEMP CELS	OXYG % SAT	A.O.U	SALT	P04P	T0TP	ORGP	N03N	N02N	BOTH	NH4N	SUMN	T0TN	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	MA/L	M/L	M/S	
0	8.9	8.67	128.4	28.294	.18	.45	.27	.44	.02						21.92	1477.7	
2.5	8.9	9.10	134.8	28.533	.21	.38	.17	.44	.02						22.11	1477.9	77.3
5	8.7	9.02	133.5	28.981	.20	.50	.30	.38	.02						22.48	1477.9	148.3
10	8.6	8.44	125.0	29.377	.15	.47	.32	.39	.03						22.80	1478.1	64.8
15	8.3	8.79	130.0	30.357	.09	.61	.52	.34	.02						23.62	1478.3	162.2
20	7.4	8.85	130.5	32.971	.25	.60	.35	.23	.02						25.79	1478.3	434.2
23	7.3	8.55	126.2	33.472	.22	.57	.35	.48	.03						26.19	1478.6	135.8

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	YEL	PH	CPROD	NETPR	CORPR	NETCO	CARB	SUMN	ORGN	T0TN	CARB	ORGC	T0TP	MEAN
						MGC/GMH			MG/L	MG/L	/P04	/OP	/TP	P04P	ORGP	T0TP	N/P
0				.46													
2.5				.41													
5				.46													
10				.41													
15				.32													
20				.23													
23				.23													
																	32.3

WATER SAMPLER THERMOMETER NO 44

STATION 3 STRETUDDEN

LAT: N 58 20.55 LONG: E 11 24.15

LOCAL DATE AND TIME

YEA MON DAY HOU MIN GREENWICH MEAN TIME WIND WIND CLOUD WAVE AIR SECCHI PROD: START DURAT  
74 05 08 16 45 74 05 08 15 45 NW 3 M/S 1 /8 0 0.1 M 15.0 C DIR. VEL. COVER HEIGHT TEMP HR MT HR MT

BOTTOM DEPTH 48 M

DEPTH M	TEMP. CELS.	OXYG % SAT	A. O. U. SALT MA/L	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 MA/L	SOUNDV M/S	STABIL.
0	9.0	7.95	117.1	27.180	.08	.46	.38	.39	.02			10.5	21.04	1476.7		
5	8.9	7.75	114.2	27.684	.07		.45	.01				17.4	21.44	1477.0		81.3
10	8.6	7.77	114.6	28.812	.09	.42	.33	.40	.02				22.36	1477.4		184.6
15	8.2	8.00	118.1	30.453	.10	.44	.34	.43	.02				23.71	1477.9		269.1
20	7.0	8.07	118.4	33.922	.26	.75	.49		.04			19.6	26.60	1477.8		577.2
30	6.2	6.52	94.4	34.531	.61	1.06	.45	3.3	.21				27.18	1475.8		58.0
40	6.1	6.30	90.9	56.4	34.608	.61	1.12	4.9	.25				27.26	1475.4		8.0
46	6.2	6.26	90.7	57.7	34.657	.90		5.3	.20				27.28	1476.0		4.3

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	YEL. PH	CPROD MGC/GMH	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				.46								22.8					
5				.41													
10				.28													
15				.28													
20				.14													
30				.14													
40				.05													
46				.05													

WATER SAMPLER THERMOMETER NO 44

24.4

26.1



STATION 5 (FJ 63) MALM8DRAG 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  
 74 05 08 11 15 74 05 08 10 15 W 4 M/S 1 /8 0 -0.1 M 12.0 C 16.0 M

DEPTH M	TEMP. CELS.	OXYG % SAT	A.O.U	SALT MA/L	P04P MA/L	TOTP MA/L	ORGP MA/L	N03N MA/L	N02N MA/L	BOTH MA/L	SUMN MA/L	TOTN MA/L	ORGN MA/L	SIGMA M/L	SOUNDV M/S	STABIL.
0	8.8	8.26	120.6	26.685	.09	.39	.30	.52	.02		12.0	20.68	1475.1			
2.5	8.4	8.50	123.6	27.323	.08	.39	.31	.37	.02		17.4	21.23	1474.7			217.4
5	8.4	5.16	75.3	151.3	.11	.64	.53	.38	.02			21.65	1475.3			168.5
10	8.4	8.87	130.4	29.038	.11	.56	.45	.49	.01			22.57	1476.9			183.9
15	8.0	8.37	123.4	30.878	.13	.38	.25	.02			17.9	24.07	1477.8			299.3
20	6.9			33.801	.21	.52	.31	.42	.03			26.51	1477.2			489.8
30	6.1			34.611	.63	1.04	.41	4.5	.23		26.7	27.25	1475.5			73.8
34	6.2			34.586	.65	2.31	1.66	4.7	.22			27.23*	1475.7			6.6

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	YEL. PH	CPROD MGC/GMH	NETPR	CORPR	NETCO	CARB MG/L	SUMN /P04	ORGN /TP	TOTN CARB/	ORGC/	TOTC/	MEAN N/P	MEAN C/P
0				.46						30.7						
2.5				.41						27.2						
5				.37												
10				.37						34.3						30.7
15				.28						11.5						11.5
20				.14												
30				.05												
34				.05												

AVERAGE VALUES FOR THE WATER COLUMN 0-30 M  
 P04P TONS TOTP TONS SUMN TONS CARB TONS TOTC TONS  
 1.4 3.9 50.9 2.5 3.6

AVERAGE VALUES FOR THE WATER COLUMN BELOW 30 M  
 P04P TONS TOTP TONS SUMN TONS CARB TONS TOTC TONS  
 30.7 11.5





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. HEIGHT TEMP DEPTH HR MT HR MT  
 74 05 28 15 00 74 05 28 14 00 W 5 M/S 7/8 0 0.1 M 6.5 M

DEPTH M	TEMP. CELS.	OXYG % SAT	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 MA/L	SOUNDV M/S	STABIL.
0	13.8	6.67	106.5	23.395	.09	.76	.67	.05	.02	.00	.00	.1	19.4	19.3	17.33	1489.3	
2.5	13.1	6.70	106.3	24.731	.05	.40	.35	.01	.03	.01	.01	.1	13.5	13.3	18.47	1488.7	457.9
5	8.3	7.77	116.3	32.318	.18	.56	.38	.10	.06	.03	.03	.2	13.5	13.3	25.15	1480.5	2671.6
10	7.2	7.36	108.4	33.577	.32	.60	.28	.62	.13	.04	.04	.8	11.4	11.4	26.29	1478.1	227.4
15	6.8	6.74	98.5	9.0	.47	.78	.31	2.0	.20	.08	.08	2.3	11.4	11.4	26.77	1477.1	94.9
20	6.5	5.90	85.9	86.8	.70	1.12	.42	3.2	.22	.81	.81	4.2	11.4	11.4	27.01	1476.4	49.0

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	.69									7.28	9.25	5.5					
2.5	.51								1.2								
5	.37								1.1	35.1	24.1						
10	.32								2.5								
15	.28								5.0								
20	.18								5.9	17.3	10.2						19.9

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. HEIGHT TEMP DEPTH HR MT HR MT  
 74 05 28 12 40 /74 05 28 11 40 W 6 M/S 3/8 0.5-1.2 M 7.0 M

DEPTH M	TEMP. CELS.	OXYG % SAT	A.O.U	SALT O/00	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	13.0	6.82	108.4	25.174	.06	.49	.05	.01	.1	16.2	16.1	18.83	1488.8	
2.5	11.2	7.15	111.4	28.200	.10	.64	.04	.03	.1			21.48	1486.2	1059.7
5	9.3	7.51	114.2	31.192	.19	.51	.32	.04	.4	17.1	16.6	24.12	1482.8	1056.0
10	7.4	7.55	111.7	33.638	.32	.80	.15	.01	1.7			26.31	1479.0	437.5
15	7.0	7.30	107.4	34.176	.40	.60	.20	.04	3.2			26.79	1478.2	95.7
20	6.7	6.99	102.3	34.409	.48	.77	.29		19.0			27.01	1477.4	45.0
30	6.4	6.34	92.2	47.8	34.573	.70	1.27	.17	5.2			27.19	1476.4	17.6

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				.51						1.6	37.1	33.0					
2.5				.32						.8							
5				.23						2.3	52.4	33.5					
10				.23						5.2							
15				.09						8.0							
20				.09						24.7							
30				.09						7.4							30.4

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
2.2	5.1	4.9	52.0		

WATER SAMPLER THERMOMETER NO 44

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 HR MT HR MT  
 74 06 06 12 55 /74 06 06 11 55 SSW 15 M/S 8 /8 0.1-0.5 M 12.0 C 3.7 M

DEPTH M	TEMP. CELS.	OXYG %	SAT ML/L	A.O.U	SALT MA/L	P04P MA/L	TOTP 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	13.3	6.80	109.6		26.774	.04			.09	.03		.10	.2	12.5	12.3	20.02	1491.6	
2.5	13.2	6.80	109.6		26.768	.07		.12	.03			.12	.3	17.9	17.6	20.02*	1491.5	.6
5	13.2	6.84	110.2		26.769	.05		.14	.03			.08	.2	17.9	17.6	20.02	1491.6	.6
10	12.3	6.70	106.2		27.332	.10		.12	.04			.31	.5			20.63	1489.1	121.0
15	10.8	6.46	100.4		29.214	.20		.20	.05			.41	.7			22.33	1486.3	341.1
18	9.9	6.40	98.7		7.331	.407	.32	.42	.08			.39	.9	11.1	10.2	24.19	1485.6	621.2

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	YEL. PH	CPROD MGC/GMH	NETPR	CORPR	NETCO	CARB MG/L	SUMN /P04	ORGN /DP	TOTN /TP	CARB /P04P	ORGC /ORGP	TOTC /TOTP	MEAN N/P	MEAN C/P
0										5.6							
2.5										3.7							
5										5.0							
10										4.7							
15										3.3							
18										2.8							

\* = UNSTABLE DENSITY STRATIFICATION  
 NOTE: 740606 STN 1--5 U/F THETIS



BOTTOM DEPTH 48 M

LAT: N 58 20.55 LONG: E 11 24.15

STATION 3 STRETUDDEN

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  
 74 06 06 11 10 74 06 06 10 10 SSW 13 M/S 8 / 8 0.1=0.5 M 11.0 C 5.1 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 MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L M/S  
 0 12.8 6.81 108.9 26.977 .06 .11 .03 .00 .1 9.9 9.8 20.26 1490.3  
 5 12.7 6.83 109.1 27.012 .04 .12 .02 .04 .2 14.6 14.4 20.30 1490.1  
 10 11.7 6.96 109.4 28.080 .06 .11 .03 .08 .2 14.6 14.4 21.31 1487.8  
 15 11.4 6.96 109.1 28.541 .05 .08 .03 .17 .3 9.0 8.4 21.71 1487.6  
 20 9.6 6.58 101.1 31.794 .18 .37 .07 .14 .6 9.0 8.4 24.54 1485.1  
 30 8.3 6.26 94.4 33.1 33.258 .36 1.8 .15 .55 2.5 25.88 1482.4 133.9  
 40 7.1 5.72 84.2 96.2 33.972 .63 3.2 .19 1.03 4.5 26.62 1478.5 74.5  
 44 7.0 5.67 83.3 101.1 34.028 .63 3.2 .22 1.23 4.6 17.0 12.4 26.68 1478.4 12.7

DEPTH OIL FEN ORGC YEL. PH CPROD NETPR CORPR NETCO CARB SUMN ORGN TOTN CARB/ ORGC/ TOTCP MEAN  
 M MG/L M/G MG/L MGC/QMH MG/L /P04 /OP /TP P04P ORGP TOTP N/P C/P  
 0 .41  
 5 .41  
 10 .37  
 15 .41  
 20 .37  
 30 .18  
 40 .18  
 44 .37

2.3  
 4.5  
 3.5  
 5.5  
 3.2  
 6.9  
 7.1  
 7.4

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 DIR.	WIND VEL.	WAVE HEIGHT	AIR TEMP	SECCHI DEPTH	PROD: START HR MT							
YEA MON DAY HOU MIN	74 06 06 10 30	74 06 06 09 30	SSW 18 M/S	0.5-1.2 M	11.0 C	5.5 M	HR MT HR MT							
DEPTH TEMP. CELS.	OXYG % SAT	A.O.U	SALT 0/00	TOTP ORGP MA/L	NO2N MA/L	NO3N 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	6.85	109.0	27.108	.04	.12	.04	.01	.2	13.9	13.7	20.41	1489.6	
5	12.6	6.86	109.2	27.138	.09	.11	.03	.00	.1	17.1	16.9	20.43	1489.7	4.6
10	12.3	6.84	108.4	27.430	.03	.11	.02	.01	.1			20.70	1489.1	55.0
15	11.4	6.96	109.0	28.618	.05	.09	.03	.01	.1			21.78	1487.5	215.1
20	10.0	6.66	103.2	31.595	.12	.41	.07	.18	.7	11.1	10.4	24.32	1486.3	508.1
30	8.5	6.33	95.7	33.147	.40	1.9	.14	.49	2.5			25.77	1482.8	144.9
34	8.4	6.26	94.6	33.261	.39	2.3	.13	.72	3.2	14.7	11.5	25.87	1482.9	23.8

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	VEL. PH	CPROD MGC/GMH	NETPR	CORPR	NETCO	CARB MG/L	SUMN ORGN /PO4	ORGN /OP	TOTN CARB/ P04P	ORGC/ ORGP	TOTC/ TOTP	MEAN N/P	MEAN C/P
0				.37						4.2						
5				.41						1.6						
10				.41						4.9						
15				.60						2.6						
20				.32						5.5						
30				.14						6.3						
34				.14						8.1						

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 HEIGHT DEPTH HR MT HR MT  
 74 06 06 09 10 74 06 06 08 10 SSW 14 M/S 8 /8 0.5-1.2 M 13.5 C 6.9 M

DEPTH M	TEMP. CELS.	OXYG % SAT	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	12.4	6.92	109.8	27.311	.08	.14	.04	.21	.04	.4	16.8	16.4	20.60	1489.1			
5	12.4	6.92	109.8	27.300	.09	.11	.03	.04	.03	.2	17.7	17.5	20.59*	1489.2			-1.7
10	12.1	6.93	109.7	27.718	.09	.08	.03	.10	.03	.2			20.95	1489.0			73.0
15	11.6	6.99	109.9	28.387	.09	.08	.03	.13	.03	.2			21.56	1488.0			122.0
20	9.9	6.63	102.2	31.306	.17	.30	.09	.15	.09	.5			24.12	1485.4			511.1
30	8.3	6.31	95.2	28.2	33.454	2.1	.15	.52	.15	2.8			26.04	1482.5			191.7
36	8.3	6.49	98.0	12.0	33.573	2.6	.15	.66	.15	3.4			21.3	1482.7			16.2

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			.55							4.8							
5			.41							2.0							
10			.41							2.4							
15			.37							2.7							
20			.32							3.2							
30			.18							7.4							
36			.18							7.9							

AVERAGE VALUES FOR THE WATER COLUMN 0-30 M  
 PO4P TONN TONN TONN TONN TONN TONN TONN TONN TONN TONN TONN TONN TONN TONN TONN TONN TONN TONN  
 TONS TONS TONS TONS TONS TONS TONS TONS TONS TONS TONS TONS TONS TONS TONS TONS TONS  
 .9 .9 1.9 43.3 .2 .5 .5 2.5

\* = 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 DIR.	WIND VEL.	CLOUD COVER	WAVE HEIGHT	AIR TEMP	SECCHI DEPTH	PROD.	START	DURAT
YEA MON DAY HOU MIN		WSW	5 M/S	2 / 8	0 - 0.1 M	16.0 C		HR	MT	HR MT
74 06 10 15 20	74 06 10 14 20									

DEPTH M	TEMP. CELS.	OXYG % SAT	A.O.U	SALT	P04P	TOTP	ORGP	N03N	N02N	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	M/L	M/S	
0	14.1	6.85	112.3	26.813	.07	.61	.54	.04	.02			.1	11.3	11.2	19.90	1494.4	
2.5	14.0	6.81	111.6	26.809	.05	.63	.58	.07	.02			.1			19.90	1494.3	2.6
5	13.8	6.85	111.7	26.829	.05	.62	.57	.07	.02			.1	12.5	12.4	19.96	1493.7	21.5
10	12.3	6.52	103.6	27.544	.09			.11	.02						20.78	1489.5	165.7
15	11.0	6.10	95.3	26.8	.23	.67	.44	.49	.06			1.2			22.44	1487.2	332.0
18	10.2	6.04	93.8	35.9	.34	.79	.45	.64	.09			1.7	8.2	6.5	23.89	1486.5	483.8

DEPTH M	OIL	FEN	ORGC	VEL.	PH	CPROD	NETPR	CORPR	NETCO	CARB	SUMN	ORGN	TOTN	CARB	P04P	ORGP	TOTC	MEAN
	MG/L	MIG	MG/L			MGC/QMH			MG/L	MG/L	/P04	/OP	/TP	P04P	ORGP	TOTP	N/P	MEAN
0				.64							1.2	20.9	18.5					
2.5				.51							2.7	21.9	20.2					
5				.46							1.3							
10				.32							5.2							
15				.28							4.8	14.7	10.4					
18				.23														16.4

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 CLOUD WAVE AIR SECCHI PRD: 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	P04P MA/L	T0TP 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	13.5	6.86	111.4	26.979	.07	.62	.55	.03	.03				9.0		20.13	1492.7	
2.5	13.5	6.86	111.4	27.018	.05	.57	.52	.06	.02				11.7		20.17	1492.7	15.5
5	13.3	6.82	110.2	27.026	.08	.55	.47	.03	.03						20.20	1492.2	13.7
10	12.1	6.59	104.4	27.775	.07	.52	.45	.06	.03						21.00	1489.0	159.2
15	10.4	6.35	98.7	7.7	30.715	.19	.45	.32	.07	.26	.6				23.57	1486.7	513.7
20	10.1	6.23	96.7	19.2	31.459	.26	.50	.50	.09	.44	1.0				24.19	1486.6	125.5
24	9.7	6.14	94.7	30.7	31.932	.39	.47	.90	.11	.61	1.6				24.64	1485.6	110.6

DEPTH M	OIL MG/L	FEN MG/L	ORGC MG/L	YEL.	PH	CPROD MGC/QMH	NETPR	CORPR	NETCO	CARB MG/L	SUMN /P04 /OP	ORGN /TP	TOTN /TP	CARB /P04P	ORGC /ORGP	TOTC /TOTP	MEAN N/P	MEAN C/P
0				.46									14.6					
2.5				.41									21.3					
5				.41														
10				.32							3.4							
15				.28							3.9	3.6	3.7					
20				.23							4.2	13.6	9.4					
24				.23														12.2

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 SECCO | PROD: START DURAT  
 YEA MON DAY HOU MIN DIR. VEL. HEIGHT TEMP DEPTH HR MT HR MT  
 74 06 10 11 25 74 06 10 10 25 SW 6 M/S 3 /8 0.5-1.2 M 13.0 C

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 MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L MA/L M/S  
 0 12.8 6.83 109.6 27.467 .07 .42 .35 .08 .03 7.3 20.63 1490.9  
 2.5 12.8 6.92 111.0 27.469 .07 .46 .39 .11 .00 4.6 20.64 1491.0  
 5 12.6 6.89 110.0 27.502 .14 .41 .27 .11 .02 4.6 20.70 1490.4  
 10 11.8 6.93 109.3 28.026 .11 .39 .28 .13 .01 .03 .3 21.24 1488.3  
 15 10.6 6.51 102.0 31.189 .15 .41 .26 .28 .04 .18 .9 23.90 1488.0  
 20 10.0 6.37 98.9 6.3 31.950 .23 .46 .23 .60 .08 .44 1.7 24.59 1486.9  
 30 9.3 6.33 97.3 15.8 32.816 .29 .69 .40 1.2 .10 .83 2.8 25.38 1485.5  
 32 9.1 6.13 93.8 36.2 32.842 .40 .72 .32 1.8 .14 .03 2.8 25.43 1484.9

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 MG/G QMH MG/L /P04 /OP /TP P04P ORGP TOTP N/P C/P  
 0 .46 17.4  
 2.5 .41 11.3  
 5 .37  
 10 .32  
 15 .23  
 20 .18  
 30 .14  
 32 .18

13.4  
6.2

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  
 1.1 4.1 2.8 24.6 .2 .3 .6 .5

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 WAVE AIR SECCHI PROD: START DURAT  
 YEA MON DAY HOU MIN DIR. VEL. COVER HEIGHT TEMP DEPTH HR MT HR MT  
 74 06 24 14 05 74 06 24 13 05 NE 1 M/S 1/8 0 --0.1 M 21.0 C 6.5 M

DEPTH M	TEMP. CELS.	OXYG %	SAT ML/L	A.O.U	SALT 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	17.8	6.63	117.6		27.417	.05	.61	.56	.09	.00				12.9	19.56	1507.0		
2.5	15.9	5.03	86.2	72.1	27.820	.04	.72	.68	.08	.00				15.8	20.29	1501.7	290.2	
5	14.1	6.71	111.6		28.811	.08	.59	.51	.07	.00					21.42	1497.1	452.1	
10	11.7	6.65	106.4		30.610	.10	.70	.60	.10	.01					23.26	1491.1	368.2	
15	10.6	5.91	92.7	41.3	31.581	.24	.72	.48	.45	.07	.72	1.2			24.20	1488.5	189.0	
20	9.8	5.33	82.7	99.3	32.595	.38	.77	.39	1.3	.20	1.64	3.1	13.9	10.8	25.13	1486.9	184.6	
26	9.8	5.20	80.9	109.6	32.903	.49	.94	.45	1.7	.22	1.99	3.9	17.0	13.1	25.37	1487.4	40.0	

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												21.2					
2.5												26.9					
5																	
10																	
15										5.1							
20										8.0	28.1	18.1					
26										7.9	29.4	18.1					21.0

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 HR MT HR MT  
 74 06 24 11 10 74 06 24 10 10 NE 1 M/S 2 / 8 0 -0.1 M 20.0 C

DEPTH M	TEMP. CELS.	OXYG % SAT	A, O, U MA/L	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	17.8	6.74	119.2	26.809	.04	.39	.35	.11	.02						19.10	1506.3	
2.5	16.9	6.77	117.7	26.928	.04	.38	.34	.07	.01						19.39	1503.7	116.8
5	14.2	7.04	116.8	28.140	.10	.36	.26	.06	.00				9.9		20.88	1496.6	596.7
10	11.8	6.80	108.7	30.399	.10	.37	.27	.06	.01						23.08	1491.2	439.0
15	10.8	6.28	99.0	5.6 31.656	.16	.86	.70	.37	.05	.30	.7				24.23	1489.3	230.0
20	10.2	5.82	91.0	51.4 32.205	.32	.64	.32	.75	.11	.76	1.6				24.76	1487.9	105.7
30	9.4	6.18	95.9	23.4 33.900	.27	.55	.28	.99	.13	.95	2.1				26.21	1487.3	145.3
33	9.4	5.93			.34	.82	.48	1.2	.15	1.32	2.7				NOT COMPUTED		

DEPTH M OIL FEN ORGC YEL. PH CPROD NETPR CORPR NETCO CARB MG/L /PO4 /OP /TP /TOTN CARB/ ORGC/ TOTC/ MEAN  
 MG/L M/G MG/L

0																	
2.5																	
5													27.6				
10																	
15										4.4							21.0
20										5.1	23.8	14.5					8.1
30										7.5							
33										7.8	8.4	8.1					

AVERAGE VALUES FOR THE WATER COLUMN 0-30 M AVERAGE VALUES FOR THE WATER COLUMN BELOW 30 M  
 PO4P TONN SUMN TONN CARB TONN TOTC TONN  
 TONS TONS TONS TONS  
 1.2 4.4 6.8 42.6  
 .1 .3 .4 .9

This data list should be completed with the following data:

	1974-02-18		1974-03-11		1974-03-25		1974-04-08	
	Stn. 2	Stn. 5	Stn. 2	Stn. 5	Stn. 2	Stn. 5	Stn. 2	Stn. 5
Secchi depth m			4,0	4,0	8,3	7,5	6,5	11
pH 0 m	8,0	8,0	8,2	8,3	8,2	8,2	8,2	8,2
2,5 m	8,0	8,0	8,2	8,4	8,2	8,2	8,2	8,2
5 m	8,0	8,0	8,2	8,4	8,2	8,2	8,2	8,2
10 m	8,0	8,0	8,2	8,4	8,1	8,0	7,9	7,9
15 m	8,0	8,0	8,0	8,2	7,9	7,9	7,9	7,9
20 m	8,0	8,0	7,9	8,0	7,9	7,9	7,9	7,9

	1974-05-08		1974-05-28		1974-06-10		1974-06-24	
	Stn. 2	Stn. 5	Stn. 2	Stn. 5	Stn. 2	Stn. 5	Stn. 2	Stn. 5
Secchi depth m						8,4		14
pH 0 m	8,2	8,2	8,3	8,2	8,2	8,1	8,2	8,2
2,5 m	8,2	8,2	8,3	8,2	8,2	8,1	8,2	8,2
5 m	8,2	8,2	8,2	8,1	8,2	8,1	8,1	8,2
10 m	8,2	8,2	8,1	8,1	8,2	8,1	8,1	8,1
15 m	8,2	8,2	8,1	8,1	8,1	8,1	8,1	8,1
20 m	8,2	8,0	8,0	8,1	8,1	8,1	8,0	8,0

Also during 1974 the Marine Botanical Institute at the University of Gothenburg has made primary production measurements simultaneously with the hydrographical observations. Unfortunately the data concerning primary production are not yet calculated; they will be presented in the final report on this investigation.





