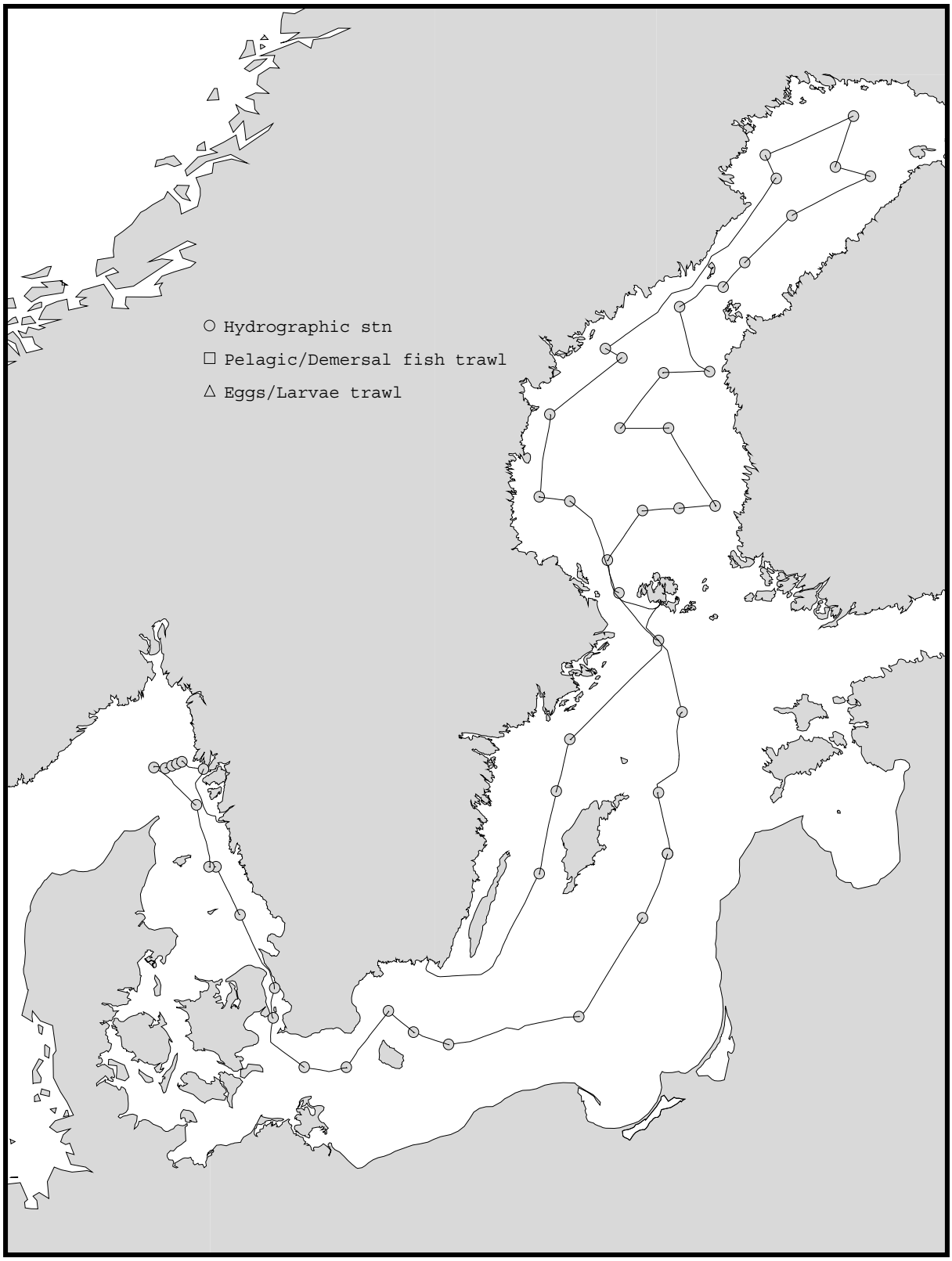
T R A C K C H A R T

Country: Sweden
Ship : Argos
Date : 20041128-20041209
Series : 0759-0808



CSR RefNo: 2004-77AR/0759-0808

SMHI ***** Hydrographic Ship: 14-Argos ****** Date: 2004-12-13
Ocean lab ***** series Year: 2004 ****** Time: 13:08

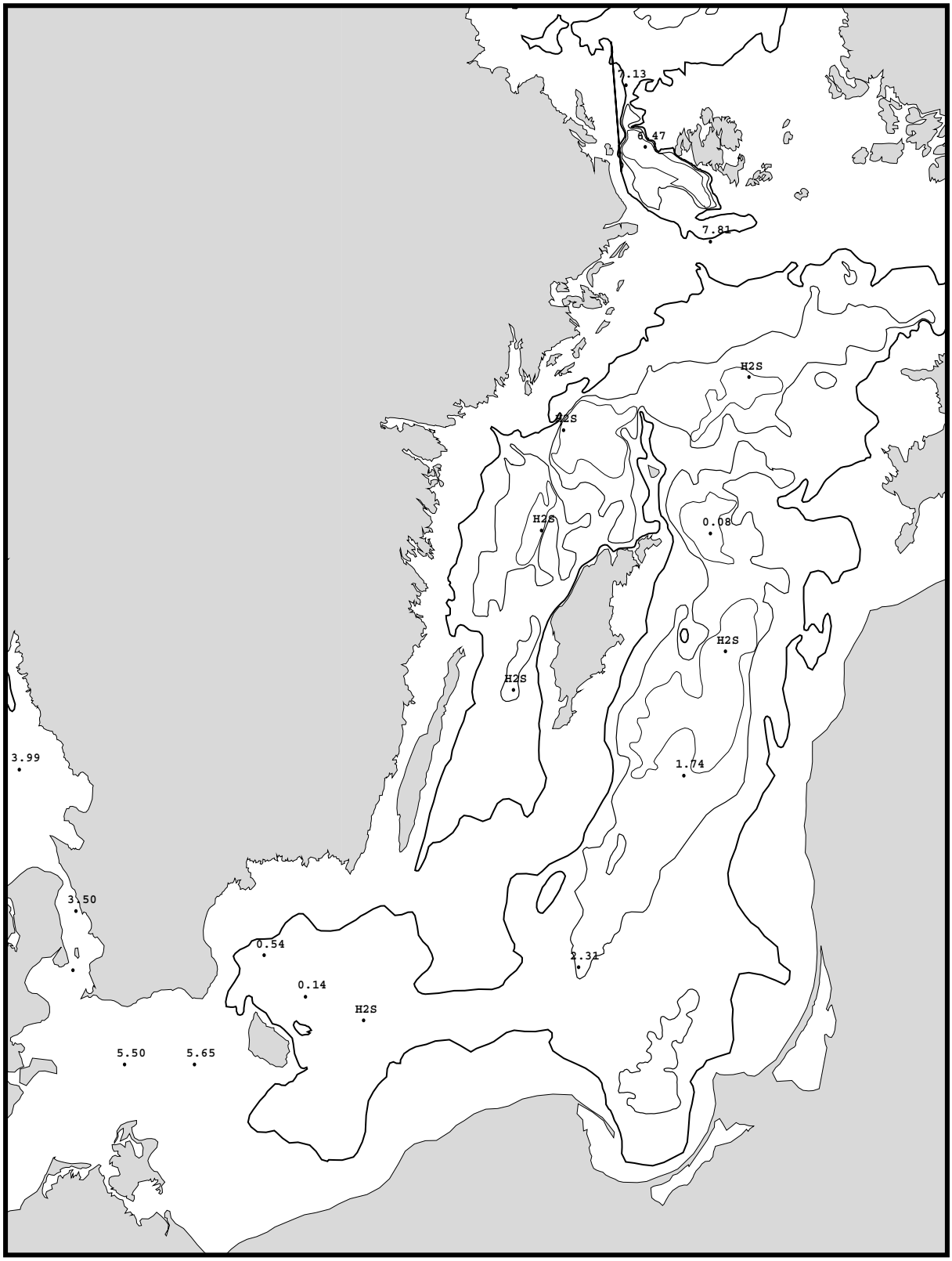
Ser no	Stat code	Proj	Station	Lat	Lon	Date yyyymmdd	Time hhmm utc	Bottom depth m	Secchi depth m	Wind dir	Wind vel	Air temp C	Air pres hPa	WCSI eluhd	Ctd aoaePrP	PPCPZZT Hrhhoor Cilyooa motPBw l	No de	Tem p	Sal in	Ph	Oxy g	H2S	PO4 P	Tot P	NO2 N	NO3 N	NH4 N	Tot N	Al k	Si O3	Humus	Lign i	POC	POC	Tot C	Com m
0759	BPWX45BAS		BY38 KARLSöDJ	N5707	E1740	20041129	0950	109	9	32	3	6.8	1012	2730	x	--x----	14	x	x	-	x	x	x	x	x	x	x	-	x	-	-	-	-	-	x
0760	BPWX38BAS		BY32 NORRKöPINGSDJ	N5801	E1759	20041129	1540	203		32	5	2.9	1014	9990	x	-------	17	x	x	-	x	x	x	x	x	x	x	-	x	-	-	-	-	-	x
0761	BPNX37BAS		BY31 LANDSORTSDJ	N5835	E1814	20041129	2020	456		34	5	-2	1015	9990	x	--xx---	23	x	x	-	x	x	x	x	x	x	x	-	x	-	-	-	-	-	x
0762	GBAX01BAS		TRöSKELN åLANDS HAV	N5939.8	E1953	20041130	0545	57		25	3	-0.3	1012	9990	x	-------	9	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	x
0763	GBAX02BAS		F64 SOLOVJEVA	N6011	E1909	20041130	1015	278	6	23	9	1.4	1009	2830	x	-------	20	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	x
0764	GBSX03BAS		F33 GRUNDKALLEN	N6032.5	E1856	20041130	1310	136		23	10	2.6	1010	2830	x	-------	14	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-
0765	GBSX07BAS		SR5 / C4	N6105	E1935	20041130	1730	127		25	10	3.3	1005	9990	x	-------	14	x	x	-	x	-	x	x	x	x	x	-	x	x	-	-	-	-	-
0766	GBSX06BAS		SS29	N6106.5	E2016	20041130	1950	114		25	7	4.5	1004	9990	x	-------	13	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-
0767	GBSX04BAS		SR8	N6108	E2056	20041130	2210	41		25	8	5.2	1005	9990	x	-------	7	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-
0768	GBSX22BAS		F26 / C15	N6159	E2004	20041201	0345	142		27	6	4.1	1002	9990	x	-------	14	x	x	x	x	-	x	x	x	x	x	x	x	x	x	-	-	-	-	-
0769	GBSX17BAS		MS6	N6159	E1910	20041201	0645	70		23	6	3.0	1003	1830	x	-------	9	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-
0770	GBSX26BAS		US5B / C1	N6235.2	E1958.5	20041201	1105	205	7	23	8	5.3	1002	1330	x	-------	17	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-
0771	GBSX23BAS		US7	N6236	E2050	20041201	1400	26		25	8	6.1	1002	0030	x	-------	6	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	x
0772	GBSX30BAS		F18 SYDOSTBROTTEN	N6318.5	E2016.5	20041201	1855	100		30	5	3.3	1003	9990	x	-------	12	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-
0773	GBQX31BAS		F16	N6331.5	E2105	20041201	2155	44		05	4	0.7	1005	9990	x	-------	7	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-
0774	GBBX32BAS		F13	N6347.5	E2129	20041202	0005	65		05	3	1.6	1005	9990	x	-------	9	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	x
0775	GBBX33BAS		BO3 / A3	N6418.3	E2221.5	20041202	0400	108		05	3	2.5	1006	9990	x	-------	13	x	x	x	x	-	x	x	x	x	x	x	x	x	x	-	-	-	-	-
0776	GBBX35BAS		RR7	N6444	E2349	20041202	0815	40		07	5	-1.0	1009	2730	x	-------	7	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-
0777	GBBX37BAS		RR5	N6450.2	E2310	20041202	0955	67		07	5	1.1	1009	1630	x	-------	9	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	x
0778	GBBX46BAS		F2	N6523.5	E2330	20041202	1250	90		09	3	0.0	1010	2720	x	-------	11	x	x	-	x	-	x	x	x	x	x	-	x	x	-	-	-	-	x
0779	GBBX40BAS		RR1	N6458	E2152	20041202	1705	86		36	7	2.5	1010	9990	x	-------	11	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	x
0780	GBBX43BAS		F9 / A13	N6442.5	E2204	20041202	1850	123		16	5	-1	1010	9990	x	-------	14	x	x	-	x	-	x	x	x	x	x	-	x	x	-	-	-	-	x
0781	GBSX28BAS		US2 ULVöDJ	N6251	E1853.5	20041203	0740	204		09	4	1.6	1012	1130	x	-------	17	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-
0782	GBSX27BAS		US3 / C6	N6245	E1912	20041203	0925	178		09	6	2.0	1010	1130	x	-------	16	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-
0783	GBSX13BAS		MS2	N6208	E1752	20041203	1415	74		99	2	2.0	1013	1230	x	-------	10	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-
0784	GBSX10BAS		SR1A	N6114	E1740	20041203	1855	61		27	6	1.3	1013	7990	x	-------	9	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-
0785	GBSX09BAS		SR3	N6111	E1814	20041203	2040	72		27	6	2.4	1013	9990	x	-------	9	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-

SMHI ***** Hydrographic Ship: 14-Argos ****** Date: 2004-12-13
Ocean lab ***** series Year: 2004 ****** Time: 13:08

Serno	Statcode	Proj	Station	Lat	Lon	Date yyyymmdd	Time hhmm utc	Bottom depth m	Secchi depth m	Wind dir	Wind vel	Air temp C	Air pres hPa	WCSI eloahd	Cutd	PPCPZZT HrhhoorCilyooamotPBwPrP l	No de	Tem p	Sal in	Ph	Oxyg	H2S	Po4 P	Too t P	Noo2 N	Noo3 N	Noh4 N	Not N	Alk l	Sio3	Hum us	Lign in	PON	POC	Too C	Com m
0786	BPNX35BAS	BY29		N5853	E2019	20041206	0159	175		32	22	6.3	995	9990	x	--x----	16	x	x	-	x	x	x	x	x	x	x	-	x	-	-	-	-	-	-
0787	BPEX26BAS	BY20	FåRöDJ	N5800	E1953	20041206	0920	200		32	17	5.4	1007	2760	x	--x----	17	x	x	-	x	x	x	x	x	x	x	-	x	-	-	-	-	-	x
0788	BPEX21BAS	BY15	GOTLANDSDJ	N5720	E2003	20041206	1425	246		32	13	5.8	1013	2750	x	--xx---	19	x	x	x	x	x	x	x	x	x	x	x	x	-	-	-	-	-	-
0789	BPEX21BAS	BY15	GOTLANDSDJ	N5720	E2003	20041206	1545	246		32	13	5.8	1013	9990	x	-------	6	x	x	-	x	x	x	x	x	x	x	-	x	-	-	-	-	-	x
0790	BPEX13BAS	BY10		N5638	E1935	20041206	2055	147		27	7	5.4	1017	9990	x	--x----	15	x	x	-	x	x	x	x	x	x	x	-	x	-	-	-	-	-	-
0791	BPSE11BAS	BCS III-10		N5533.3	E1824	20041207	0600	90		23	14	7.5	1016	9990	x	--x----	12	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-
0792	BPSB07BAS	BY5	BORNHOLMSDJ	N5515	E1559	20041207	1520	91		27	10	7.2	1019	9990	x	-xxx---	12	x	x	x	x	x	x	x	x	x	x	x	x	-	-	-	-	-	x
0793	BPSB06BAS	BY4	CHRISTIANSö	N5523	E1520	20041207	1805	92		27	12	6.5	1019	9990	x	-------	12	x	x	-	x	x	x	x	x	x	x	-	x	-	-	-	-	-	x
0794	BPSH05BAS	HANöBUKTEN		N5537	E1452	20041207	2025	79		25	10	6.5	1019	9990	x	-------	11	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-
0795	BPSA03BAS	BY2	ARKONA	N5500	E1405	20041208	0050	49		27	11	6.8	1022	9990	x	--xx---	8	x	x	-	x	-	x	x	x	x	x	-	x	x	-	-	-	-	-
0796	BPSA02BAS	BY1		N5500	E1318	20041208	0345	46		27	13	6.9	1023	9990	x	-------	8	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	x	-	-
0797	SOSX48EXT	DROGDEN E		N5532.40	E1243.75	20041208	0755	11		27	8	7.0	1024	2730	x	-------	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0798	SOCX39BAS	W LANDSKRONA		N5552.0	E1245.0	20041208	1005	50		27	9	7.5	1025	1230	x	-------	9	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	x
0799	KAEX29BAS	ANHOLT E		N5640.0	E1207.0	20041208	1455	60		30	6	7.4	1025	1330	x	-xxxx--	10	x	x	x	x	-	x	x	x	x	x	x	x	-	-	-	-	-	-
0800	KANX25BAS	FLADEN		N5711.5	E1140	20041208	1815	80		32	7	7.5	1026	9990	x	--x----	12	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-
0801	KANX19EXT	LASO-E (SEAWATCH BUOY)		N5711.45	E1131.95	20041208	1855	70		32	7	7.5	1026	9990	x	-------	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0802	SKEX23BAS	P2		N5752	E1118	20041208	2238	94		27	10	8.2	1026	9990	x	--x----	10	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-
0803	SKEX18BAS	å17		N5816.5	E1030.8	20041209	0225	331		27	9	8.1	1025	9990	x	--xx---	14	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-
0804	SKEX17BAS	å16		N5816	E1043.5	20041209	0410	201		27	9	9.4	1025	9990	x	-------	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0805	SKEX16BAS	å15		N5817.7	E1051	20041209	0510	133		25	12	9.8	1025	9990	x	--x----	11	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-
0806	SKEX15BAS	å14		N5819	E1056.5	20041209	0555	111		25	11	9.8	1025	9990	x	-------	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0807	SKEX14BAS	å13		N5820.2	E1102	20041209	0635	78		23	10	9.8	1025	9990	x	--x----	9	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-
0808	FIBG27BAS	SLäGGö		N5815.5	E1126.0	20041209	0825	68		25	7	8.7	1025	9990	x	--xx---	9	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-

Bottom water oxygen concentration (ml/l)

Country: Sweden
Ship : Argos
Date : 20041129-20041208
Series : 0759-0800

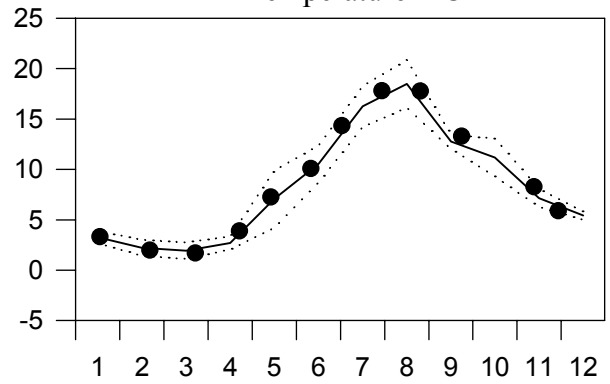


STATION BY32 SURFACE WATER

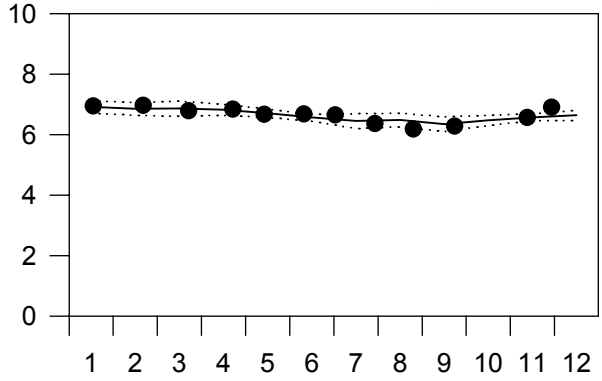
Annual Cycles

Mean 1990-1999 ····· St.Dev. ● 2004

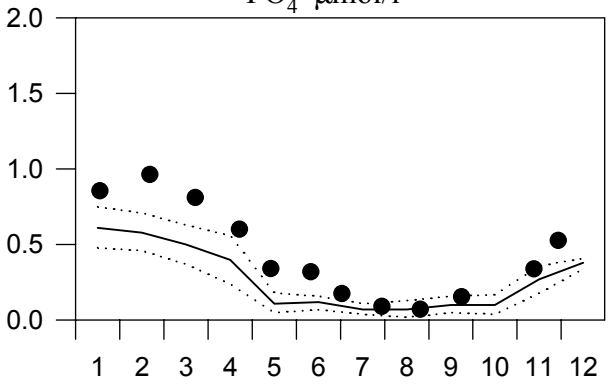
Temperature °C



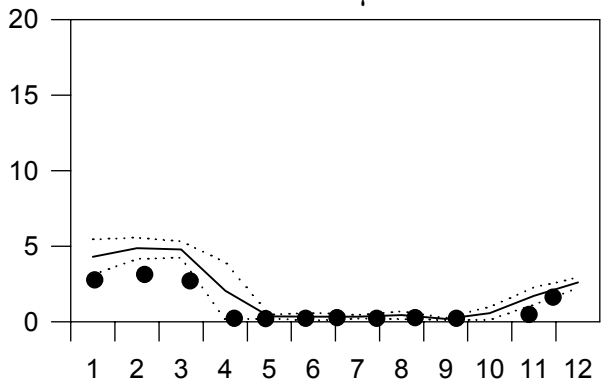
Salinity psu



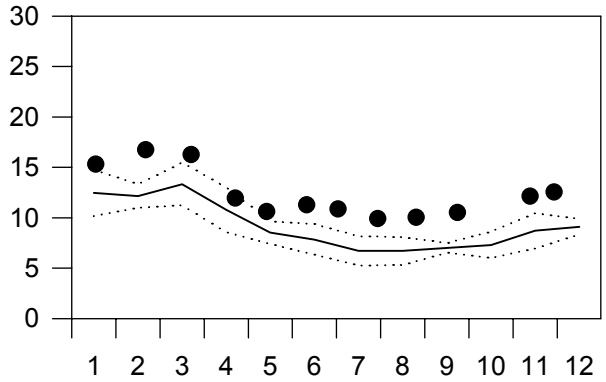
PO_4 µmol/l



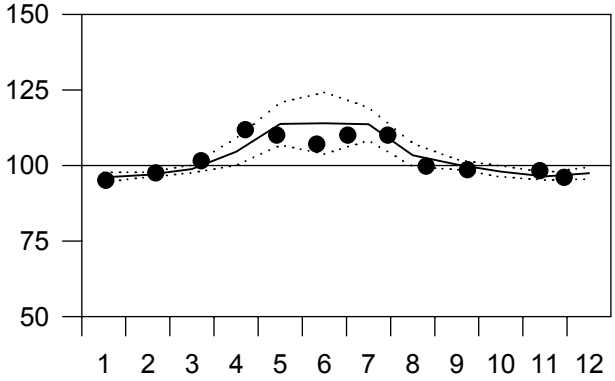
DIN µmol/l



SiO_3 µmol/l

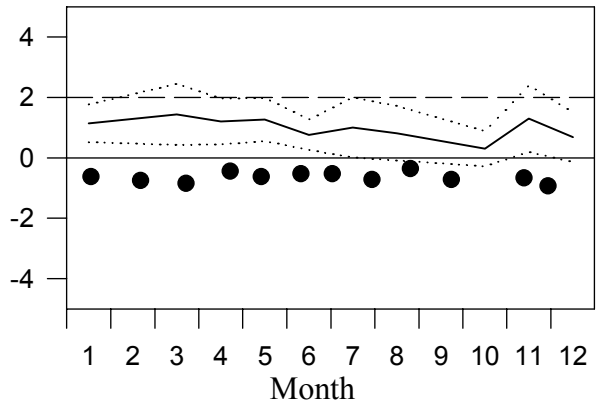


O_2 saturation %

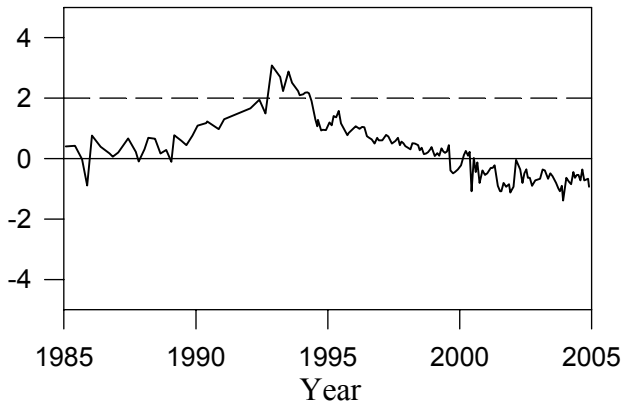


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

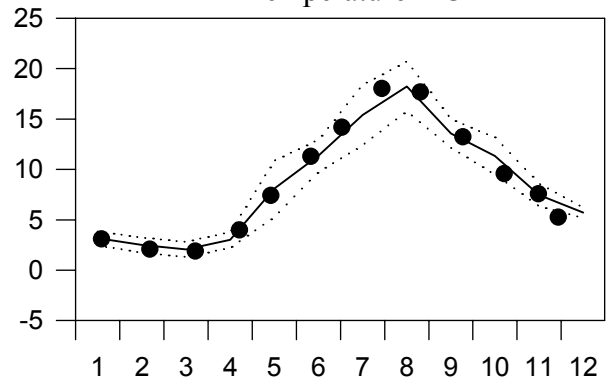


STATION BY38 SURFACE WATER

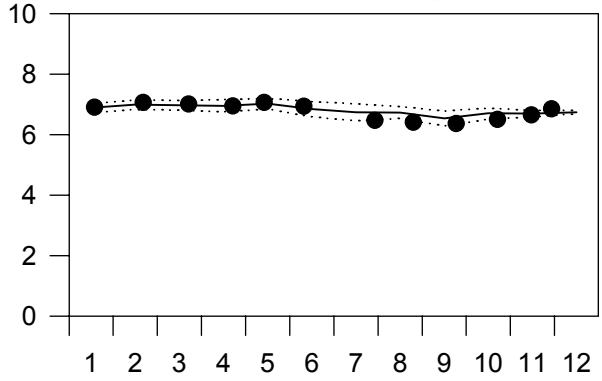
Annual Cycles

Mean 1990-1999 ····· St.Dev. ● 2004

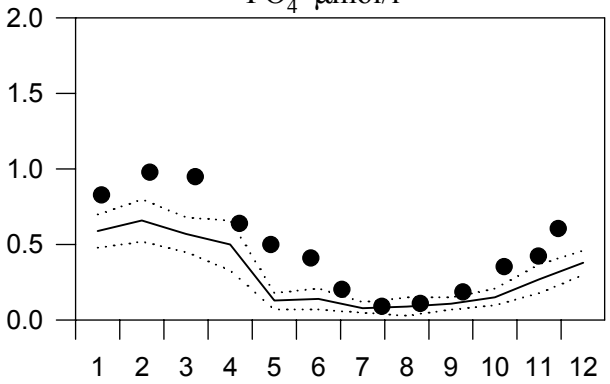
Temperature °C



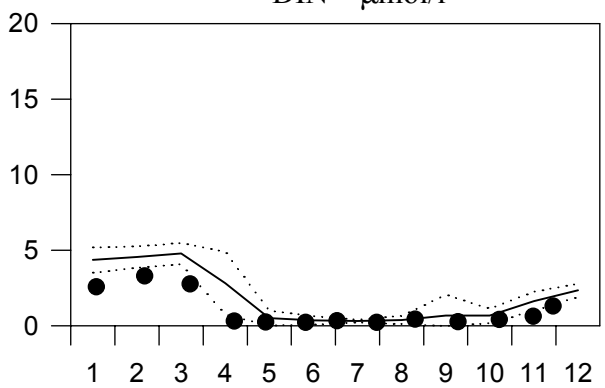
Salinity psu



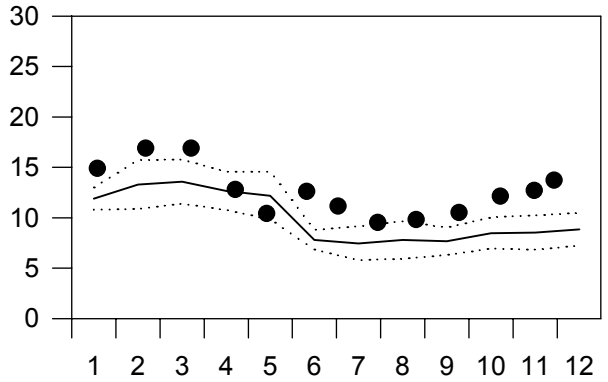
PO_4 µmol/l



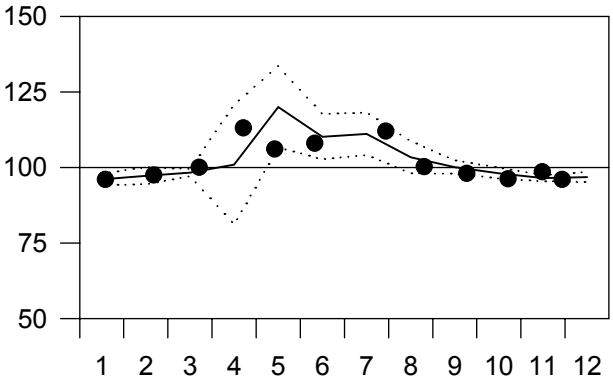
DIN µmol/l



SiO_3 µmol/l

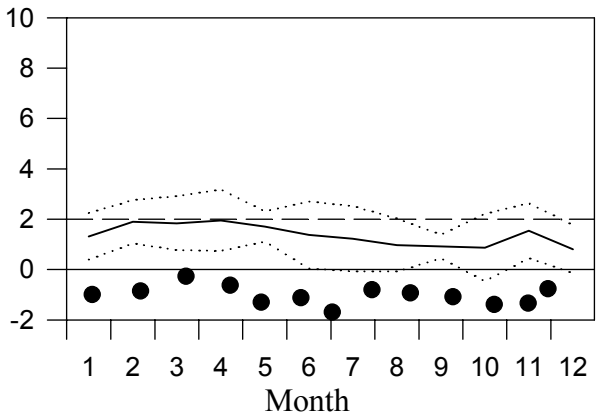


O_2 saturation %

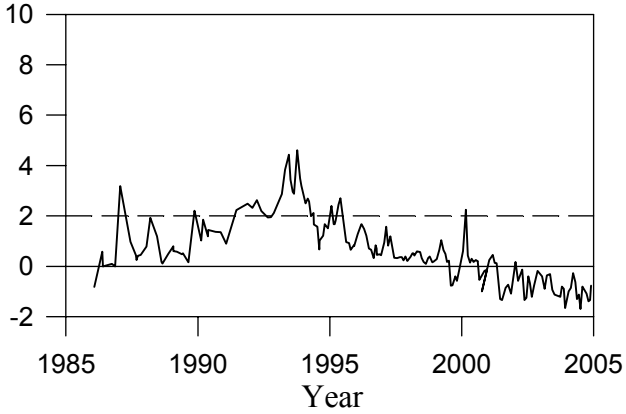


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

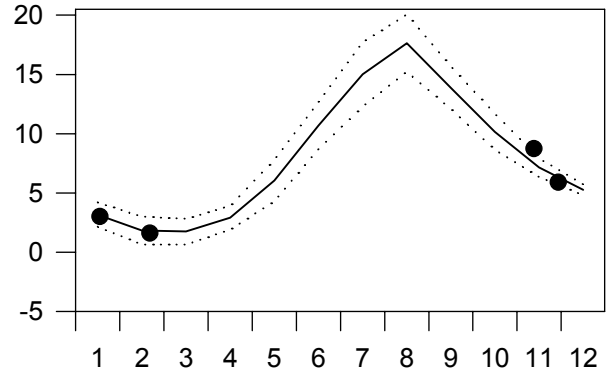


STATION BY31 SURFACE WATER

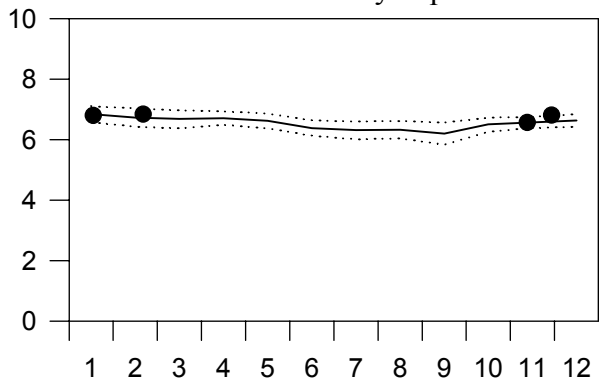
Annual Cycles

Mean 1990-1999 ····· St.Dev. ● 2004

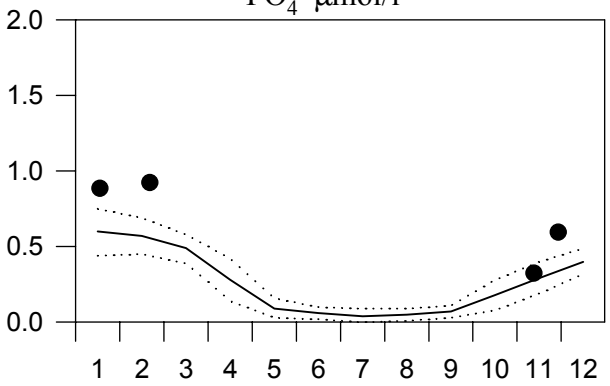
Temperature °C



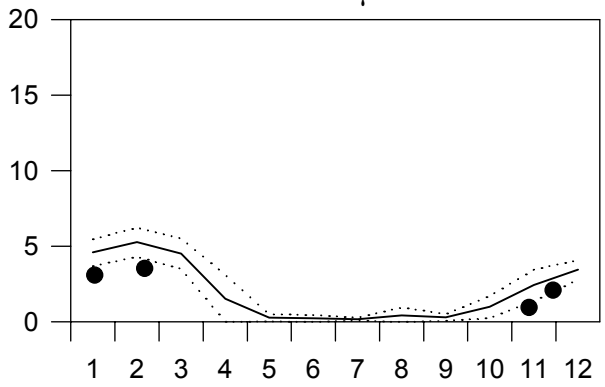
Salinity psu



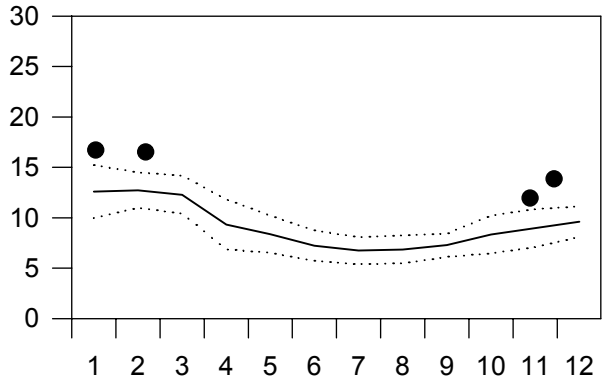
PO_4 µmol/l



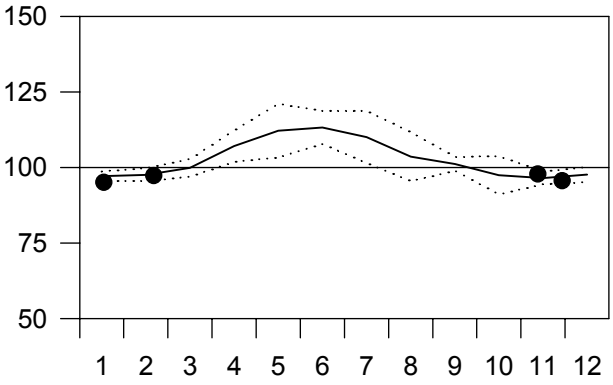
DIN µmol/l



SiO_3 µmol/l

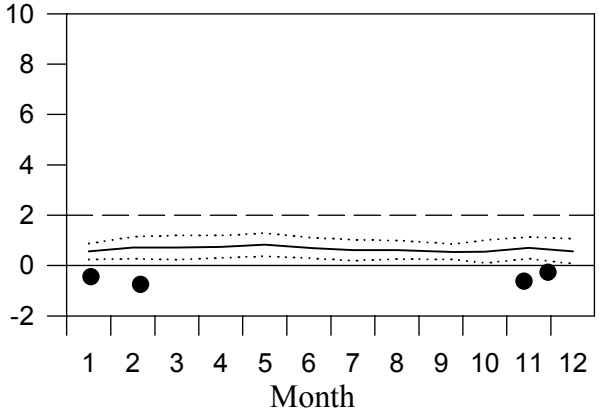


O_2 saturation %

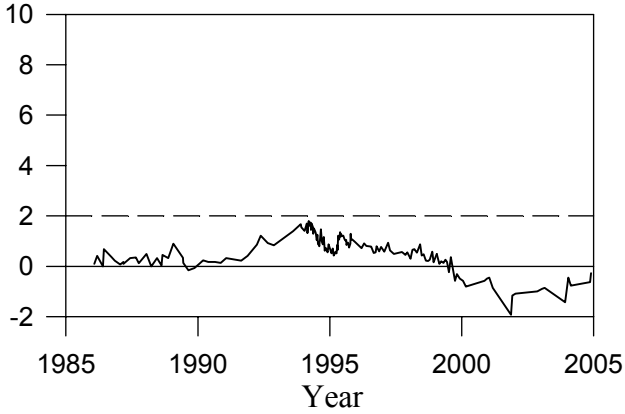


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

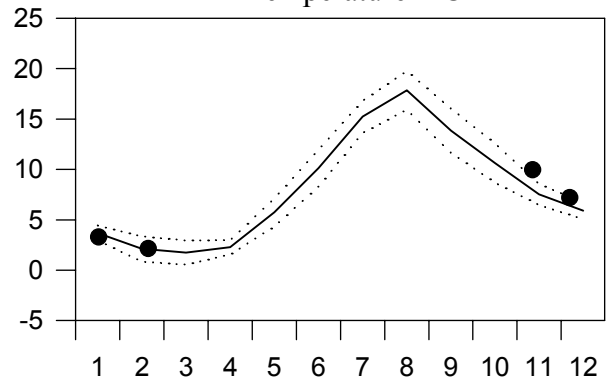


STATION BY29 SURFACE WATER

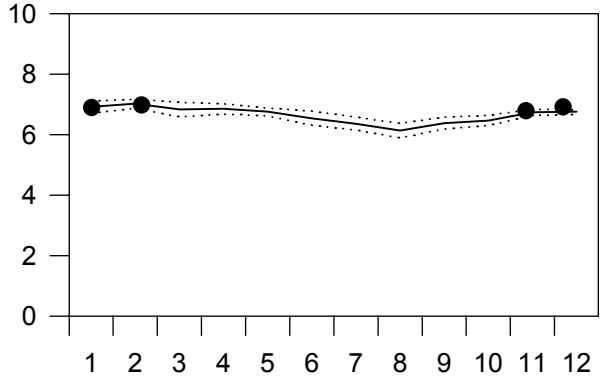
Annual Cycles

Mean 1990-1999 ····· St.Dev. ● 2004

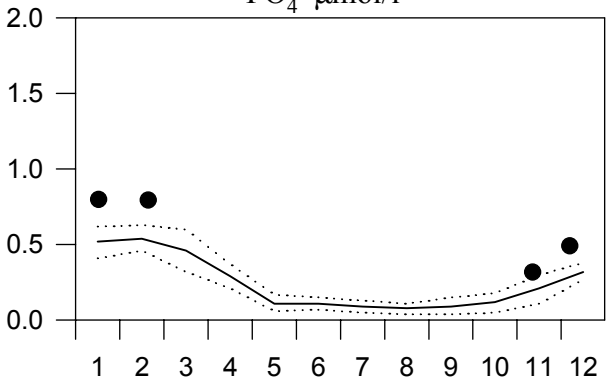
Temperature °C



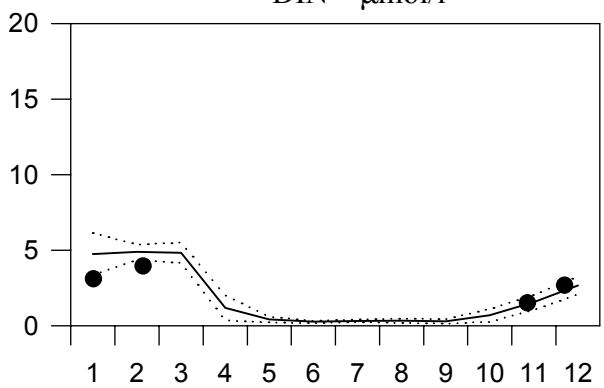
Salinity psu



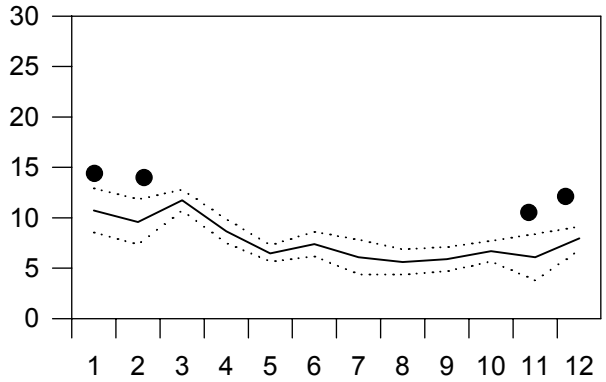
PO_4 µmol/l



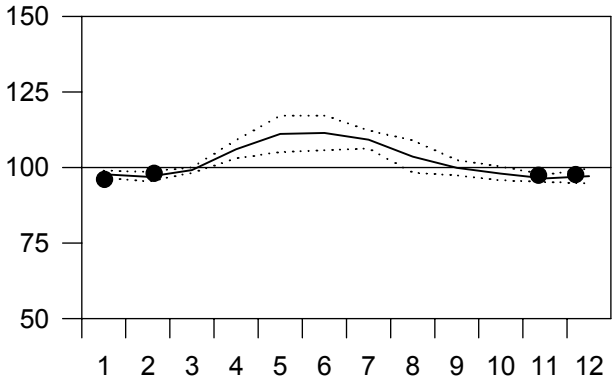
DIN µmol/l



SiO_3 µmol/l

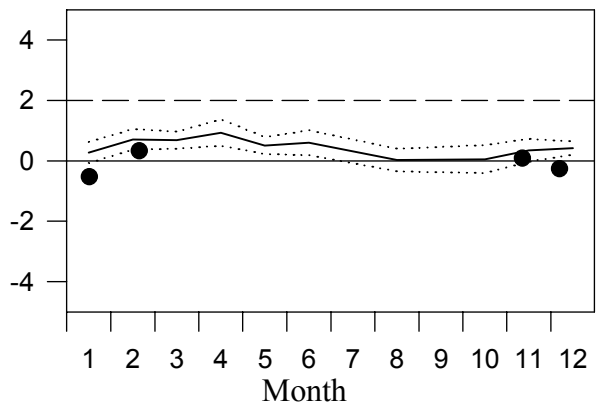


O_2 saturation %

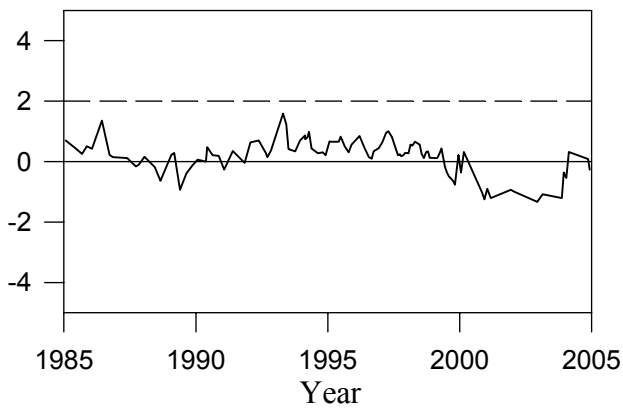


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

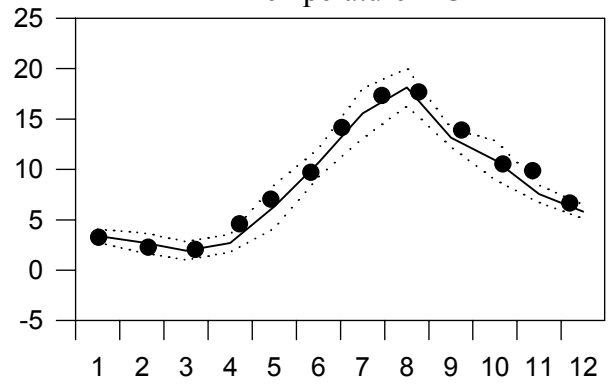


STATION BY20 SURFACE WATER

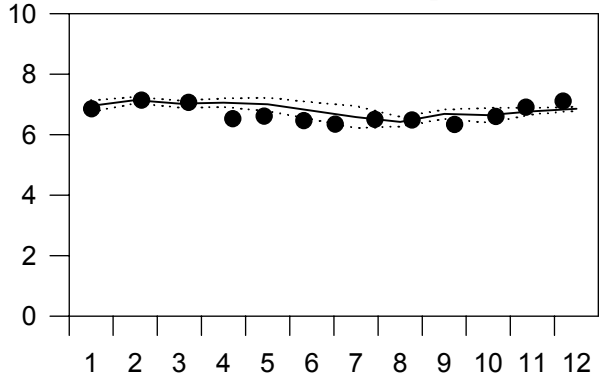
Annual Cycles

Mean 1990-1999 ····· St.Dev. ● 2004

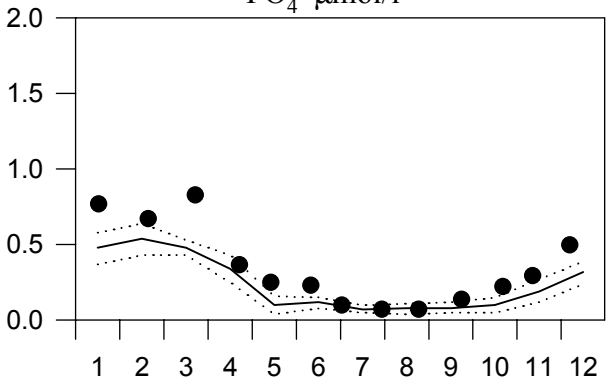
Temperature °C



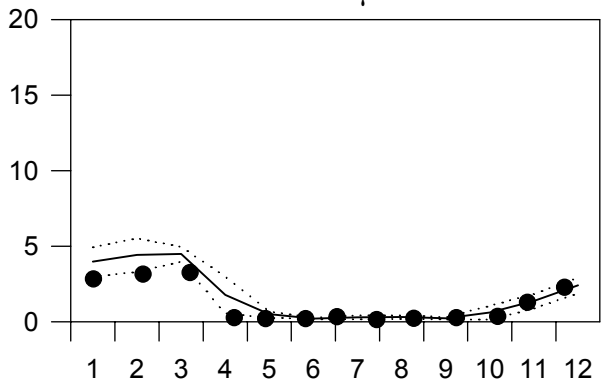
Salinity psu



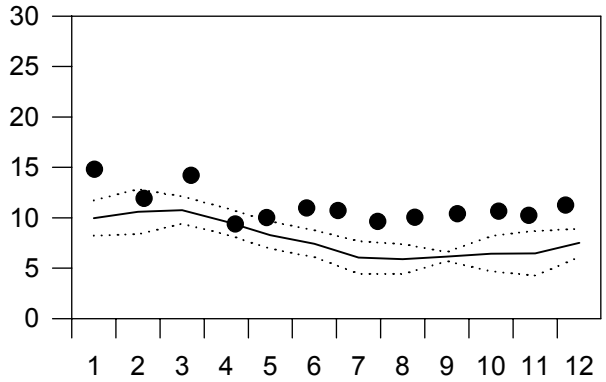
PO_4 µmol/l



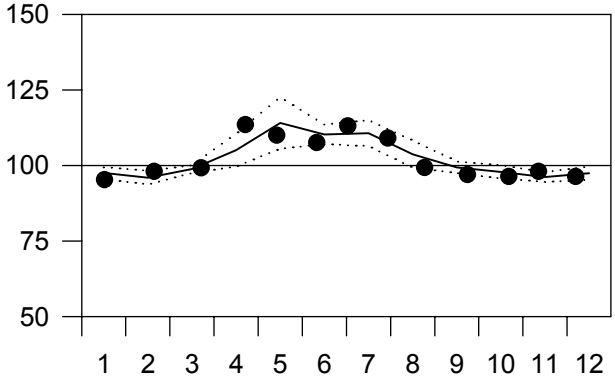
DIN µmol/l



SiO_3 µmol/l

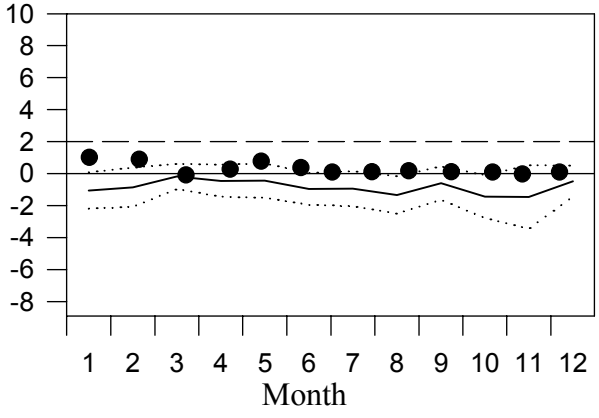


O_2 saturation %

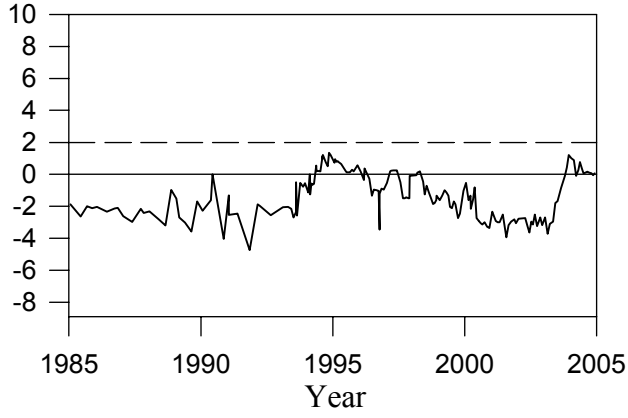


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

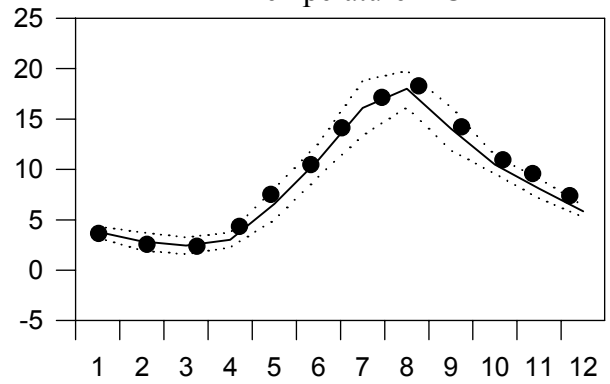


STATION BY15 SURFACE WATER

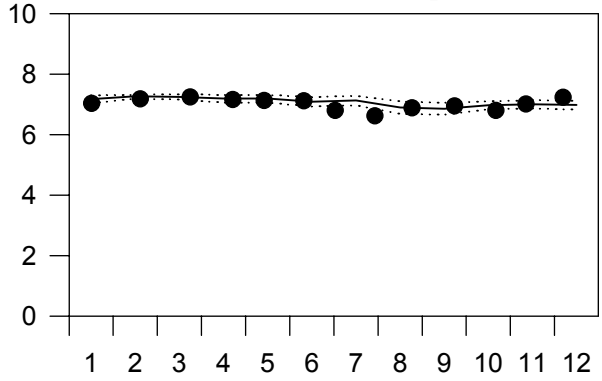
Annual Cycles

Mean 1990-1999 ····· St.Dev. ● 2004

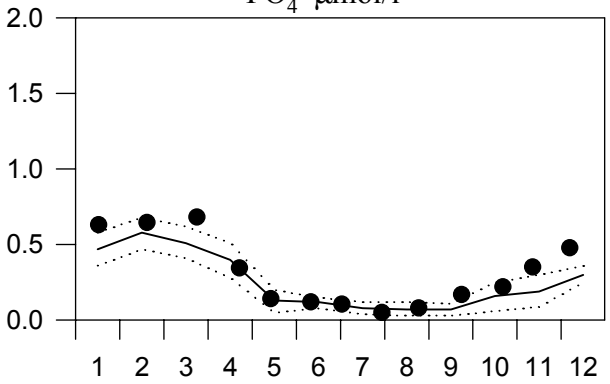
Temperature °C



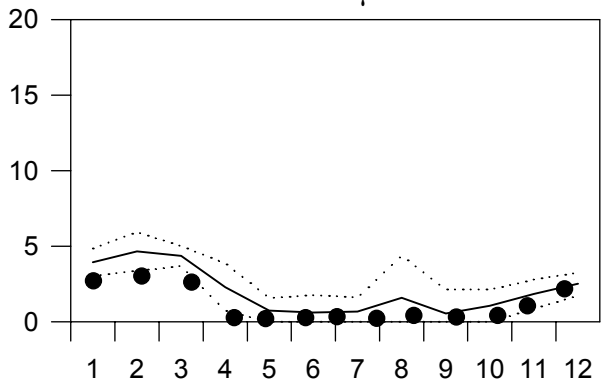
Salinity psu



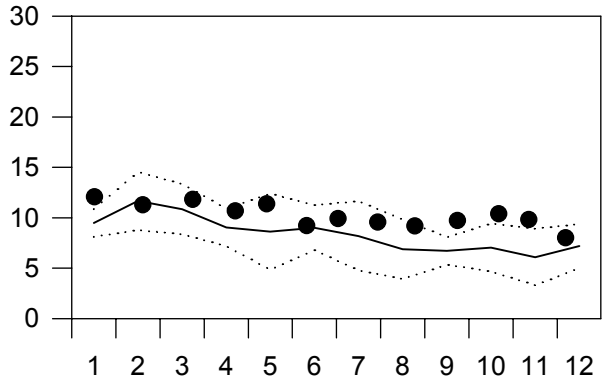
PO_4 µmol/l



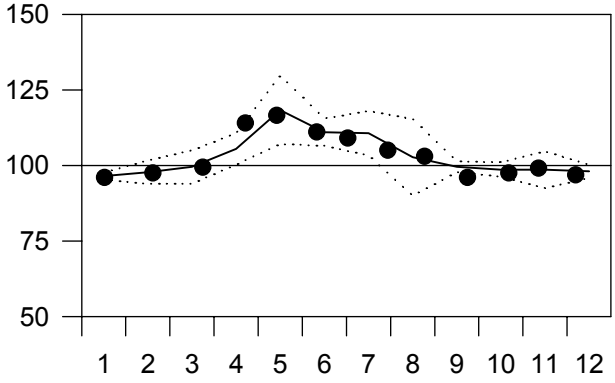
DIN µmol/l



SiO_3 µmol/l

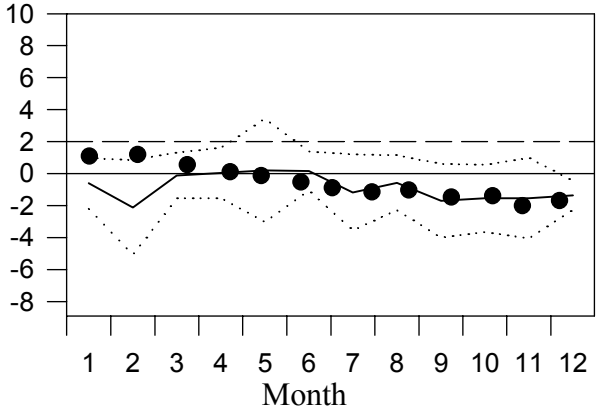


O_2 saturation %

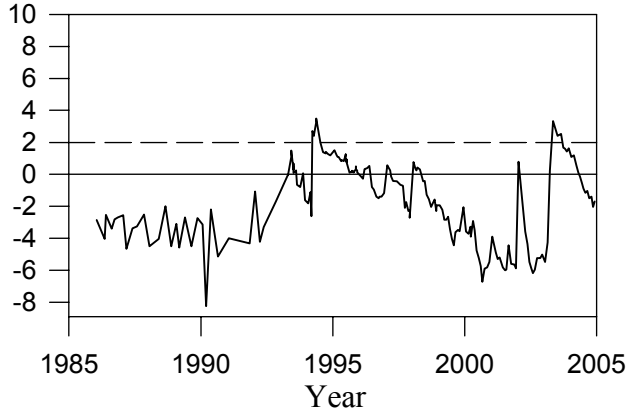


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

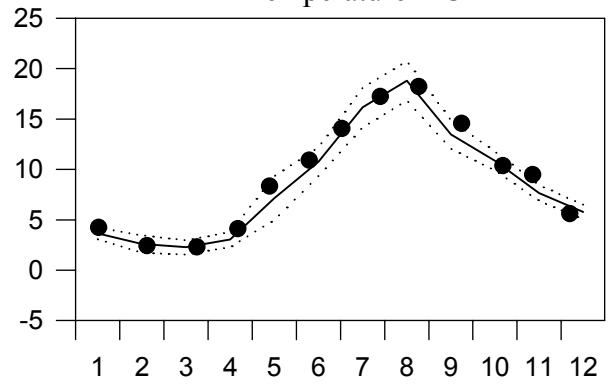


STATION BY10 SURFACE WATER

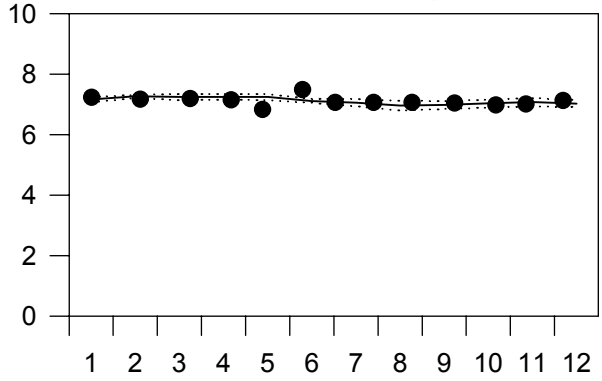
Annual Cycles

Mean 1990-1999 ····· St.Dev. ● 2004

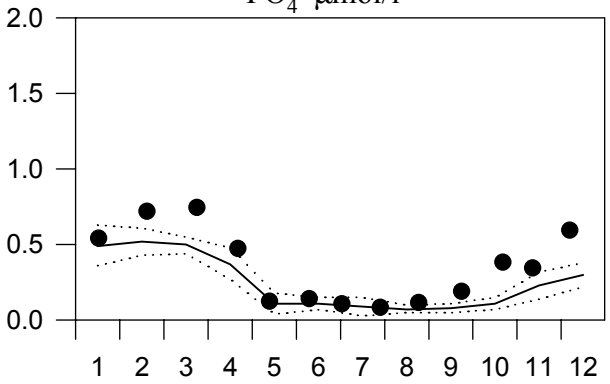
Temperature °C



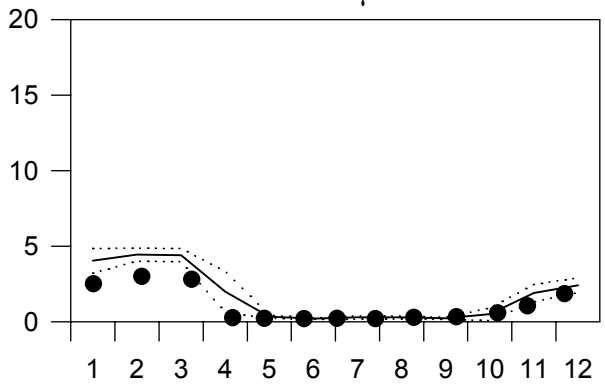
Salinity psu



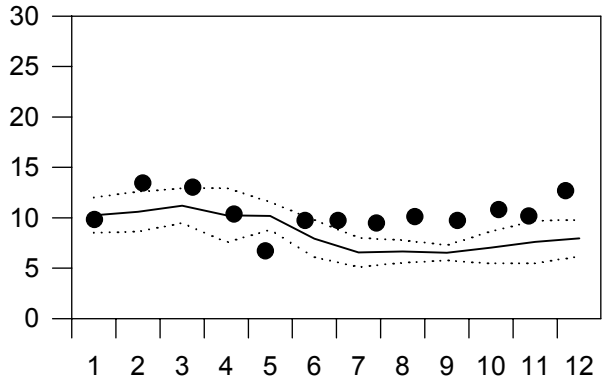
PO_4 µmol/l



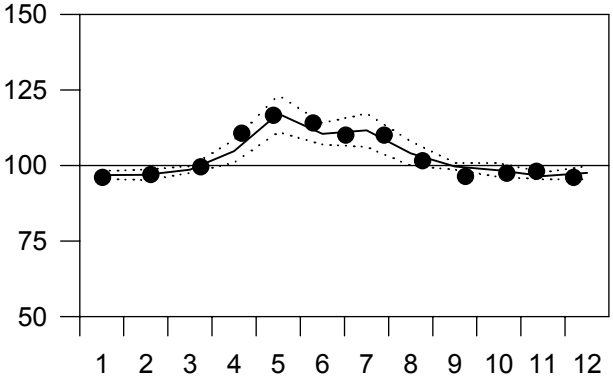
DIN µmol/l



SiO_3 µmol/l

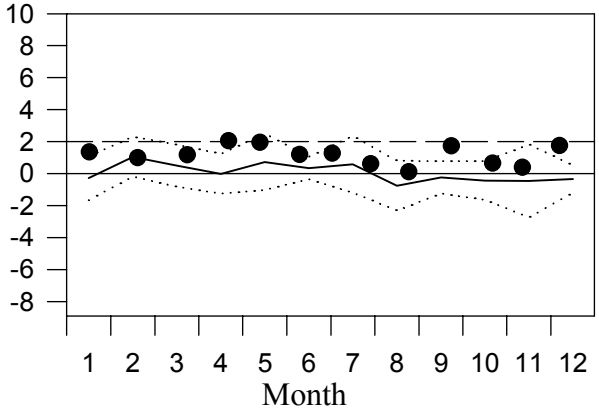


O_2 saturation %

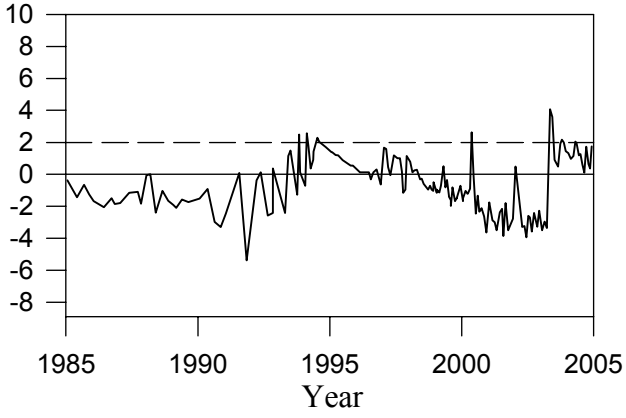


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

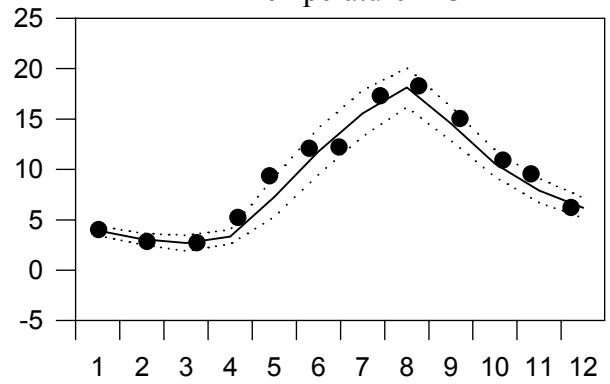


STATION BCS III-10 SURFACE WATER

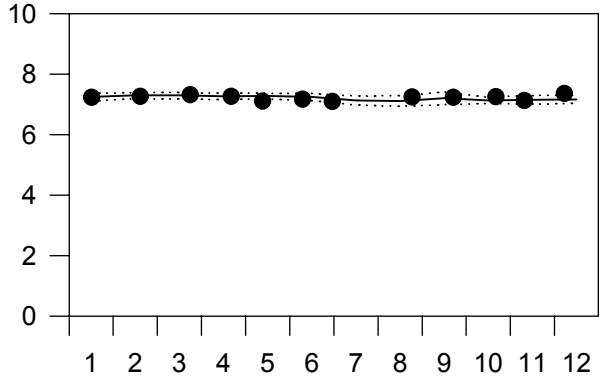
Annual Cycles

Mean 1990-1999 ····· St.Dev. ● 2004

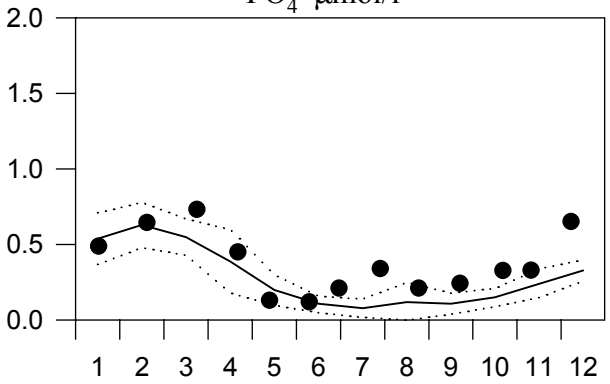
Temperature °C



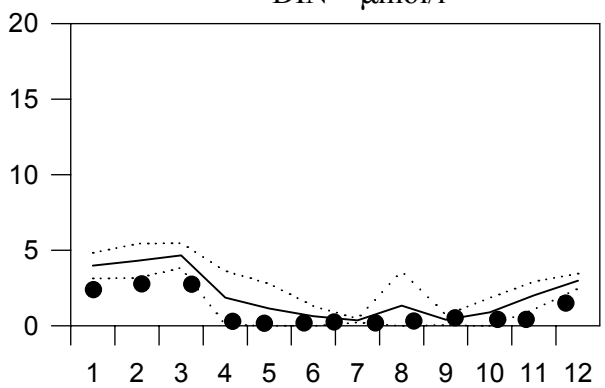
Salinity psu



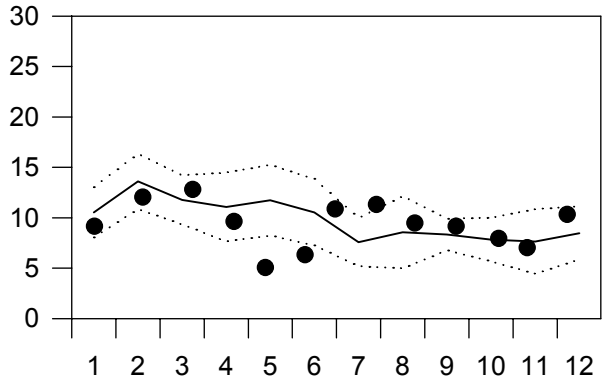
PO_4 µmol/l



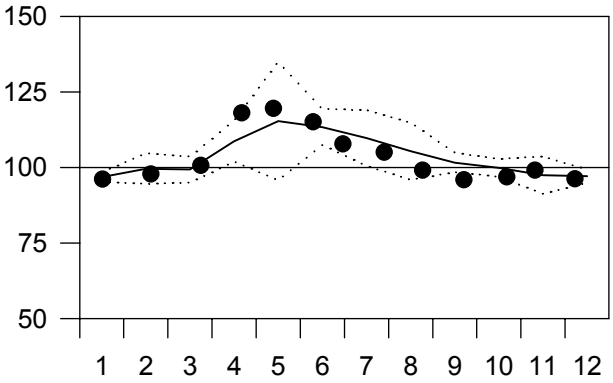
DIN µmol/l



SiO_3 µmol/l

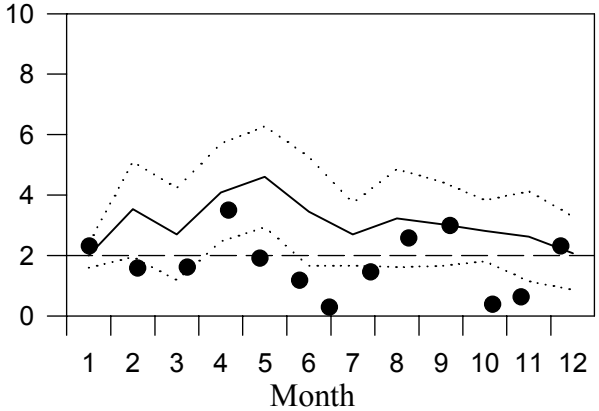


O_2 saturation %

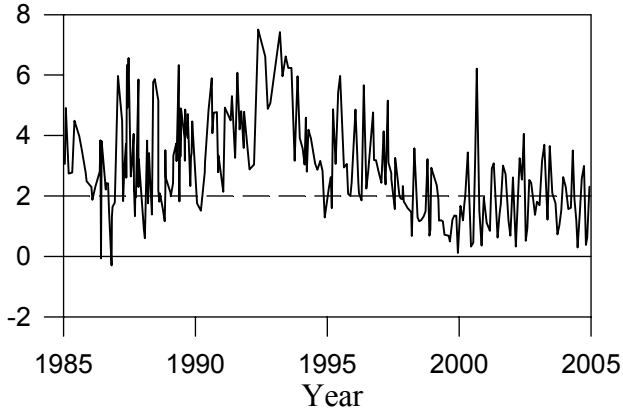


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

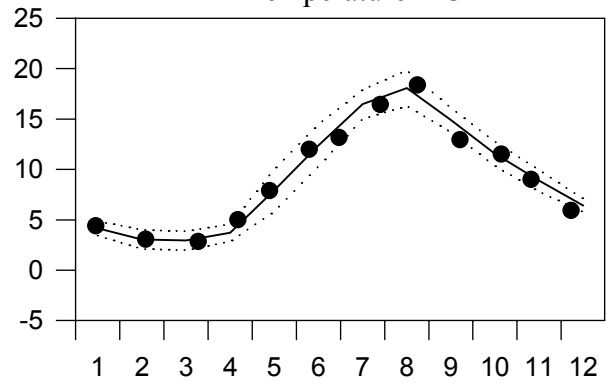


STATION BY5 SURFACE WATER

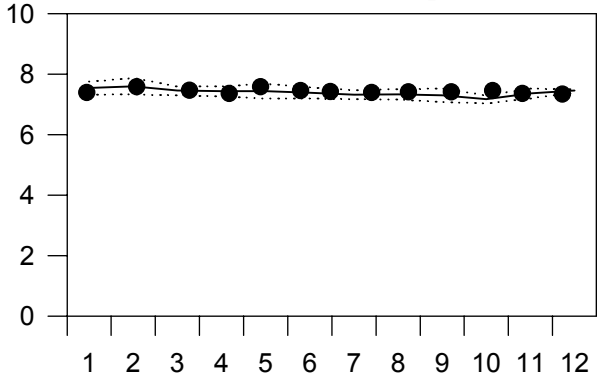
Annual Cycles

Mean 1990-1999 ····· St.Dev. ● 2004

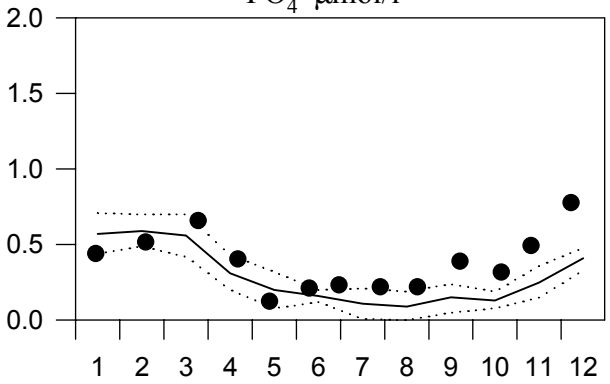
Temperature °C



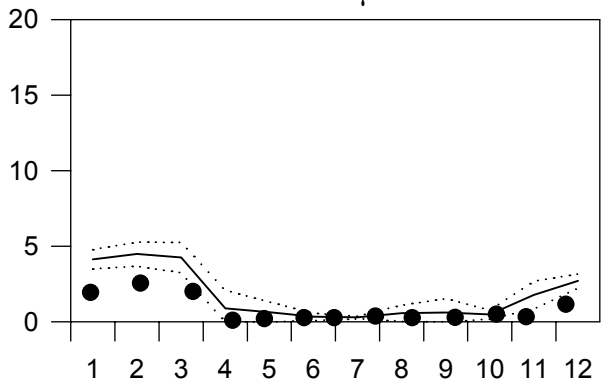
Salinity psu



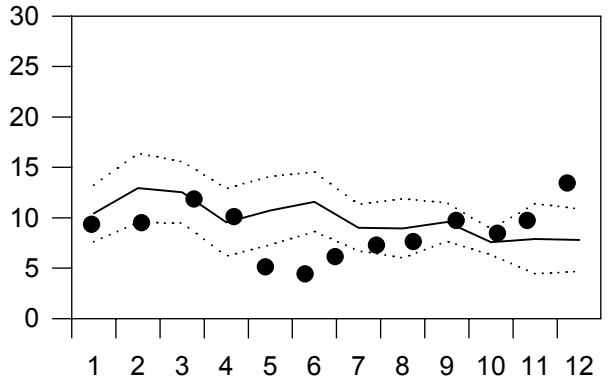
PO_4 µmol/l



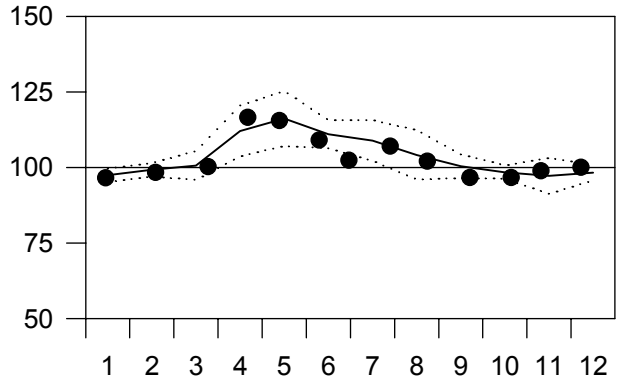
DIN µmol/l



SiO_3 µmol/l

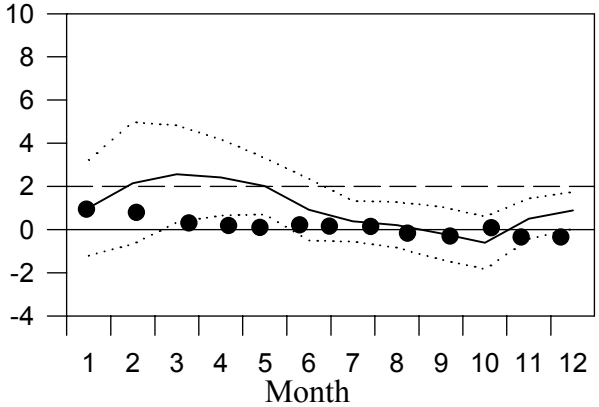


O_2 saturation %

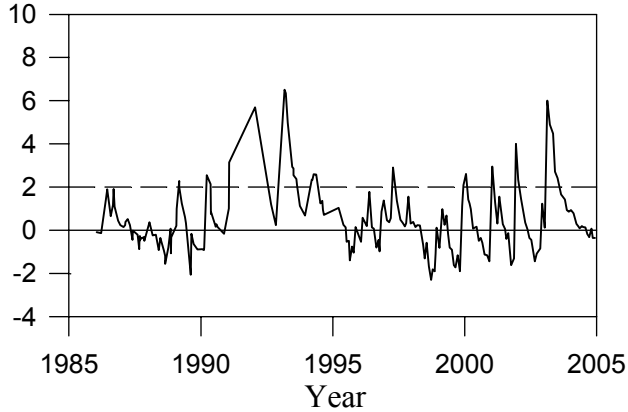


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

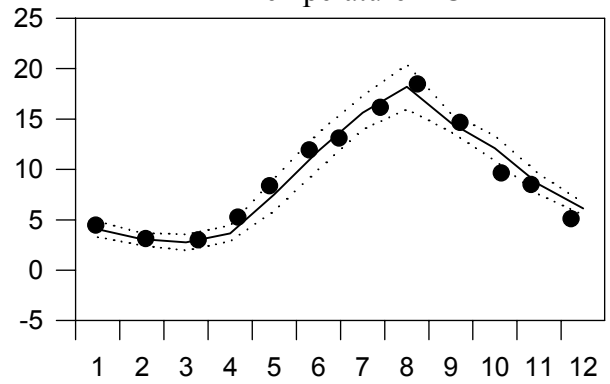


STATION BY4 SURFACE WATER

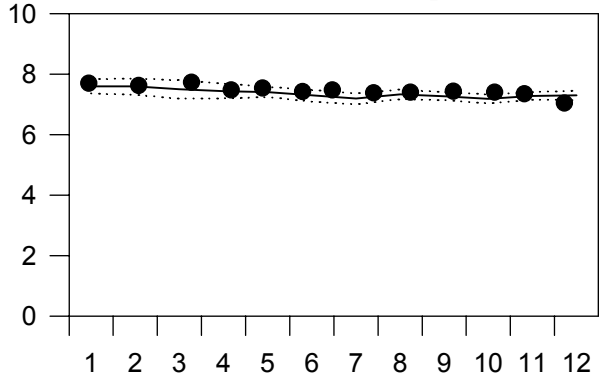
Annual Cycles

Mean 1990-1999 ····· St.Dev. ● 2004

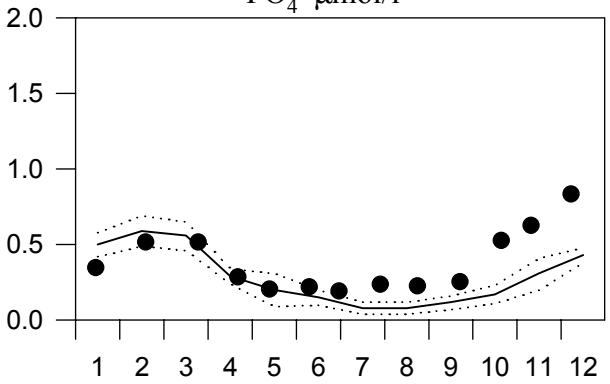
Temperature °C



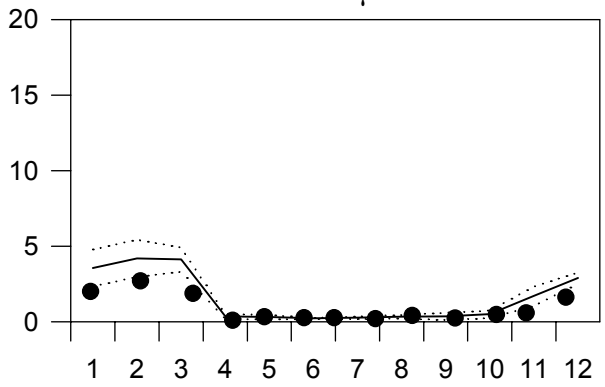
Salinity psu



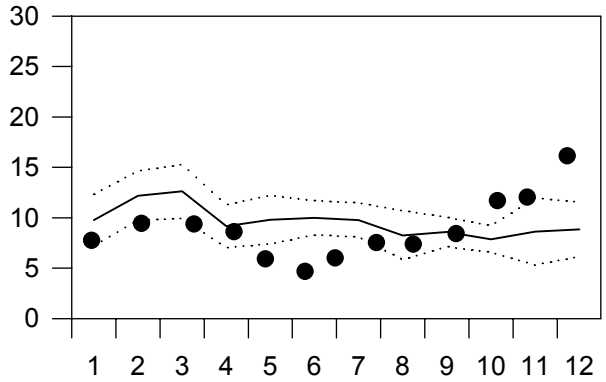
PO_4 µmol/l



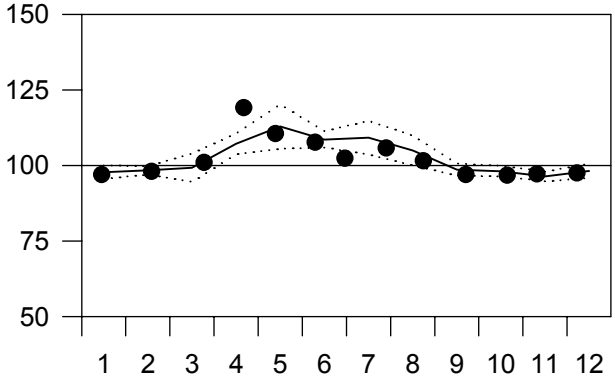
DIN µmol/l



SiO_3 µmol/l

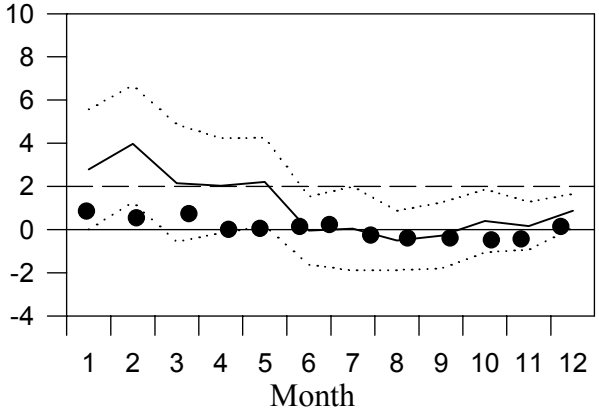


O_2 saturation %

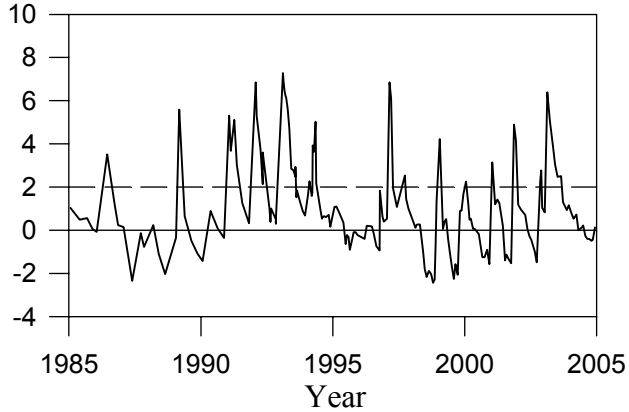


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

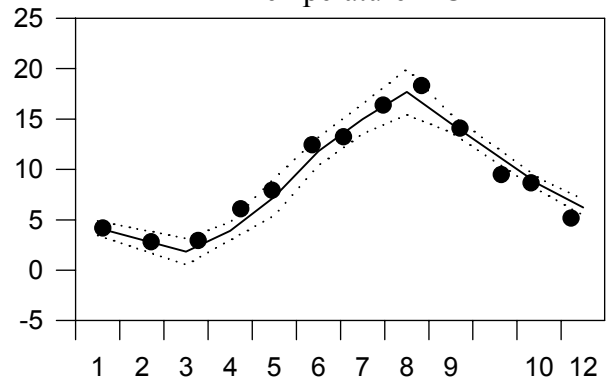


STATION HANÖBUKTEN SURFACE WATER

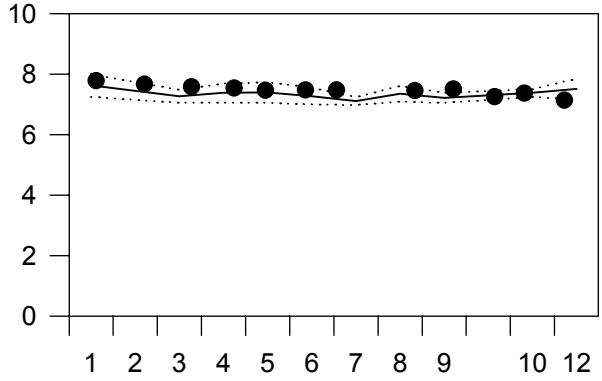
Annual Cycles

Mean 1990-1999 ····· St.Dev. ● 2004

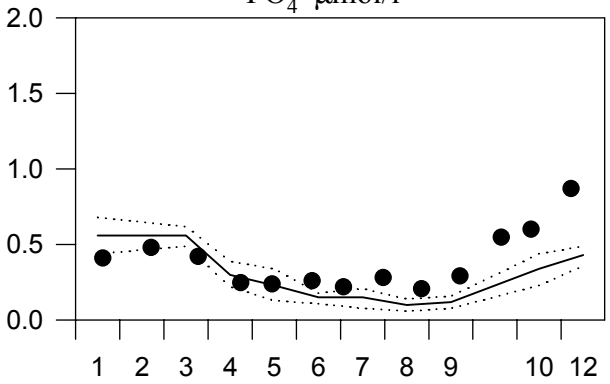
Temperature °C



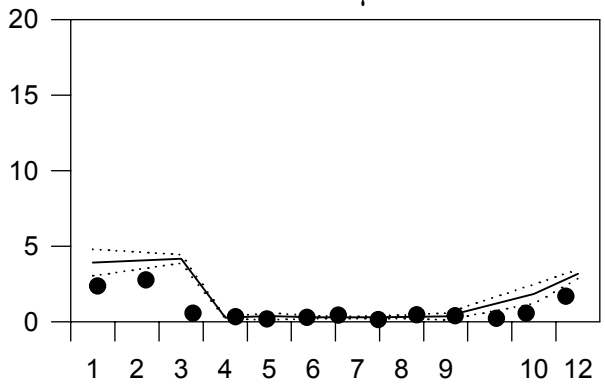
Salinity psu



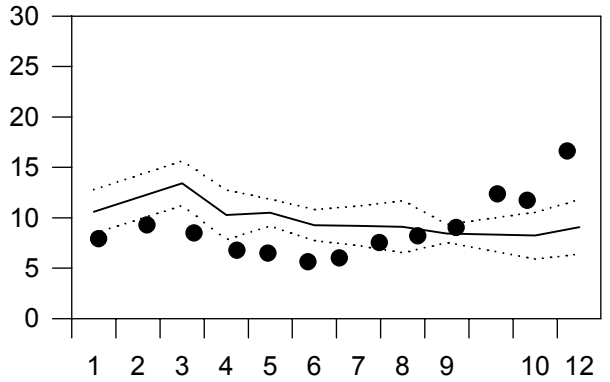
PO_4 µmol/l



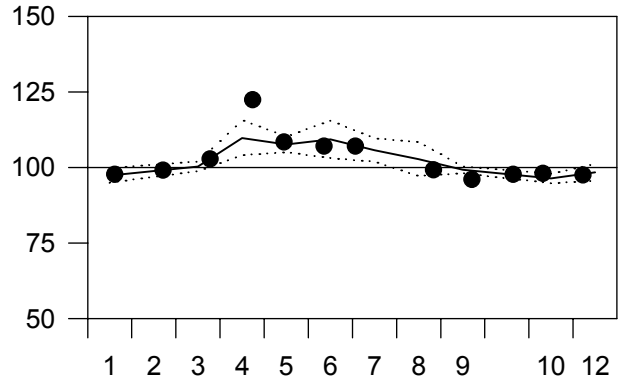
DIN µmol/l



SiO_3 µmol/l

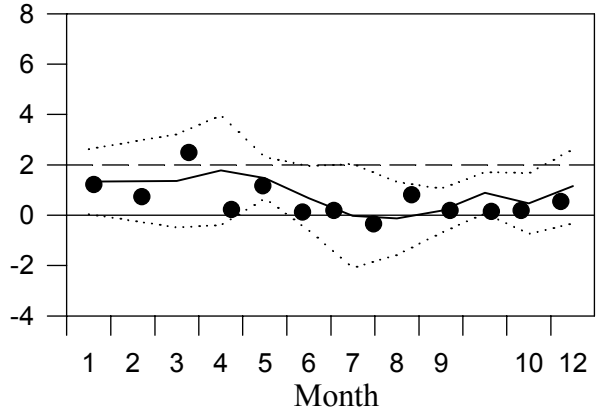


O_2 saturation %

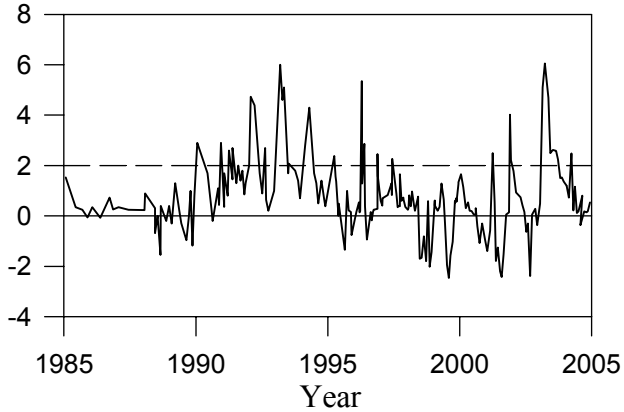


OXYGEN IN BOTTOM WATER

O_2 ml/l



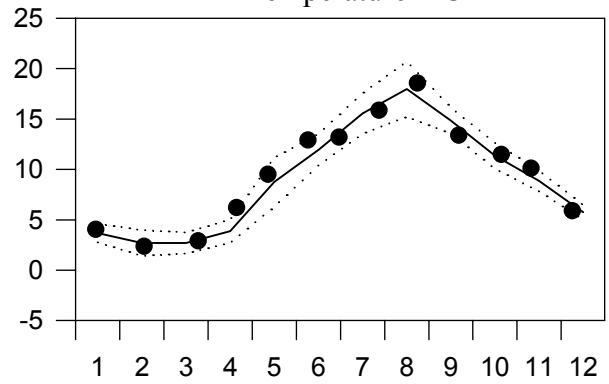
O_2 ml/l



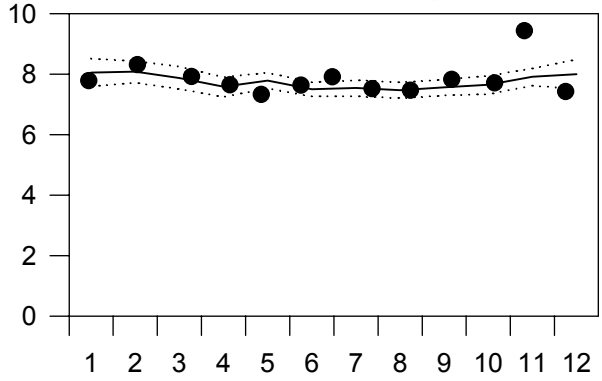
STATION BY2 SURFACE WATER

Annual Cycles

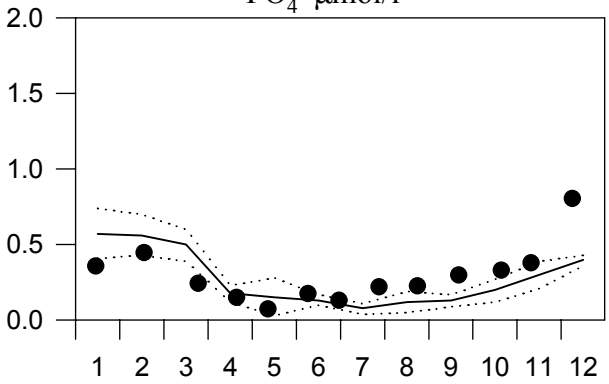
Temperature °C



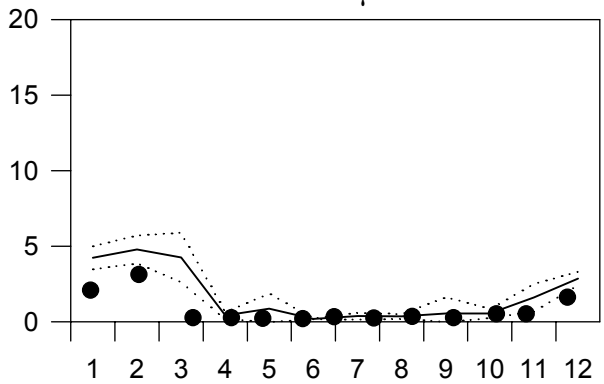
Salinity psu



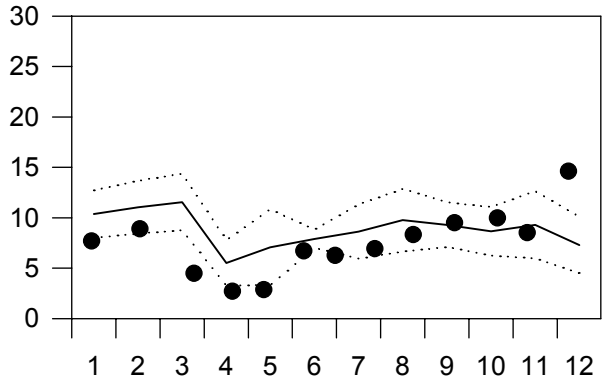
PO_4 µmol/l



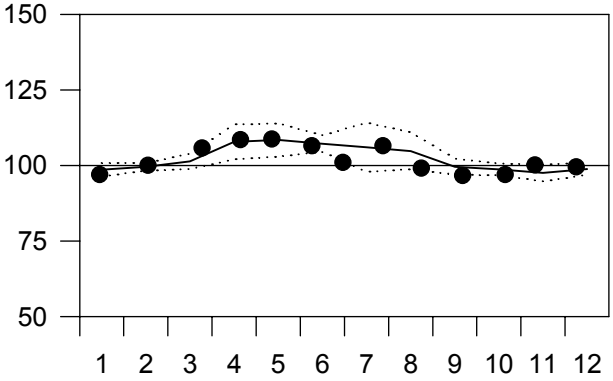
DIN µmol/l



SiO_3 µmol/l

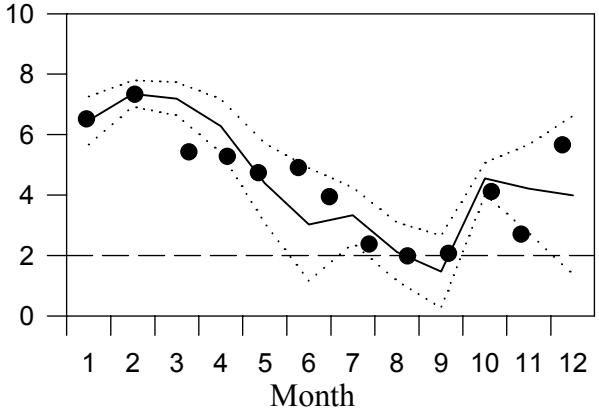


O_2 saturation %

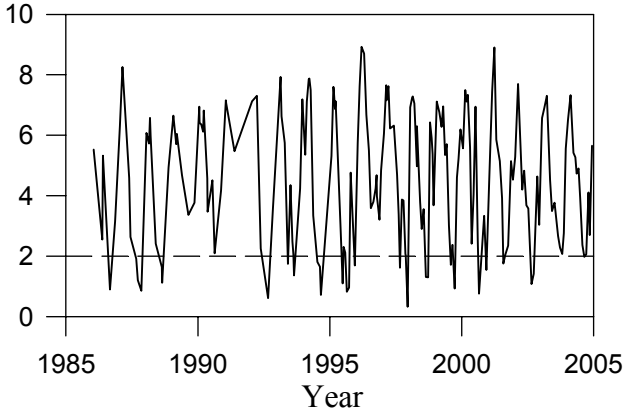


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

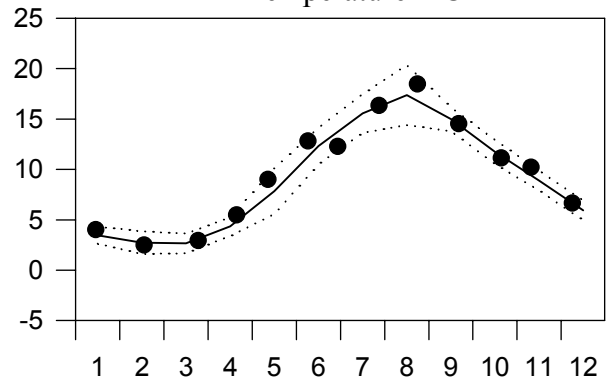


STATION BY1 SURFACE WATER

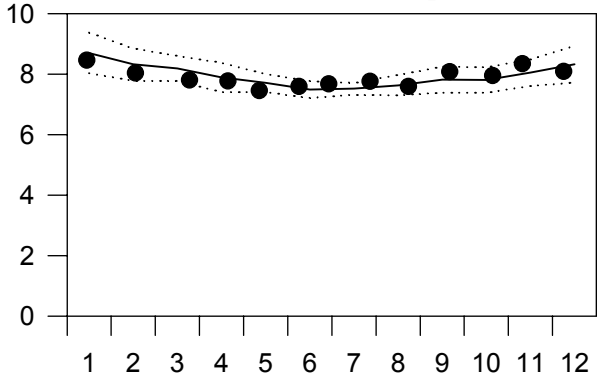
Annual Cycles

Mean 1990-1999 ····· St.Dev. ● 2004

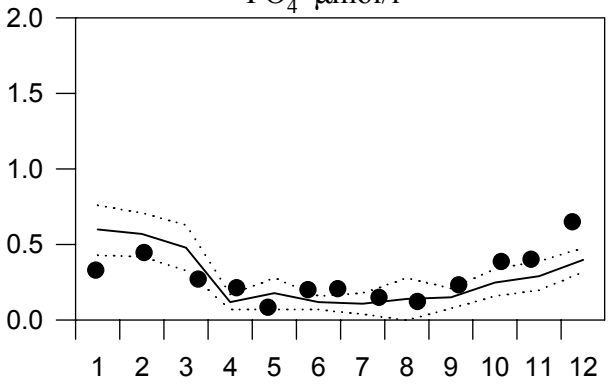
Temperature °C



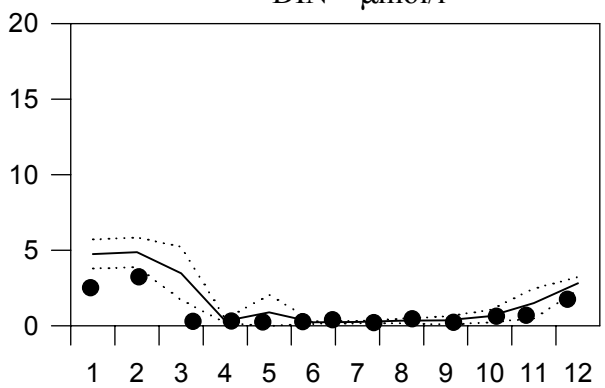
Salinity psu



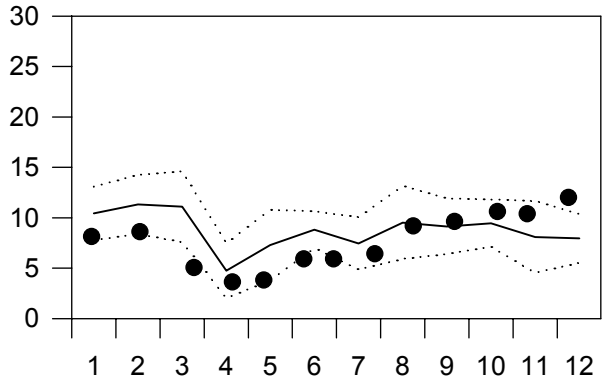
PO_4 µmol/l



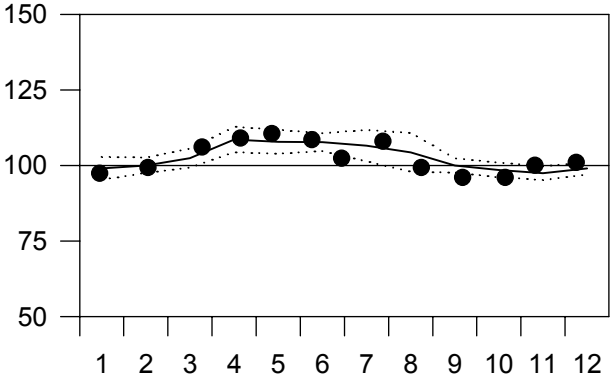
DIN µmol/l



SiO_3 µmol/l

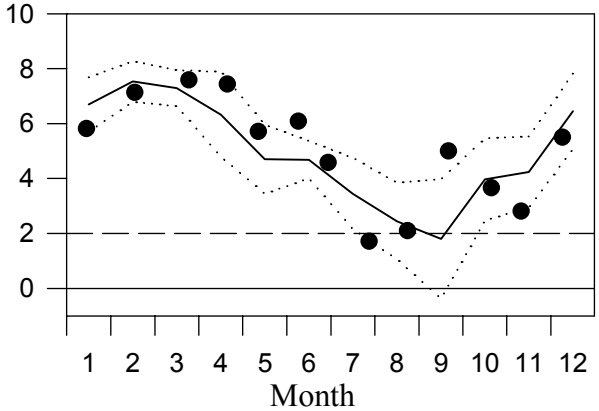


O_2 saturation %

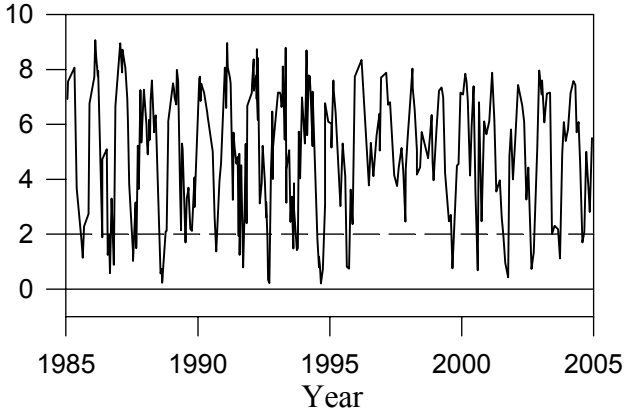


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

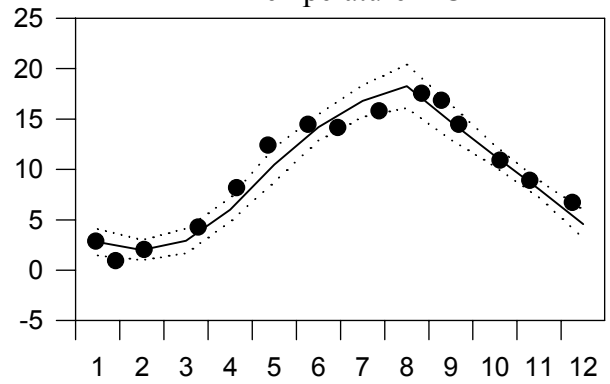


STATION W LANDSKRONA SURFACE WATER

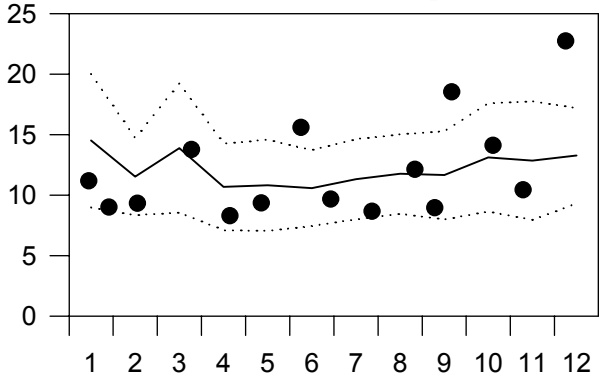
Annual Cycles

Mean 1990-1999 ····· St.Dev. ● 2004

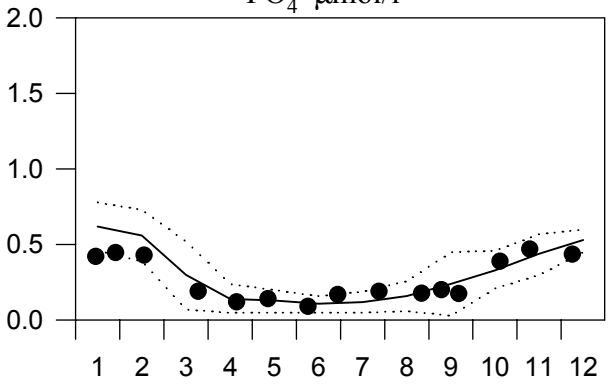
Temperature °C



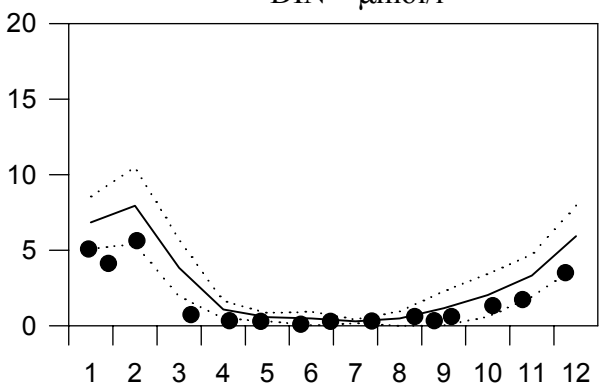
Salinity psu



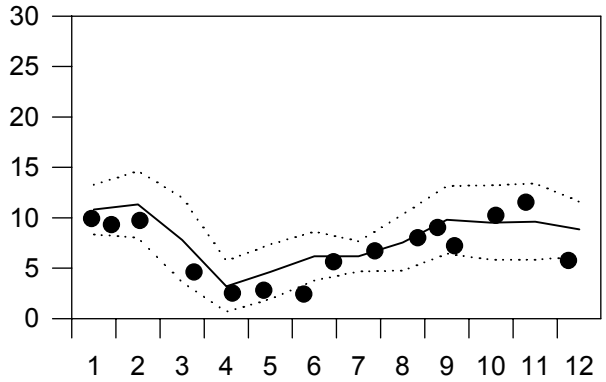
PO_4 µmol/l



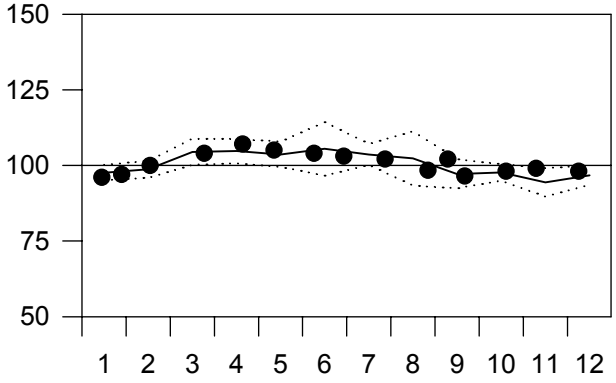
DIN µmol/l



SiO_3 µmol/l

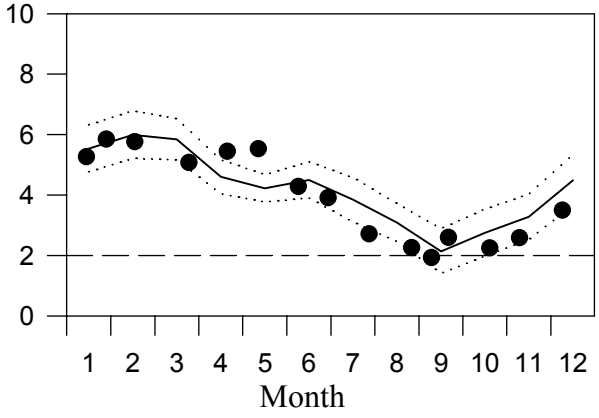


O_2 saturation %

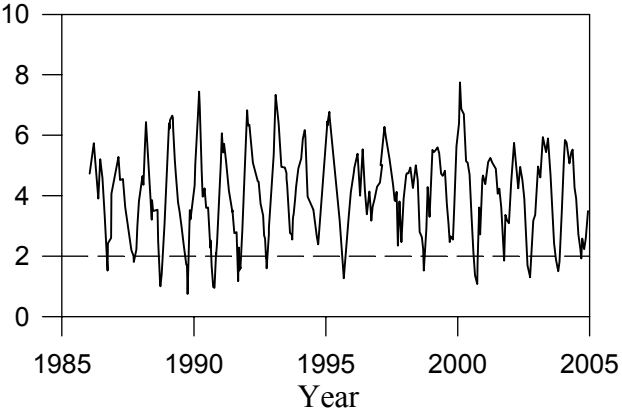


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

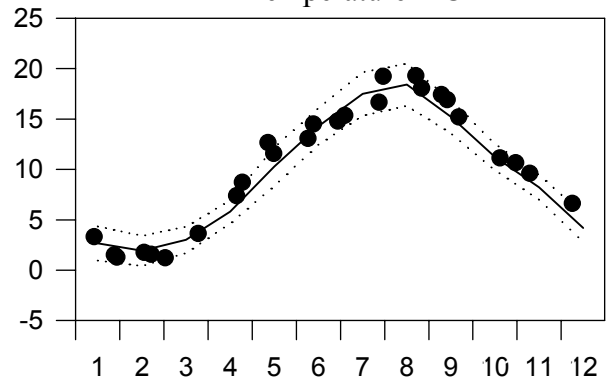


STATION ANHOLT E SURFACE WATER

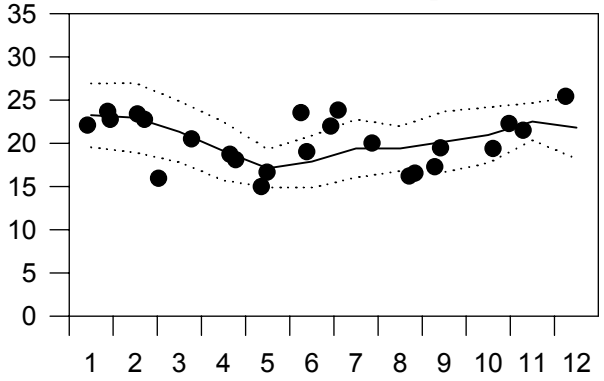
Annual Cycles

Mean 1990-1999 ····· St.Dev. ● 2004

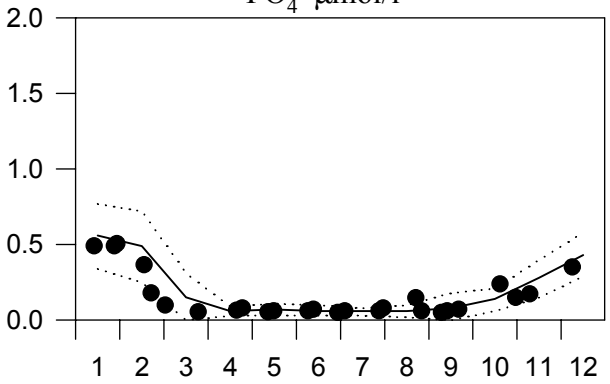
Temperature °C



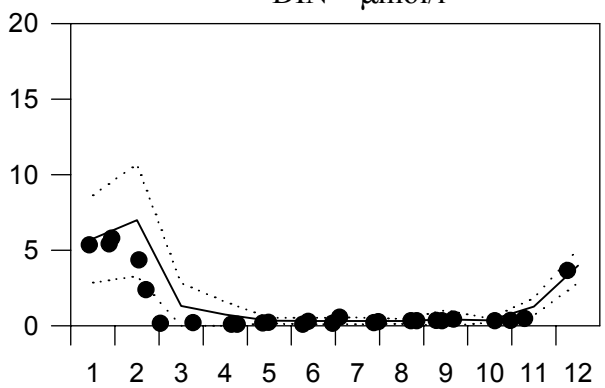
Salinity psu



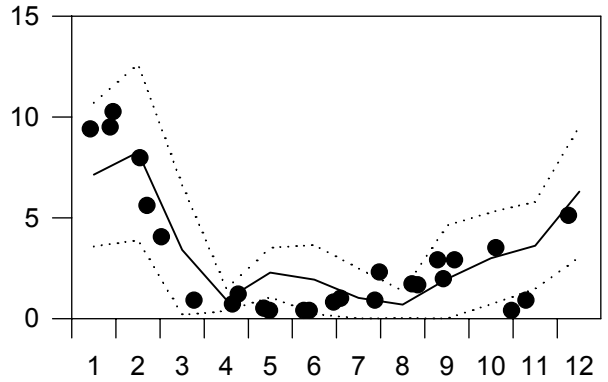
PO_4 µmol/l



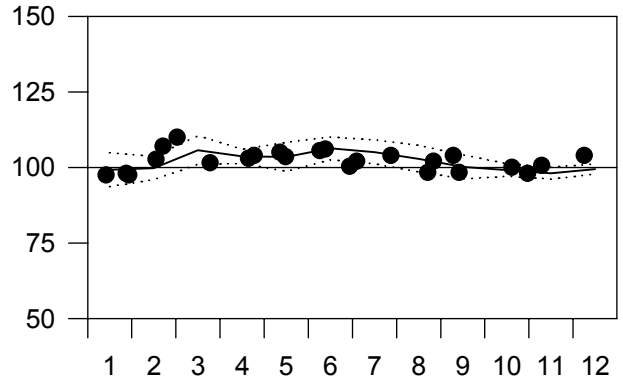
DIN µmol/l



SiO_3 µmol/l

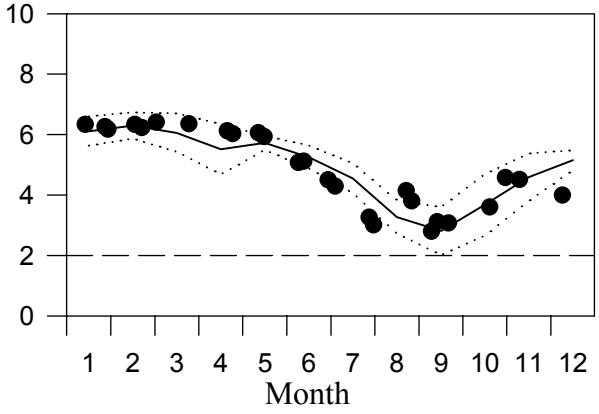


O_2 saturation %

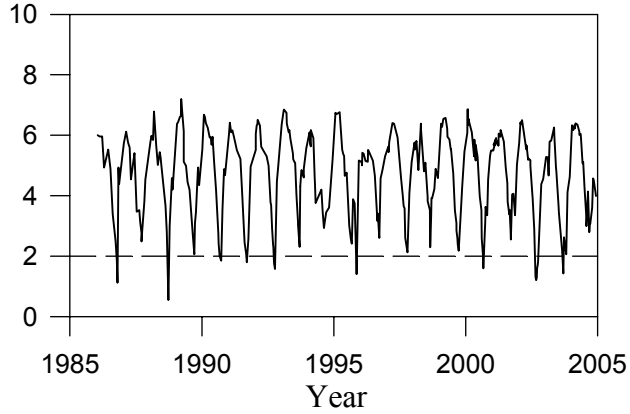


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

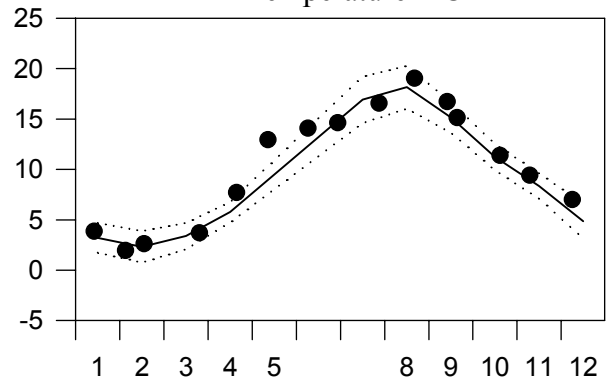


STATION FLADEN SURFACE WATER

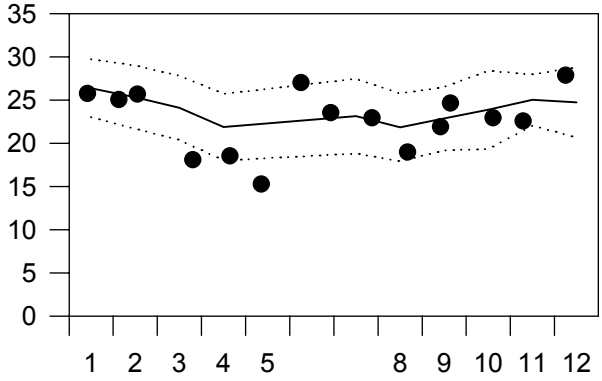
Annual Cycles

Mean 1990-1999 ····· St.Dev. ● 2004

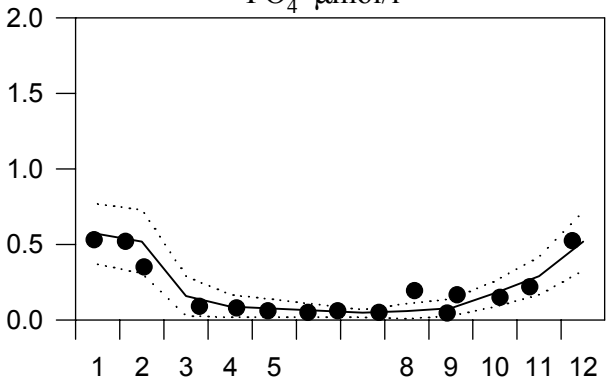
Temperature °C



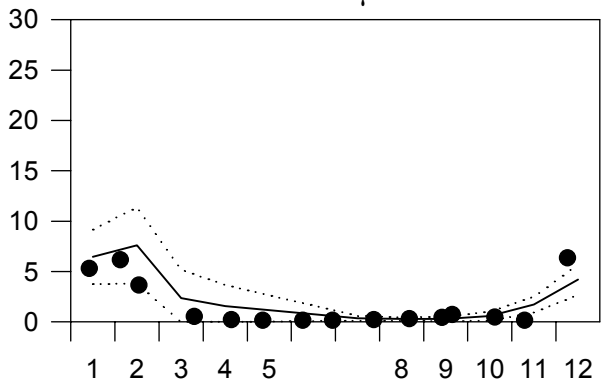
Salinity psu



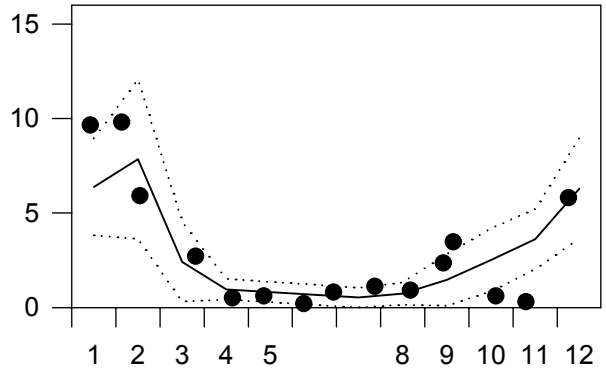
PO_4 µmol/l



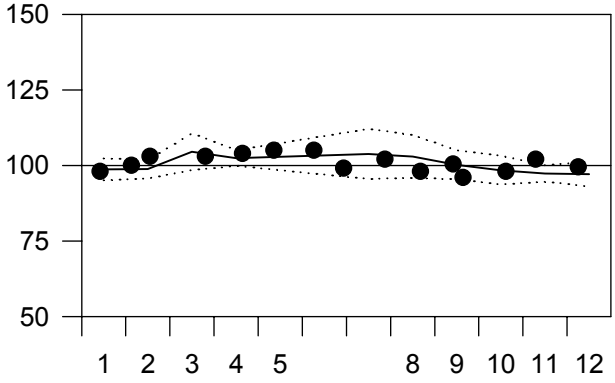
DIN µmol/l



SiO_3 µmol/l

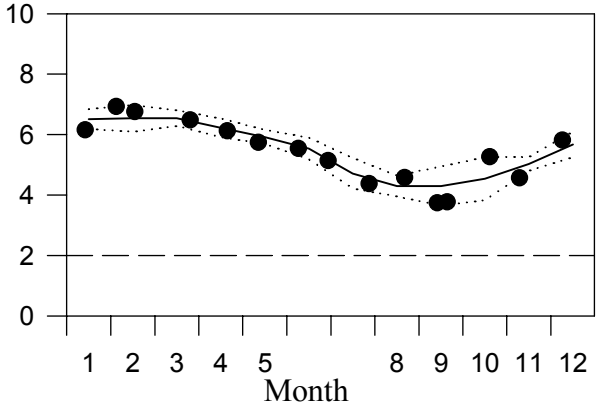


O_2 saturation %

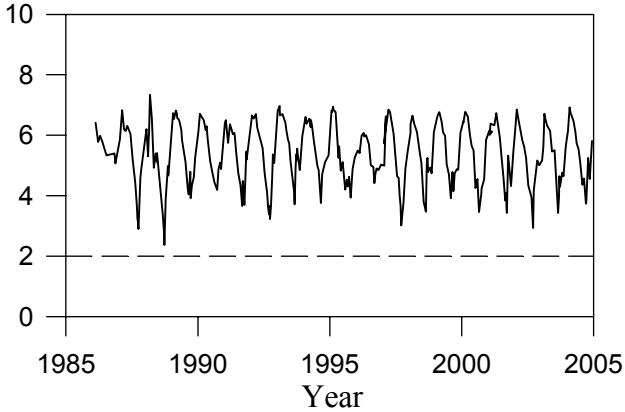


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

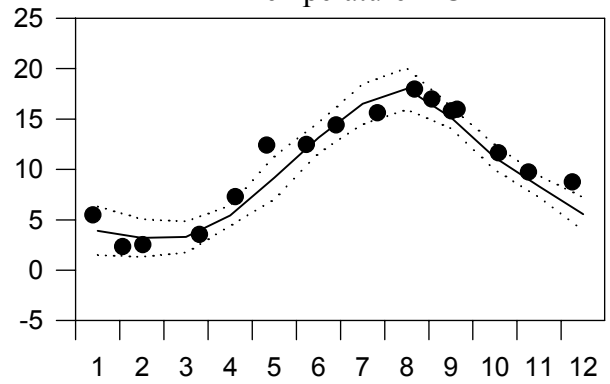


STATION P2 SURFACE WATER

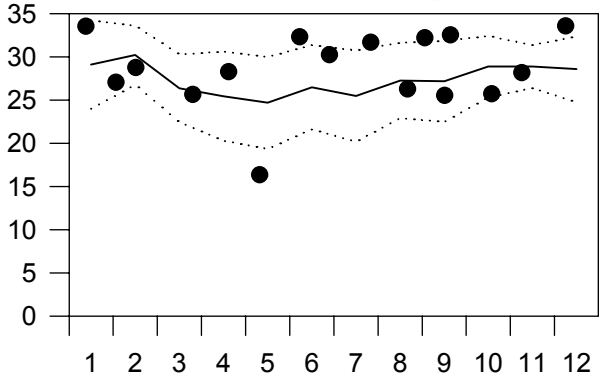
Annual Cycles

Mean 1990-1999 ····· St.Dev. ● 2004

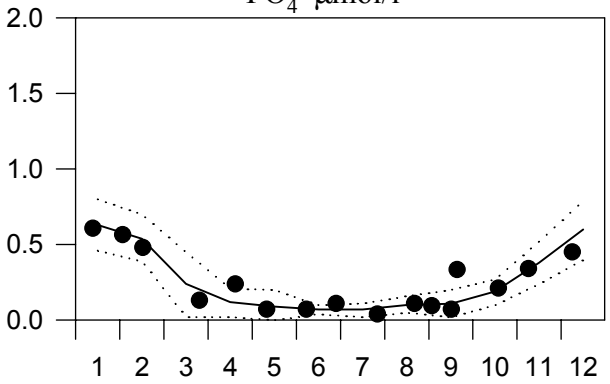
Temperature °C



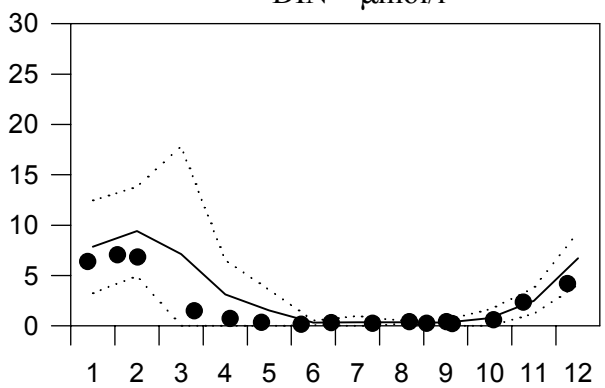
Salinity psu



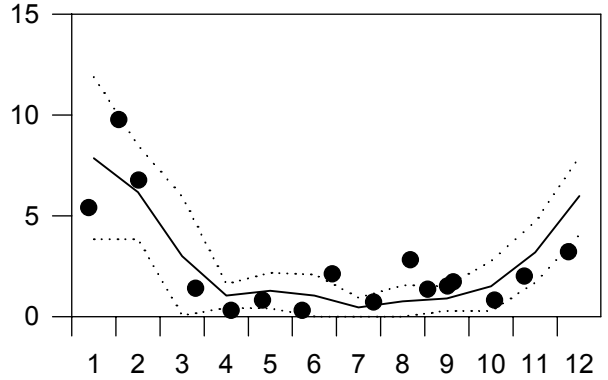
PO_4 µmol/l



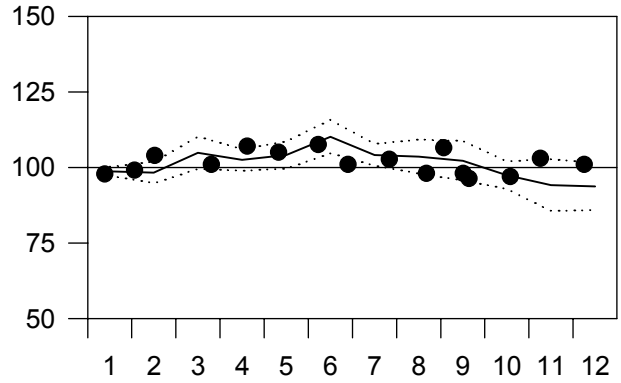
DIN µmol/l



SiO_3 µmol/l

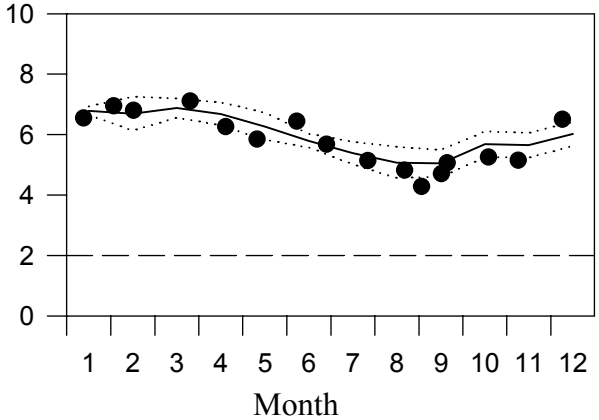


O_2 saturation %

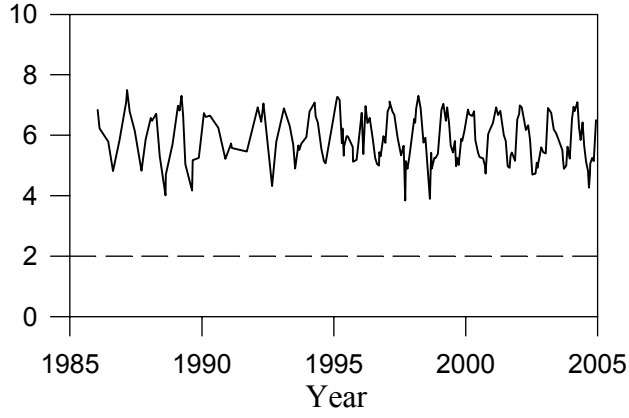


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

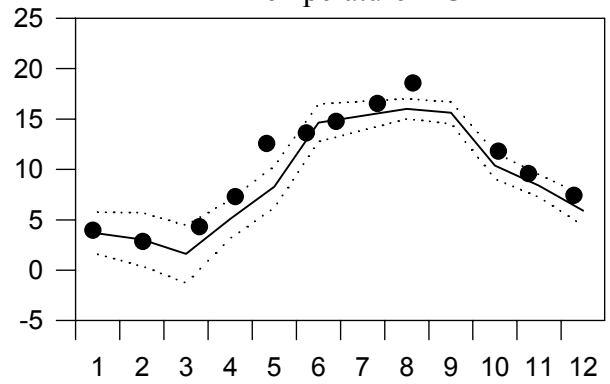


STATION Å13 SURFACE WATER

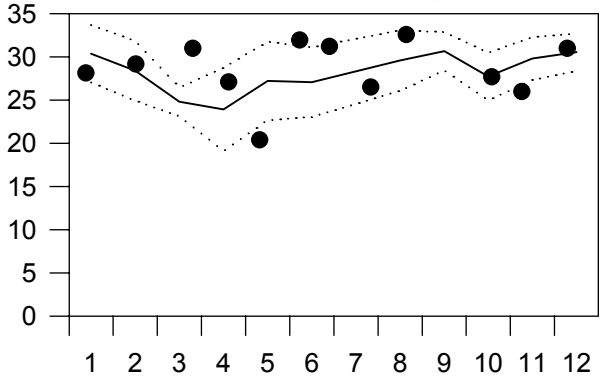
Annual Cycles

Mean 1980-1999 ····· St.Dev. ● 2004

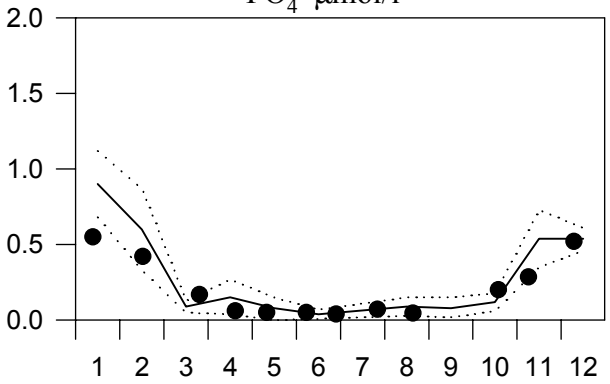
Temperature °C



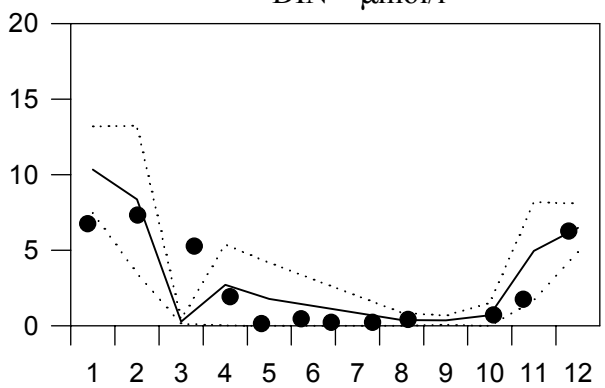
Salinity psu



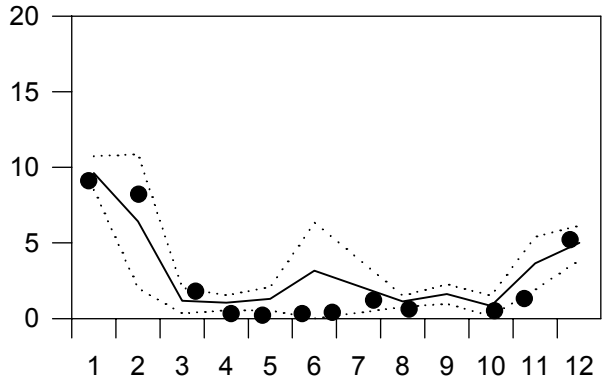
PO_4 µmol/l



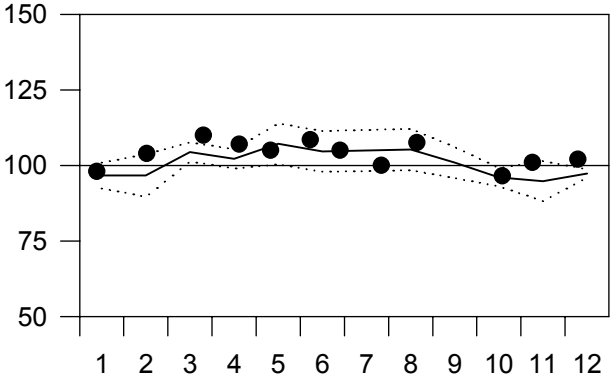
DIN µmol/l



SiO_3 µmol/l

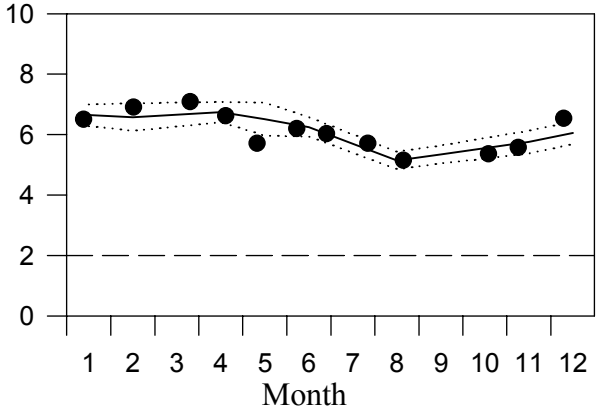


O_2 saturation %

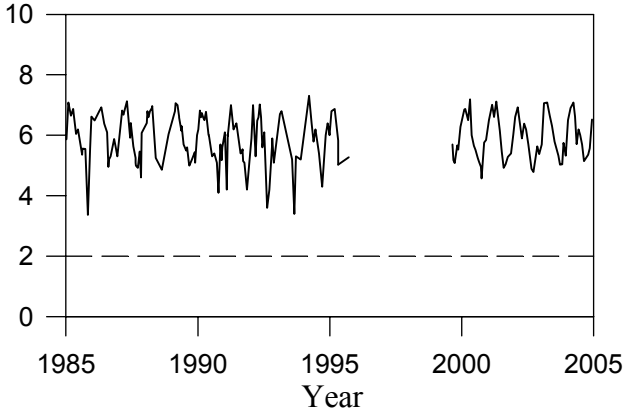


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

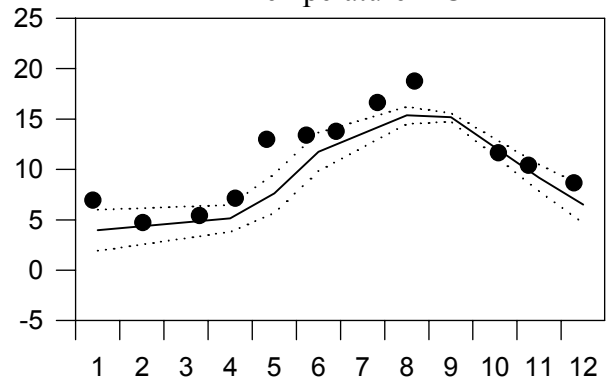


STATION Å17 SURFACE WATER

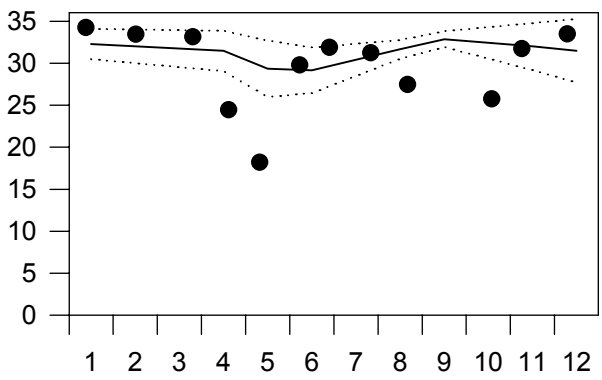
Annual Cycles

Mean 1980-1999 ····· St.Dev. ● 2004

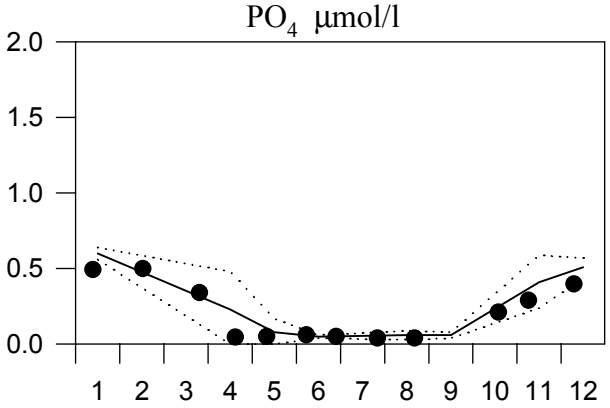
Temperature °C



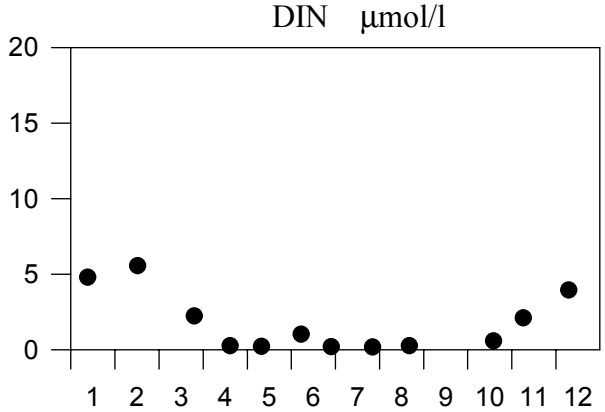
Salinity psu



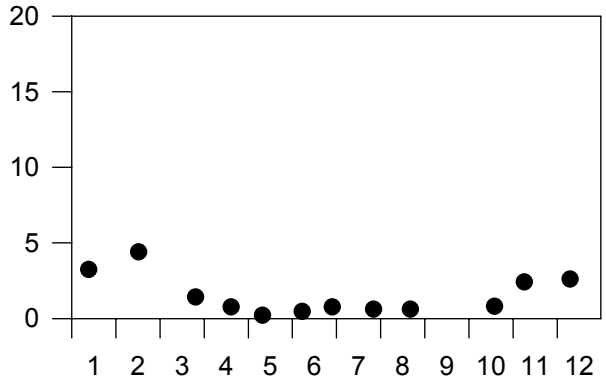
PO_4 µmol/l



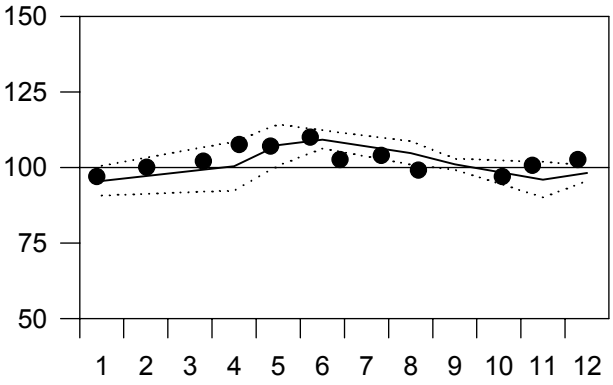
DIN µmol/l



SiO_3 µmol/l

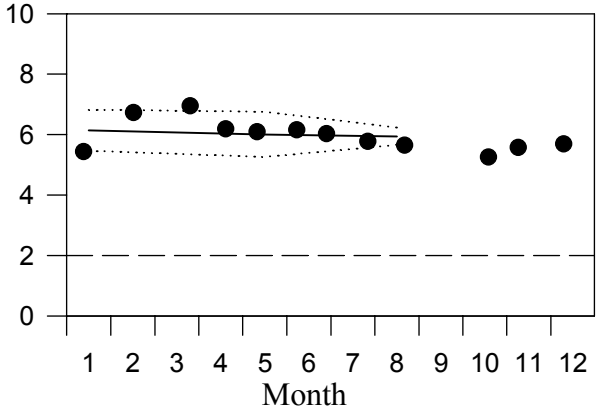


O_2 saturation %

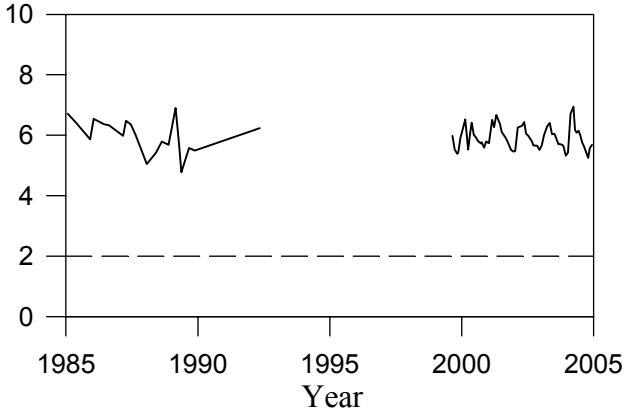


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

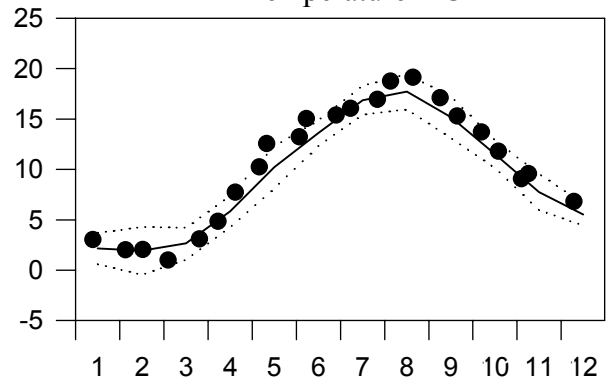


STATION SLÄGGÖ SURFACE WATER

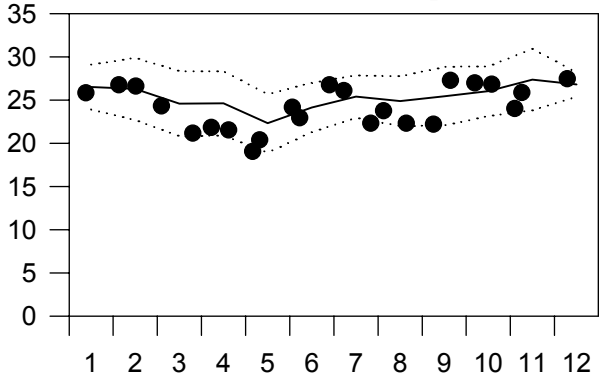
Annual Cycles

Mean 1990-1999 ····· St.Dev. ● 2004

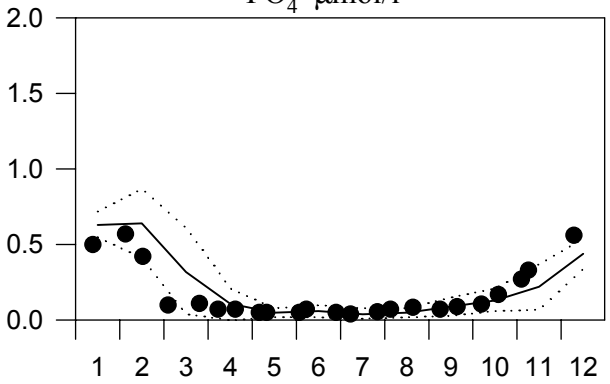
Temperature °C



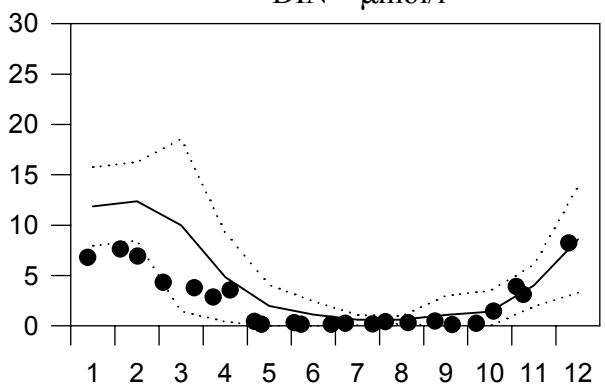
Salinity psu



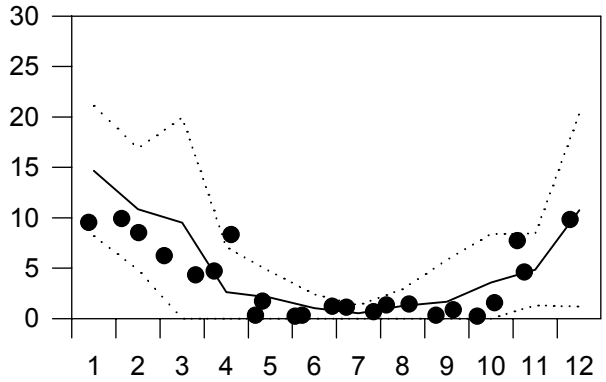
PO_4 µmol/l



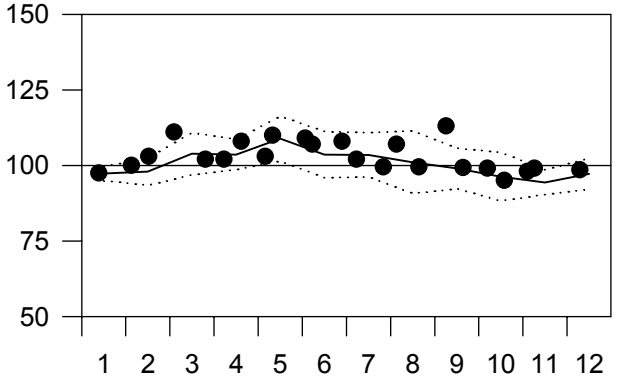
DIN µmol/l



SiO_3 µmol/l

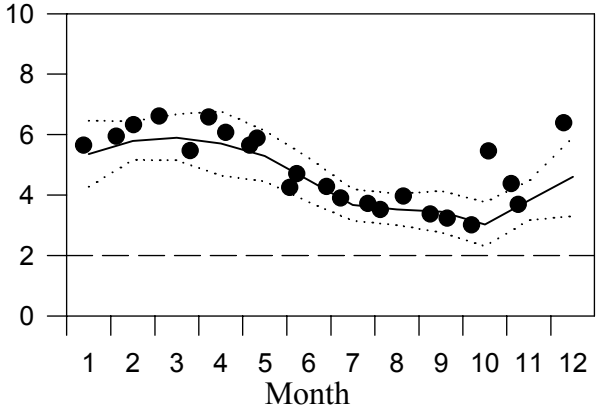


O_2 saturation %

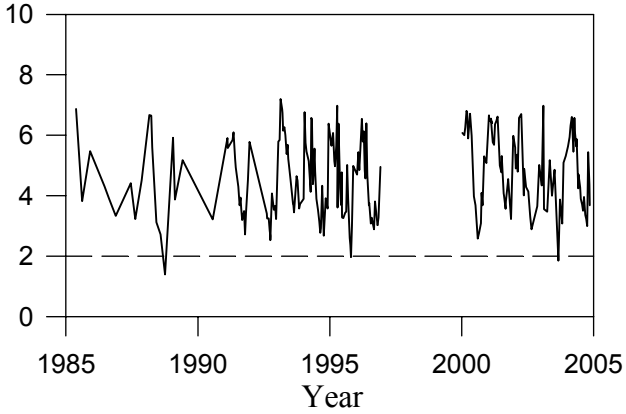


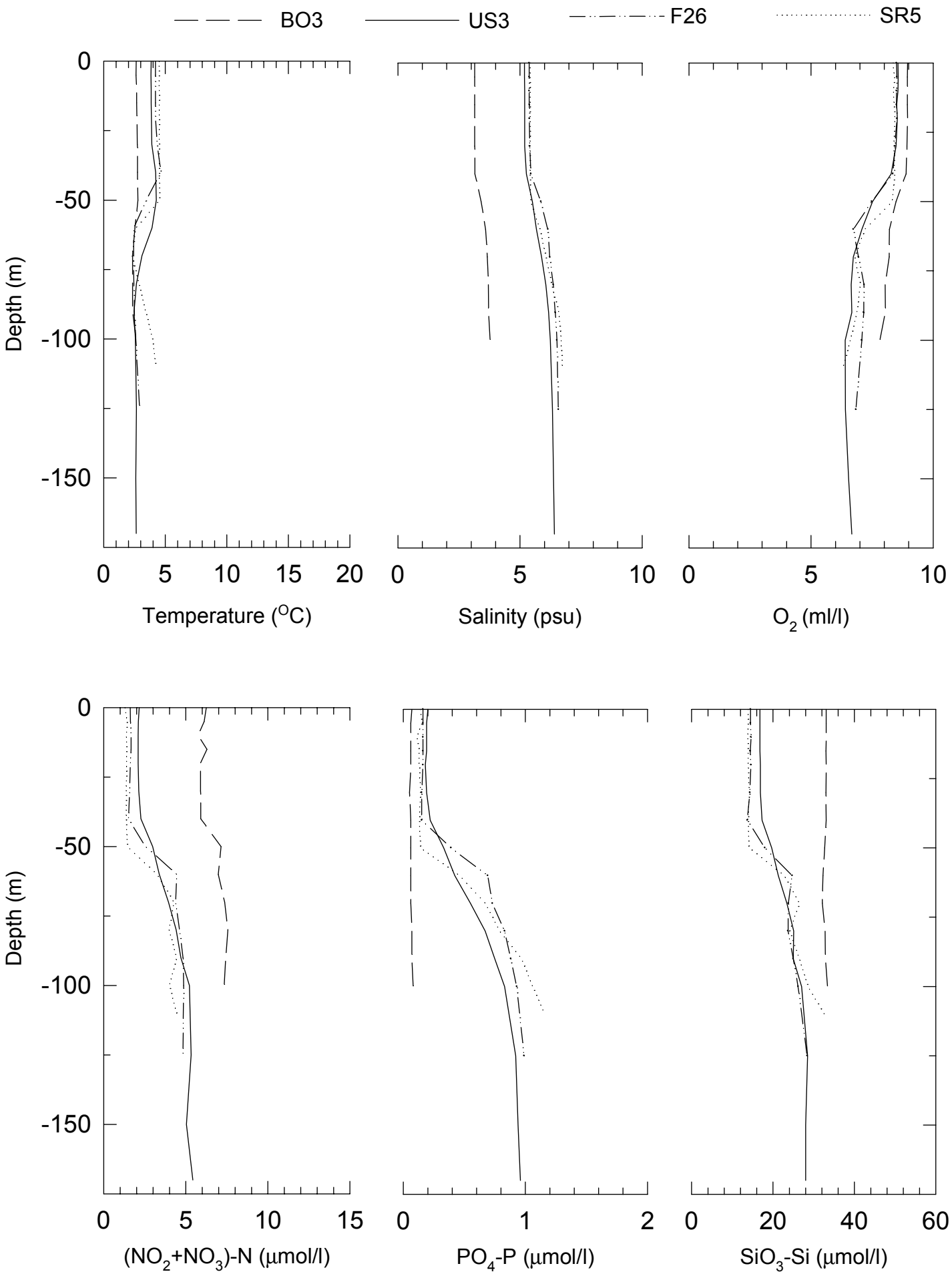
OXYGEN IN BOTTOM WATER

O_2 ml/l

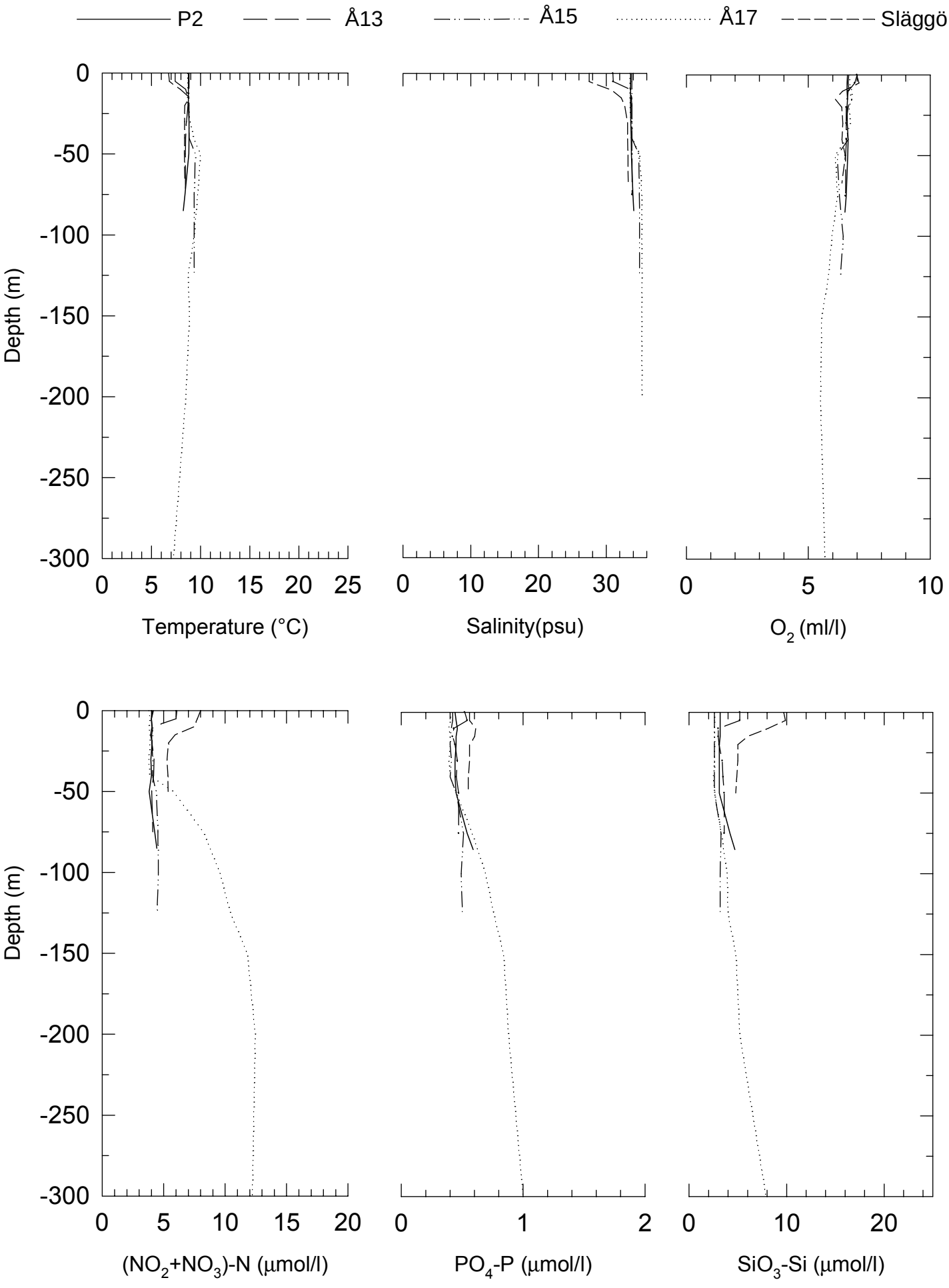


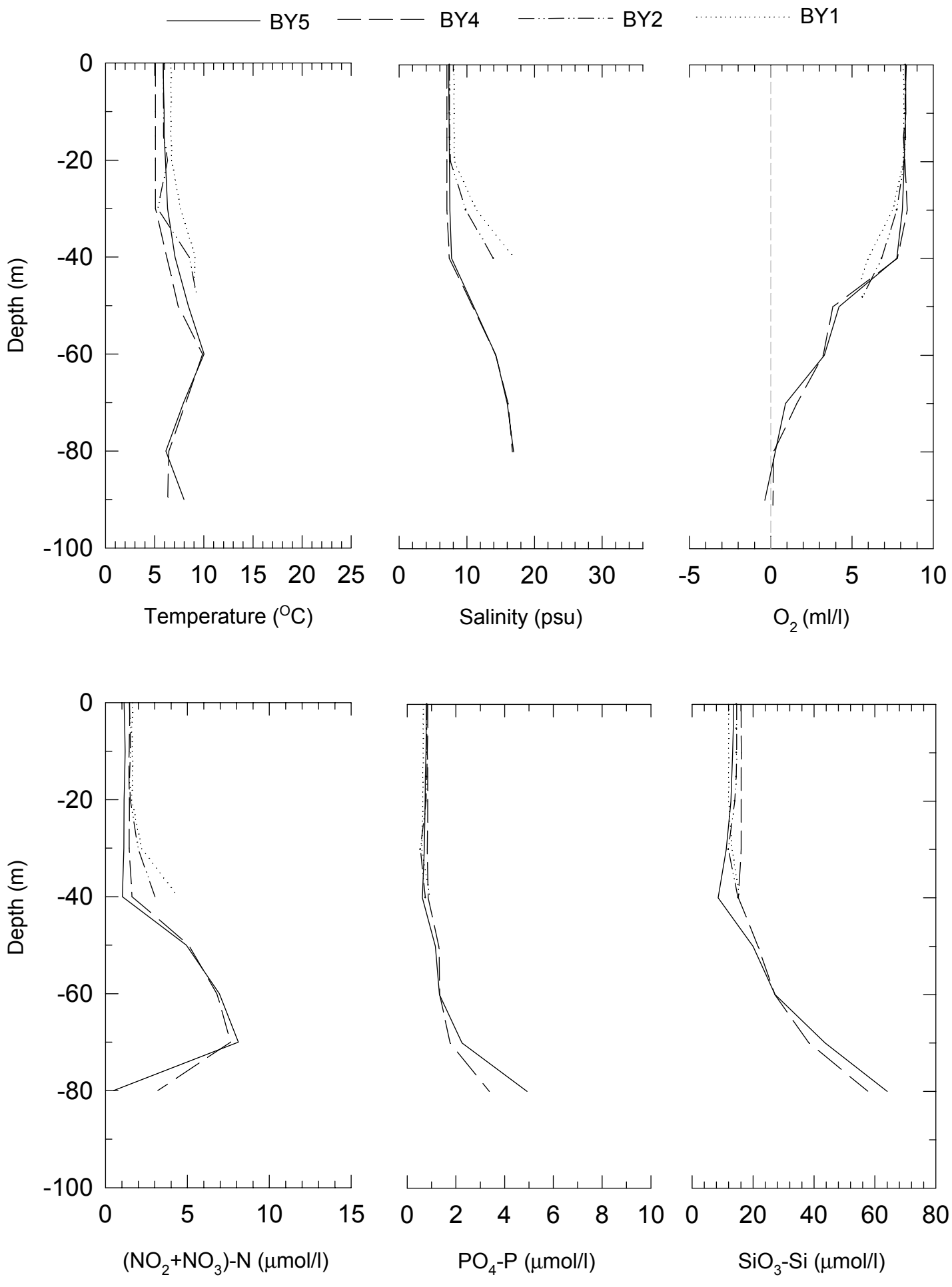
O_2 ml/l



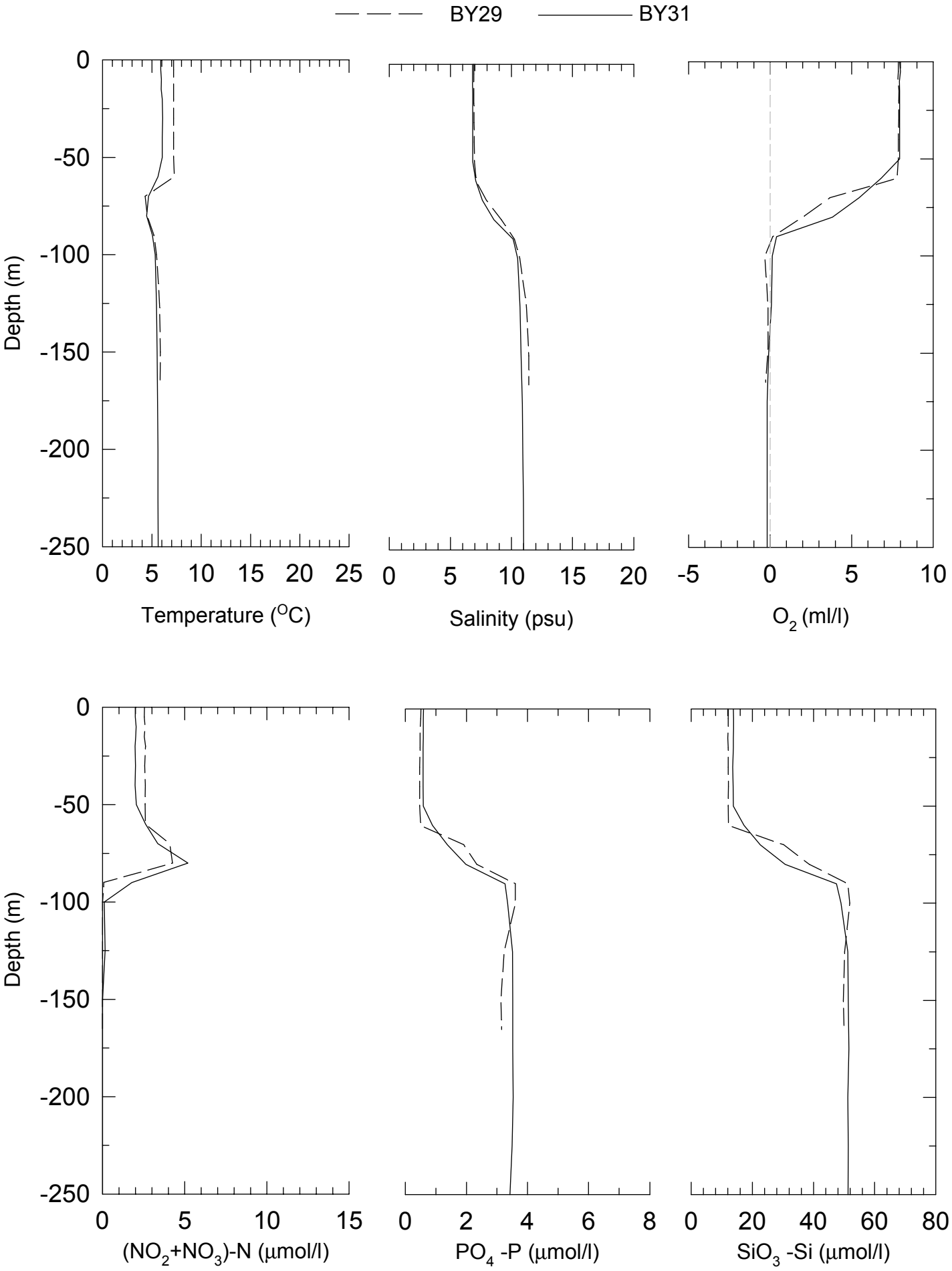

GULF OF BOTHNIA 041130-041203
BO3
US3
F26
SR5
Depth (m)
0
-50
-100
-150
0
5
10
15
20
Temperature (°C)
0
5
10
Salinity (psu)
0
5
10
O2 (ml/l)
0
5
10
15
(NO2+NO3)-N (µmol/l)
0
1
2
PO4-P (µmol/l)
0
20
40
60
SiO3-Si (µmol/l)

SKAGERRAK 041208-041209

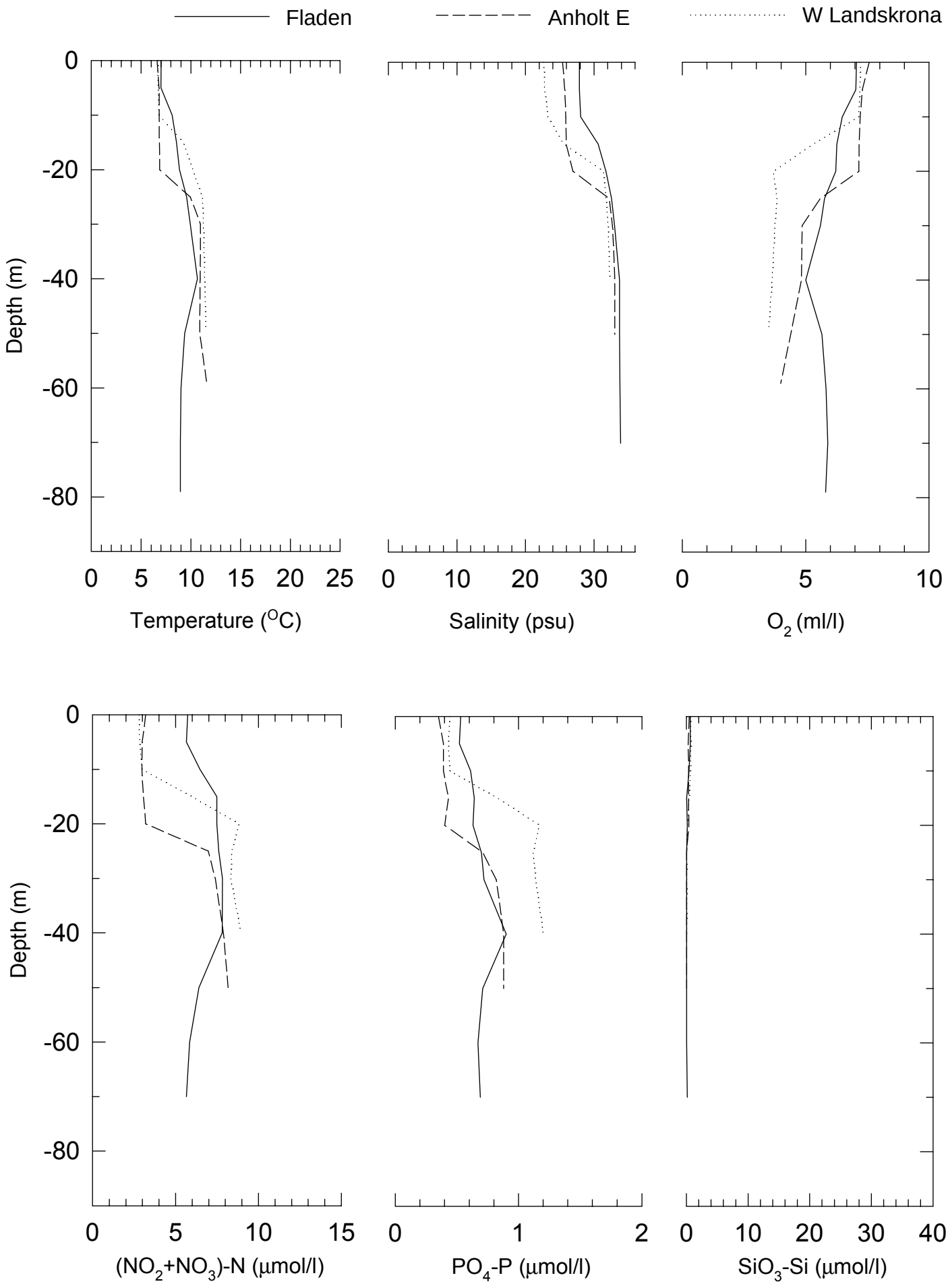



SOUTHERN BALTIC 20041110
BY5
BY4
BY2
BY1
Depth (m)
0
-20
-40
-60
-80
-100
0 5 10 15 20 25
Temperature (°C)
0 10 20 30
Salinity (psu)
-5 0 5 10
O2 (ml/l)
0 5 10 15
(NO2+NO3)-N (µmol/l)
0 2 4 6 8 10
PO4-P (µmol/l)
0 20 40 60 80
SiO3-Si (µmol/l)

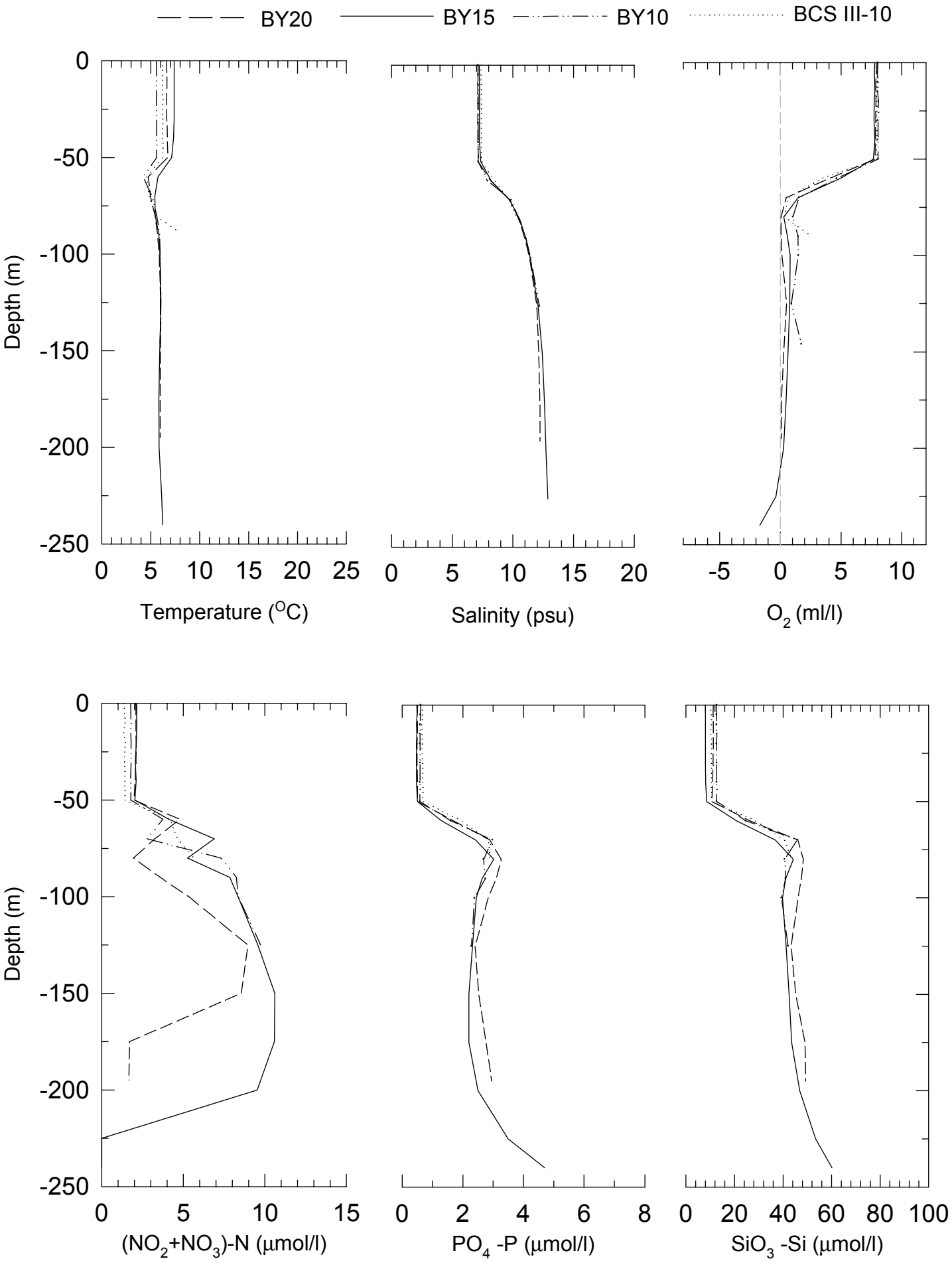
NORTH BALTIC 041129-041206

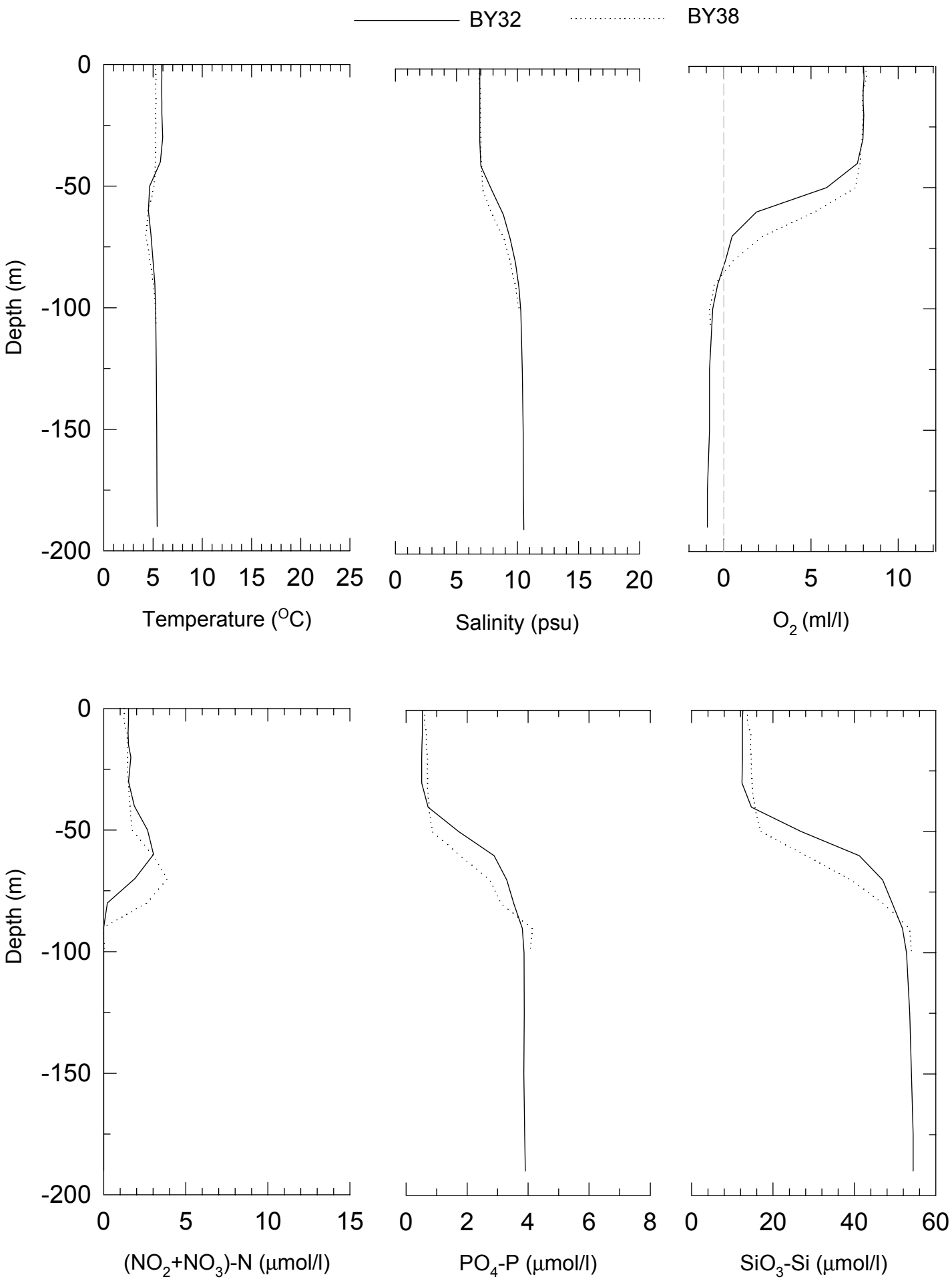


KATTEGAT and THE SOUND 20041208



EASTERN BALTIC 041206-041207




WESTERN BALTIC 20041129
BY32
BY38
Depth (m)
0
-50
-100
-150
-200
0 5 10 15 20 25
Temperature (°C)
0 5 10 15 20
Salinity (psu)
0 5 10
O2 (ml/l)
0 5 10 15
(NO2+NO3)-N (µmol/l)
0 2 4 6 8
PO4-P (µmol/l)
0 20 40 60
SiO3-Si (µmol/l)