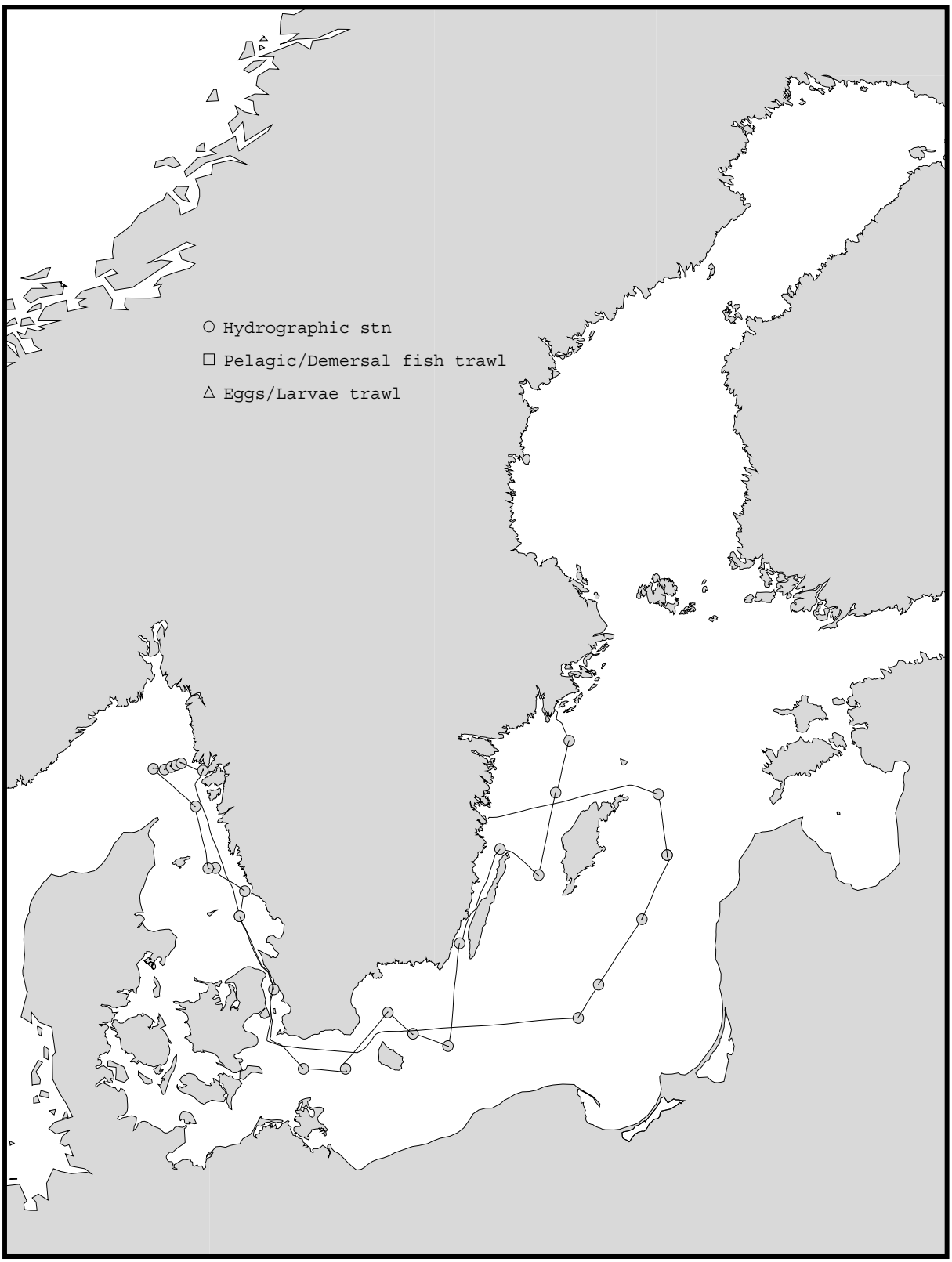
T R A C K C H A R T

Country: Sweden
Ship : Argos
Date : 20091004-20091010
Series : 0602-0630



CSR RefNo: 2009-77AR/0602-0630

SMHI ***** Hydrographic Ship: 14-Argos ****** Date: 2009-10-10
Ocean enh ***** series Year: 2009 ****** Time: 19:09

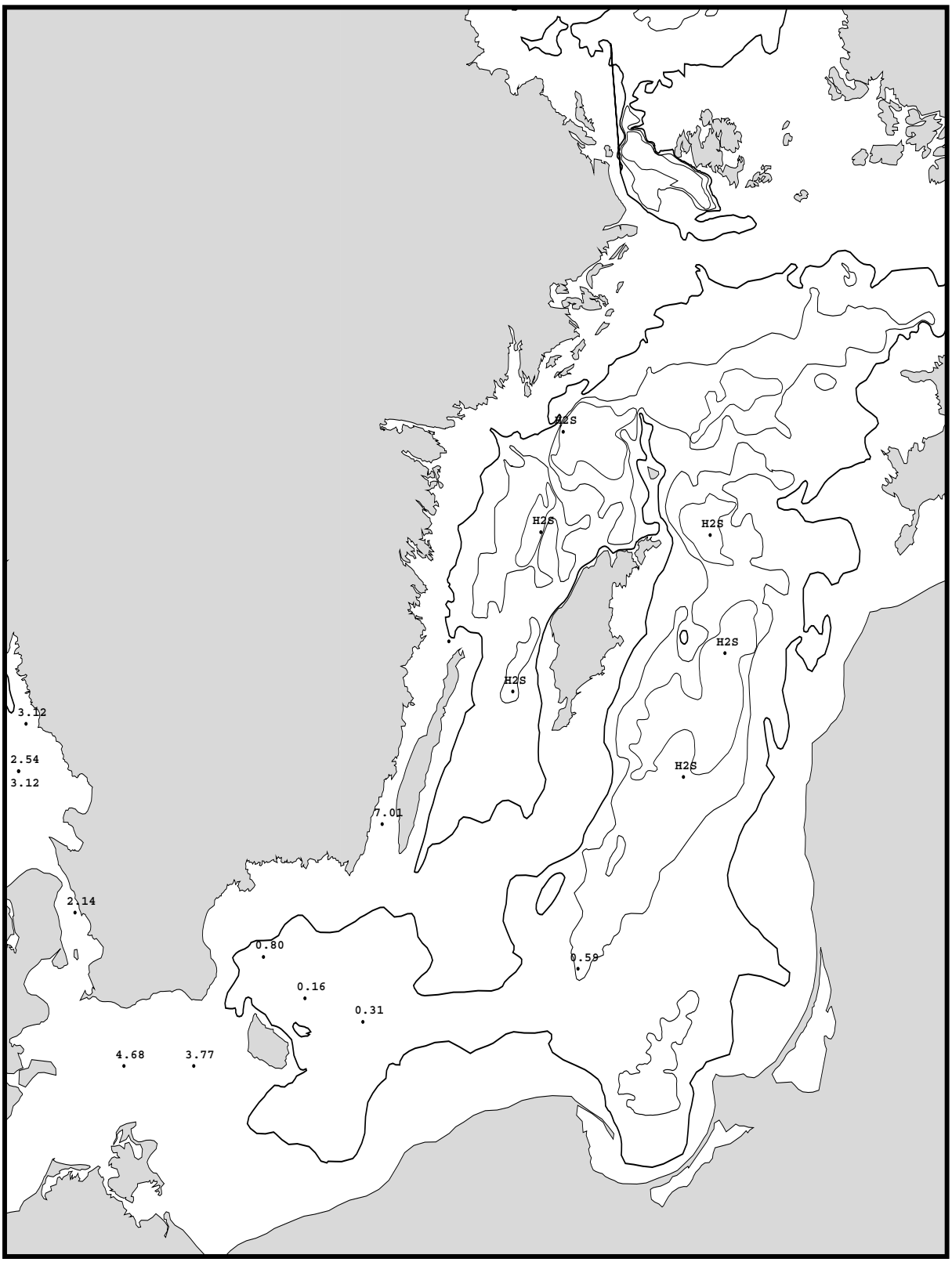
Ser no	Stat code	Proj	Station	Lat	Lon	Date yyyymmdd	Time hhmm utc	Bottom depth m	Secchi depth m	Wind dir	Wind vel	Air temp C	Air pres hPa	WCSI eleca tuhd	Ctd	PPCPZZT HrhhoorCilyooa motPBw PrP l	No de	Tem p	Sal in	Phy	Ox yg	H2S	PO4P	Tot P	NO2N	NO3N	NH4N	Tot N	Alk al	Sio3	Humus	Lign in	PON	PPC	TOC	Comm
0602	BPNX37EXT		BY31 LANDSORTSDJ	N5835	E1814	20091004	2345	442		29	14	6.4	987	9990	x	--x----	23	x	x	-	x	x	x	x	x	x	x	-	x	x	-	-	-	-	x
0603	BPWX38BAS		BY32 NORRKÖPINGSDJ	N5801	E1759	20091005	0420	203		29	14	7.1	995	9990	x	--x----	17	x	x	-	x	x	x	x	x	x	x	-	x	-	-	-	-	-	x
0604	BPWX45BAS		BY38 KARLSÖDJ	N5707	E1740	20091005	1030	111	8	27	9	9.2	1005	1140	x	--x----	14	x	x	-	x	x	x	x	x	x	x	-	x	-	-	-	-	-	x
0605	BPWK19EXT		BLÅ JUNGFRUN	N5724	E1657	20091005	1350	37		27	5	9.5	1006	1330	x	--x----	7	-	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0606	BPWK01BAS		REF M1V1	N5622.25	E1612.1	20091005	2030	21		26	7	7.8	1012	9990	x	-xxxx--	5	x	x	x	x	-	x	x	x	x	x	x	x	-	-	-	-	-	-	-
0607	BPSB07BAS		BY5 BORNHOLMSDJ	N5515	E1559	20091006	0345	90		24	5	12.8	1015	9990	x	-xxxx--	12	x	x	x	x	x	x	x	x	x	x	x	x	x	x	-	-	-	-	x
0608	BPSB06BAS		BY4 CHRISTIANSÖ	N5523	E1520	20091006	0700	93	12	19	4	11.1	1015	0030	x	--x----	13	x	x	-	x	x	x	x	x	x	x	-	x	-	-	-	-	-	x
0609	BPSH05BAS		HANÖBUKTEN	N5537	E1452	20091006	0925	80	8	17	7	12.9	1015	0030	x	--x----	11	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-
0610	BPSA03BAS		BY2 ARKONA	N5500	E1405	20091006	1450	47	6	14	10	13.8	1011	1140	x	--xxx--	8	x	x	-	x	-	x	x	x	x	x	-	x	x	-	-	-	-	-	-
0611	BPSA02BAS		BY1	N5500	E1318	20091006	1815	48		15	10	14.3	1007	9990	x	--x----	8	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-	-
0612	SOCX39BAS		W LANDSKRONA	N5552.0	E1245.0	20091007	0010	52		20	10	13.3	1000	9990	x	--x----	9	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-	x
0613	KAEX29BAS		ANHOLT E	N5640.0	E1207.0	20091007	0555	56		28	12	12.8	999	2840	x	-xxxx--	10	x	x	x	x	-	x	x	x	x	x	x	x	x	-	-	-	-	-	-	-
0614	KANX50BAS		N14 FALKENBERG	N5656.40	E1212.70	20091007	0815	30	4	26	11	12.4	1000	1140	x	-xxxx--	7	x	x	x	x	-	x	x	x	x	x	x	x	x	-	-	-	-	-	-	-
0615	KANX25BAS		FLADEN	N5711.5	E1140	20091007	1135	84		27	16	12.5	1001	1440	x	--x----	12	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-	-
0616	KANX19EXT		LASO-E (SEAWATCH BUOY)	N5711.45	E1131.95	20091007	1233	65		25	13	12.5	1002	1240	x	--x----	13	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0617	SKEX23BAS		P2	N5752	E1118	20091007	1800	93		25	12	12.3	1002	9990	x	--x----	10	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-	-
0618	SKEX18BAS		Å17	N5816.5	E1030.8	20091007	2235	349		29	12	10.8	1004	9990	x	--xxx--	14	x	x	x	x	-	x	x	x	x	x	x	x	x	-	-	-	-	-	-	-
0619	SKEX17BAS		Å16	N5816	E1043.5	20091008	0017	204		28	10	10.6	1004	9990	x	-------	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0620	SKEX16BAS		Å15	N5817.7	E1051	20091008	0115	140		28	8	10.5	1004	9990	x	--x----	12	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-	-
0621	SKEX15BAS		Å14	N5819	E1056.5	20091008	0159	113		27	9	10.6	1003	9990	x	-------	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0622	SKEX14BAS		Å13	N5820.2	E1102	20091008	0250	103		28	8	10.5	1003	9990	x	--x----	10	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-	-
0623	FIBG27BAS		SLÄGGÖ	N5815.5	E1126.0	20091008	0430	63		28	7	10.7	1003	9990	x	--xxx--	9	x	x	-	x	-	x	x	x	x	x	-	x	-	-	-	-	-	-	-
0624	KAEX29BAS		ANHOLT E	N5640.0	E1207.0	20091008	1415	61		23	11	11.5	1005	1640	x	-xxxx--	10	x	x	x	x	-	x	x	x	x	x	x	x	x	-	-	-	-	-	-	-
0625	BPSE11BAS		BCS III-10	N5533.3	E1824	20091009	1335	90		33	11	9.3	1020	2750	x	--x----	12	x	x	-	x	-	x	x	x	x	x	-	x	x	-	-	-	-	-	-	-
0626	BPSE00EXT		VÅGBOJ SE ÖSTERSJÖN	N5555.12	E1846.74	20091009	1630	116		34	8	9.0	1022	2750	x	-------	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0627	BPEX13BAS		BY10	N5638	E1935	20091009	2115	147		32	5	8.7	1024	9990	x	--x----	15	x	x	-	x	x	x	x	x	x	x	-	x	-	-	-	-	-	-	-
0628	BPEX21BAS		BY15 GOTLANDSDJ	N5720	E2003	20091010	0130	249		33	1	8.5	1023	9990	x	-xxxx--	19	x	x	x	x	x	x	x	x	x	x	x	x	x	-	-	-	-	-	-	x

SMHI ***** Hydrographic Ship: 14-Argos ****** Date: 2009-10-10
Ocean enh ***** series Year: 2009 ****** Time: 19:09

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 aoahd	Ct d	PPCPZZT HrhhoorCilyooa motPBw PrP l	Node	Tem p	Sal in	Phx g	OxySg	H2S	Po4P	Too tPP	Noo2N	Noo3N	Noh4N	Not N	Alk a l	Sio3	Hum s	Lui n	PON	POC	Too C	Com m
0629	BPEX21	EXT	BY15 GOTLANDSDJ	N5720	E2003	20091010	0240	249		33	1	8.5	1023	9990	x	-------	6	x	x	-	x	x	x	x	x	x	x	x	-	x	-	-	-	-	-	x
0630	BPEX26	BAS	BY20 FÅRÖDJ	N5800	E1953	20091010	0610	199	7	25	3	8.4	1024	2730	x	--x----	17	x	x	-	x	x	x	x	x	x	x	x	-	x	-	-	-	-	-	x

Bottom water oxygen concentration (ml/l)

Country: Sweden
Ship : Argos
Date : 20091004-20091010
Series : 0602-0630

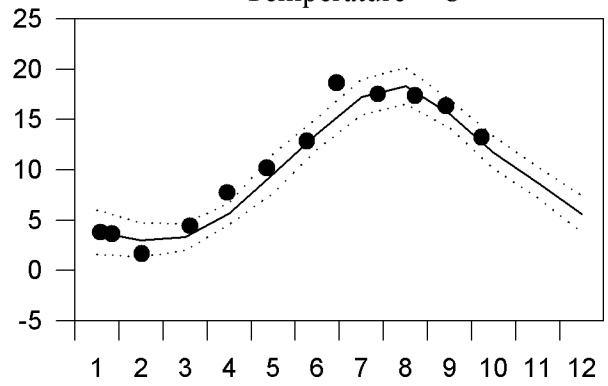


STATION P2 SURFACE WATER

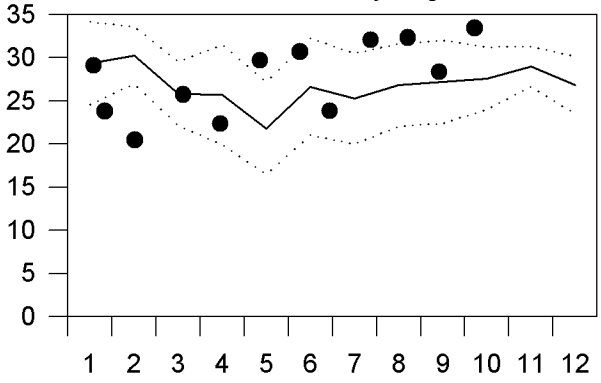
Annual Cycles

Mean 1995-2004 ····· St.Dev. ● 2009

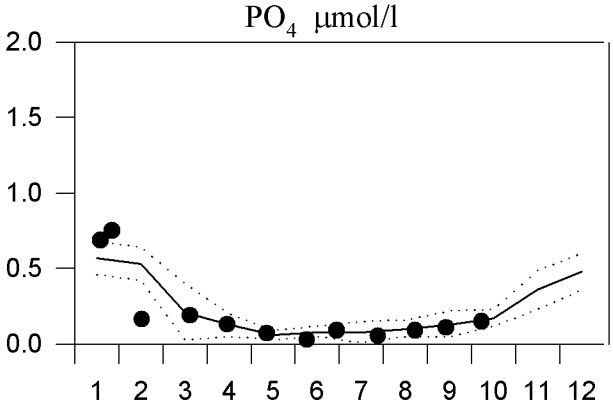
Temperature °C



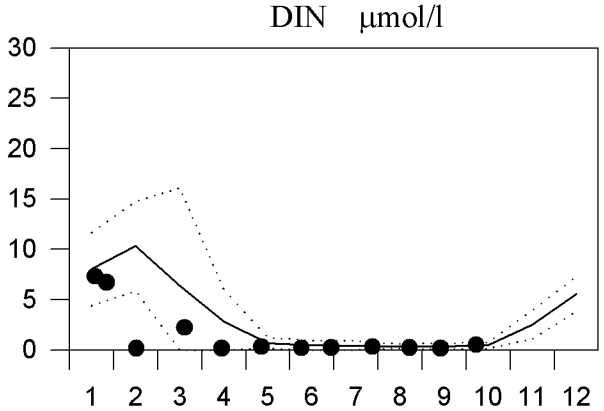
Salinity psu



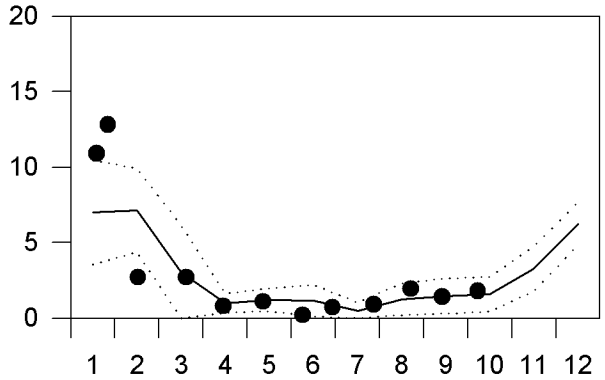
PO_4 µmol/l



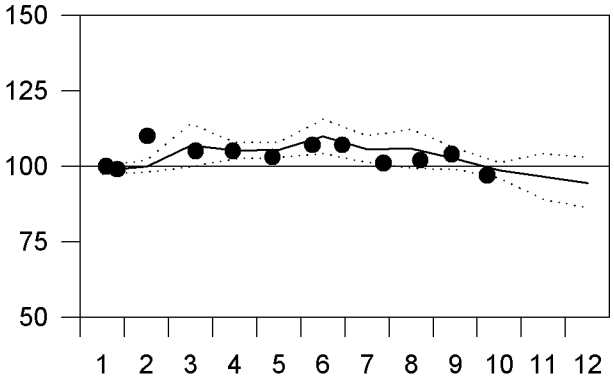
DIN µmol/l



SiO_3 µmol/l

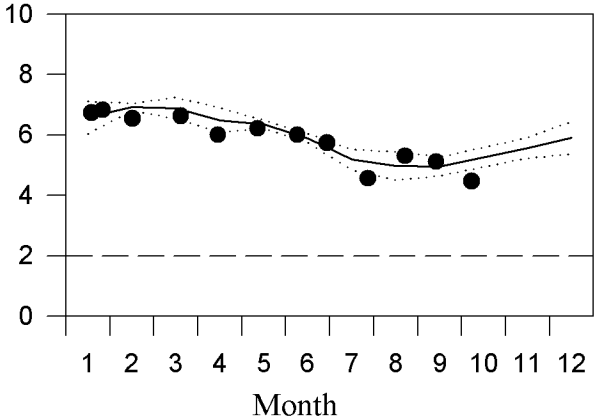


O_2 saturation %

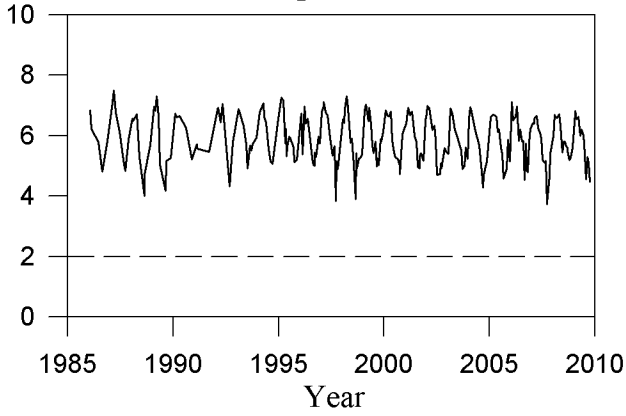


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

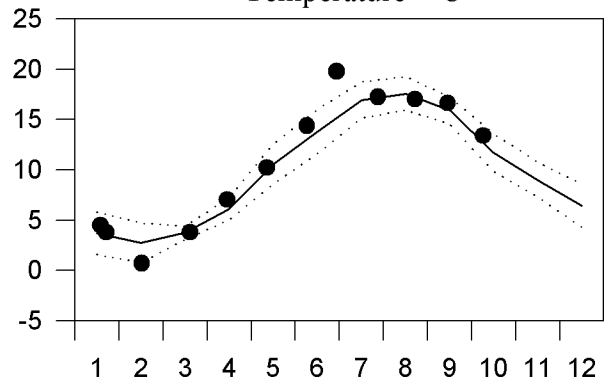


STATION Å13 SURFACE WATER

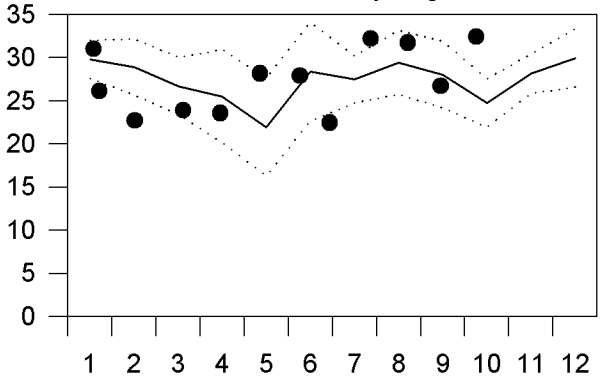
Annual Cycles

Mean 1995-2004 ····· St.Dev. ● 2009

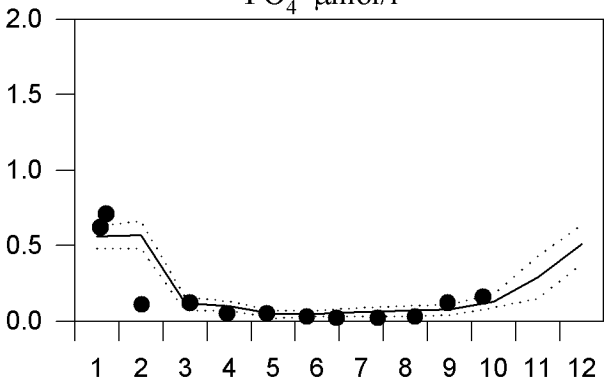
Temperature °C



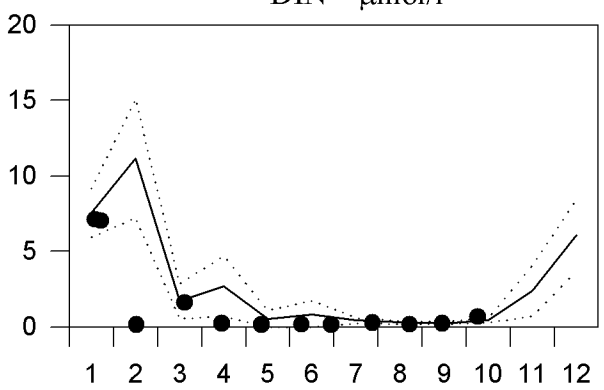
Salinity psu



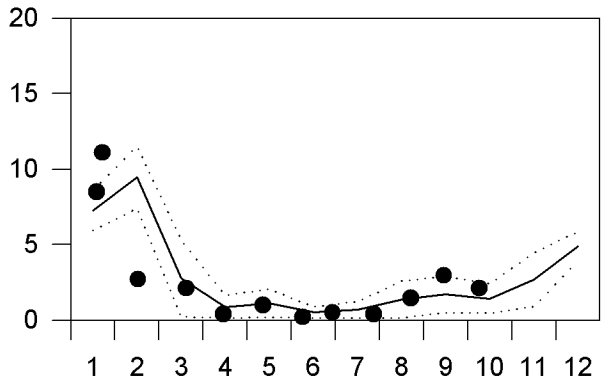
PO_4 µmol/l



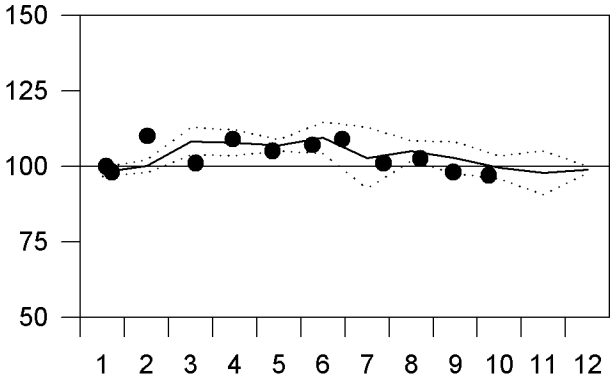
DIN µmol/l



SiO_3 µmol/l

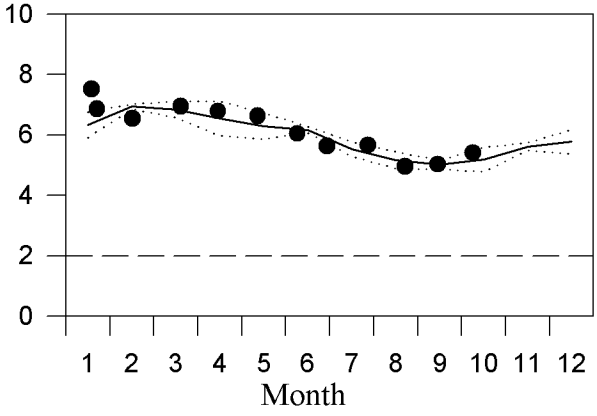


O_2 saturation %

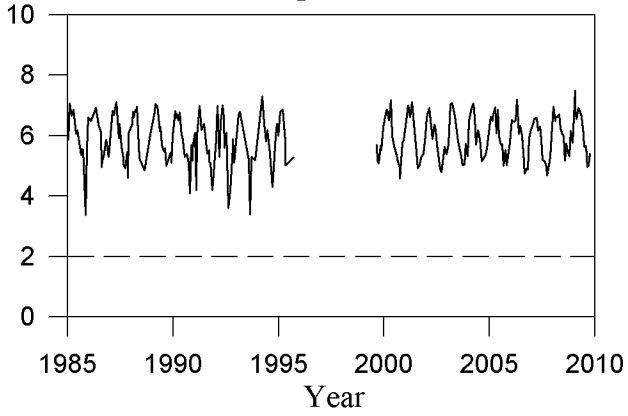


OXYGEN IN BOTTOM WATER

O_2 ml/l

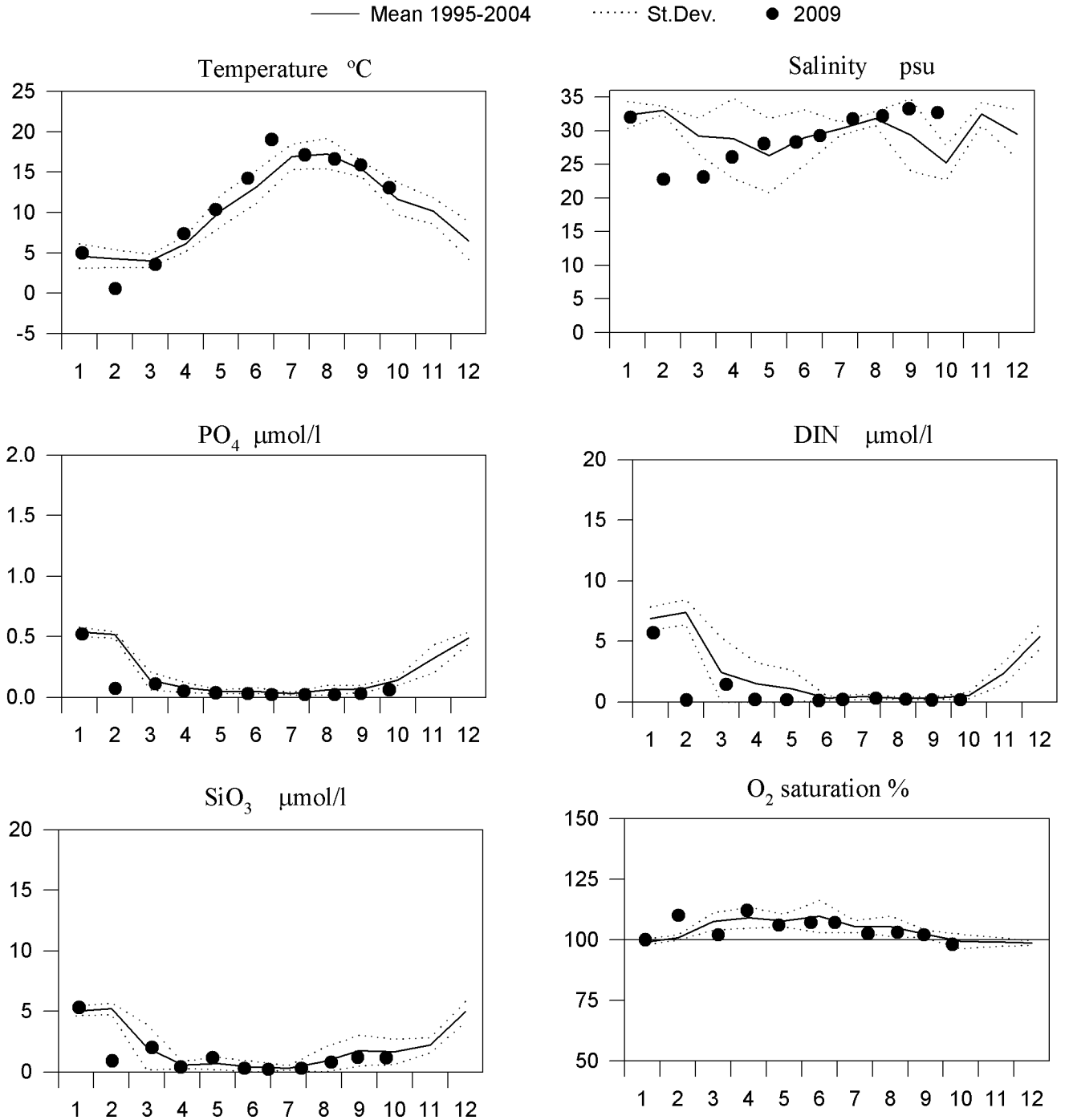


O_2 ml/l

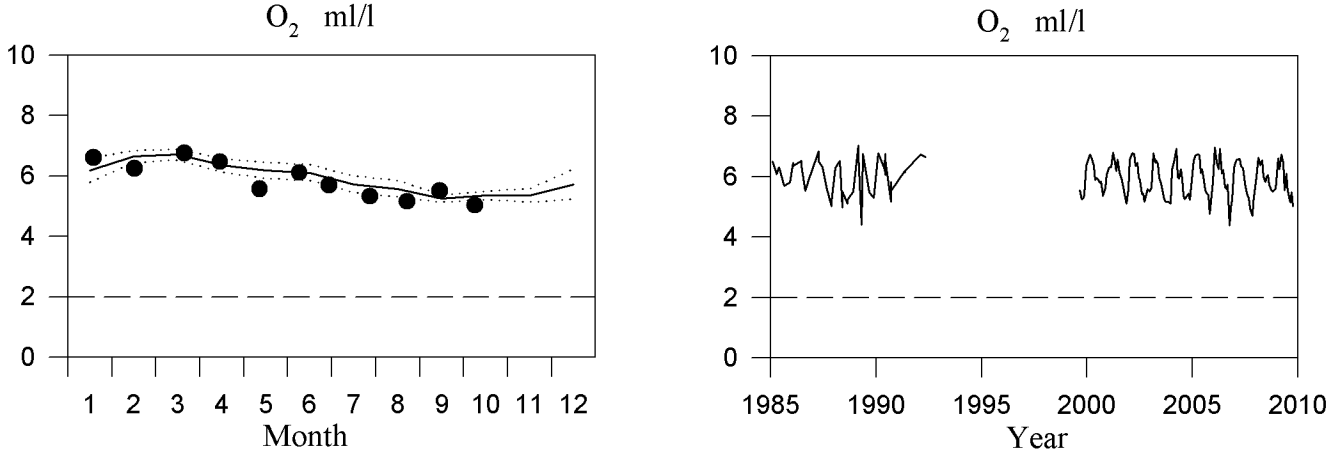


STATION Å15 SURFACE WATER

Annual Cycles



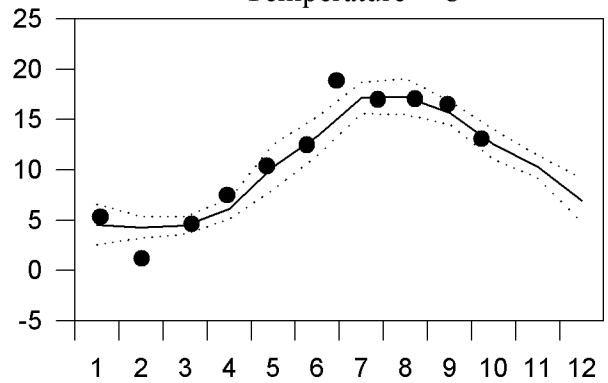
OXYGEN IN BOTTOM WATER



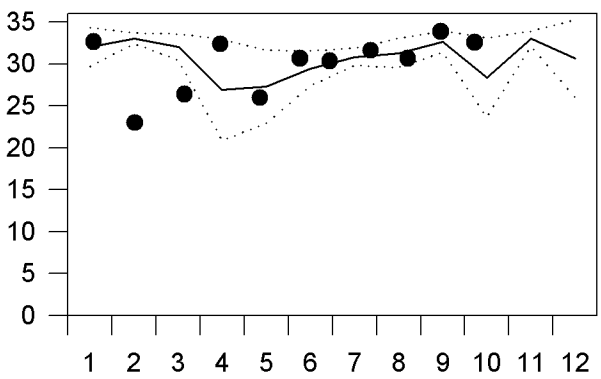
STATION Å17 SURFACE WATER

Annual Cycles

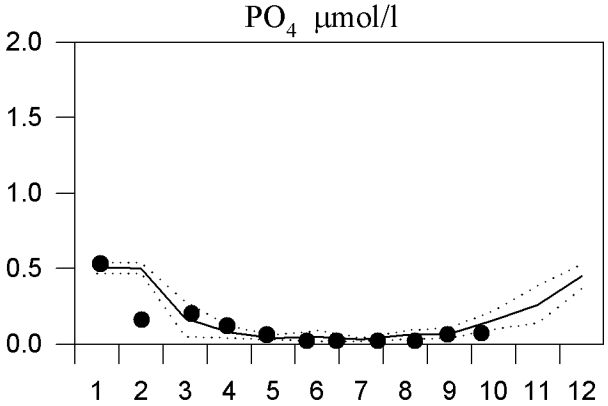
Temperature °C



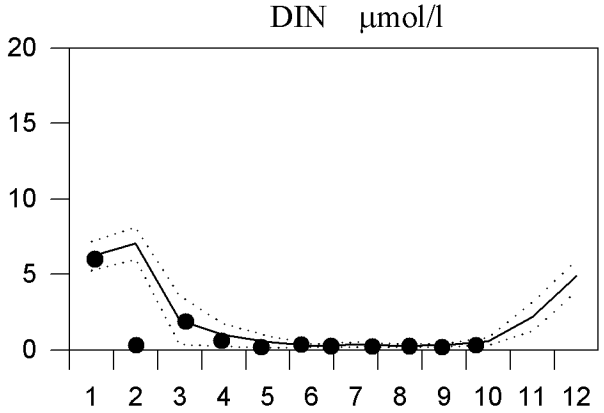
Salinity psu



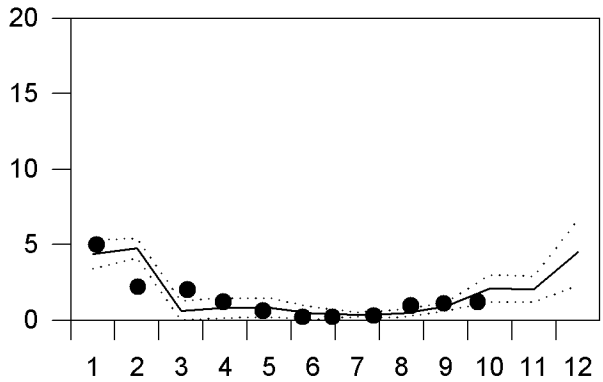
PO_4 µmol/l



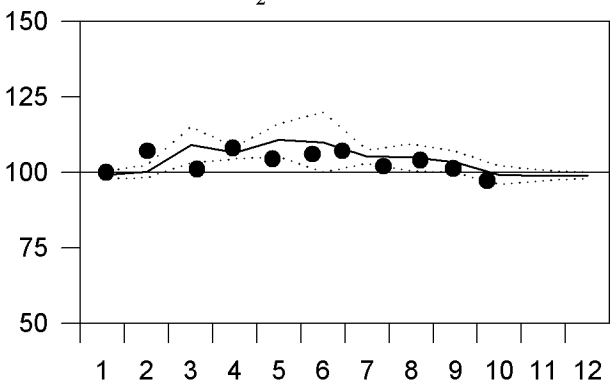
DIN µmol/l



SiO_3 µmol/l

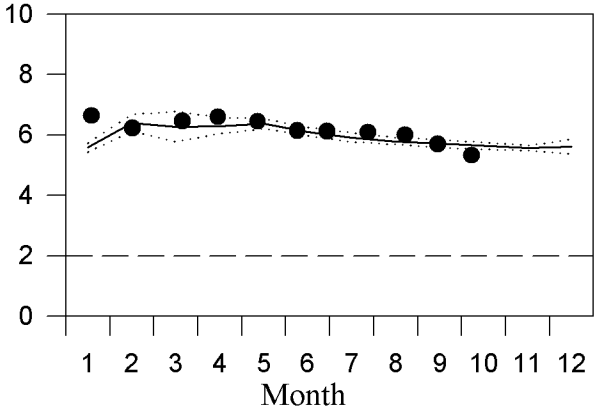


O_2 saturation %

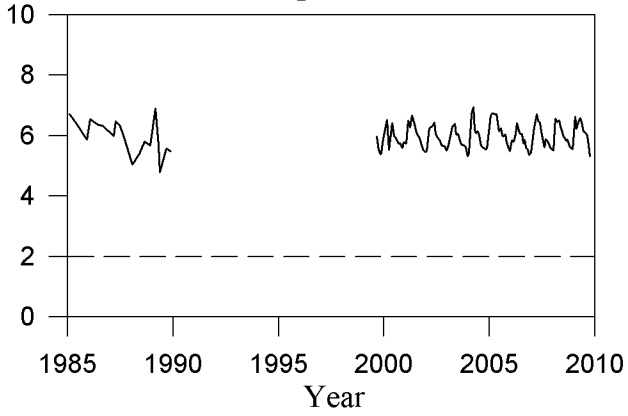


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

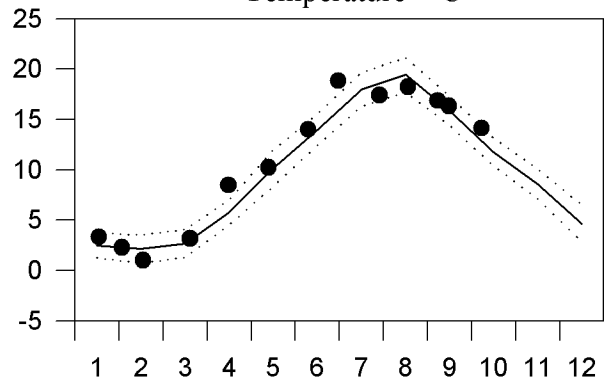


STATION FLADEN SURFACE WATER

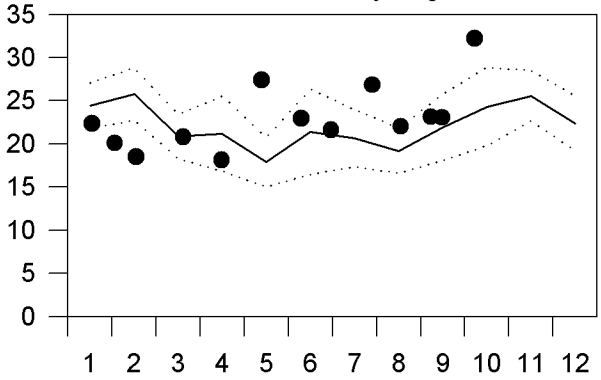
Annual Cycles

Mean 1995-2004 ····· St.Dev. ● 2009

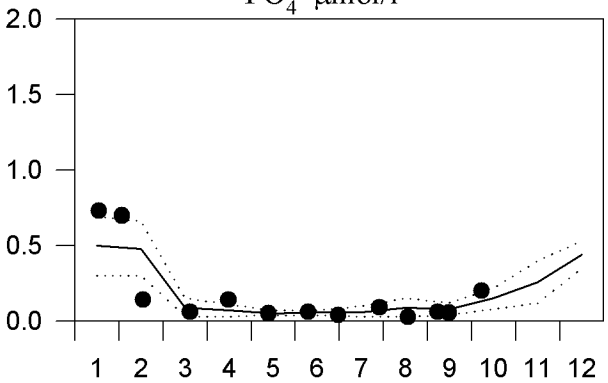
Temperature °C



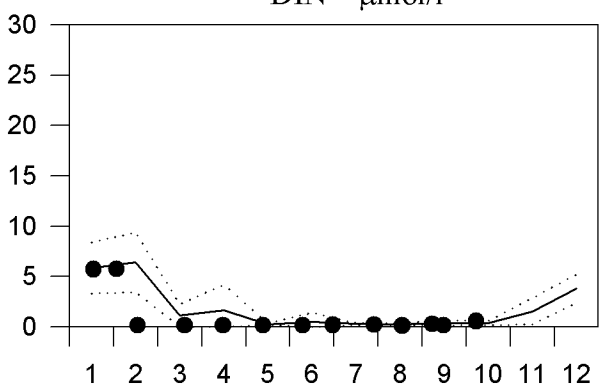
Salinity psu



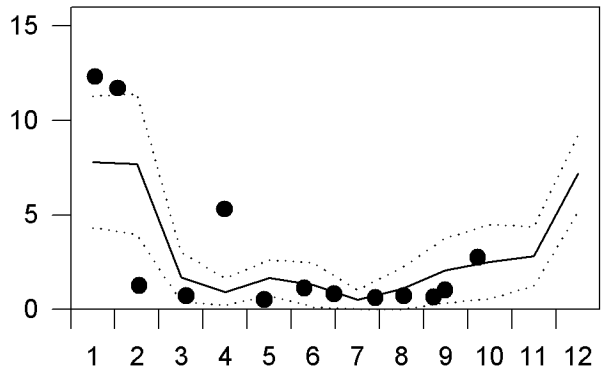
PO_4 µmol/l



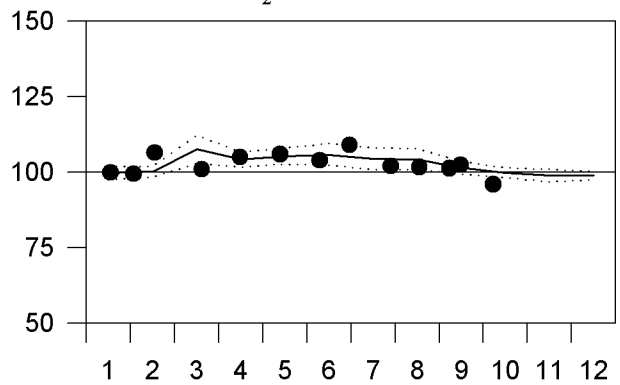
DIN µmol/l



SiO_3 µmol/l

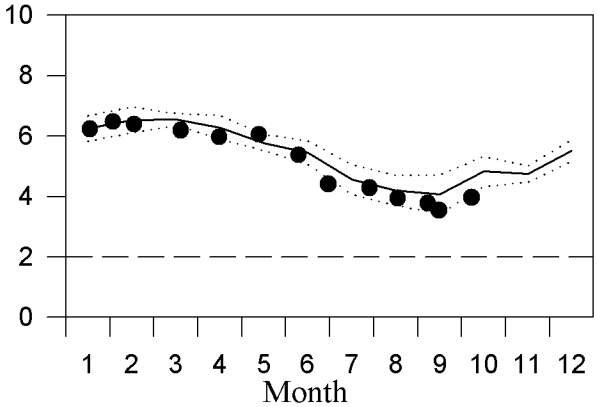


O_2 saturation %

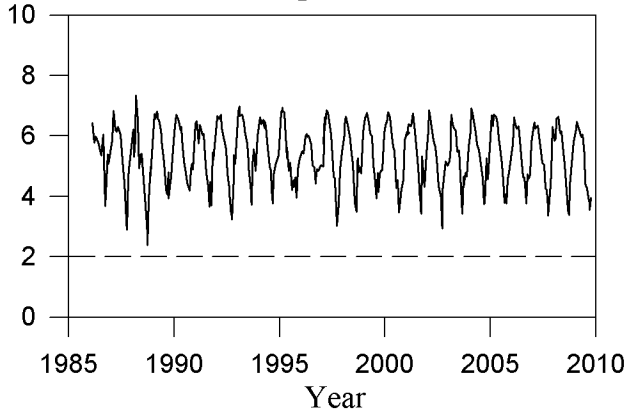


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

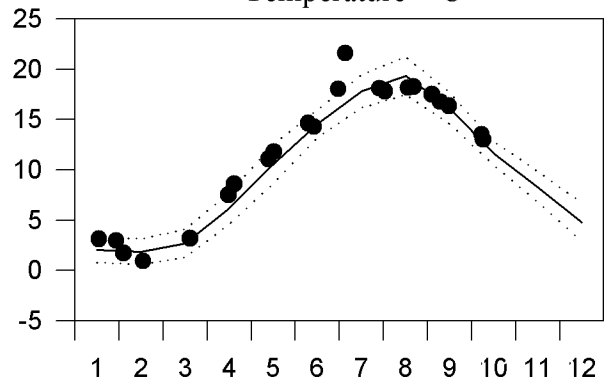


STATION ANHOLT E SURFACE WATER

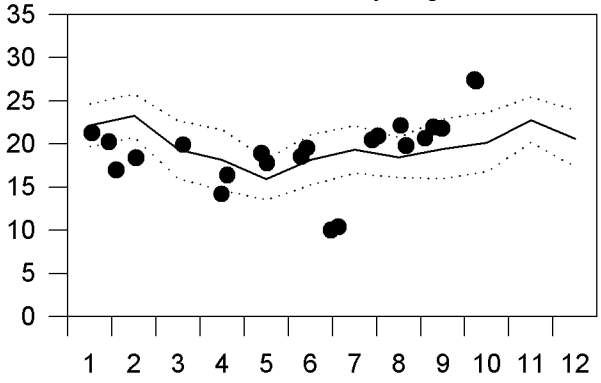
Annual Cycles

Mean 1995-2004 ····· St.Dev. ● 2009

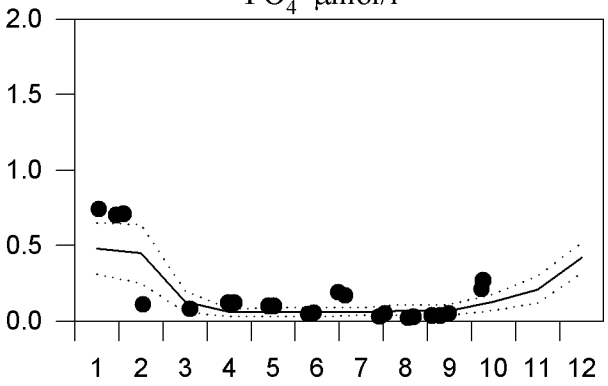
Temperature °C



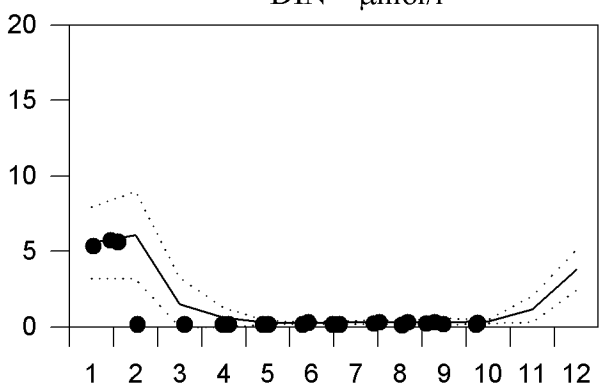
Salinity psu



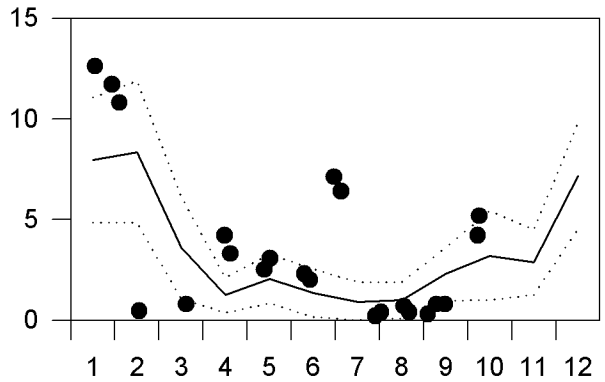
PO_4 µmol/l



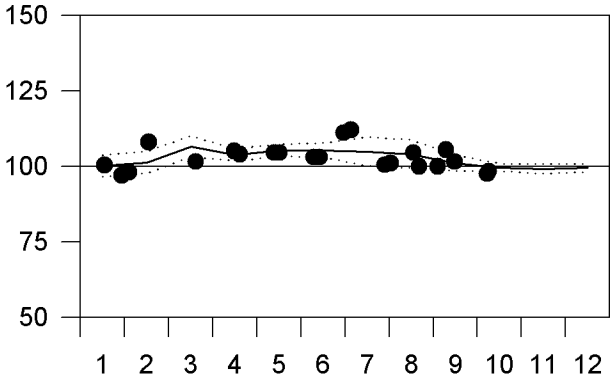
DIN µmol/l



SiO_3 µmol/l

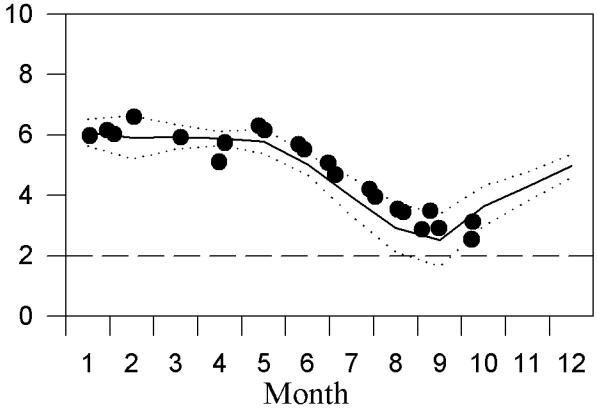


O_2 saturation %

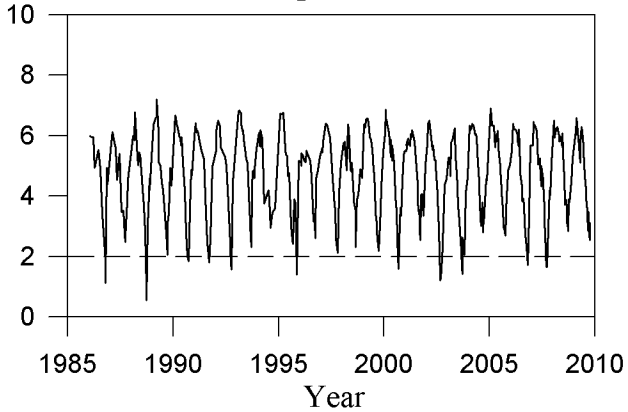


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

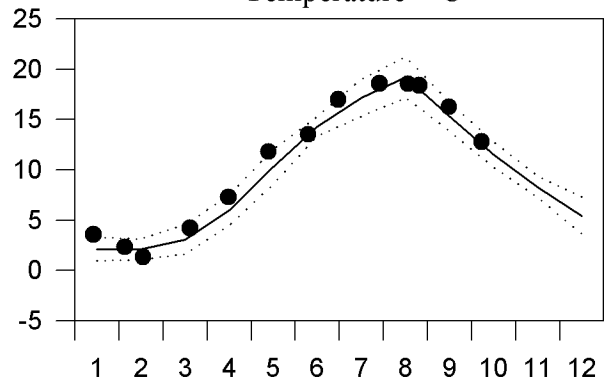


STATION W LANDSKRONA SURFACE WATER

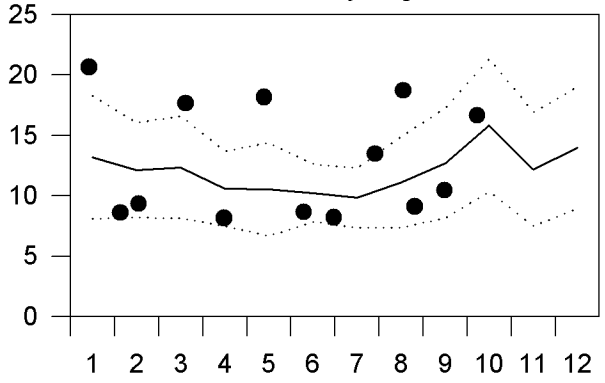
Annual Cycles

Mean 1995-2004 ····· St.Dev. ● 2009

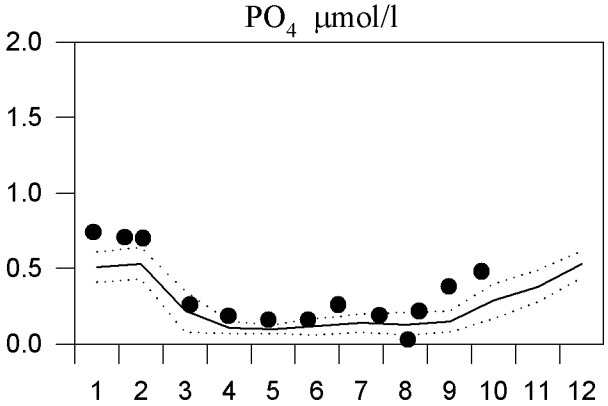
Temperature °C



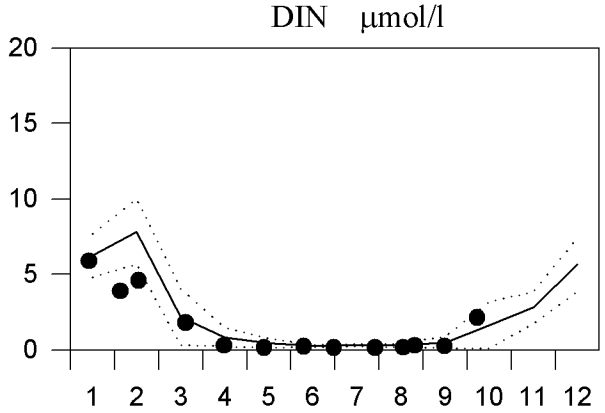
Salinity psu



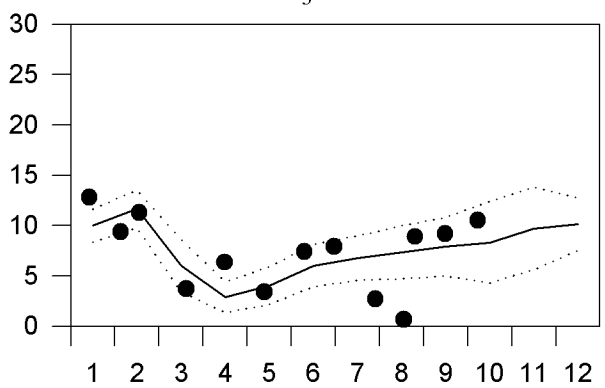
PO_4 µmol/l



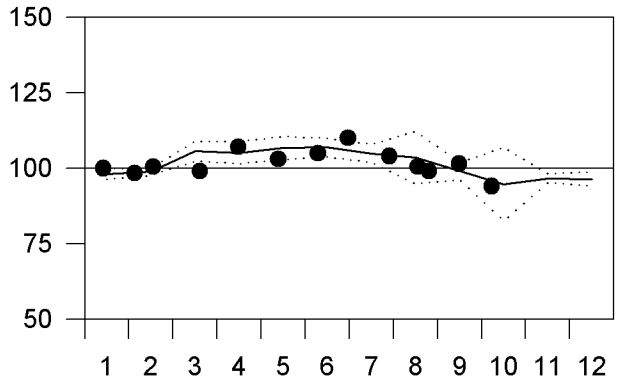
DIN µmol/l



SiO_3 µmol/l

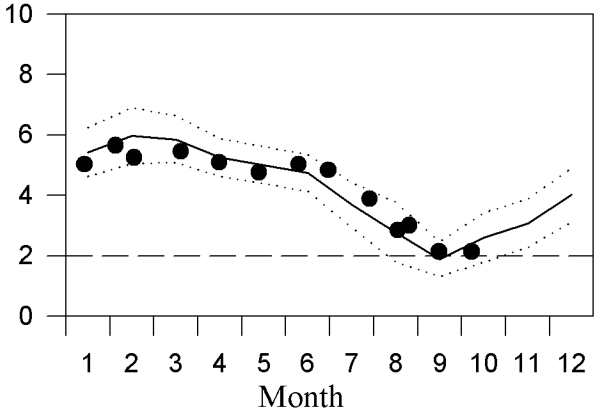


O_2 saturation %

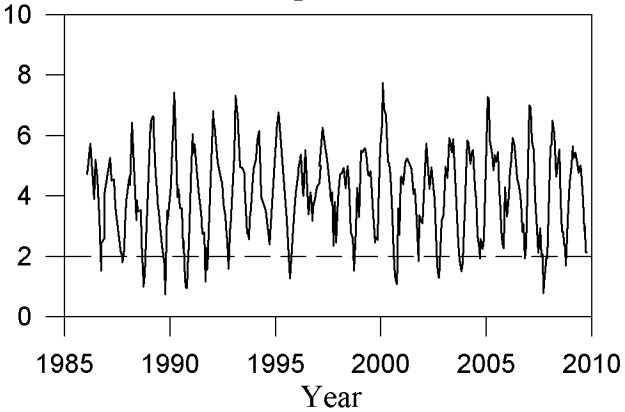


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

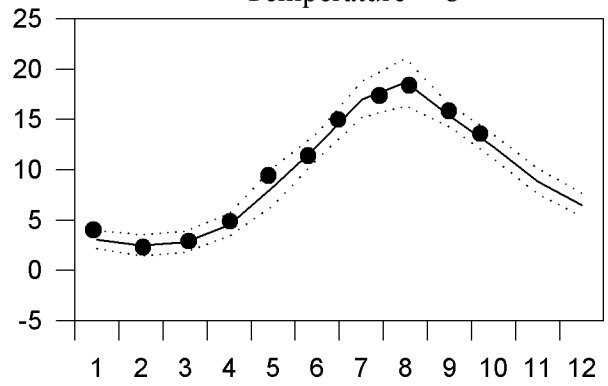


STATION BY1 SURFACE WATER

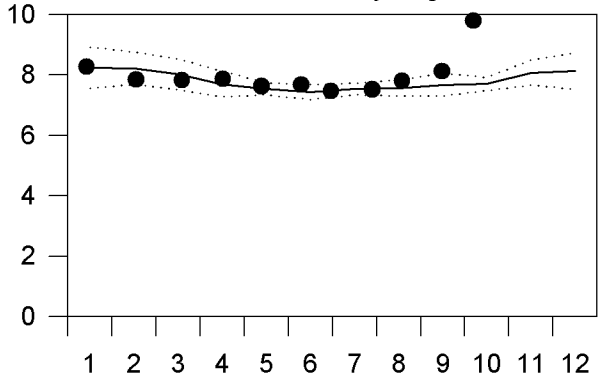
Annual Cycles

Mean 1995-2004 ····· St.Dev. ● 2009

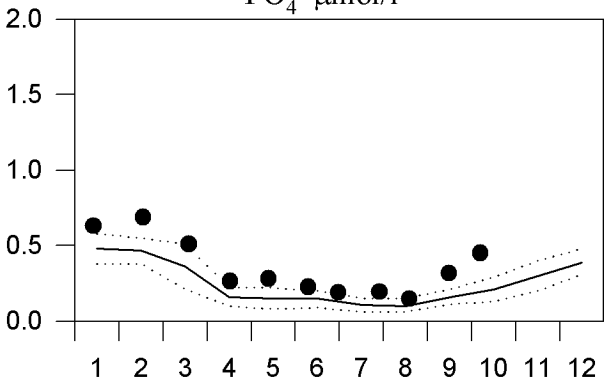
Temperature °C



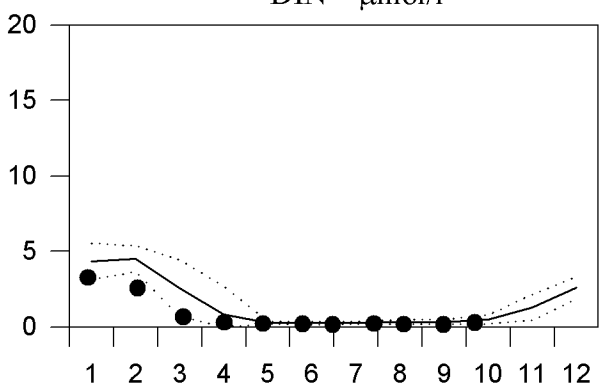
Salinity psu



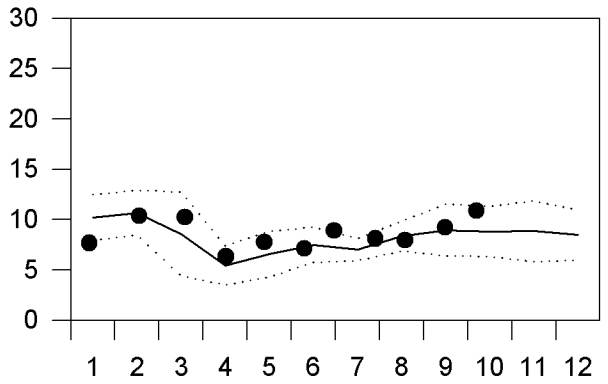
PO_4 µmol/l



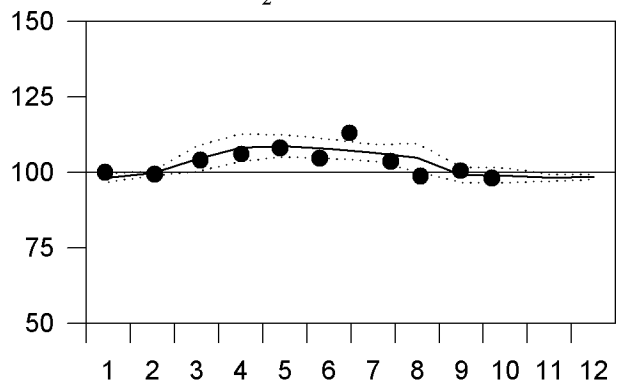
DIN µmol/l



SiO_3 µmol/l

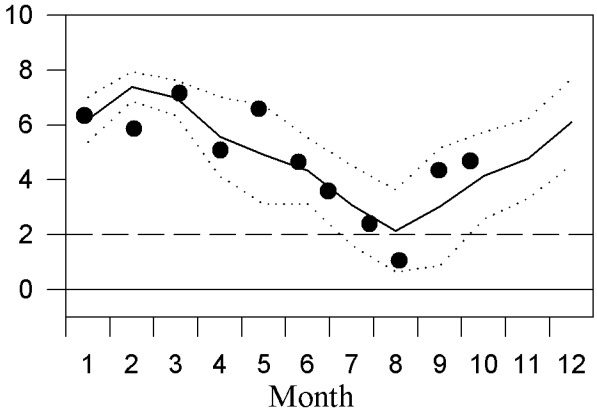


O_2 saturation %

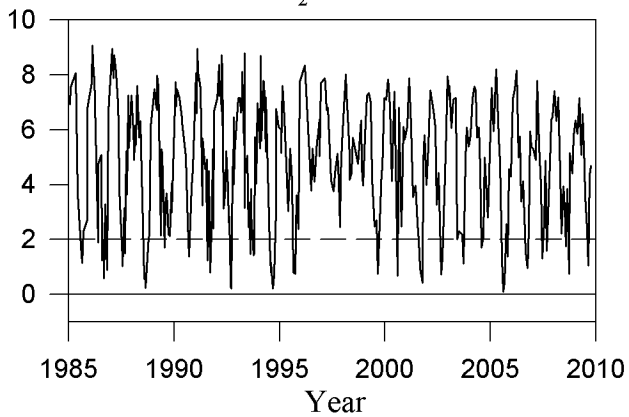


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

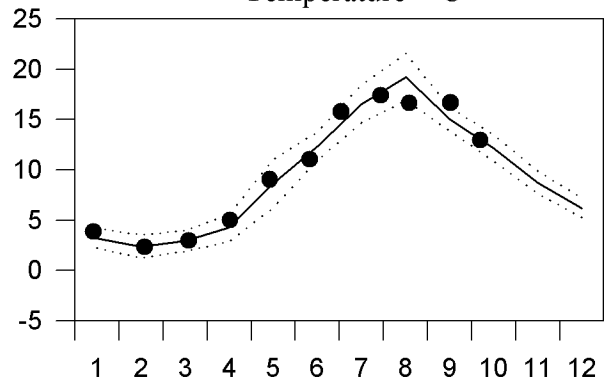


STATION BY2 SURFACE WATER

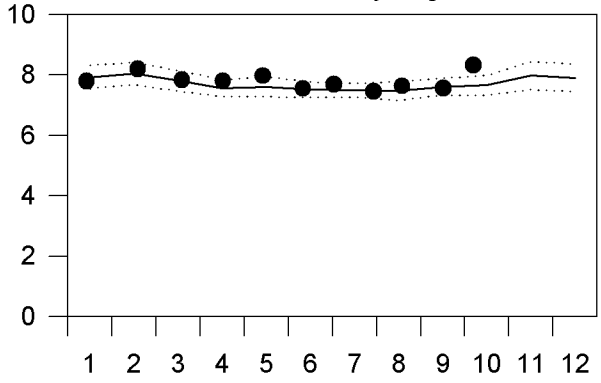
Annual Cycles

Mean 1995-2004 ····· St.Dev. ● 2009

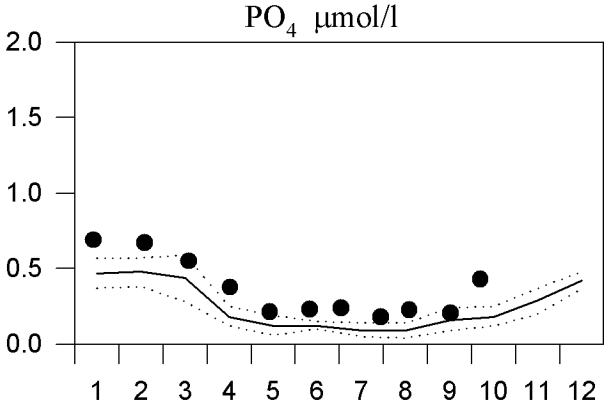
Temperature °C



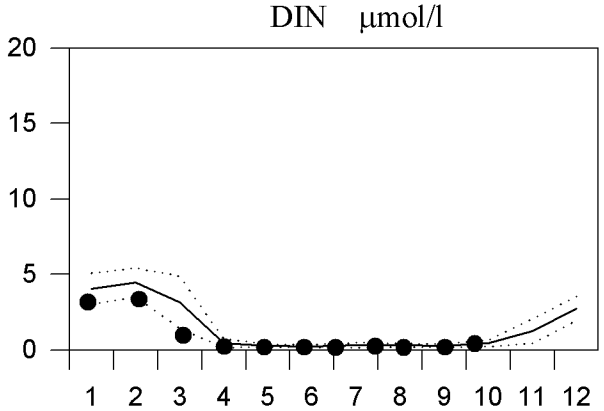
Salinity psu



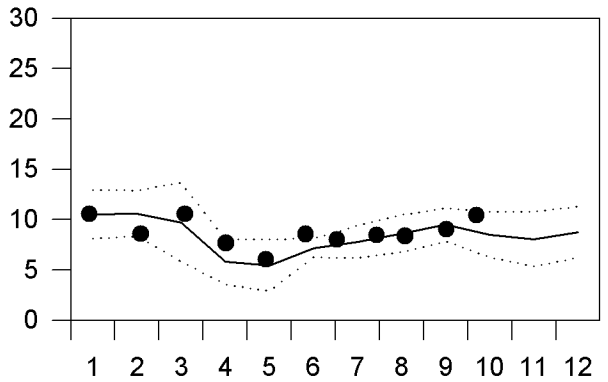
PO_4 µmol/l



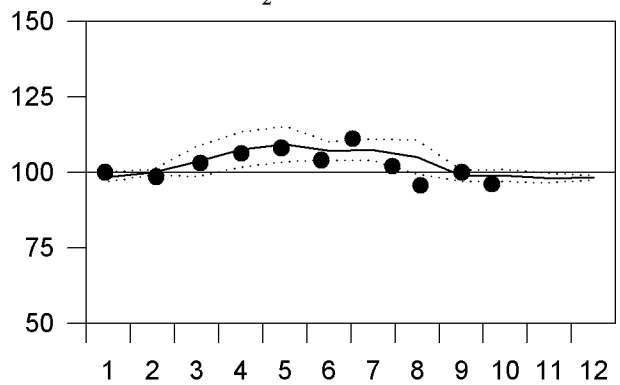
DIN µmol/l



SiO_3 µmol/l

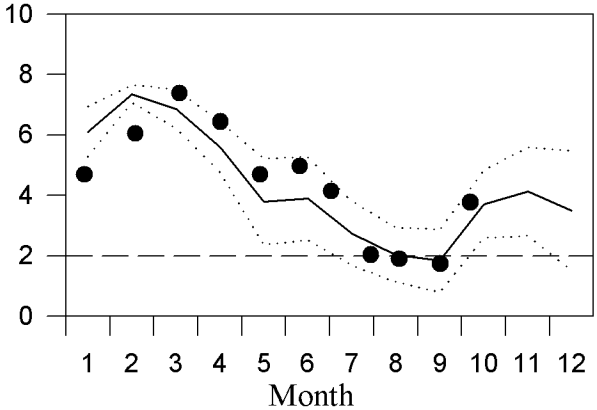


O_2 saturation %

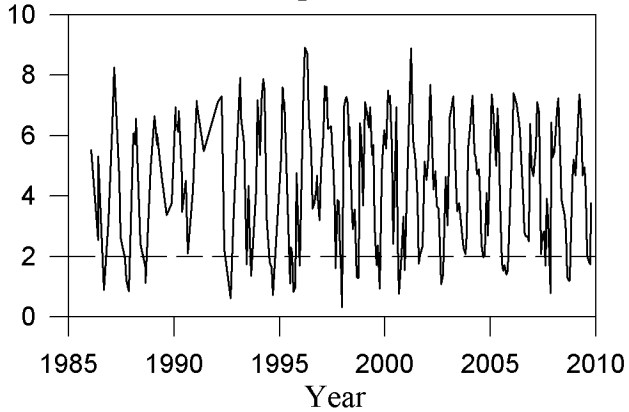


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

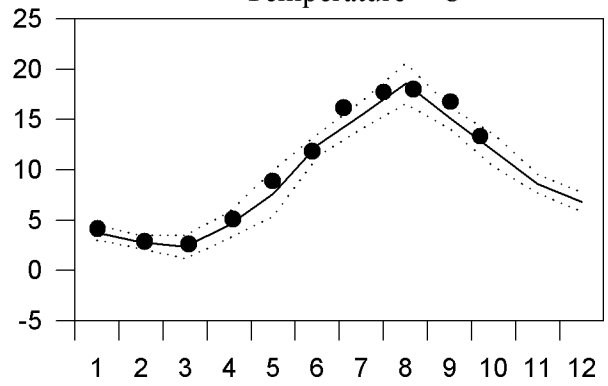


STATION HANÖBUKTEN SURFACE WATER

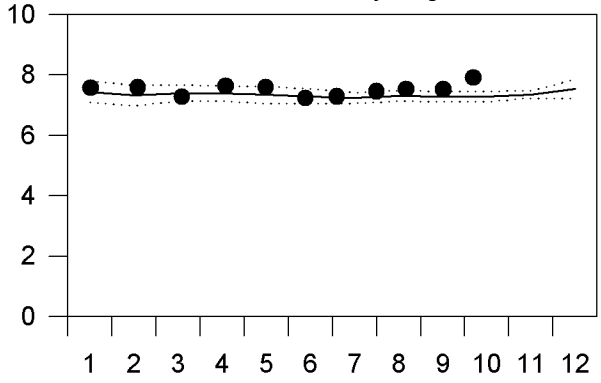
Annual Cycles

Mean 1995-2004 ····· St.Dev. ● 2009

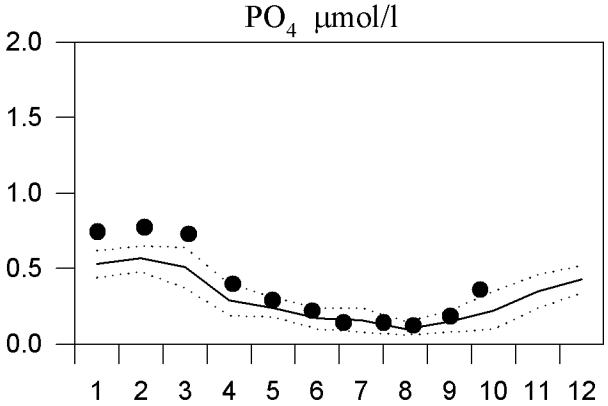
Temperature °C



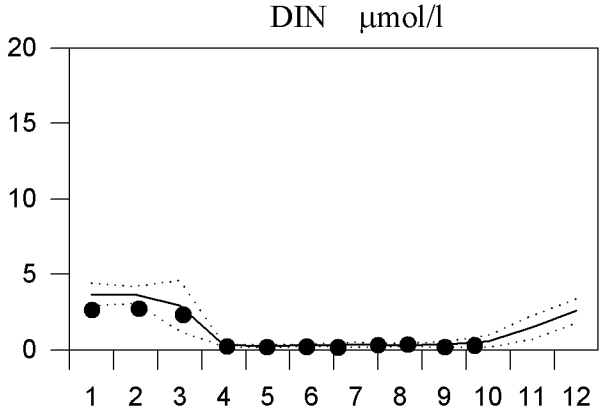
Salinity psu



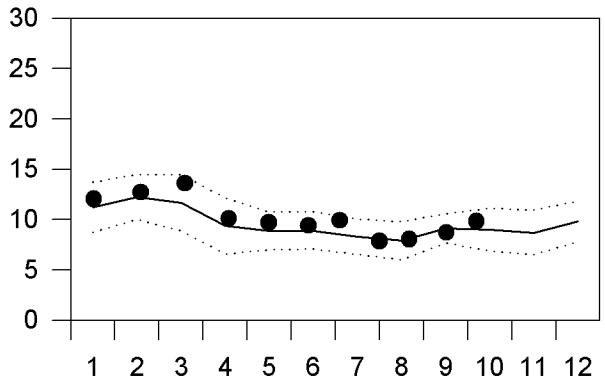
PO_4 µmol/l



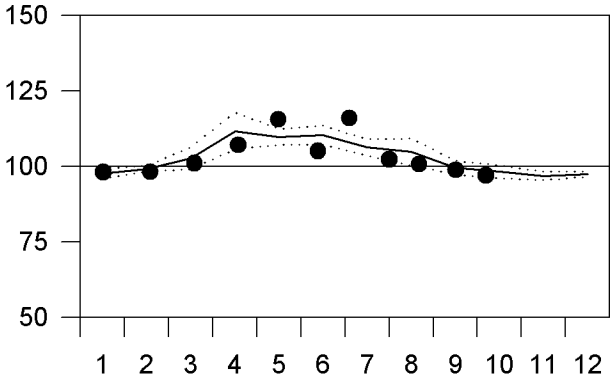
DIN µmol/l



SiO_3 µmol/l

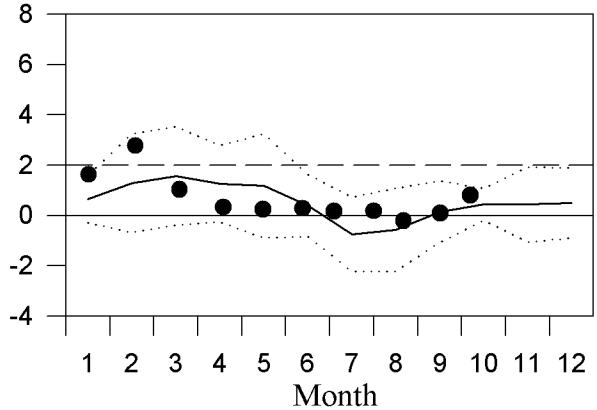


O_2 saturation %

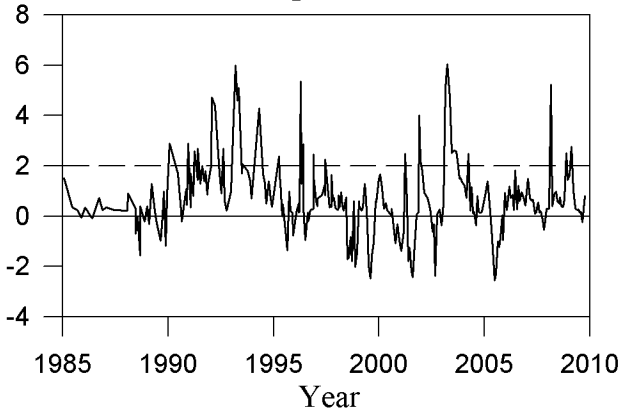


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

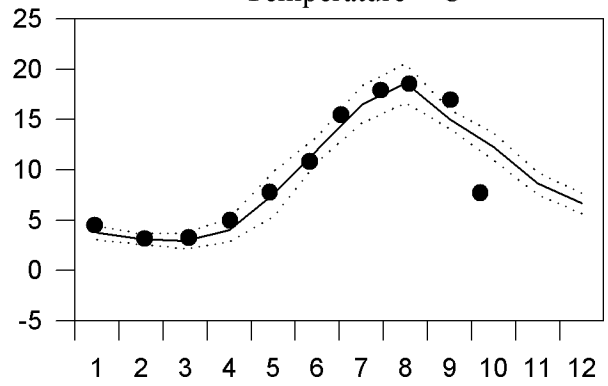


STATION BY4 SURFACE WATER

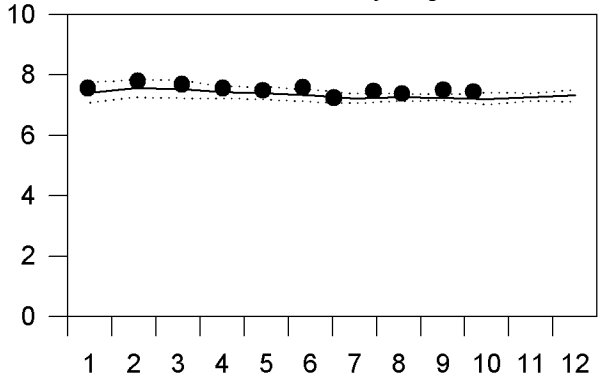
Annual Cycles

Mean 1995-2004 ····· St.Dev. ● 2009

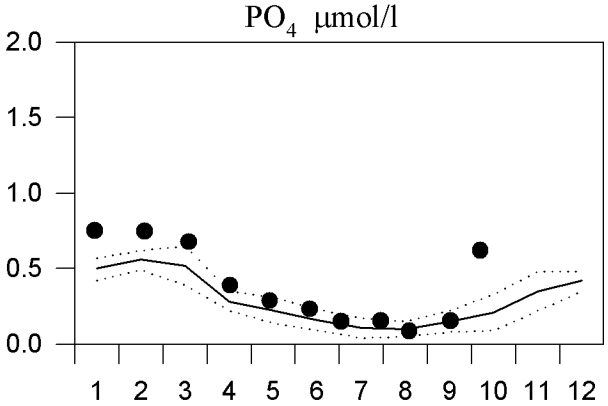
Temperature °C



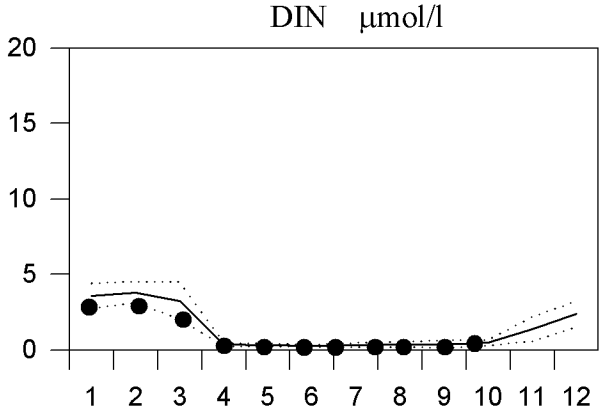
Salinity psu



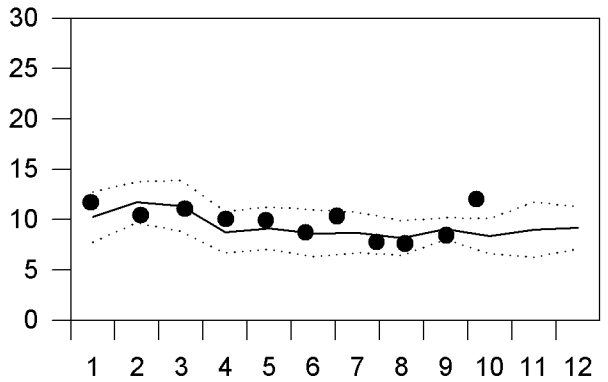
PO_4 µmol/l



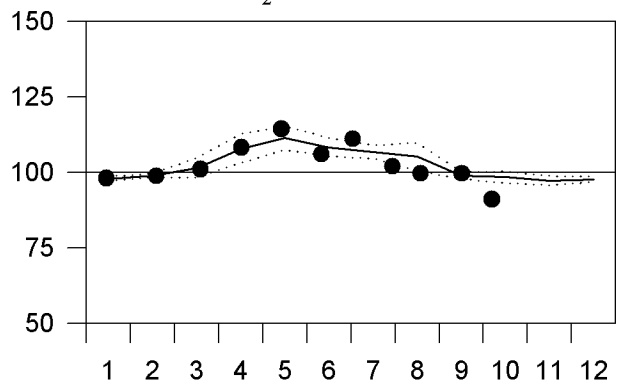
DIN µmol/l



SiO_3 µmol/l

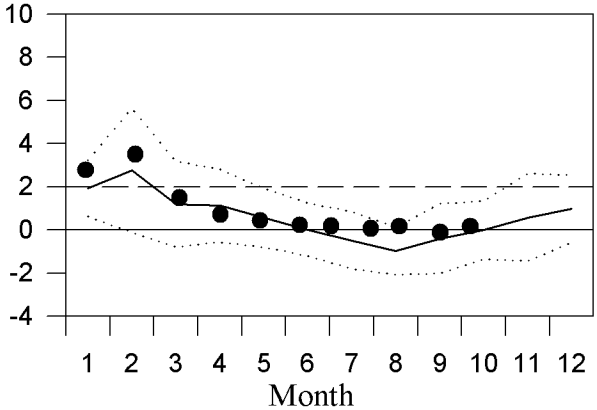


O_2 saturation %

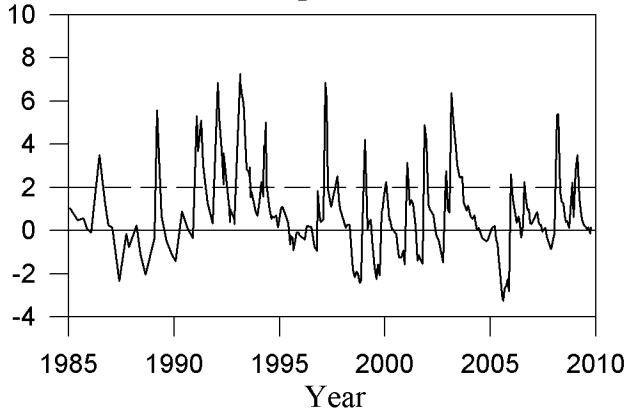


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

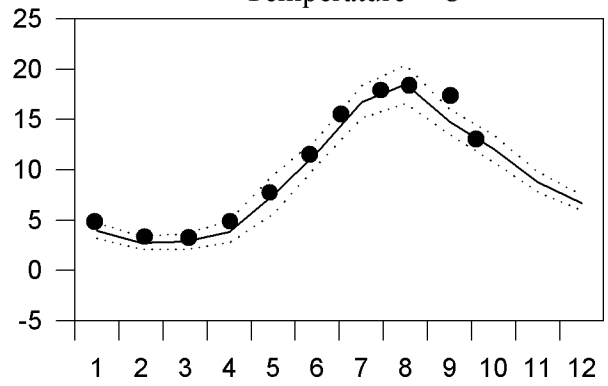


STATION BY5 SURFACE WATER

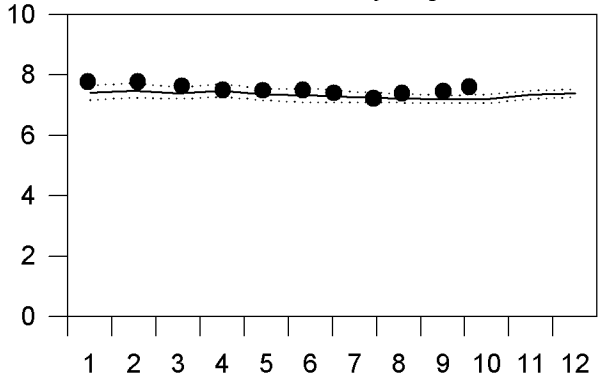
Annual Cycles

Mean 1995-2004 ····· St.Dev. ● 2009

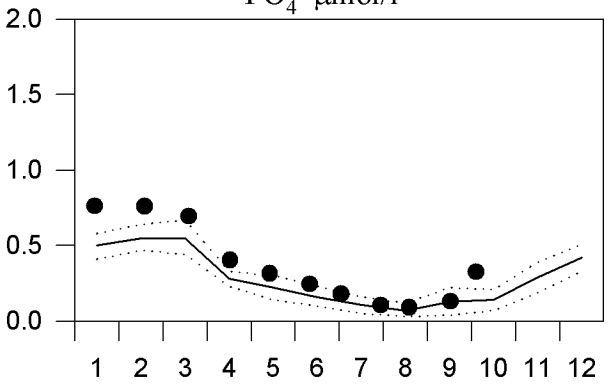
Temperature °C



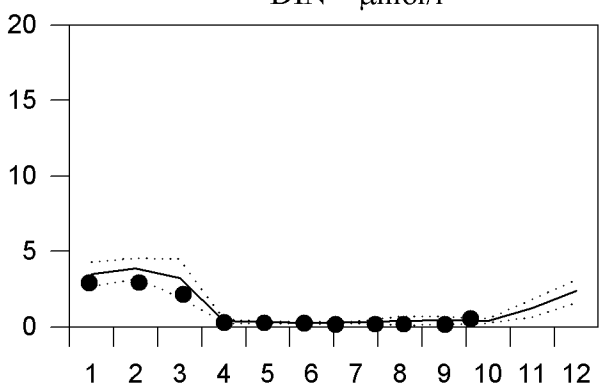
Salinity psu



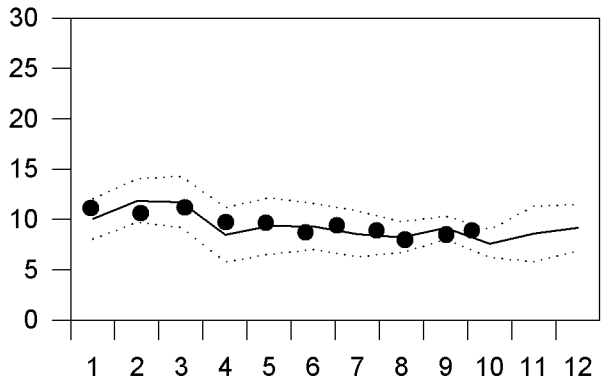
PO_4 µmol/l



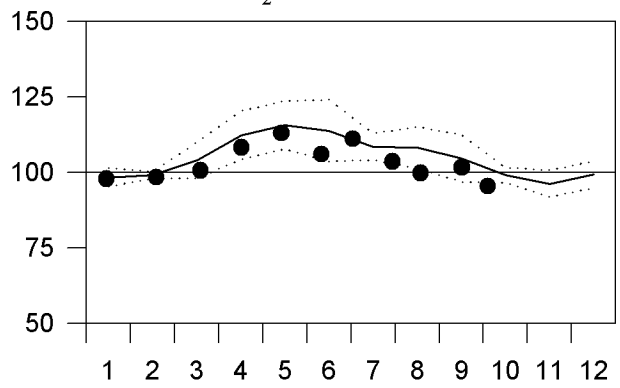
DIN µmol/l



SiO_3 µmol/l

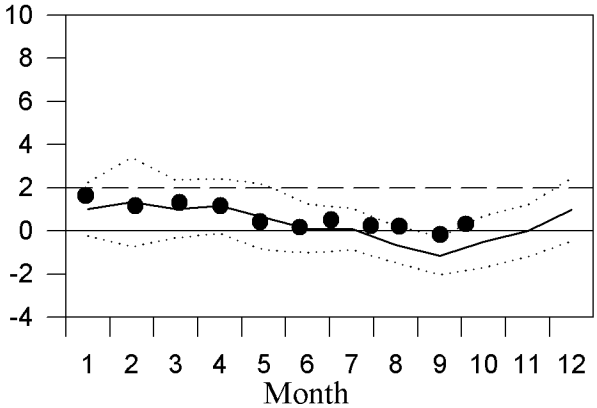


O_2 saturation %

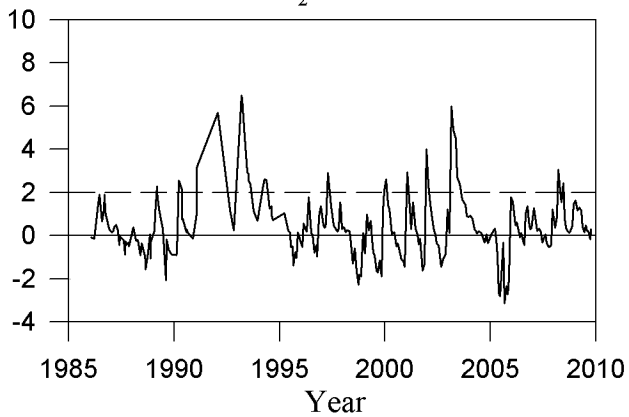


OXYGEN IN BOTTOM WATER

O_2 ml/l

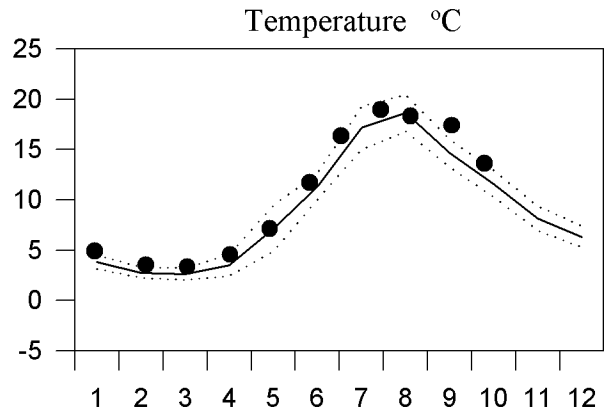


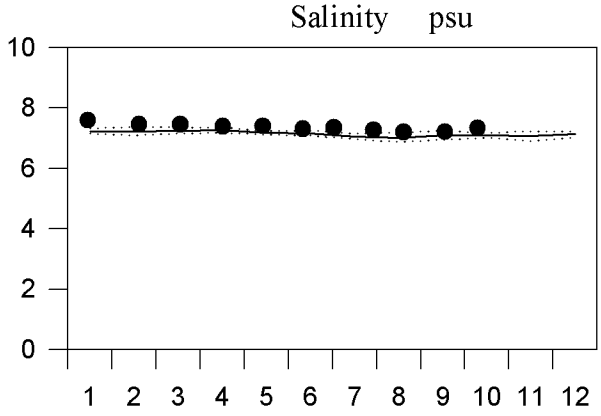
O_2 ml/l

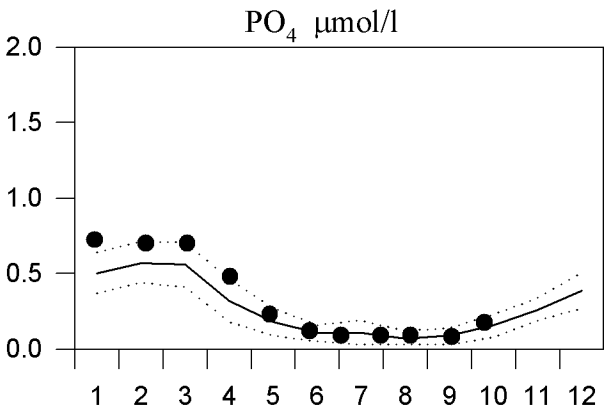


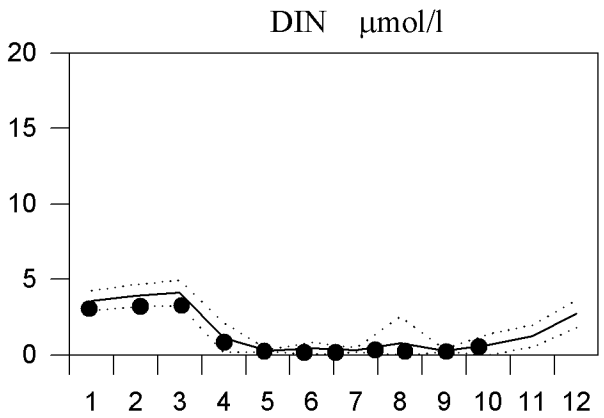
STATION BCS III-10 SURFACE WATER

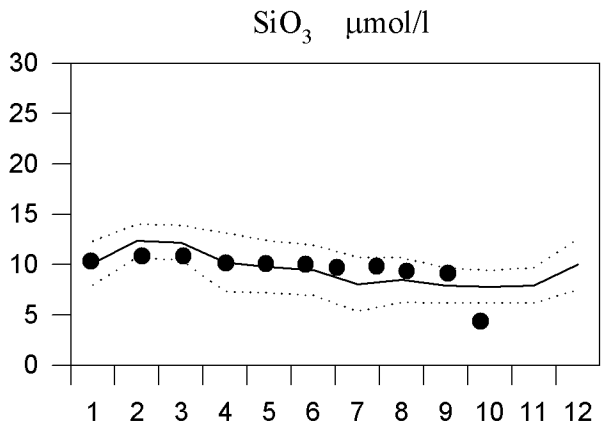
Annual Cycles

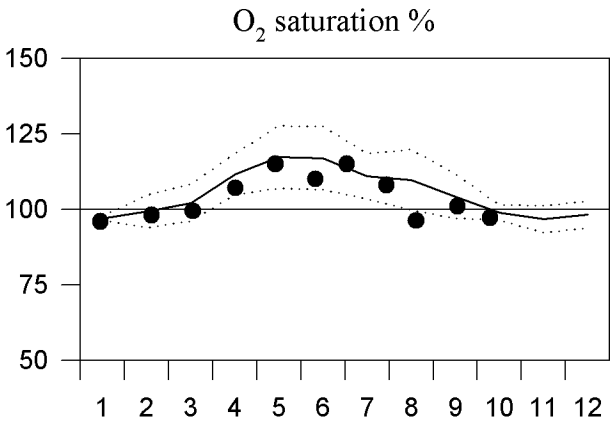




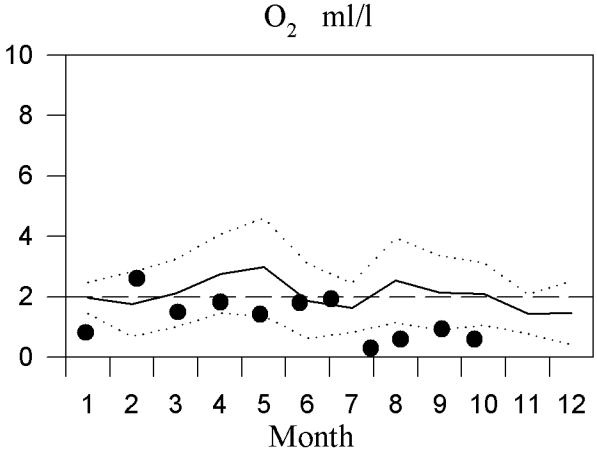


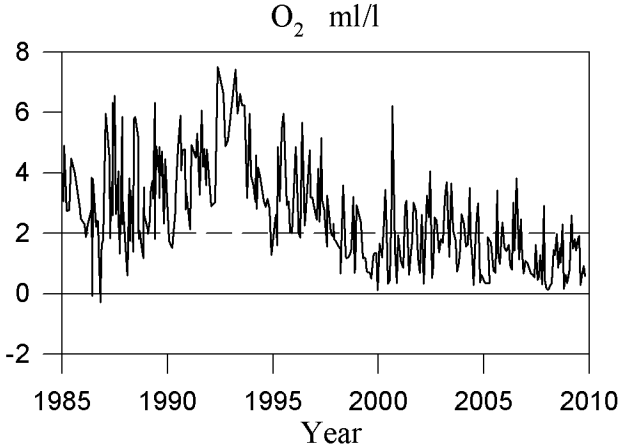






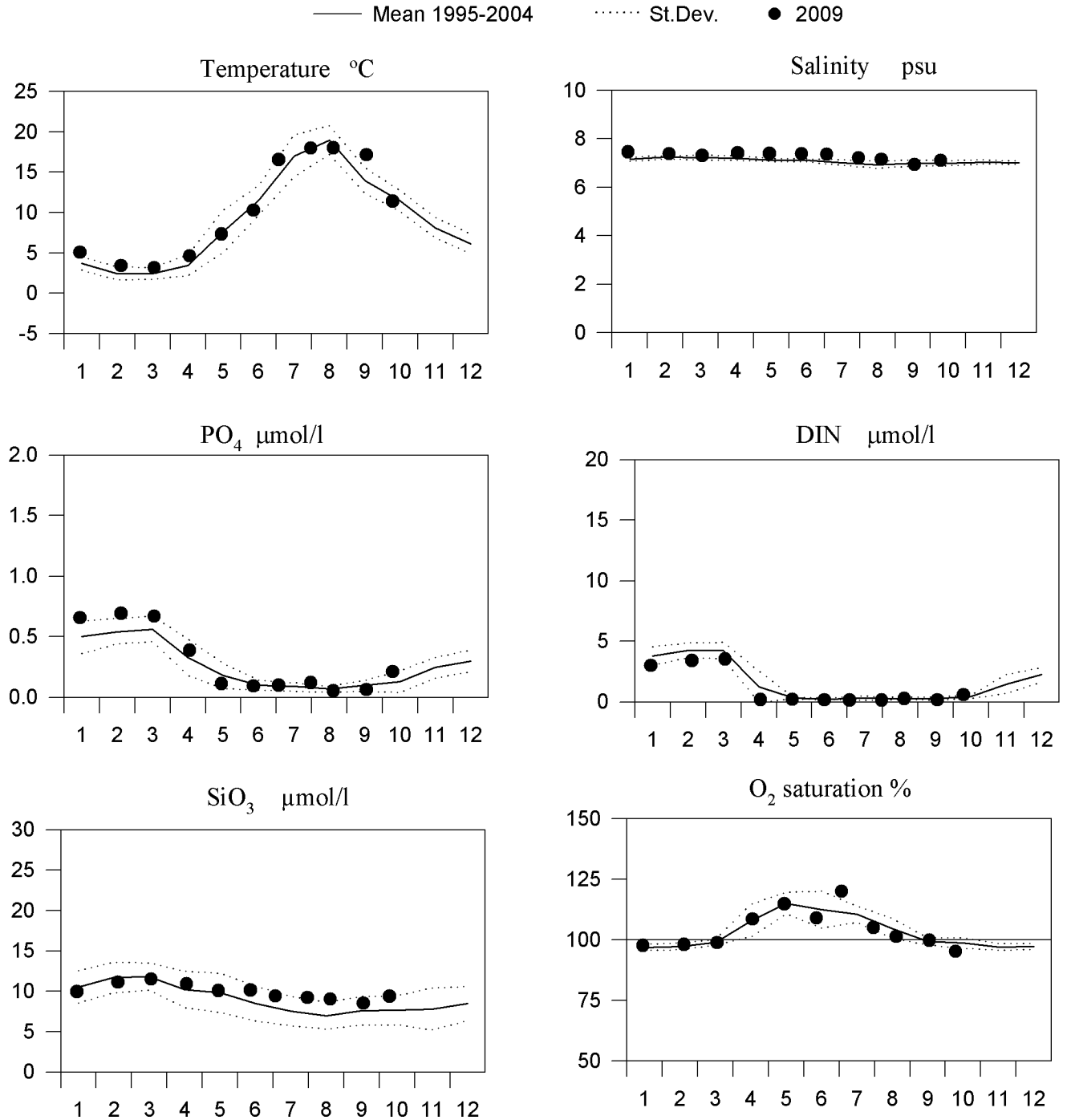
OXYGEN IN BOTTOM WATER



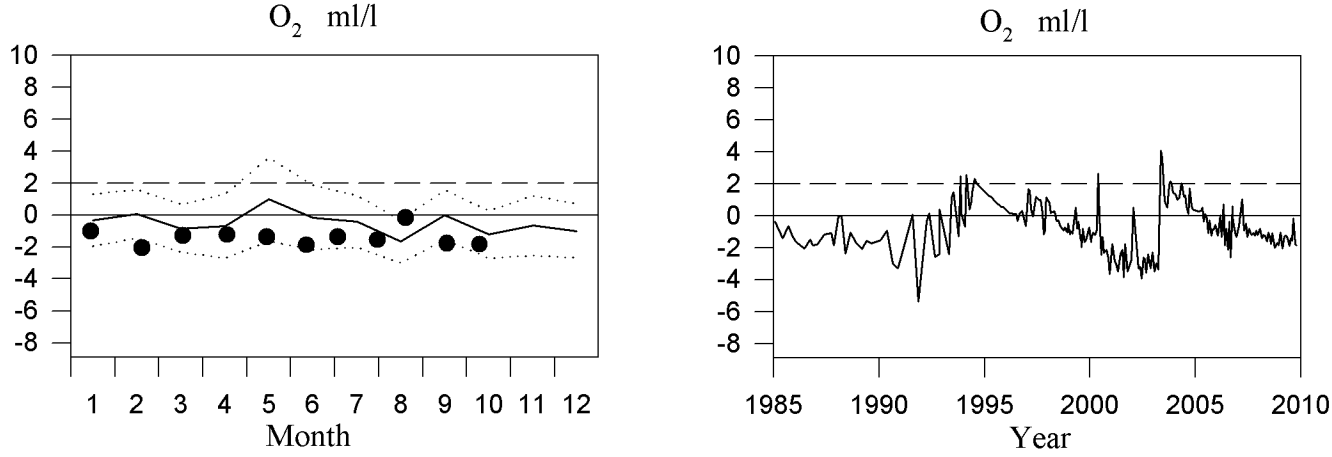


STATION BY10 SURFACE WATER

Annual Cycles



OXYGEN IN BOTTOM WATER

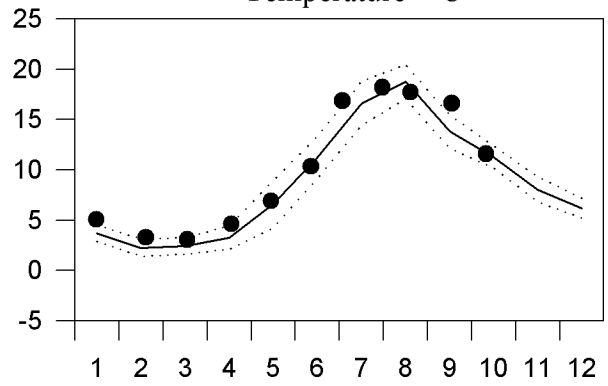


STATION BY15 SURFACE WATER

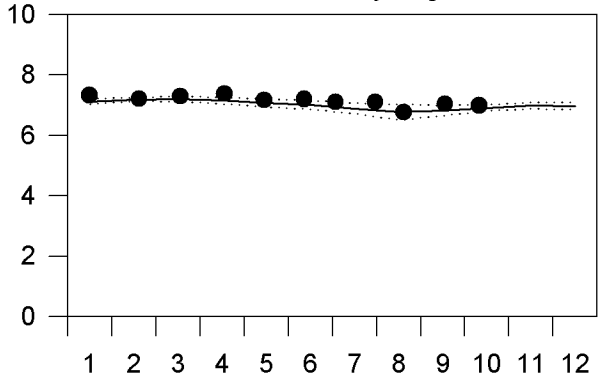
Annual Cycles

Mean 1995-2004 ····· St.Dev. ● 2009

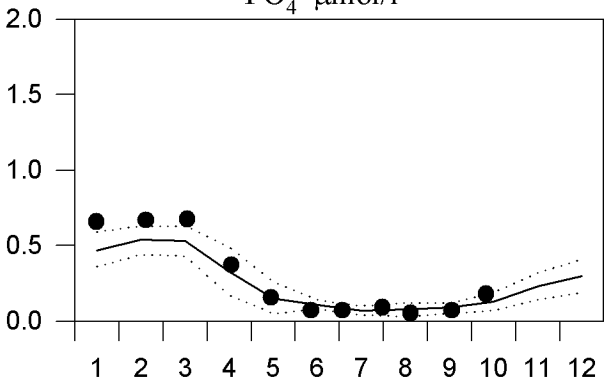
Temperature °C



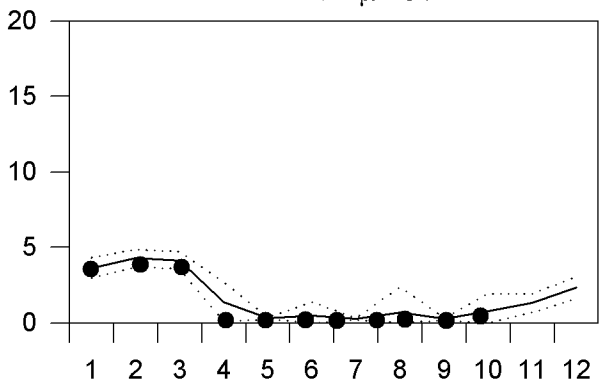
Salinity psu



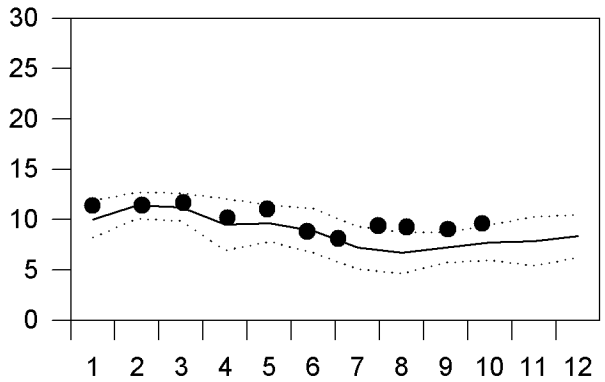
PO_4 µmol/l



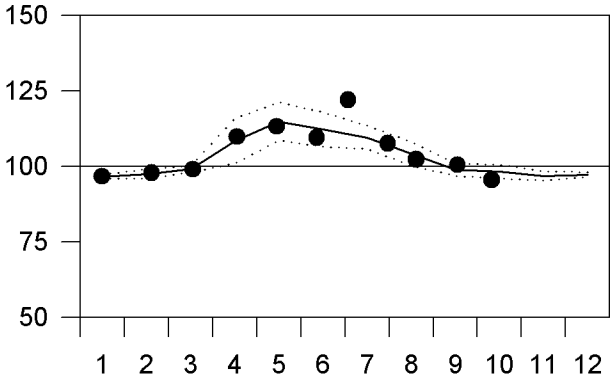
DIN µmol/l



SiO_3 µmol/l

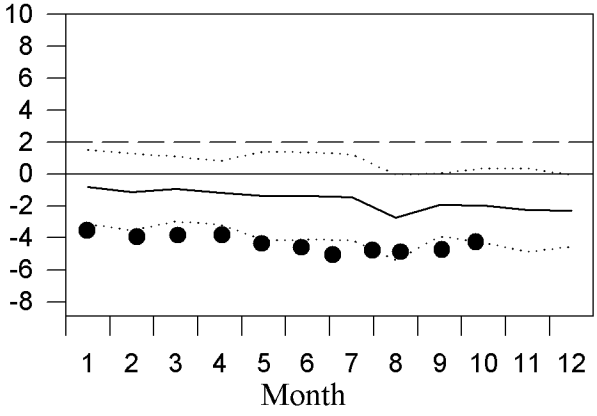


O_2 saturation %

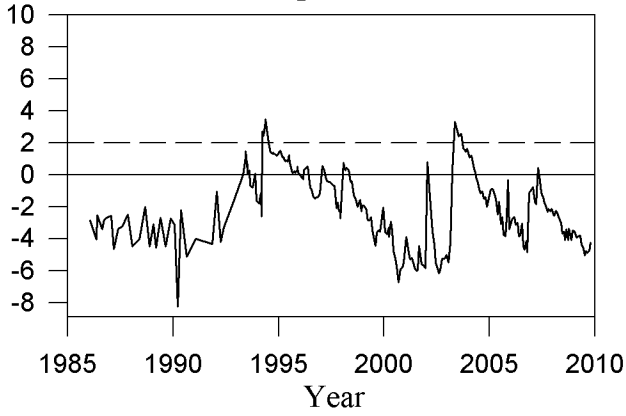


OXYGEN IN BOTTOM WATER

O_2 ml/l

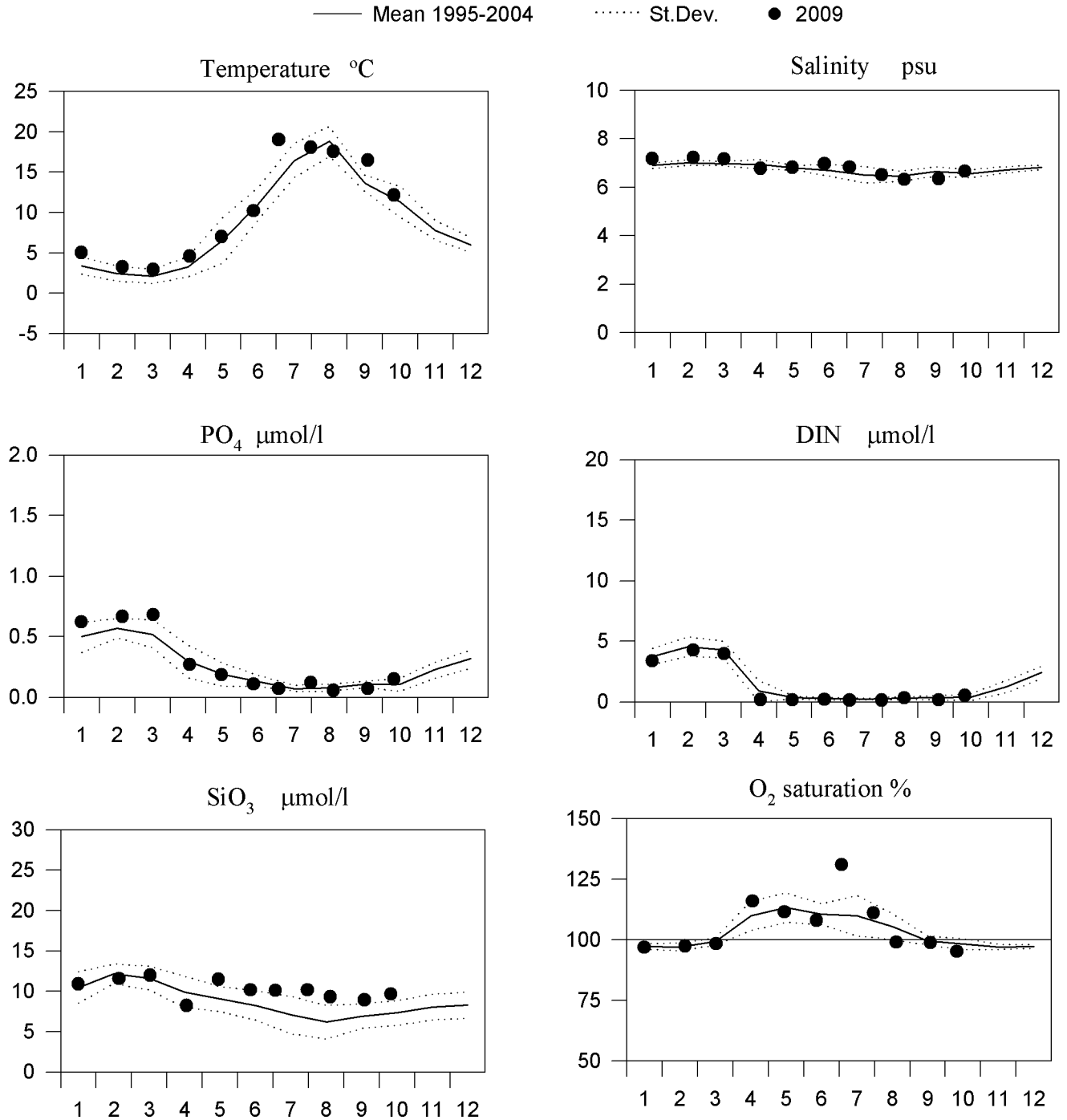


O_2 ml/l

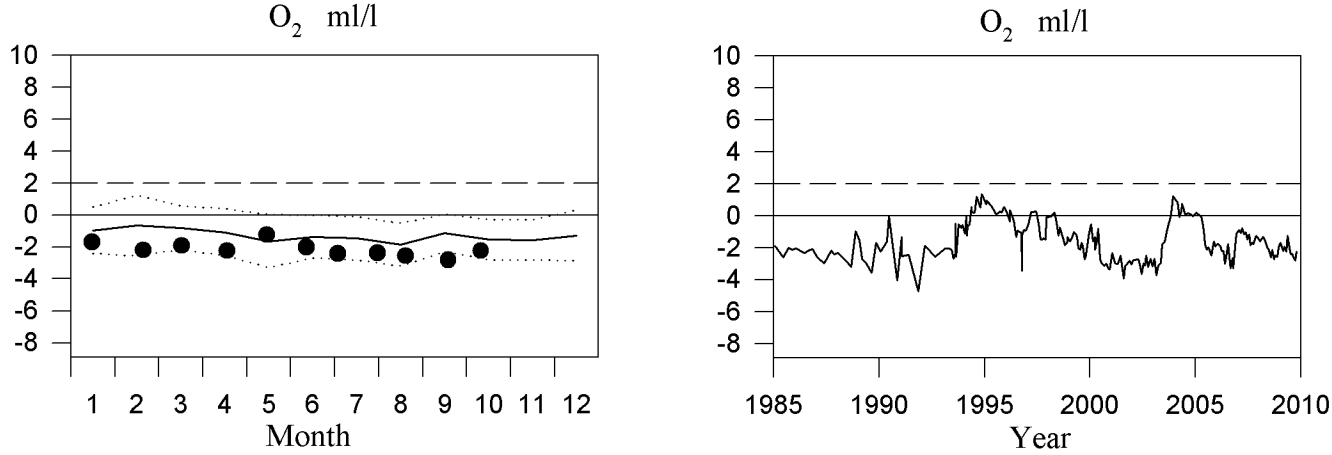


STATION BY20 SURFACE WATER

Annual Cycles

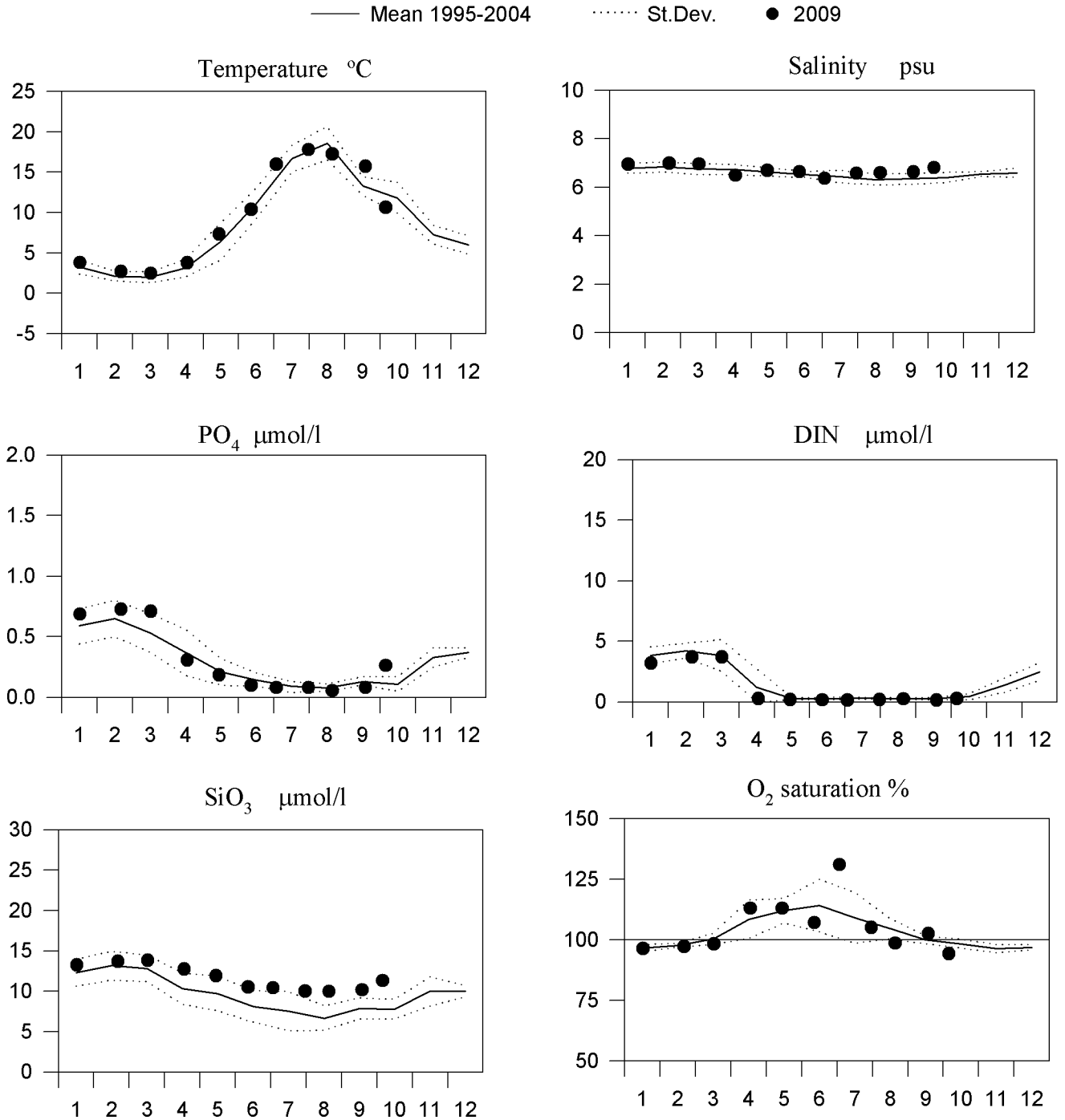


OXYGEN IN BOTTOM WATER

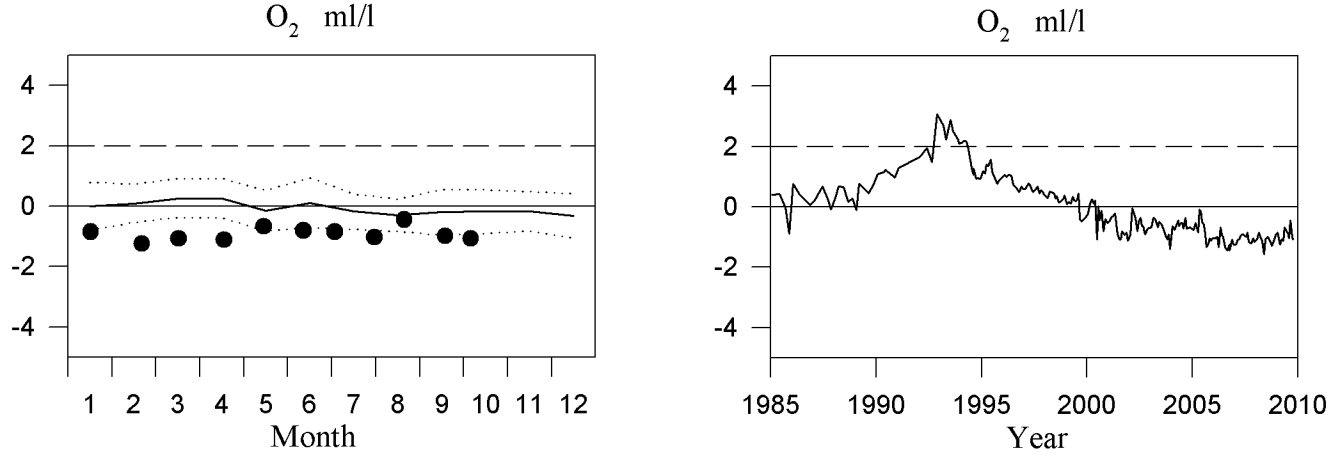


STATION BY32 SURFACE WATER

Annual Cycles



OXYGEN IN BOTTOM WATER

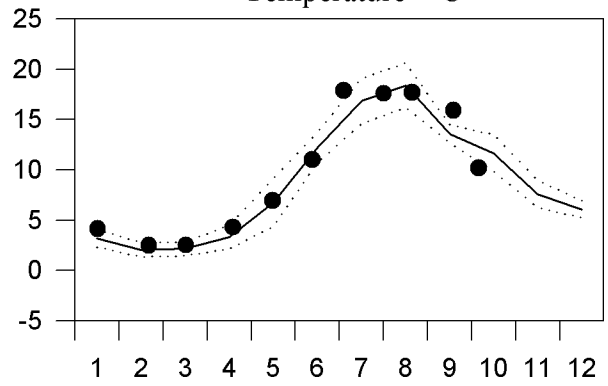


STATION BY38 SURFACE WATER

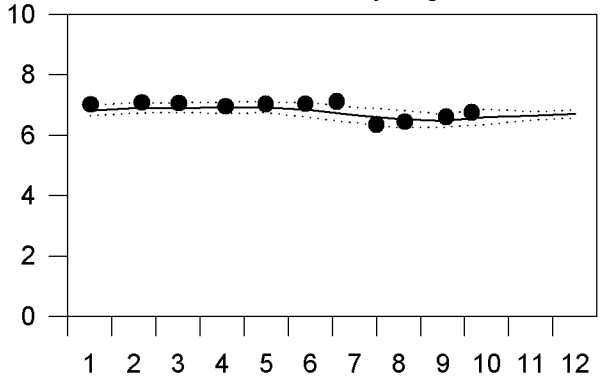
Annual Cycles

Mean 1995-2004 ····· St.Dev. ● 2009

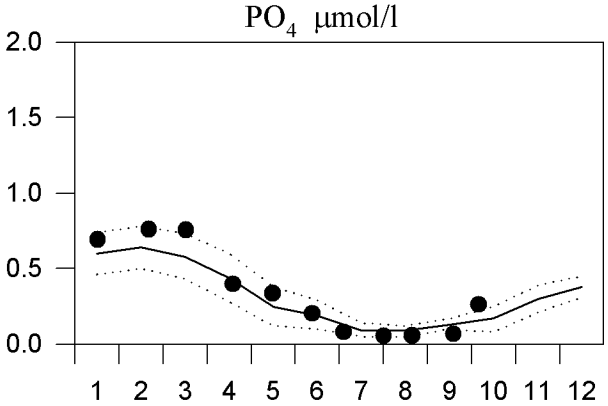
Temperature °C



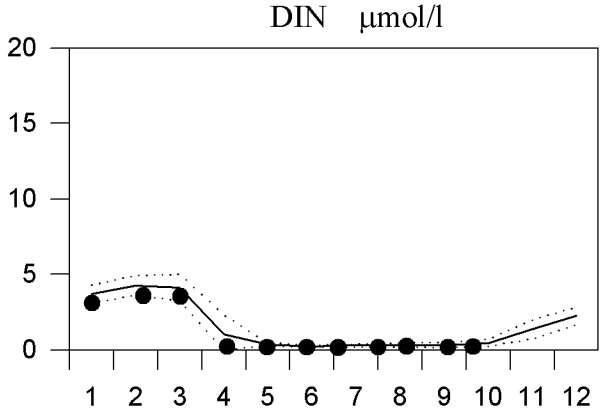
Salinity psu



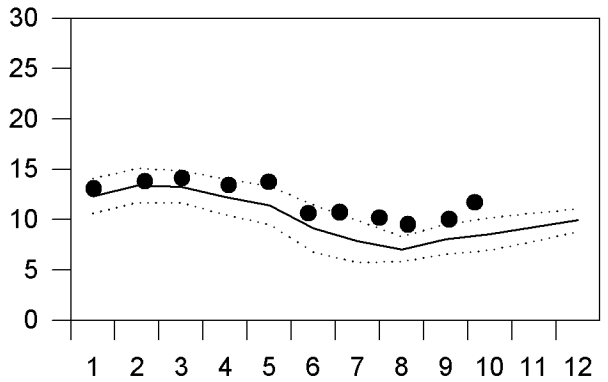
PO_4 µmol/l



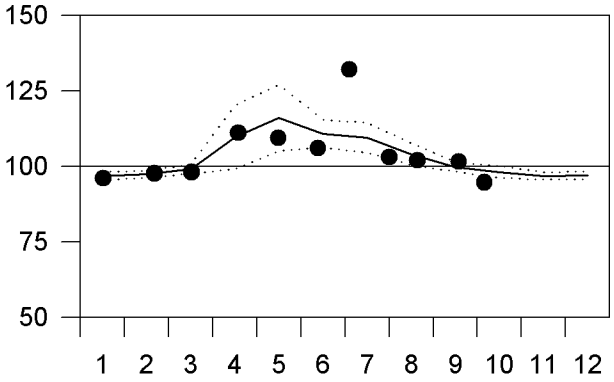
DIN µmol/l



SiO_3 µmol/l

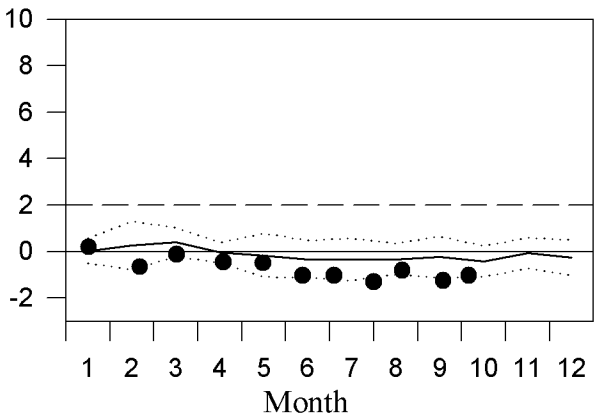


O_2 saturation %

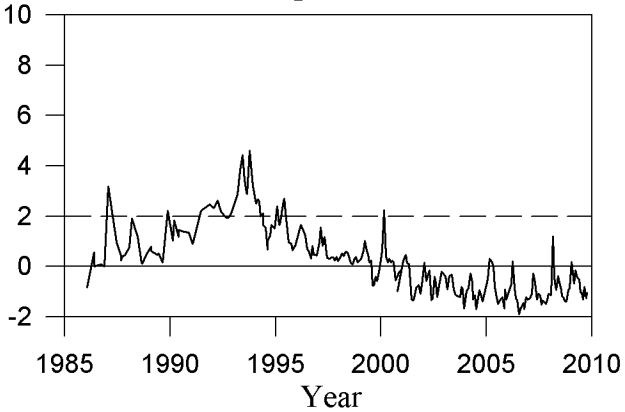


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

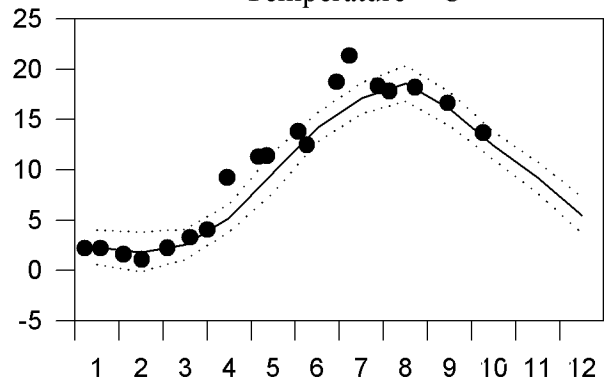


STATION SLÄGGÖ SURFACE WATER

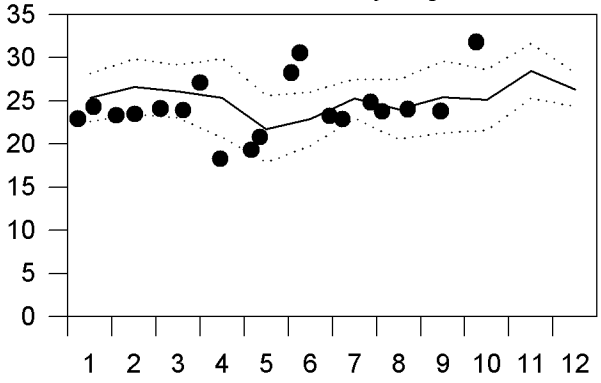
Annual Cycles

Mean 1995-2004 ····· St.Dev. ● 2009

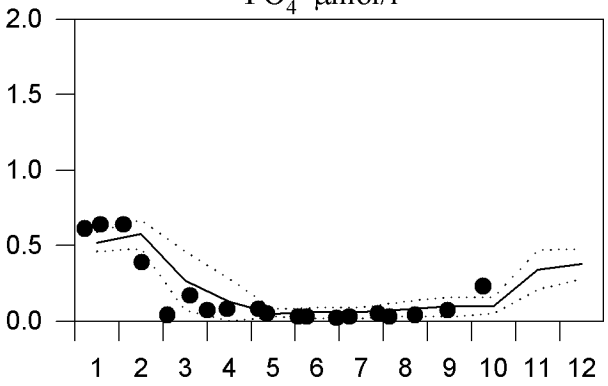
Temperature °C



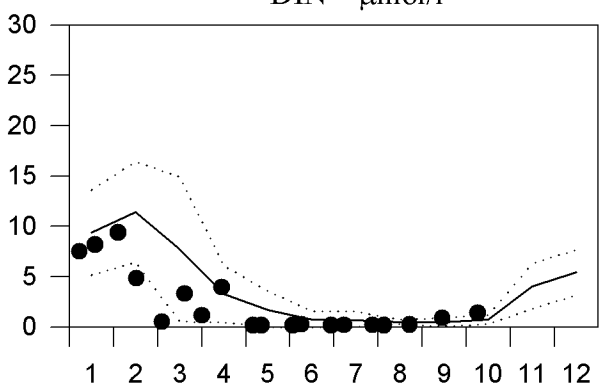
Salinity psu



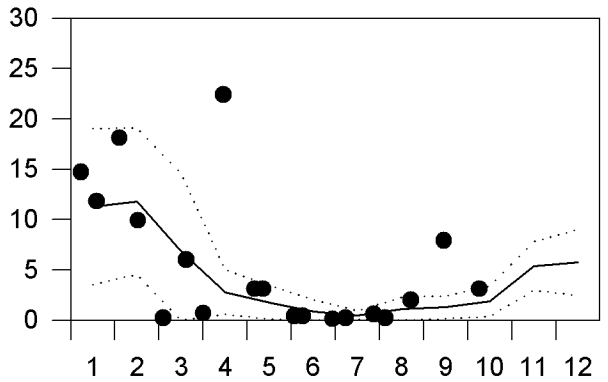
PO_4 µmol/l



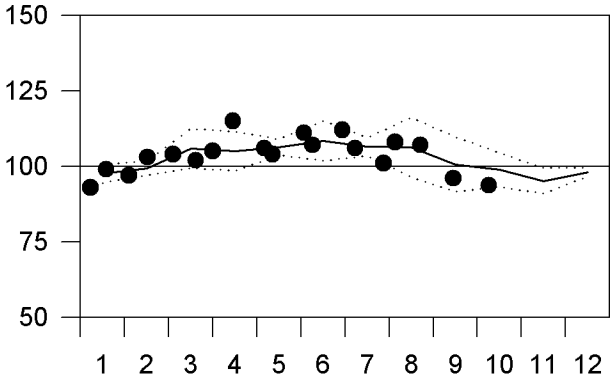
DIN µmol/l



SiO_3 µmol/l

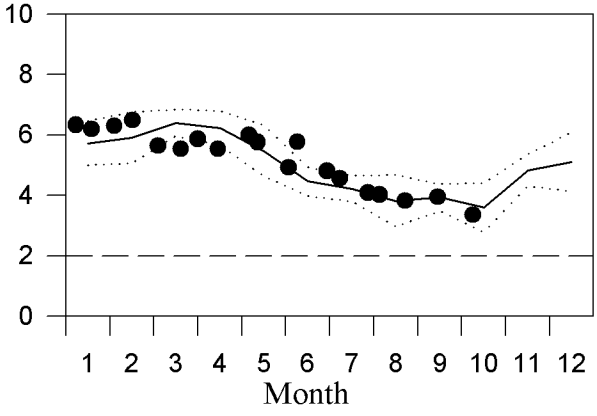


O_2 saturation %

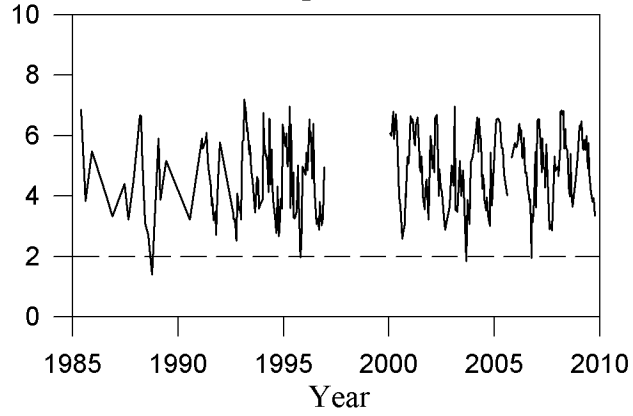


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

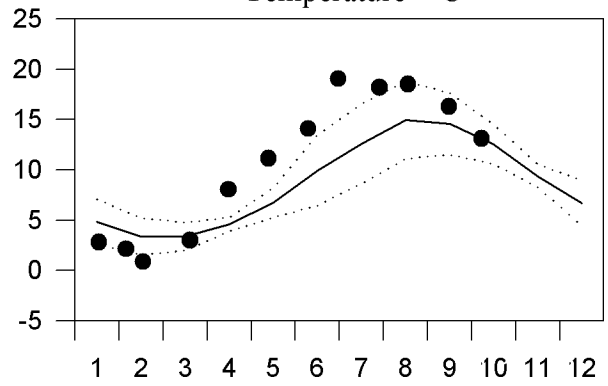


STATION N14 Falkenberg SURFACE WATER

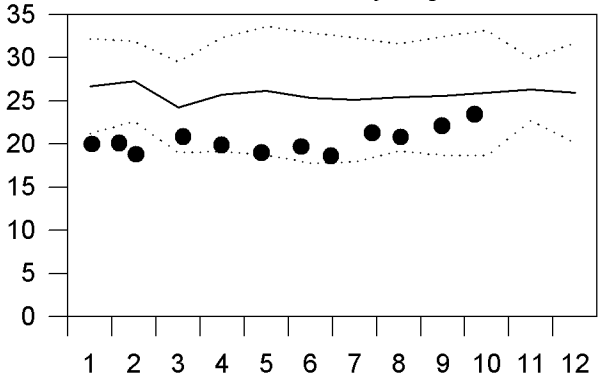
Mean 1995-2001 ····· St.Dev. **Annual Cycles** ● 2009

Mean and st.dev. based on data from other source than SMHI.

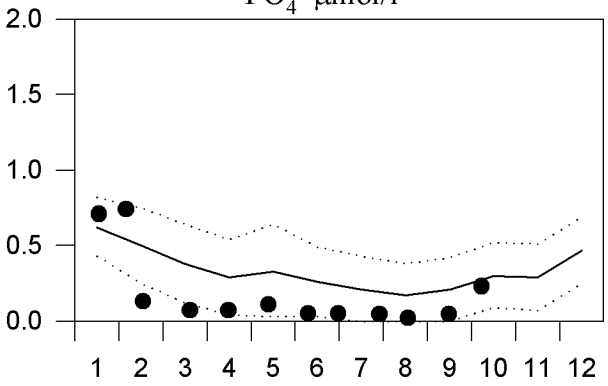
Temperature °C



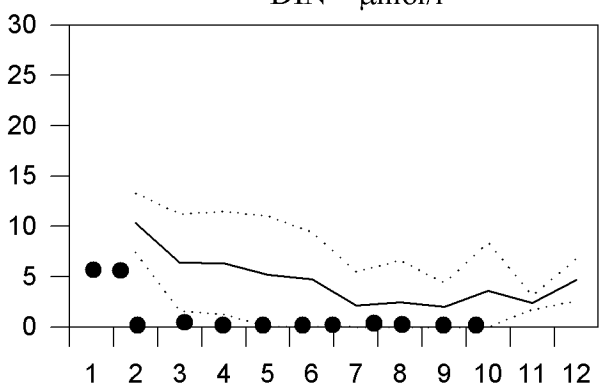
Salinity psu



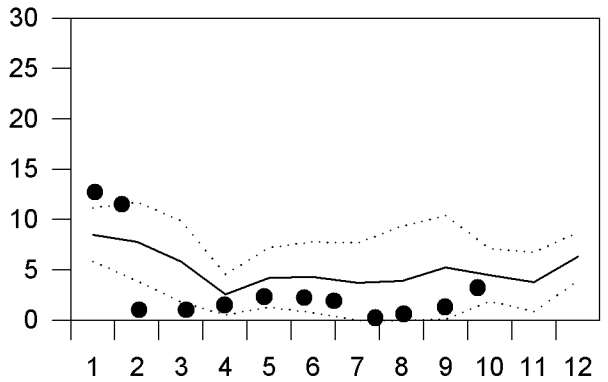
PO_4 µmol/l



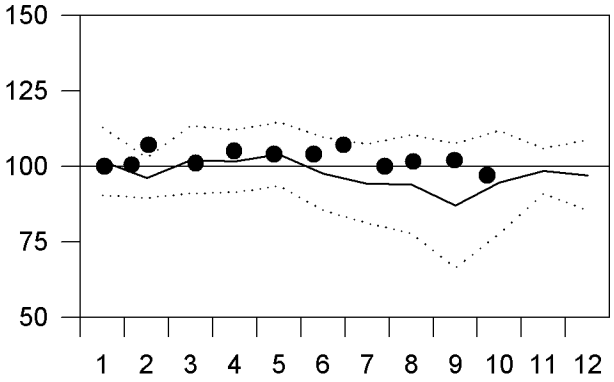
DIN µmol/l



SiO_3 µmol/l

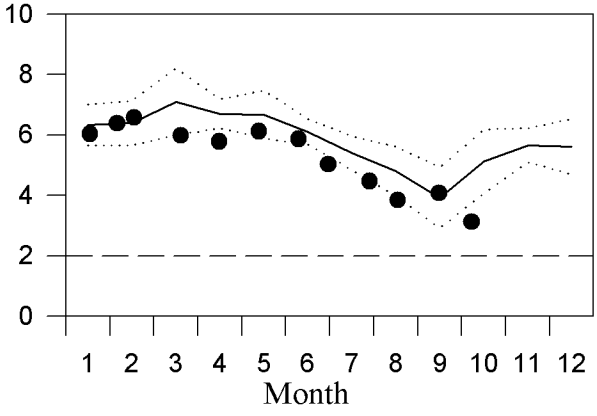


O_2 saturation %

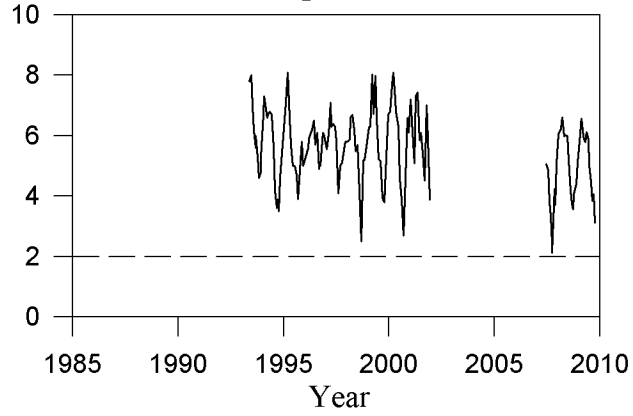


OXYGEN IN BOTTOM WATER

O_2 ml/l



O_2 ml/l

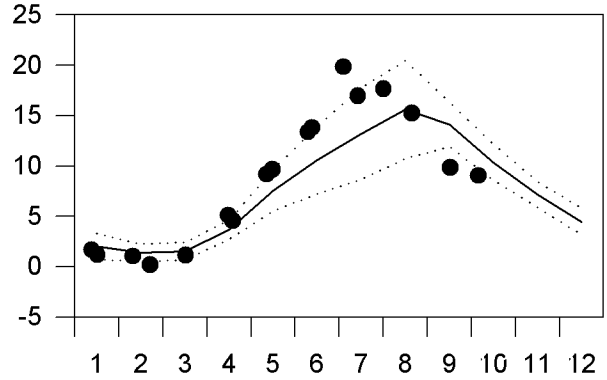


STATION REF M1V1 SURFACE WATER

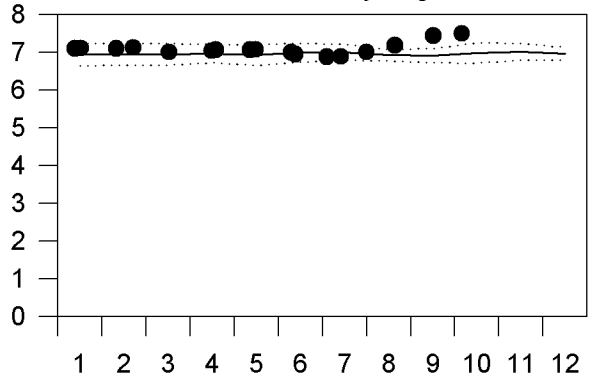
Annual Cycles

Mean 1995-2004 ····· St.Dev. ● 2009

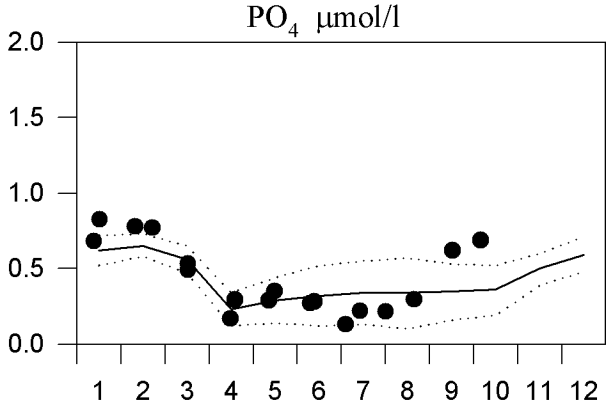
Temperature °C



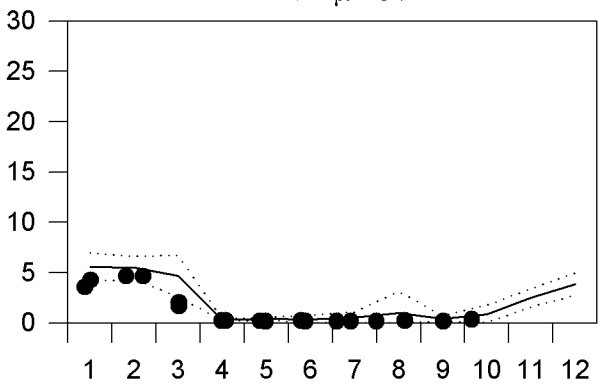
Salinity psu



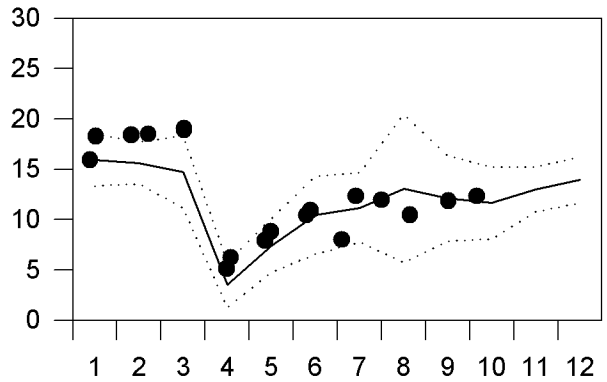
PO_4 µmol/l



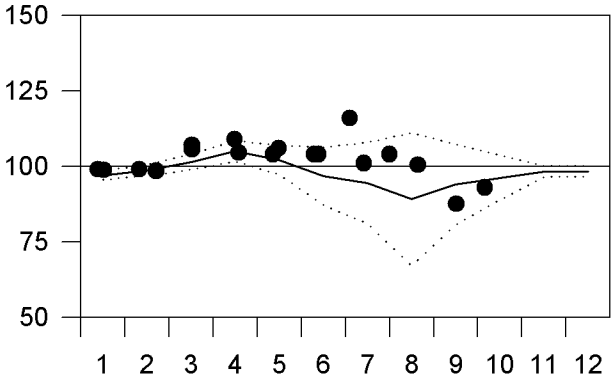
DIN µmol/l



SiO_3 µmol/l

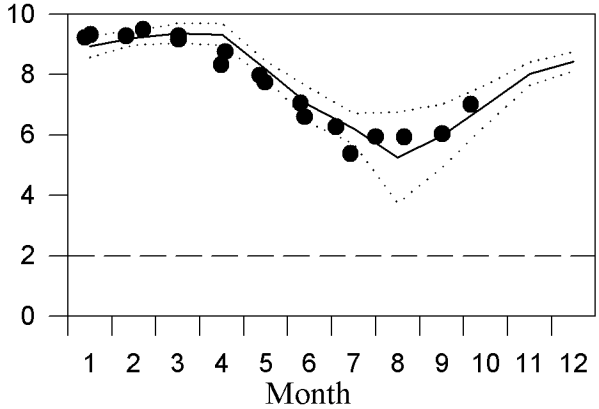


O_2 saturation %

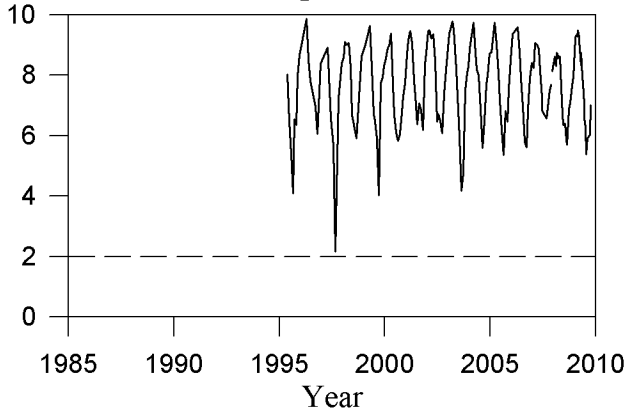


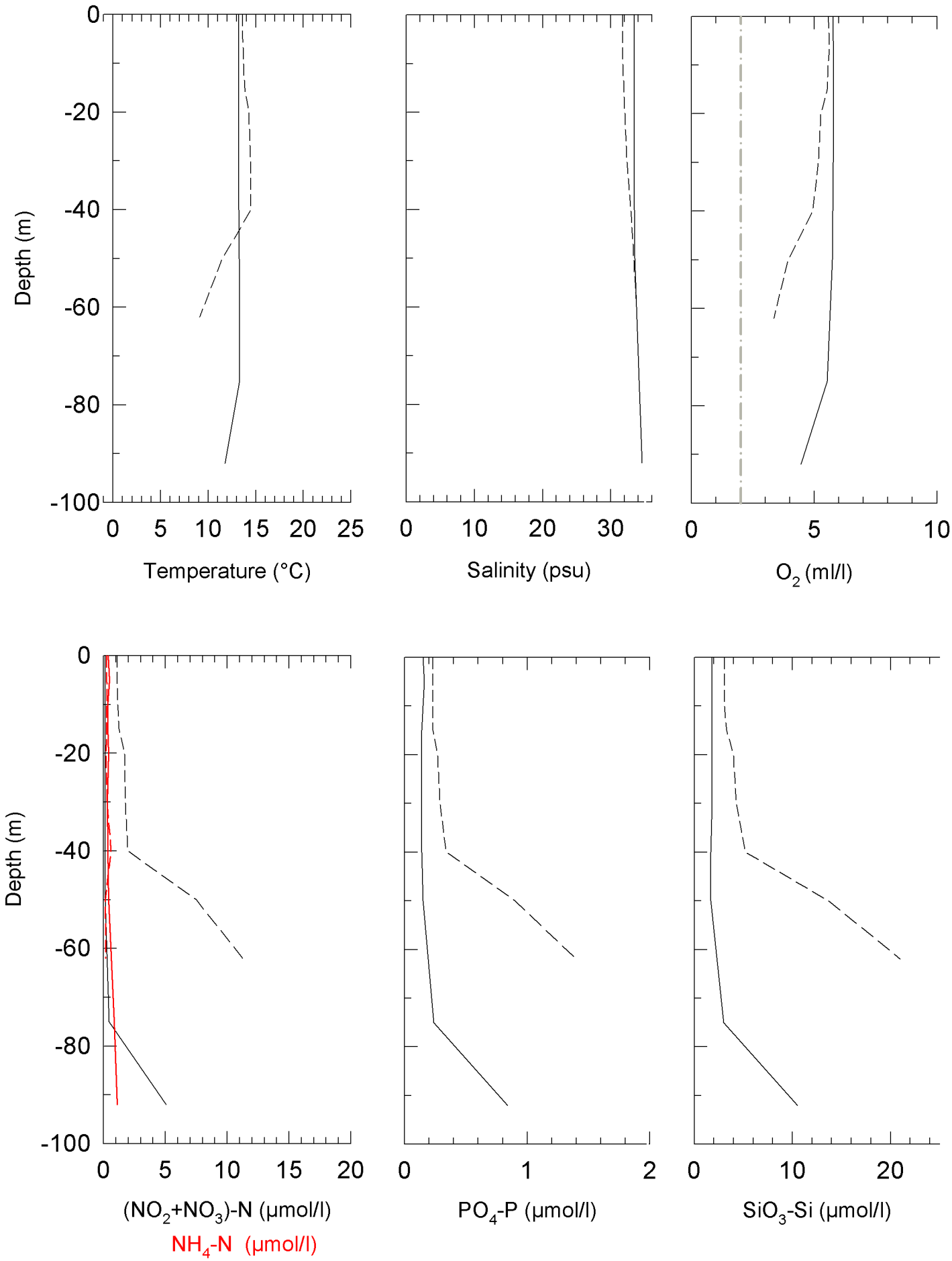
OXYGEN IN BOTTOM WATER

O_2 ml/l



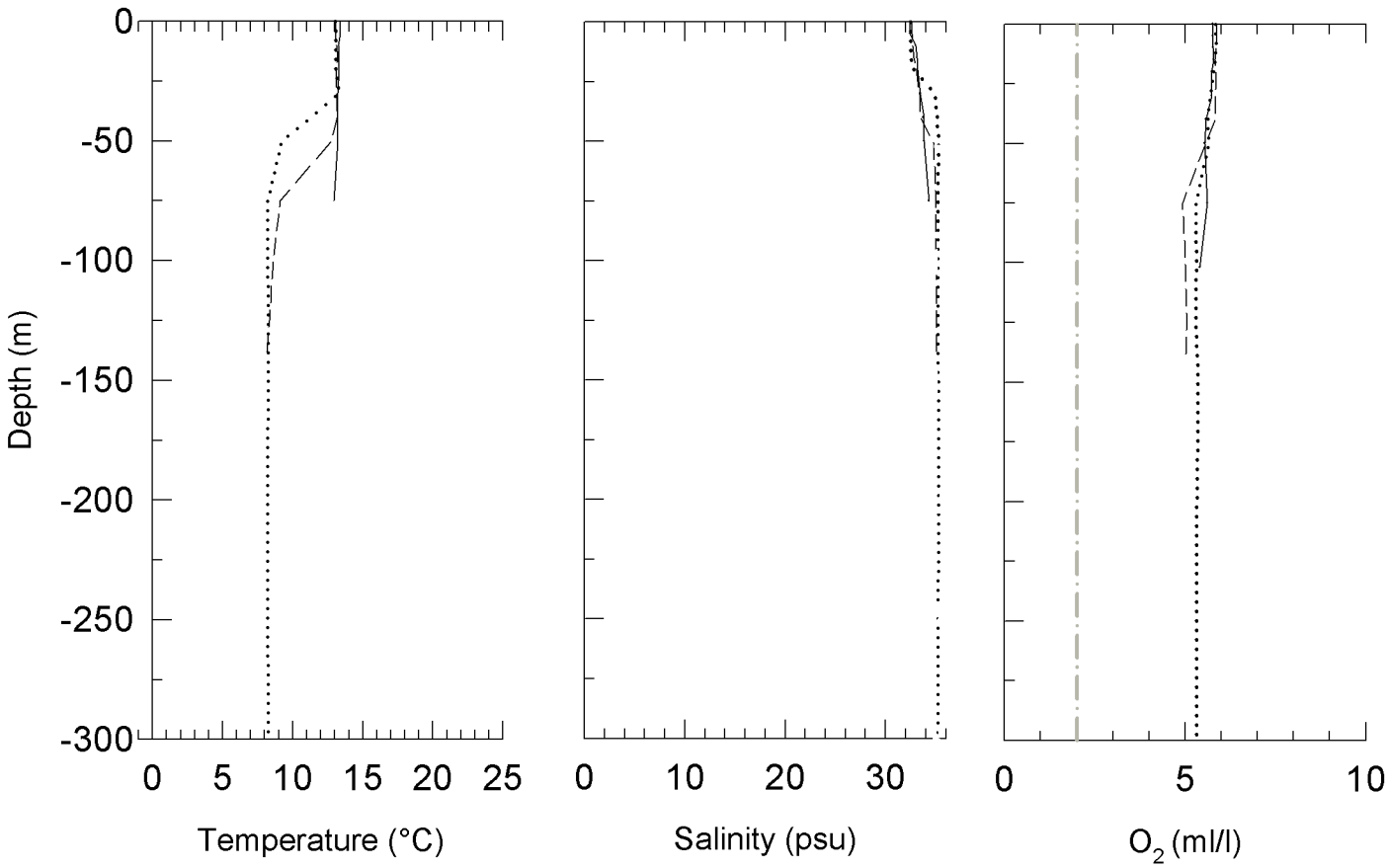
O_2 ml/l

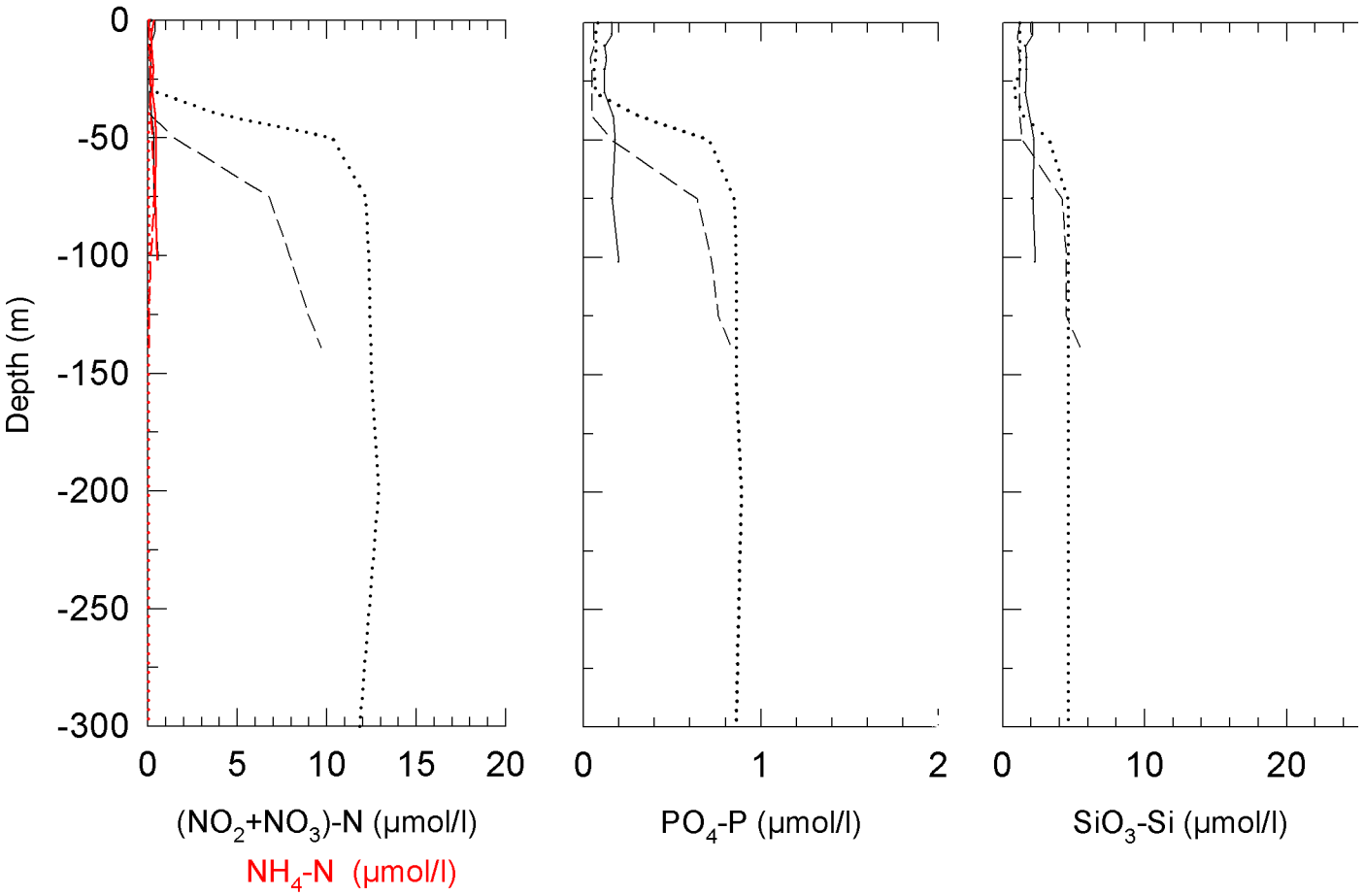


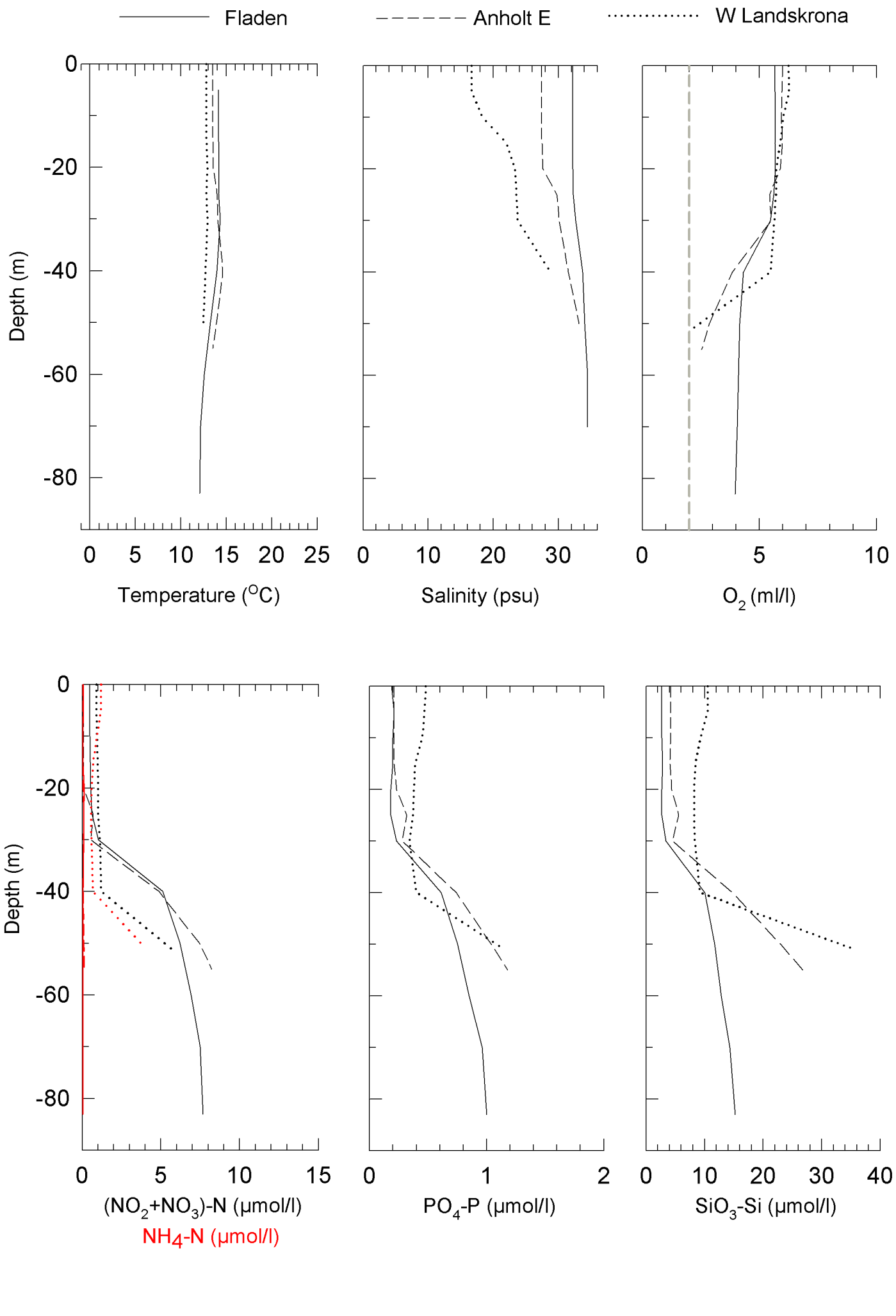

SKAGERRAK Coast 20091007-20091008
P2
Släggö
Depth (m)
0
-20
-40
-60
-80
-100
0 5 10 15 20 25
Temperature (°C)
0 10 20 30
Salinity (psu)
0 5 10
O2 (ml/l)
0 5 10 15 20
(NO2+NO3)-N (µmol/l)
NH4-N (µmol/l)
0 1 2
PO4-P (µmol/l)
0 10 20
SiO3-Si (µmol/l)

SKAGERRAK Å-Section 20091007-20091008

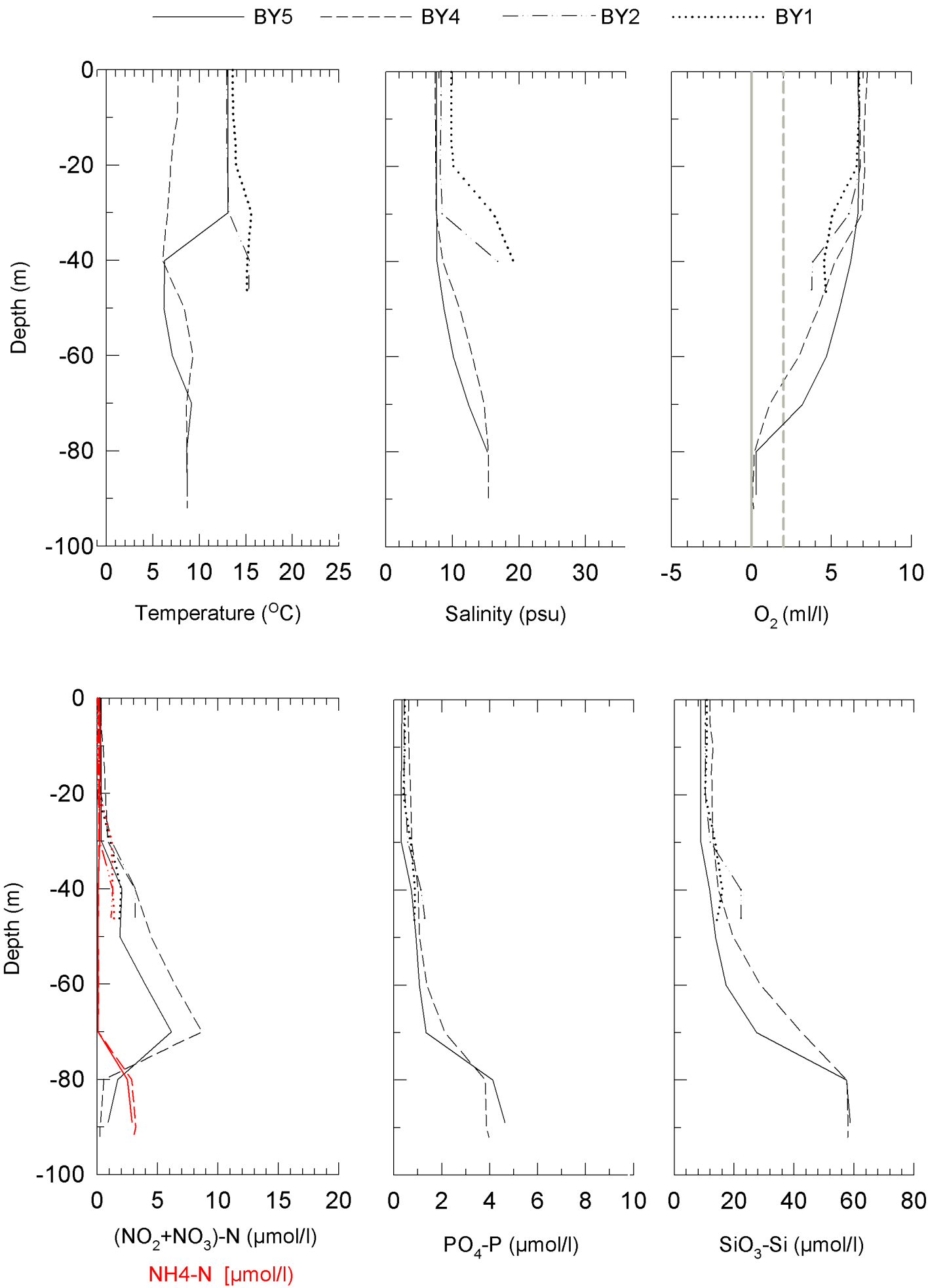
Å13 Å15 Å17

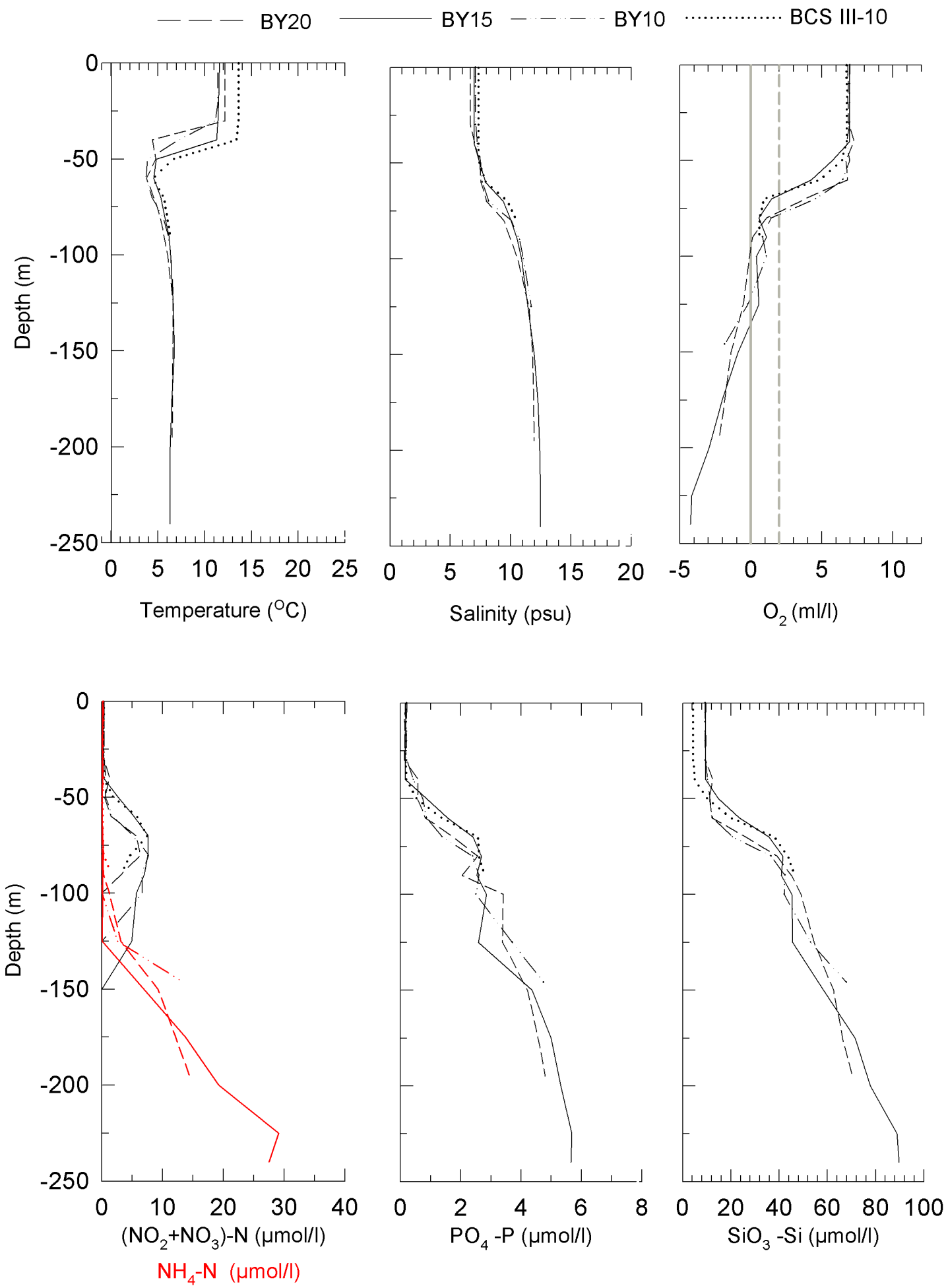


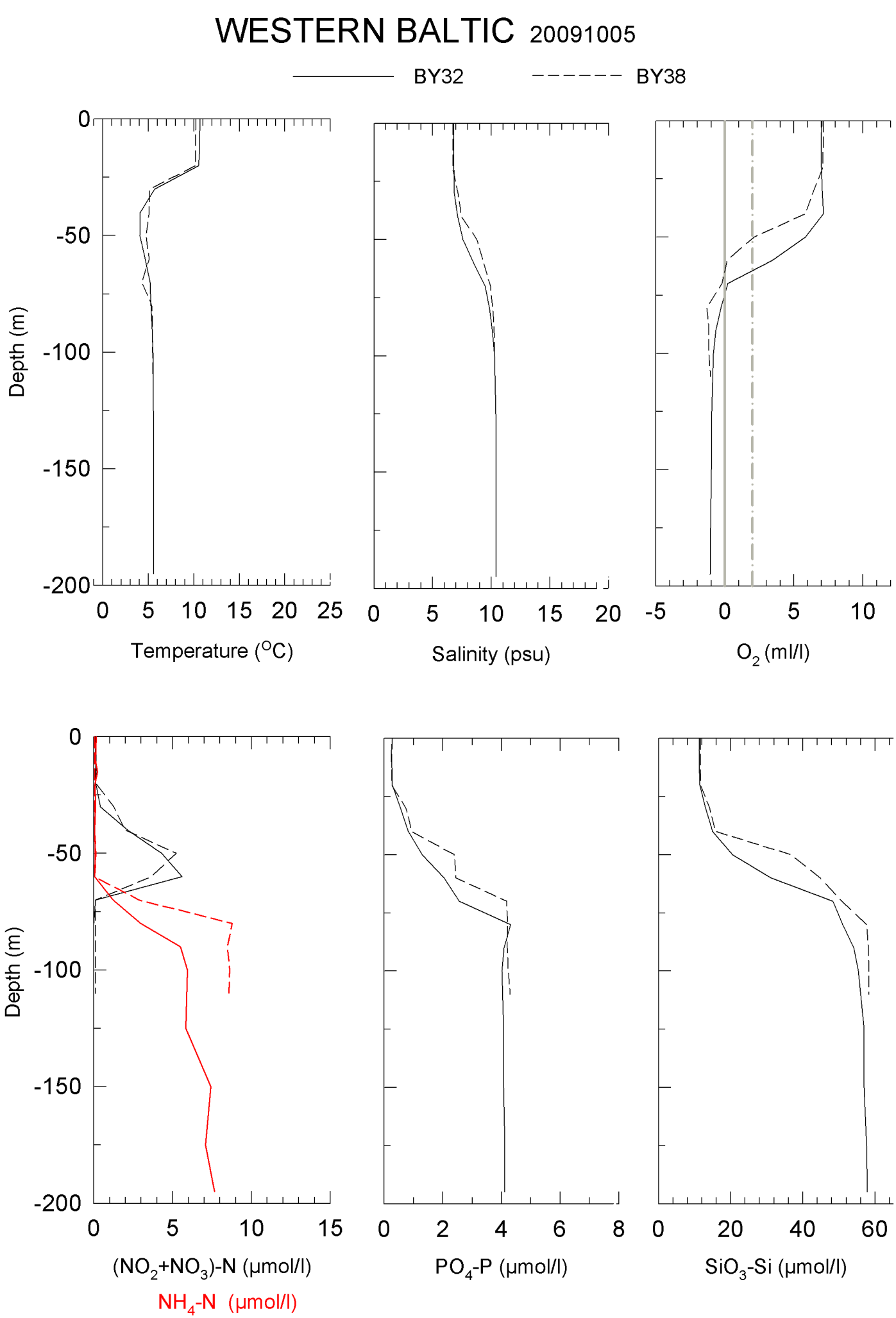



KATTEGAT and THE SOUND 20091007
Fladen
Anholt E
W Landskrona
Depth (m)
0
-20
-40
-60
-80
0 5 10 15 20 25
Temperature (°C)
0 10 20 30
Salinity (psu)
0 5 10
O2 (ml/l)
0 5 10 15
(NO2+NO3)-N (µmol/l)
NH4-N (µmol/l)
0 1 2
PO4-P (µmol/l)
0 10 20 30 40
SiO3-Si (µmol/l)

SOUTHERN BALTIC 20091006




EASTERN BALTIC 20091009-20091010
BY20
BY15
BY10
BCS III-10
Depth (m)
0
-50
-100
-150
-200
-250
0 5 10 15 20 25
Temperature (°C)
0 5 10 15 20
Salinity (psu)
-5 0 5 10
O2 (ml/l)
0 10 20 30 40
(NO2+NO3)-N (µmol/l)
NH4-N (µmol/l)
0 2 4 6 8
PO4 -P (µmol/l)
0 20 40 60 80 100
SiO3 -Si (µmol/l)


WESTERN BALTIC 20091005
BY32
BY38
Depth (m)
0
-50
-100
-150
-200
0 5 10 15 20 25
Temperature (°C)
0 5 10 15 20
Salinity (psu)
-5 0 5 10
O2 (ml/l)
0 5 10 15
(NO2+NO3)-N (µmol/l)
NH4-N (µmol/l)
0 2 4 6 8
PO4-P (µmol/l)
0 20 40 60
SiO3-Si (µmol/l)