

Report from SMHI's monitoring cruise with R/V Svea



Survey period: 2024-02-06 till 2024-02-13

Principal: Swedish Meteorological and Hydrological Institute (SMHI),
Swedish Agency for Marine and Water Management (SwAM)

Cooperation partners: Swedish University of Agricultural Sciences (SLU),
Swedish Maritime Administration (SMA)

SUMMARY

During the expedition, as part of the Swedish pelagic monitoring program, the Skagerrak, the Kattegat, the Sound and the Baltic Proper were visited. In the Baltic Proper extra stations were visited for the mapping of winter nutrients.

The temperature in the surface water was normal to slightly above normal and ranged from 2–3 °C in the Baltic Sea to 3–6 °C in the Skagerrak and Kattegat.

In Skagerrak, the concentration of dissolved inorganic nutrients had increased in the surface water and were normal for the month. Similarly, in Kattegat, nutrient levels were normal, but the concentration of DIN (dissolved inorganic nitrogen) had increased since January, while silicate had decreased and phosphate levels remained roughly the same. In the Baltic Proper, the concentration of nutrients had increased at most stations since January. The concentration of DIN was normal, and silicate was above normal throughout the Baltic Proper. The concentration of phosphate was normal in the Arkona, Bornholm, and Western Gotland Basins and above normal in the Eastern Gotland Basin and northern Baltic Proper.

The oxygen situation was good at all stations in Skagerrak, Kattegat, and the Sound; no oxygen deficiency was noted.

In the Arkona Basin, the oxygen situation was good in the bottom water, and the oxygen concentration had increased slightly since January. The inflow that occurred at the end of December 2023 could now be seen on its way through the Bornholm Basin; at stations BY4 and Hanö Bay, the oxygen concentration had decreased since January, but at BY5, there was instead a significant increase in oxygen in the bottom water compared to January. At BY5, the oxygen concentration just above the bottom was just below the oxygen deficiency limit (<4 ml/l), but above that, there was still a layer of acute oxygen deficiency (<2 ml/l). In the Eastern Gotland Basin there were anoxic conditions, hydrogen sulphide was measured from 70 m, with acute oxygen deficiency from 60 m. In the northern Baltic Proper, there were anoxic conditions from 90 m and acute oxygen deficiency from 80 m. In the Western Gotland Basin, the depth levels for anoxic conditions and acute oxygen deficiency varied from 125 and 90 m at BY31 to 70 and 60 m at BY38, respectively.

SMHI's next regular expedition with R/V Svea is scheduled for March 8th to 13th, starting in Kalmar and ending in Lysekil.

RESULT

The expedition was carried out on board the R/V Svea, starting in Lysekil on February 6th and ending in Västervik on February 13th. The weather during the expedition was cloudy with initially light winds from varying directions, increasing winds from the east for a couple of days in the southern and eastern Baltic Sea. The air temperature ranged between -2 and +2 °C throughout the week.

Almost all planned stations were sampled, 44 out of the planned 46 stations. Four additional stations with CTD measurements were conducted around Bornholm to record the inflow that occurred in December 2023. The annual winter nutrient mapping in the Baltic Proper was carried out.

Svea's underway profiling instrument, MVP, was operated at a couple of transects in the southern Baltic Sea and one station in the Western Gotland Basin. Additionally, the Ferrybox system and ADCP were continuously operated throughout the expedition.

The MVP system that was lost in the Kattegat in December was recovered during this expedition.

This report is based on data that has undergone initial quality control and is compared to monthly means from the period 1991 - 2020. When additional quality control has been performed, certain values may change. Values in the report have been rounded and can differ a bit from values published in the data base. Data from this cruise are published as soon as possible on the data host's website, this usually takes place within a week after the cruise has ended. Some analyses are made after the cruise and are published later.

Data can be downloaded here:

<https://www.smhi.se/en/services/open-data/national-archive-for-oceanographic-data/download-data-1.153150>

Skagerrak

The temperature in the surface water was normal to slightly above normal for the season, ranging from 4 to 6 °C. The salinity in the surface water varied between 31–33 psu and was normal along the Å-transect, slightly above normal closer to the coast at Släggö, and also at station P2. At stations Å17 to Å15, the surface was well mixed down to 30–40 metres where the thermocline and halocline coincided. Closer to the coast, this stratification occurred nearer to the surface, around 5–10 metres, and at P2, there was a stratification at 5 metres followed by a well-mixed layer down to 20 metres. At Å17, furthest out in the Å-transect, the temperature increased down to 100 metres, below which there was a layer of colder water that then became warmer again at 200 metres.

Stations Å17 and Å15 were not sampled in January, but at the other stations in Skagerrak, the concentration of dissolved inorganic nutrients in surface water had increased in February compared to the previous sampling occasion. DIN (dissolved inorganic nitrogen) ranged from 6.2–15.2 µmol/l, phosphate from 0.6–0.7 µmol/l, and silicate from 4.6–12.2 µmol/l. The lowest concentrations were measured in the outer parts of the Å-transect and higher concentrations closer to the coast. The concentrations were normal for the month except at station P2, where they were above normal.

The oxygen situation was good at all stations in Skagerrak, with normal values for the season, ranging between 5.8–6.9 ml/l.

Chlorophyll fluorescence is a measure of plankton activity measured with a sensor mounted on the CTD¹. No strong chlorophyll fluorescence peaks were measured, but some activity was noted at all stations in the well-mixed surface layer.

Kattegat and the Sound

The temperature in the surface water had increased slightly since January and was around 3–4 °C. At Fladen and Anholt E, it was slightly above normal for the season. The salinity in the surface water was above normal, increasing from 26.6 psu at Anholt E to 30.2 psu at Fladen. In the Sound, the salinity was normal, 16.5 psu. The thermocline and halocline coincided around 20–30 metres. At the coastal station N14 Falkenberg, there was also shallower stratification at 5 metres.

The concentration of inorganic nutrients in the surface water was within normal range in the Kattegat. In the Sound, DIN and silicate were above normal. DIN levels had increased since January and were between 6.6 and 8.3 µmol/l. Silicate levels had decreased (8.7–15.1 µmol/l), and phosphate levels were approximately the same (0.6 µmol/l).

Oxygen levels in the bottom water of the Kattegat were normal for the season, around 6 ml/l at all stations.

Chlorophyll fluorescence was higher in the surface water in the Kattegat compared to Skagerrak, with the highest levels at N14 Falkenberg and Anholt E. At Anholt E, there was also a chlorophyll fluorescence peak around 12 metres.

¹ The CTD is a profiling measuring instrument and stands for Conductivity, Temperature, Depth. SMHI's CTD is also equipped with sensors that measure oxygen and fluorescence, among other parameters.

The Baltic Proper

The temperature in the surface layer was normal for the month at all stations in the Baltic Proper, ranging between 2 and 3.5 °C. It was coldest in the Western Gotland Basin. The salinity in the surface layer varied from a minimum of 6.8 psu in the Western Gotland Basin to a maximum of 8.2 psu in the Arkona Basin. Salinity was above normal in the Eastern Gotland Basin and in the northern Baltic Proper. In other parts, it varied from below normal to above normal at different stations. In the Arkona Basin, the water was well-mixed down to 25 metres where the thermocline and halocline coincided. In the Bornholm Basin, the well-mixed surface layer extended down to 40–50 metres, in the Eastern and Western Gotland Basins 50–60 metres.

At most stations, the concentration of nutrients had increased in the surface water since January. The concentration of dissolved inorganic nitrogen was normal in the surface layer, ranging around 2.9–4.9 µmol/l. The concentration of phosphate was normal in the Arkona, Bornholm, and Western Gotland Basins and above normal in the Eastern Gotland Basin and northern Baltic Proper. Phosphate concentrations varied around 0.66–0.86 µmol/l. The concentration of silicate was above normal throughout the Baltic Proper, 16–20 µmol/l.

In the Arkona Basin, the oxygen situation was good in the bottom water, and the oxygen concentration had increased slightly since January. The inflow that occurred at the end of December 2023 could now be seen on its way through the Bornholm Basin; at stations BY4 and Hanö Bay, the oxygen concentration had decreased since January, but at BY5, there was instead a significant increase in oxygen in the bottom water compared to January. At BY5, the oxygen concentration just above the bottom was just below the oxygen deficiency limit (<4 ml/l), but above that, there was still a layer of acute oxygen deficiency (<2 ml/l). In the Eastern Gotland Basin, there was anoxic conditions, and hydrogen sulphide was measured from 70 metres, with acute oxygen deficiency from 60 metres. In the northern Baltic Proper, there was anoxic conditions from 90 metres and acute oxygen deficiency from 80 metres. In the Western Gotland Basin, the depth levels for anoxic conditions and acute oxygen deficiency varied from 125 and 90 metres respectively at BY31 to 70 and 60 metres at BY38.

More information about the algal situation can be found in the Algaware-report for December: <https://www.smhi.se/publikationer/publikationer/algrapporter> (Only available in Swedish).

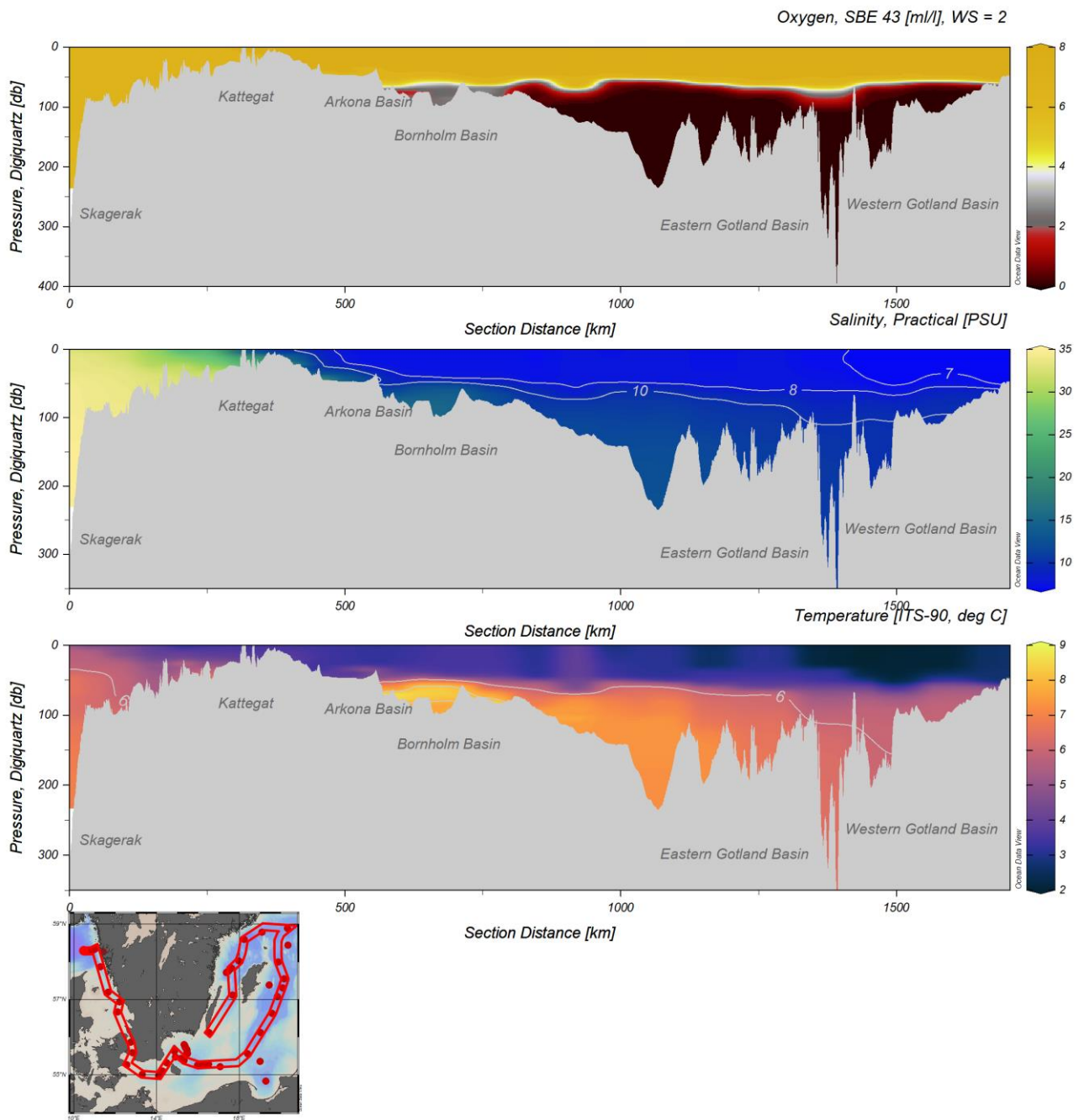


Figure 1. Transect showing oxygen concentration, salinity and temperature measured with CTD, and MVP, stretching from Skagerrak through Kattegat and the Sound, into the Baltic Proper.

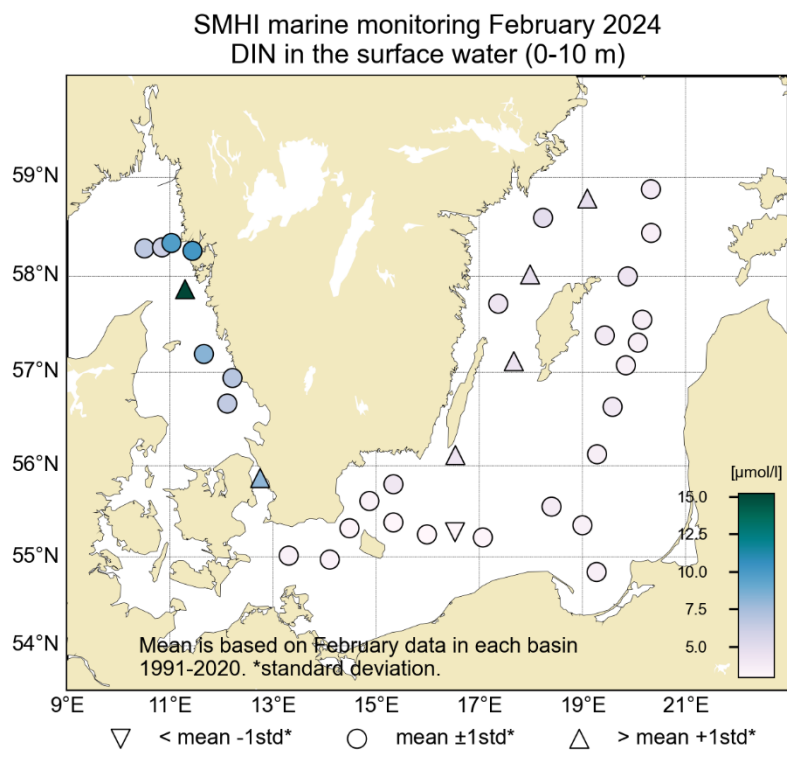


Figure 2. Concentration ($\mu\text{mol/l}$) of dissolved inorganic nitrogen (DIN) in the surface water (0-10m). Mean is based on data from the month within each basin during the years 1991 – 2020.

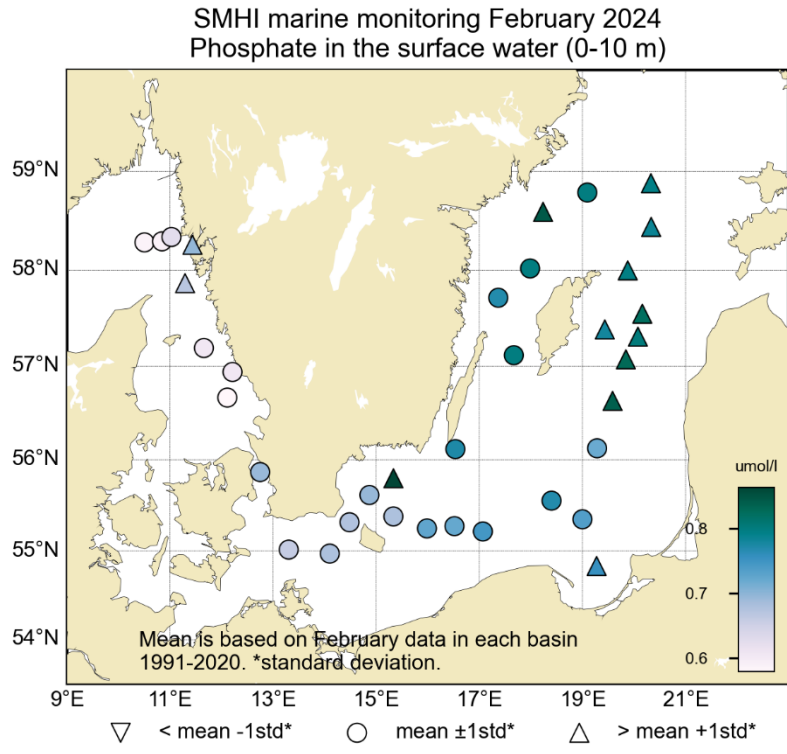


Figure 3. Concentration ($\mu\text{mol/l}$) of phosphate in the surface water (0-10m). Mean is based on data from the month within each basin during the years 1991 – 2020.

SMHI marine monitoring February 2024
Silicate in the surface water (0-10 m)

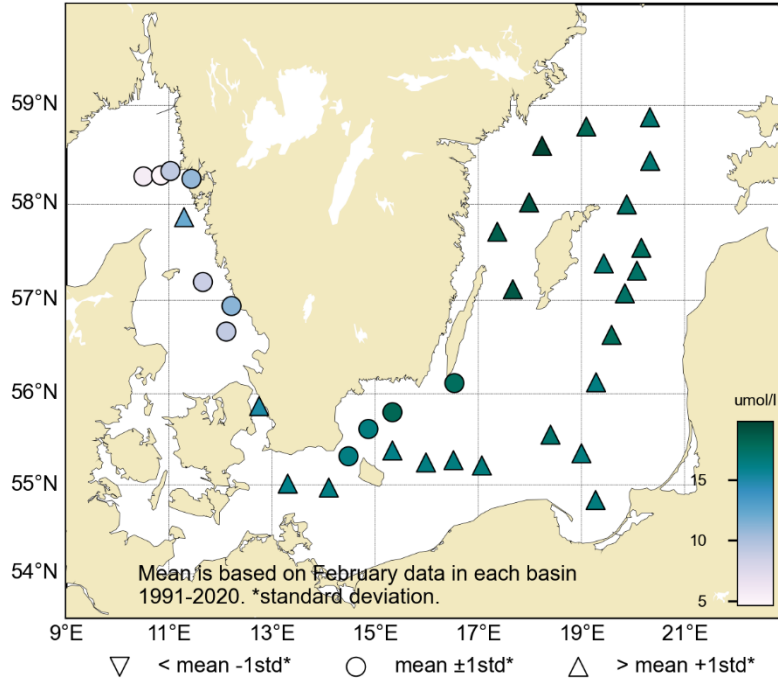


Figure 4. Concentration ($\mu\text{mol/l}$) of silicate in the surface water (0-10m). Mean is based on data from the month within each basin during the years 1991 – 2020.

Bottom water oxygen concentration (ml/l)

Ship: R/V Svea
Date: 20240206-20240213
Series: 0118-0161

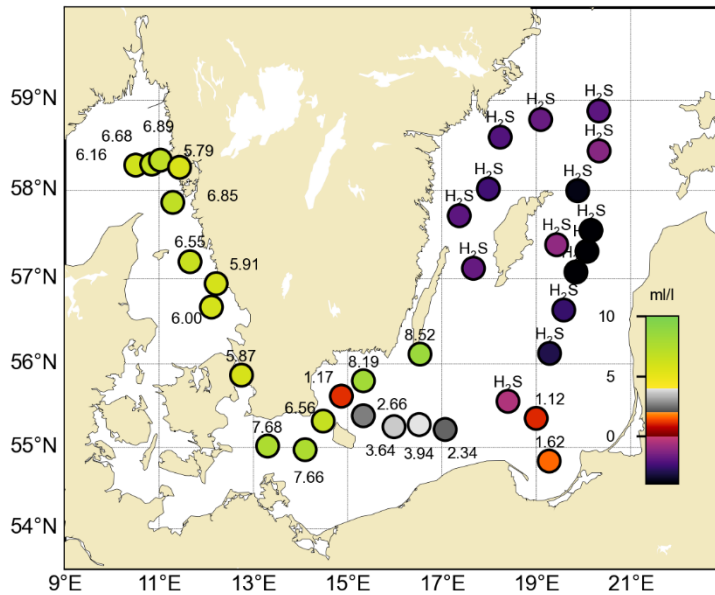


Figure 5. Dissolved oxygen concentration in ml/l in the bottom water, approximately 1 metre above the seabed. Note that the values have not been compared to statistics in the same way as in figures 2–6, that's why only circles are shown.

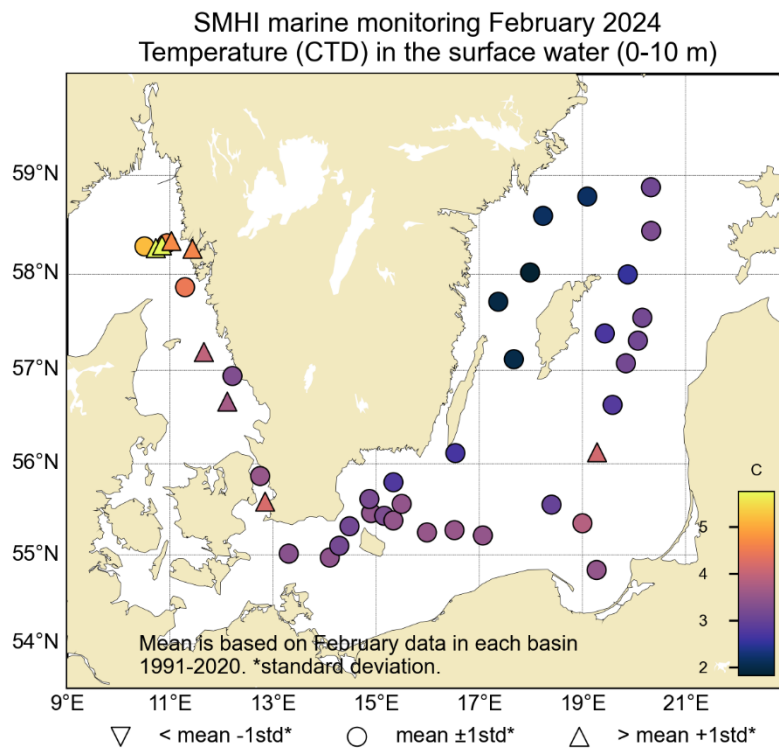


Figure 6. Temperature in the surface water (0-10m). Mean is based on data from the month within each basin during the years 1991 – 2020.

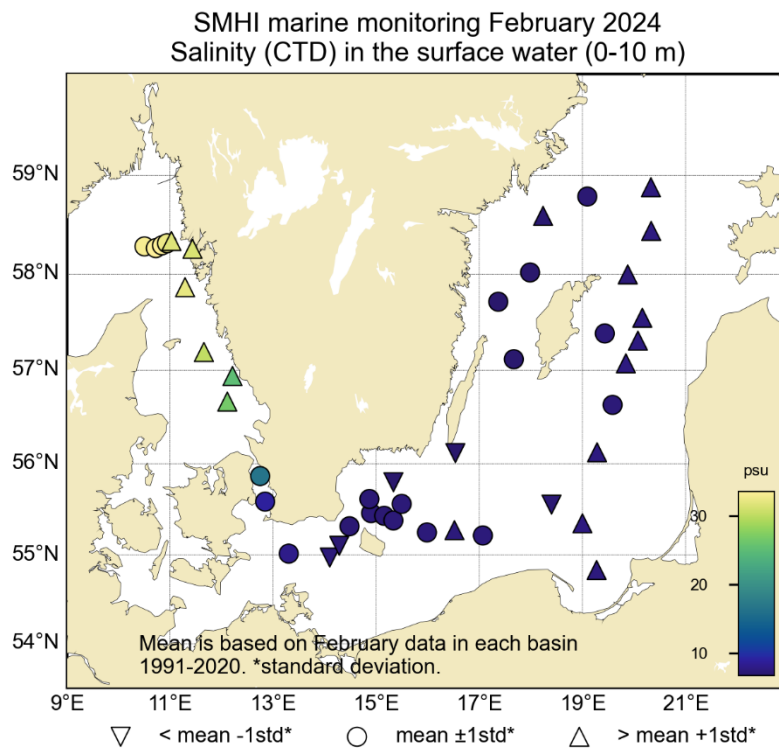


Figure 7. Salinity in the surface water (0-10m). Mean is based on data from the month within each basin during the years 1991 – 2020.

PARTICIPANTS

Name	Role	From
Sara Johansson	Cruise leader, Marine chemist	SMHI
Ann-Turi Skjevik	Marin biologist	SMHI
Sari Sipilä	Chemist	SMHI
Daniel Bergman Sjöstrand	Marine technician	SMHI
Monica Linder	Chemist	SMHI

APPENDICES

- Track chart
- Table over stations, analysed parameters and number of sampling depths
- Monthly average surface water plots for regular monitoring stations
- Vertical profiles for regular monitoring stations

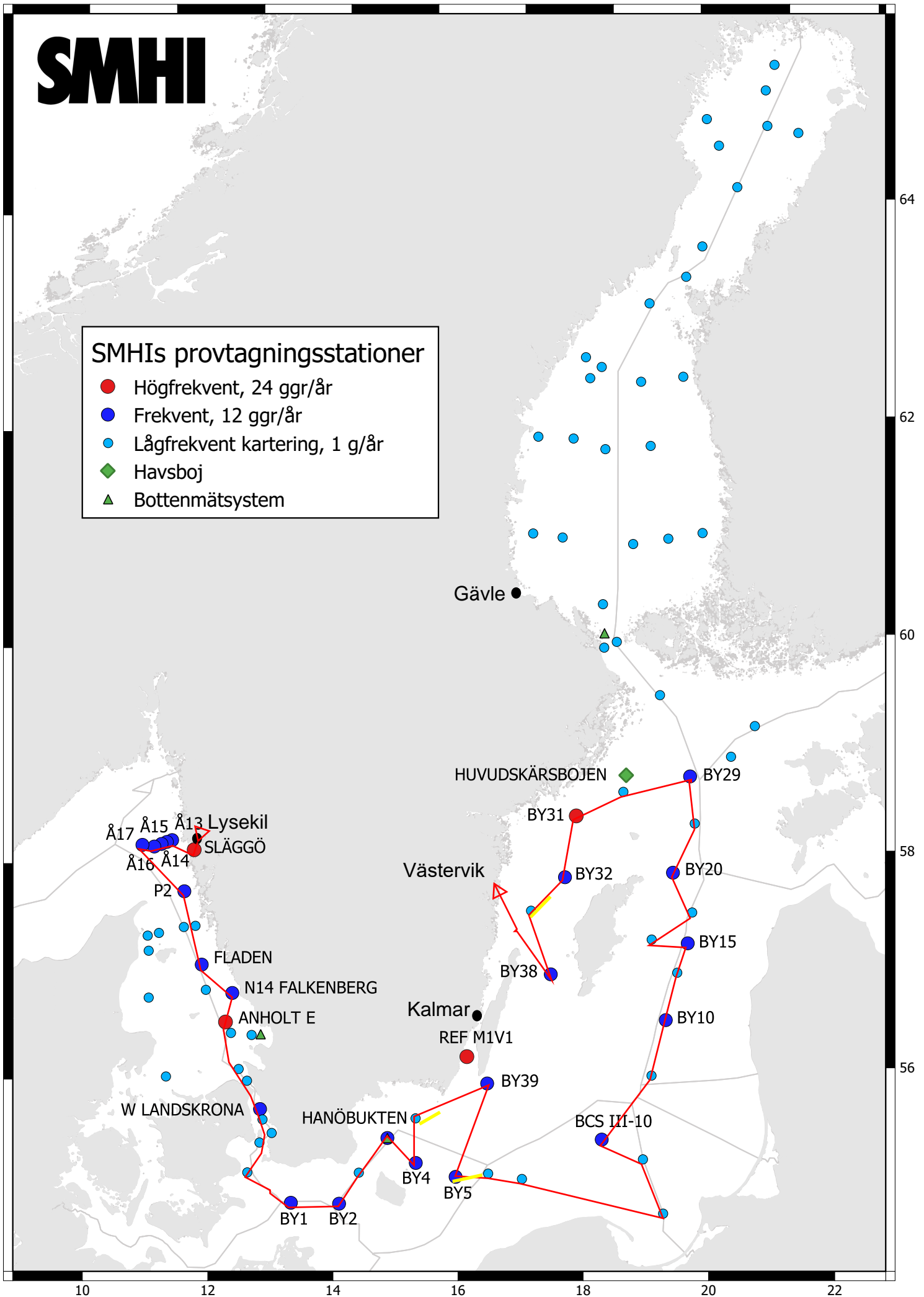
SMHI



**Havs
och Vatten
myndigheten**

SMHIs provtagningsstationer

- Högfrekvent, 24 ggr/år
- Frekvent, 12 ggr/år
- Lågfrekvent kartering, 1 g/år
- ◆ Havsboj
- ▲ Bottenmätsystem



Ship: 77SE
Year: 2024

Ser no	Cru no	Stat code	Proj	Stat name	Lat	Lon	Start date yyyymmdd	Start time hhmm	Bottom depth m	Secchi depth m	Wind dir vel	Air temp C	Air pres hPa	WCWI elac aove	CZPP hoeh loy	No de	No btl	T e e e	S m m l	P x x x	D o o o	H h h h	P t t t	N n n n	N a a a	A s s s	S h h h	C c c c					
0118	04	SKEX18	BAS...	Å17	5817.07	01030.27	20240206	2030	344		26 8	-1.1	990 9990	xxx-	15	15	-	x	-	x	x	x	-	x	x	x	x	x	x	x	-	-	-
0119	04	SKEX17	BAS...	Å16	5816.02	01043.47	20240206	2330	202		03 6	-1.9	991 9990	----	13	0	-	x	-	x	-	-	-	-	-	-	-	-	-	-	-	-	
0120	04	SKEX16	BAS...	Å15	5817.70	01050.66	20240207	0105	137		03 11	-2.1	992 9990	x---	12	12	x	x	x	x	-	x	x	-	x	x	x	x	x	x	x	-	-
0121	04	SKEX15	BAS...	Å14	5818.99	01056.49	20240207	0240	111		02 9	-2.2	993 9990	----	11	0	-	x	-	x	-	-	-	-	-	-	-	-	-	-	-	-	
0122	04	SKEX14	BAS...	Å13	5820.36	01101.65	20240207	0430	108		03 8	-2.8	994 9990	x---	10	10	x	x	x	x	-	x	x	-	x	x	x	x	x	x	-	-	
0123	04	FIBG27	BAS...	SLÄGGÖ	5815.58	01126.13	20240207	1545	76		18 1	-2.1	997 1610	xxx-	9	9	x	x	x	x	-	x	x	-	x	x	x	x	x	x	-	-	
0124	04	SKEX23	BAS...	P2	5752.00	01117.50	20240207	1920	94		20 5	0.8	999 9990	x---	10	10	x	x	x	x	-	x	x	-	x	x	x	x	x	x	-	-	
0125	04	KANX25	BAS...	FLADEN	5711.56	01139.43	20240208	0000	87		20 8	0.1	997 9990	x---	13	13	x	x	x	x	-	x	x	-	x	x	x	x	x	x	-	-	
0126	04	KANX50	BAS...	N14 FALKENBERG	5656.40	01212.70	20240208	0325	31		29 9	1.6	997 9990	xxx-	7	7	x	x	x	x	-	x	x	-	x	x	x	x	x	-	-		
0127	04	KAEX29	BAS...	ANHOLT E	5640.12	01206.67	20240208	0610	63		30 9	1.9	997 1530	xxx-	10	10	x	x	x	x	-	x	x	-	x	x	x	x	x	x	-	-	
0128	04	SOCX39	BAS...	W LANDSKRONA	5552.04	01244.89	20240208	1230	51	9	35 8	2.7	1001 1520	x---	9	9	x	x	x	x	-	x	x	-	x	x	x	x	x	-	-		
0129	04	SOSX00	EXT...	FLINTEN 7	5535.32	01250.68	20240208	1510	9		35 3	3.1	1001 1620	----	3	0	-	x	-	-	-	-	-	-	-	-	-	-	-	-	-		
0131	04	BPSA02	BAS...	BY1	5500.92	01318.13	20240208	2100	46		18 1	2.7	1001 9990	x---	8	8	x	x	x	x	-	x	x	-	x	x	x	x	x	-	-		
0132	04	BPSA03	BAS...	BY2 ARKONA	5458.28	01405.92	20240209	0100	47		10 8	1.7	1002 9990	xxx-	8	8	x	x	x	x	-	x	x	-	x	x	x	x	x	-	-		
0133	04	BPSA00	EXT...	INFLOW 1	5506.12	01416.98	20240209	0330	47		10 11	1.4	1001 9990	----	6	0	-	x	-	-	-	-	-	-	-	-	-	-	-	-	-		
0134	04	BPSA04	BAS...	BY3 HAMRARNE SUND	5519.07	01428.86	20240209	0420	47		10 15	1.1	1001 9990	----	8	8	-	x	x	-	x	x	-	x	x	x	x	x	-	-			
0135	04	BPSH00	EXT...	INFLOW 3	5527.77	01454.03	20240209	0720	81		08 13	1.1	1001 2830	----	6	0	-	x	-	-	-	-	-	-	-	-	-	-	-	-	-		
0136	04	BPSH05	BAS...	HANÖBUKTEN	5537.03	01452.02	20240209	0850	80		08 16	0.5	1001 2740	x---	11	11	-	x	x	-	x	x	-	x	x	x	x	x	-	-			
0137	04	BPSB00	EXT...	INFLOW-4	5525.99	01509.24	20240209	1120	80		09 14	1.6	1000 2740	----	6	0	-	x	-	-	-	-	-	-	-	-	-	-	-	-	-		
0138	04	BPSB06	BAS...	BY4 CHRISTIANSÖ	5522.92	01519.97	20240209	1305	91	10	09 13	1.6	1000 2740	x--x	12	12	-	x	x	x	x	-	x	x	-	x	x	x	x	-	-		
0139	04	BPSB00	EXT...	INFLOW 5	5533.82	01529.59	20240209	1630	72		09 14	1.9	999 2840	----	6	0	-	x	-	-	-	-	-	-	-	-	-	-	-	-	-		
0140	04	BPSH51	BAS...	HANÖBUKTEN-KBV	5548.01	01520.01	20240209	1815	56		16 14	2.0	999 9990	----	9	9	x	x	x	-	x	x	-	x	x	x	x	x	-	-			
0141	04	BPSE49	BAS...	BY39 ÖLANDS S UDDE	5606.96	01632.12	20240209	2330	51		09 14	2.2	1001 9990	xxx-	8	8	x	x	x	x	-	x	x	-	x	x	x	x	-	-			
0142	04	BPSB07	BAS...	BY5 BORNHOLMSDJ	5515.00	01559.05	20240210	0720	90		08 12	2.2	997 2840	xxx-	12	12	x	x	x	x	-	x	x	-	x	x	x	x	-	-			
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0144	04	BPSE09	BAS...	BY7 STOLPE RÄNNA	5512.98	01704.08	20240210	1430	91	11	07 10	2.2	999 2840	----	12	12	x	x	x	-	x	x	-	x	x	x	x	-	-				
0145	04	BPSG71	BAS...	PL-P1	5449.98	01916.47	20240210	2230	107		11 7	2.2	1001 9990	----	14	14	x	x	x	-	x	x	-	x	x	x	x	-	-				
0146	04	BPSE70	BAS...	PL-P63	5521.05	01859.95	20240211	0300	83		10 9	2.2	1001 9990	----	11	11	x	x	x	-	x	x	-	x	x	x	x	-	-				
0147	04	BPSE11	BAS...	BCS III-10	5533.31	01824	20240211	0600	90		10 9	2.3	1001 9990	x-x-	12	12	x	x	x	-	x	x	-	x	x	x	x	-	-				
0148	04	BPSE12	BAS...	BY9 KLAIPEDA	5607.51	01917.00	20240211	1050	120	11	08 9	1.5	1003 4830	----	14	14	x	x	x	-	x	x	-	x	x	x	x	-	-				
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0150	04	BPEX14	BAS...	BY11	5704.44	01950.55	20240211	1850	206		09 10	1.2	1004 9990	----	17	17	-	x	-	-	-	-	-	-	-	-	-	-	-	-			
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T T S S P D D H P P N N N A N A S H C C
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Ship: 77SE

Year: 2024

Ser no	Cru no	Stat code	Proj	Stat name	Lat	Lon	Start date yyyymmdd	Start time hhmm	Bottom depth m	Secchi depth m	Wind dir vel	Air temp C	Air pres hPa	WCWI	CZPP	No de	No btl	T	S	P	D	H	P	N	N	N	A	N	A	S	H	C	C			
0153	04	BPEX25	BAS...	BY19	5733.03	02009.66	20240212	0500	161		07 12	1.0	1003	9990	----	15	15	-	x	-	x	-	x	x	x	x	x	x	x	x	x	x	-	x	-	x
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0155	04	BPNX27	BAS...	BY21	5826.51	02019.96	20240212	1340	122		09 15	-05	1005	2840	----	14	14	-	x	x	x	-	x	x	x	x	x	x	x	x	x	-	x	-	-	
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0157	04	BPNX36	BAS...	BY30	5847.32	01905.64	20240212	2140	186		08 12	0.5	1006	9950	----	16	16	-	x	-	x	-	x	x	x	x	x	x	x	x	x	-	x	-	-	
0158	04	BPNX37	BAS...	BY31 LANDSORTSDJ	5835.64	01814.16	20240213	0230	451		09 9	1.1	1006	9990	xxx-	23	23	-	x	-	x	x	x	x	x	x	x	x	x	x	x	x	-	x	-	-
0159	04	BPWX38	BAS...	BY32 NORRKÖPINGSDJ	5801.09	01759.06	20240213	0710	203		10 2	1.5	1006	2840	x---	17	17	-	x	-	x	-	x	x	x	x	x	x	x	x	-	x	-	-		
0160	04	BPWX42	BAS...	BY36	5742.99	01722.02	20240213	1145	141	11	30 10	-0.1	1008	7840	x--x	15	15	x	x	-	x	x	x	x	x	x	x	x	x	x	x	x	-	-	-	
0161	04	BPWX45	BAS...	BY38 KARLSÖDJ	5707.01	01740.11	20240213	1640	110		27 9	1.8	1013	9990	x-x-	14	14	x	x	-	x	-	x	x	x	x	x	x	x	x	x	-	x	x	-	

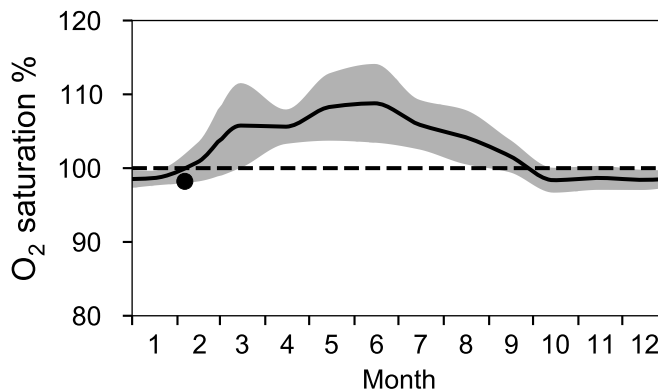
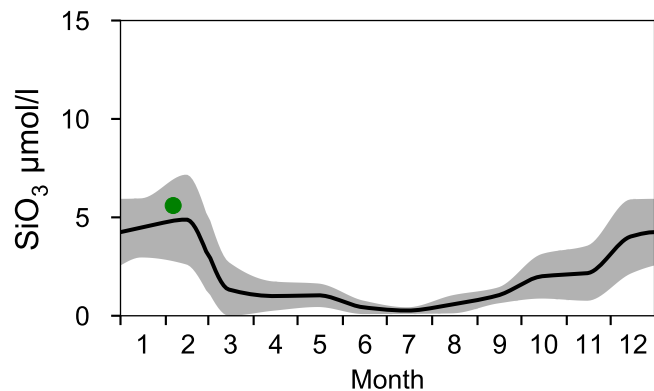
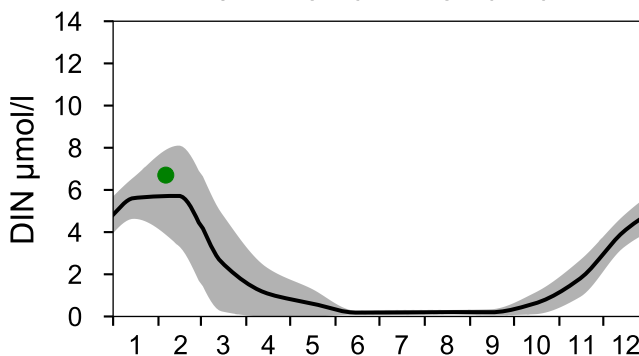
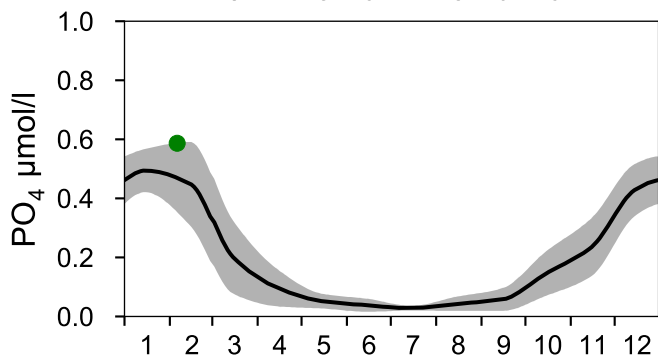
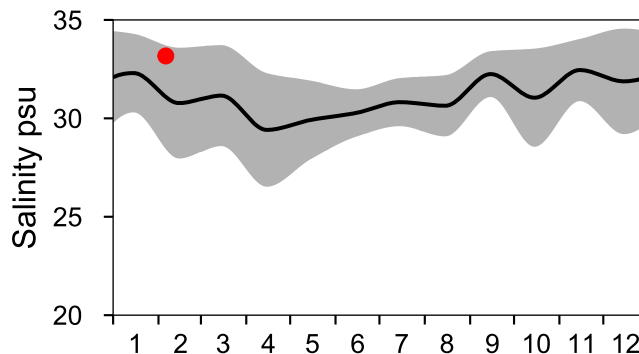
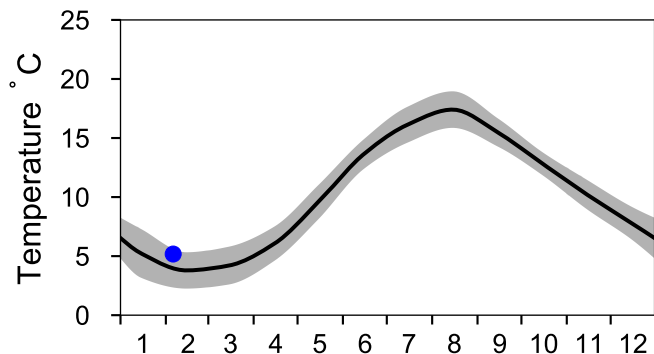
STATION Å17 SURFACE WATER (0-10 m)

Annual Cycles

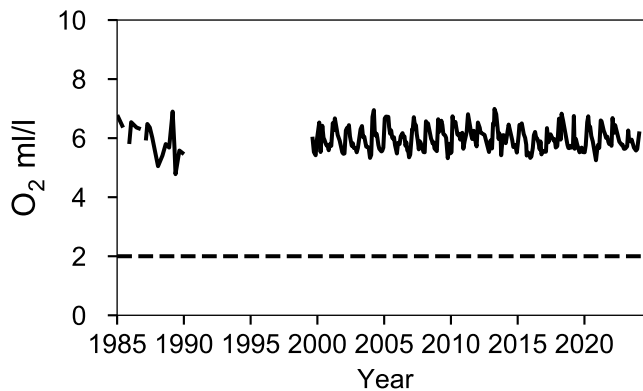
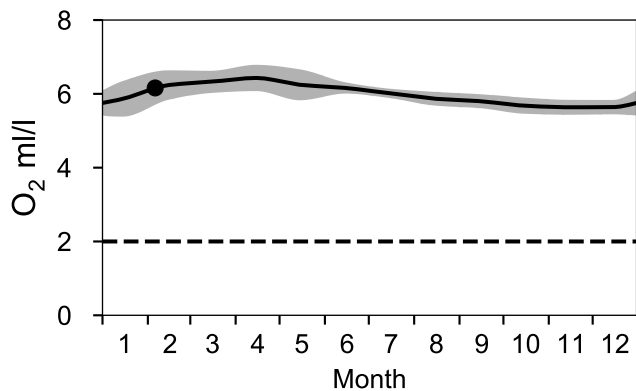
— Mean 1991-2020

■ St.Dev.

● 2024

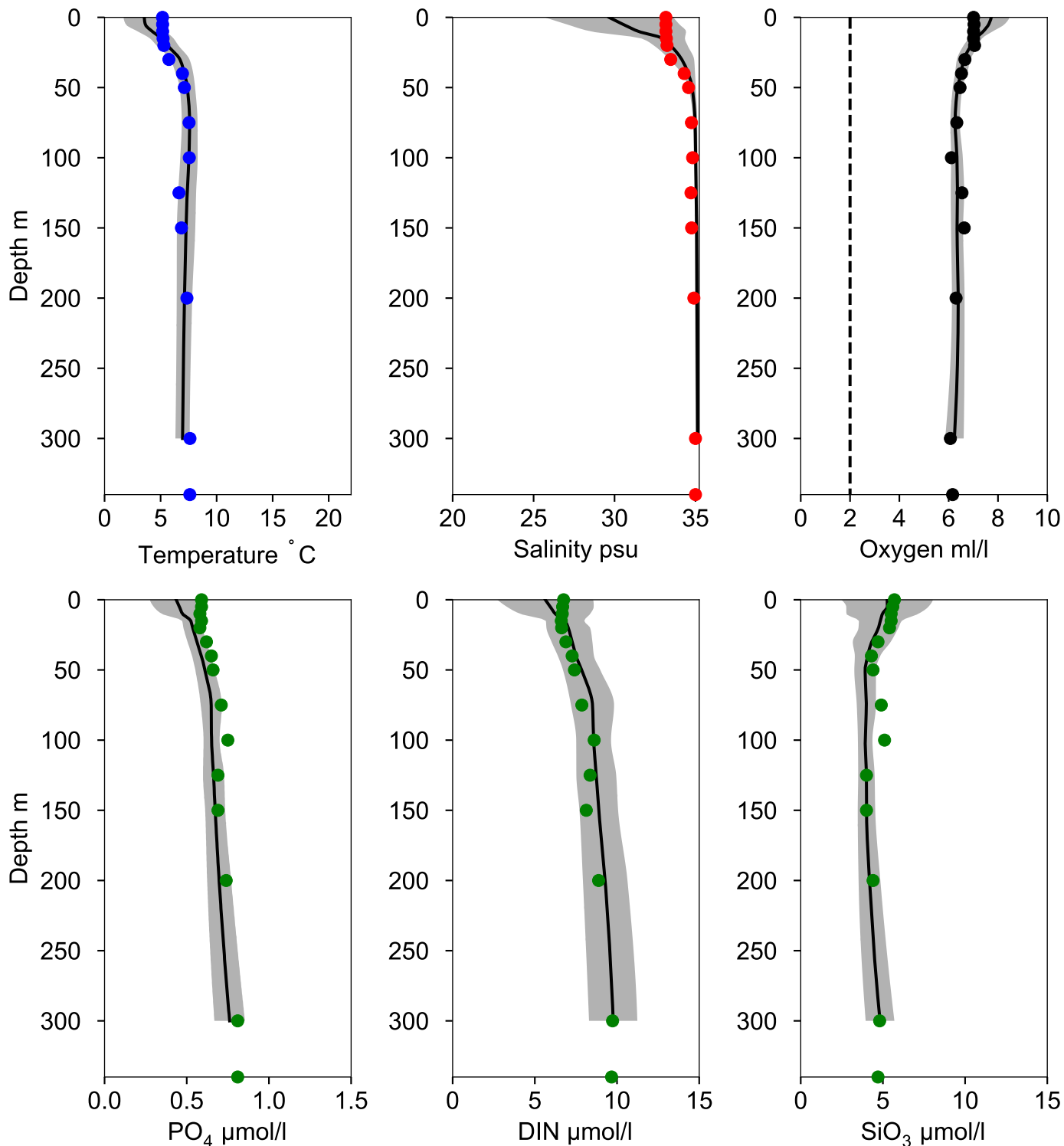


OXYGEN IN BOTTOM WATER (depth >= 300 m)



Vertical profiles A17 February

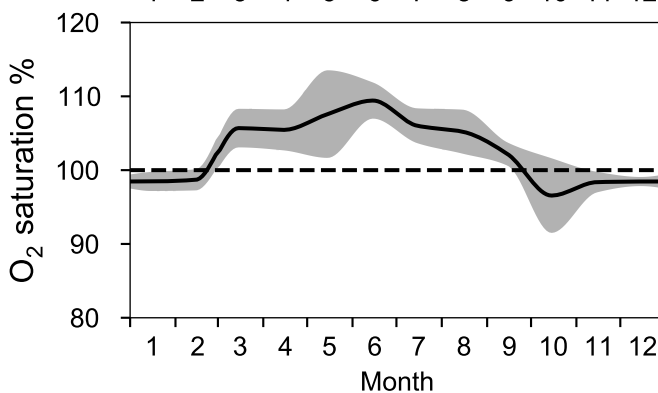
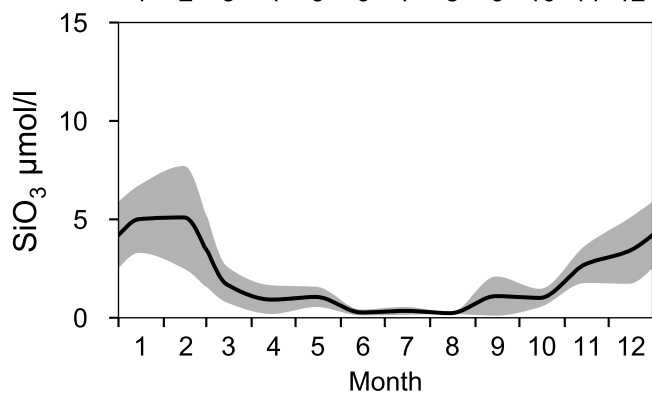
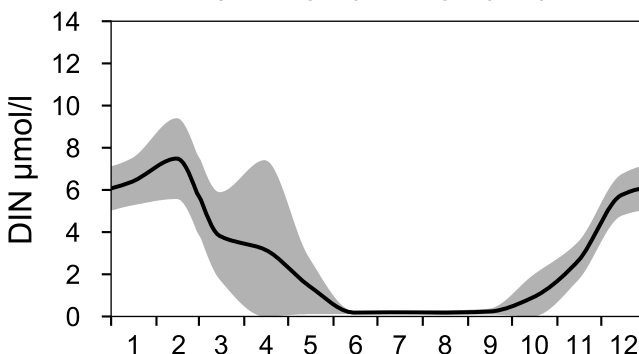
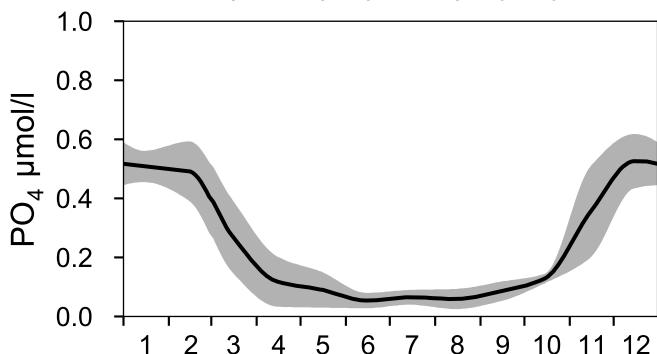
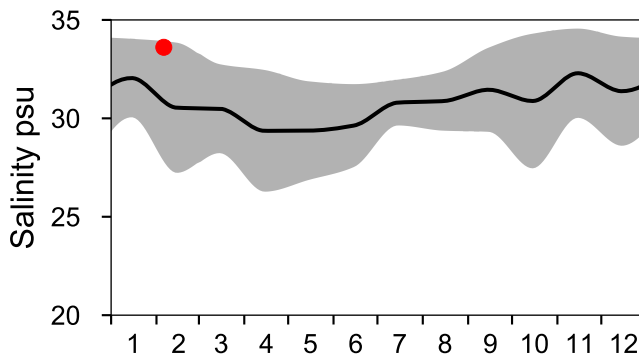
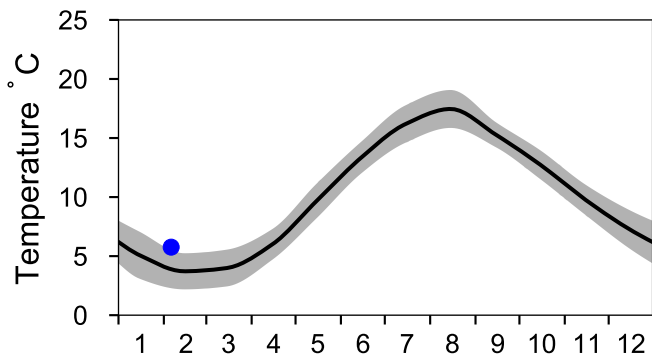
— Mean 1991-2020 St.Dev. ● 2024-02-06



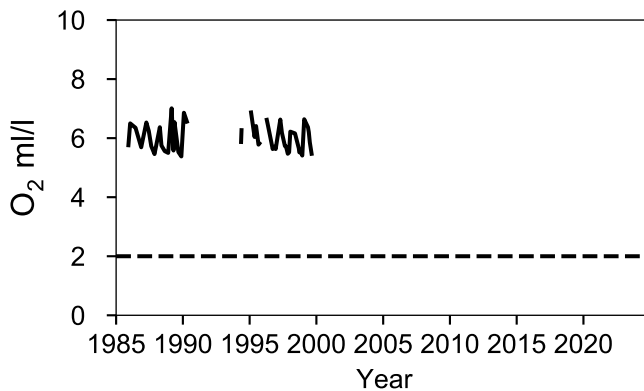
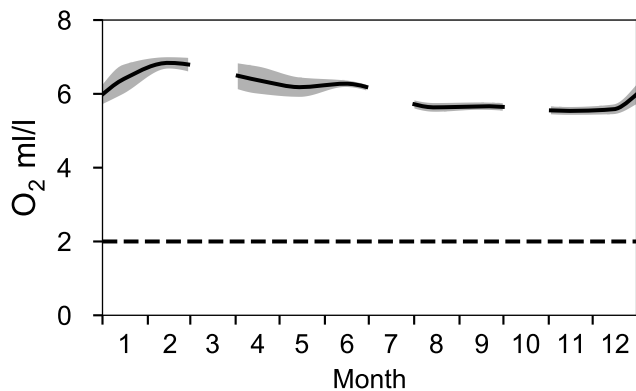
STATION Å16 SURFACE WATER (0-10 m)

Annual Cycles

— Mean 1991-2020 St.Dev. ● 2024

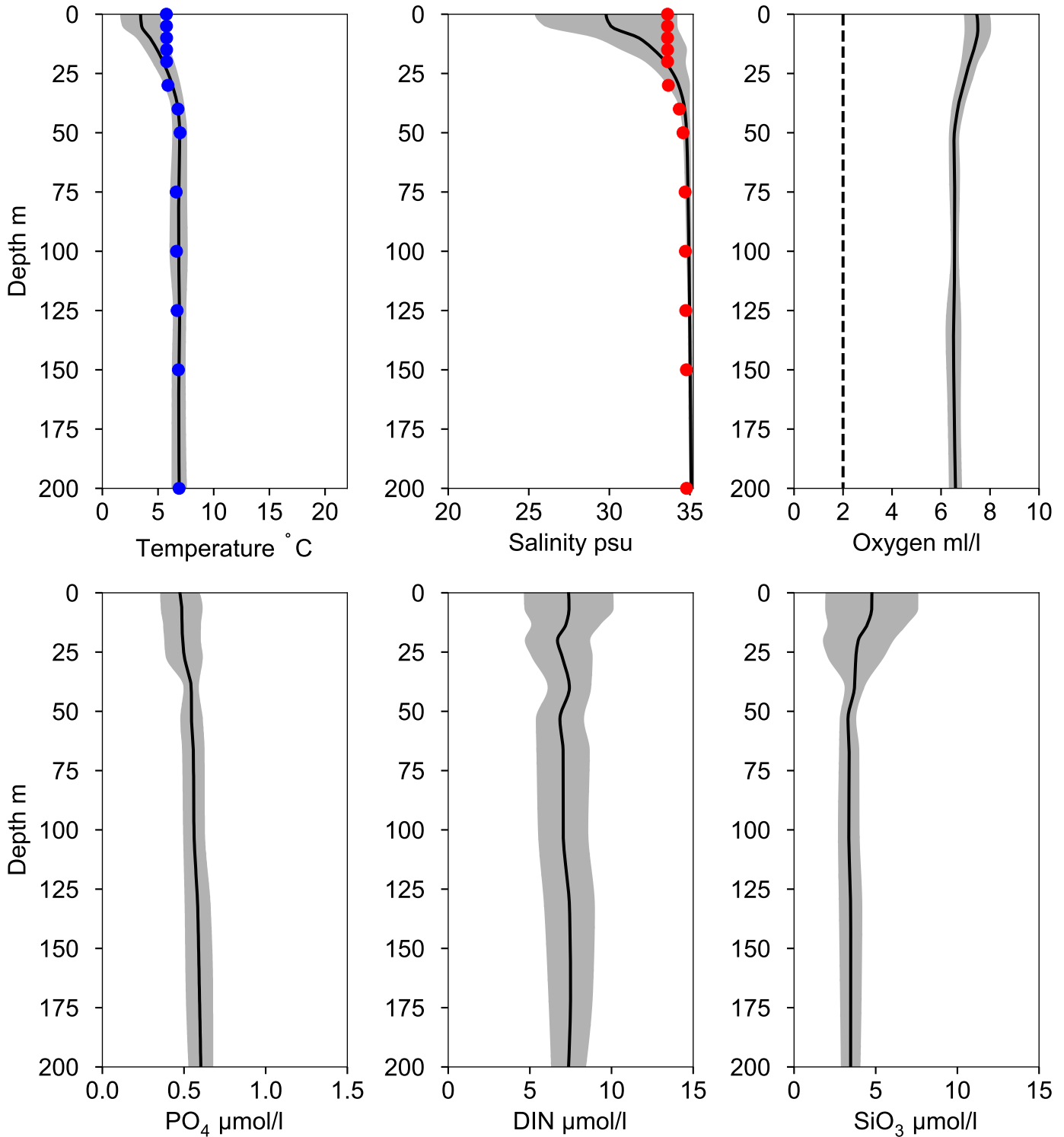


OXYGEN IN BOTTOM WATER (depth >= 193 m)



Vertical profiles A16 February

— Mean 1991-2020 St.Dev. ● 2024-02-06



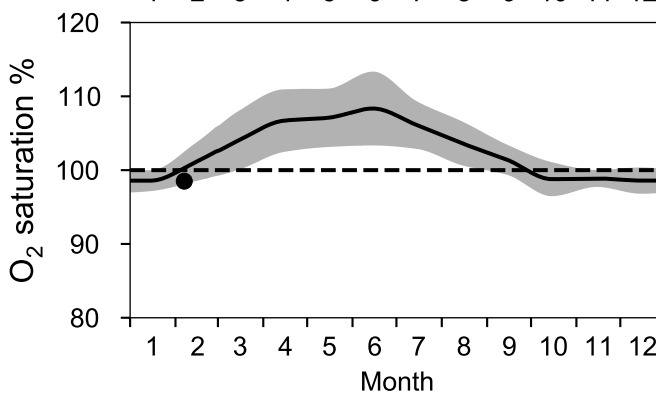
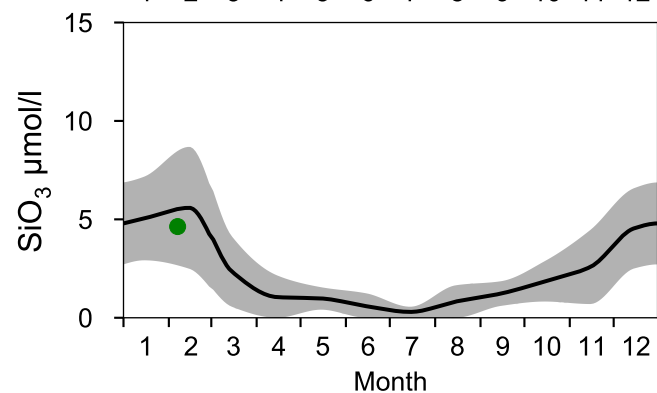
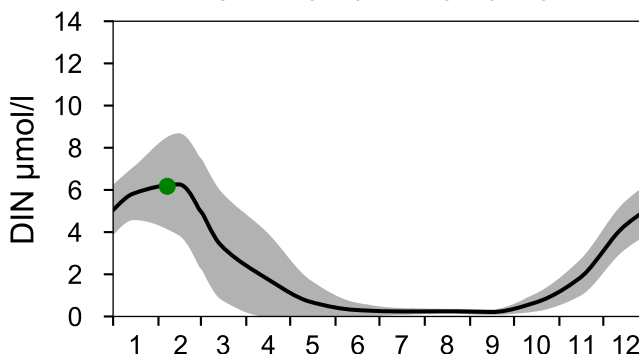
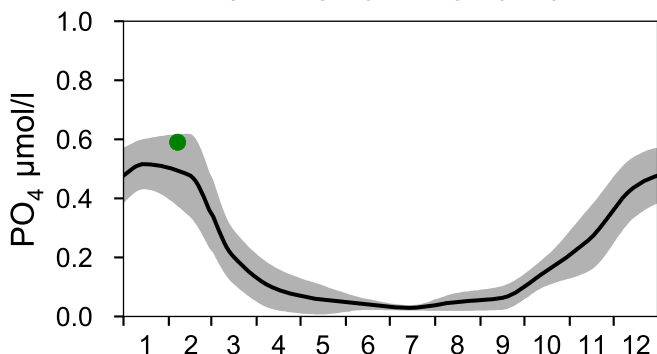
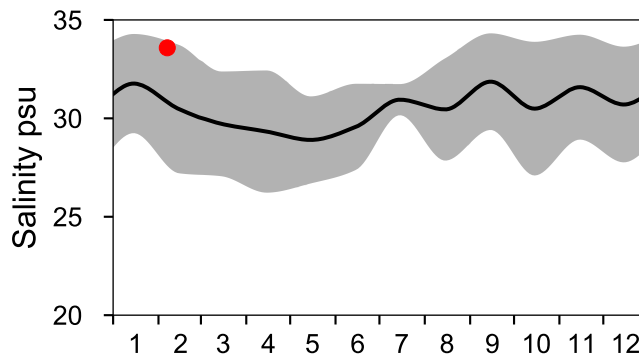
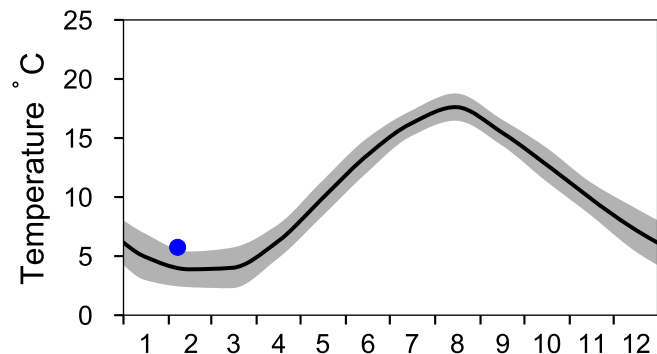
STATION Å15 SURFACE WATER (0-10 m)

Annual Cycles

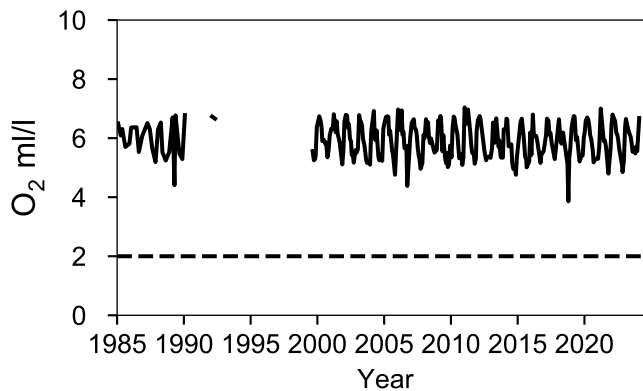
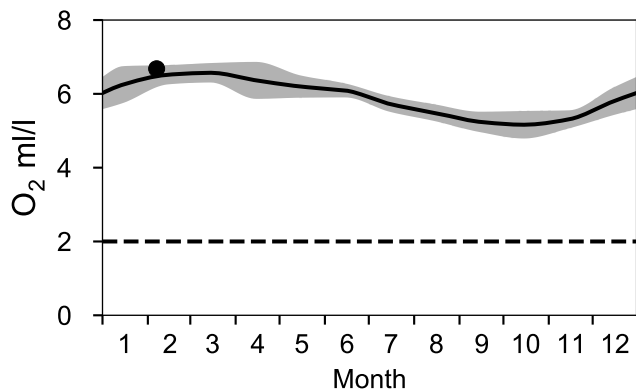
— Mean 1991-2020

■ St.Dev.

● 2024

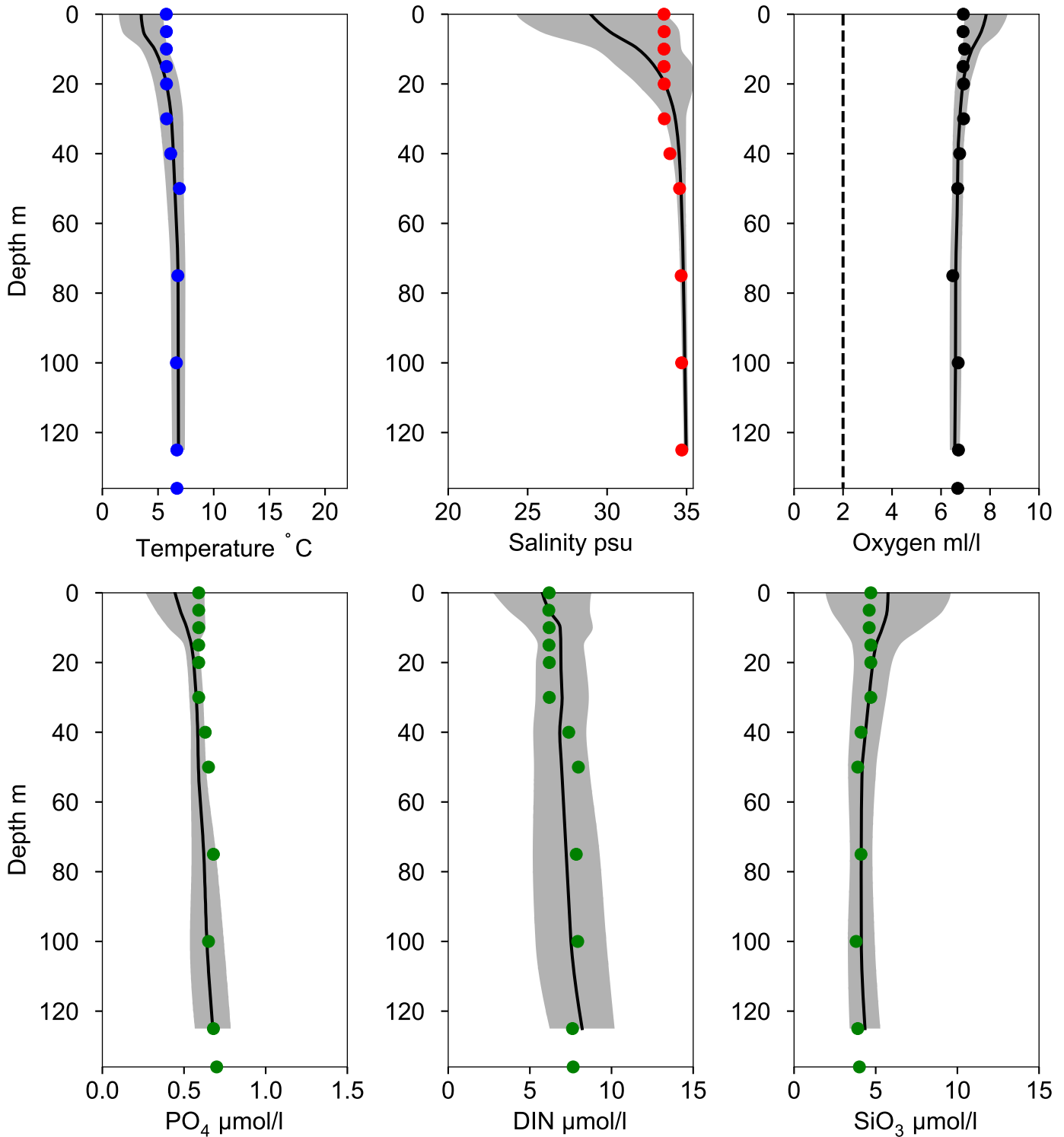


OXYGEN IN BOTTOM WATER (depth >= 125 m)



Vertical profiles A15 February

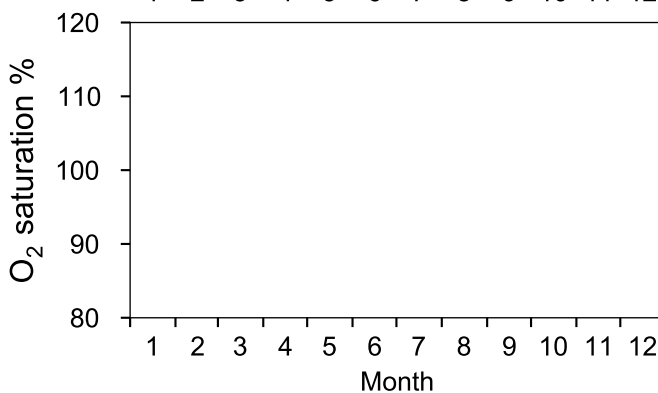
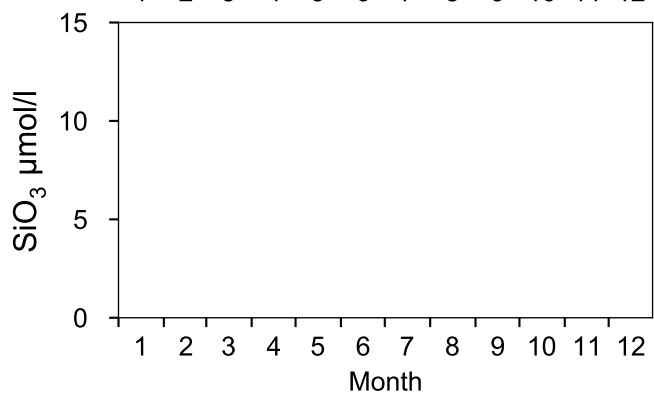
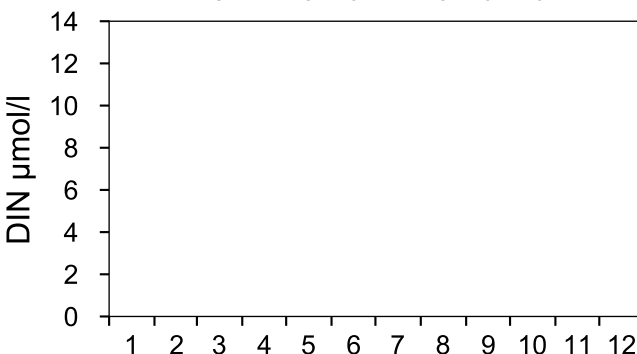
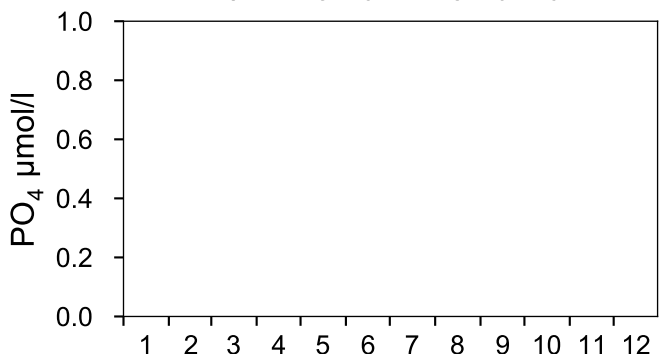
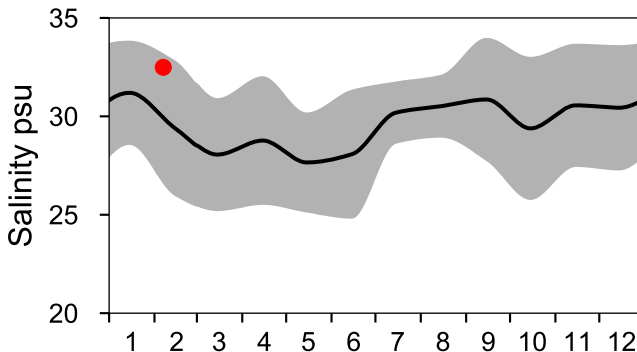
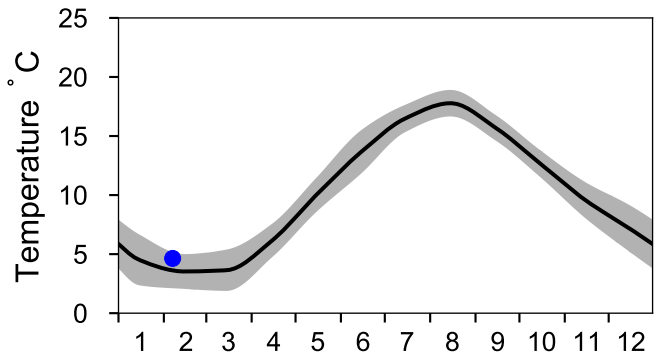
— Mean 1991-2020 ■ St.Dev. ● 2024-02-07



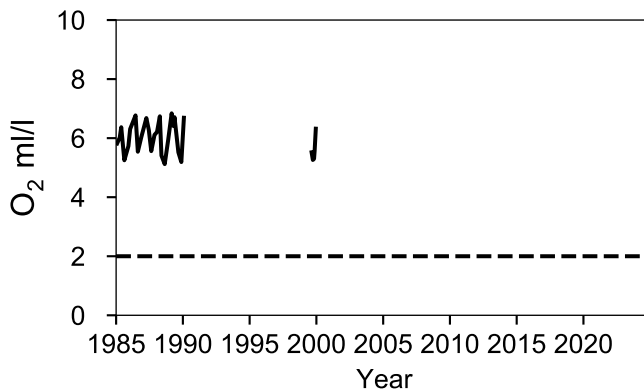
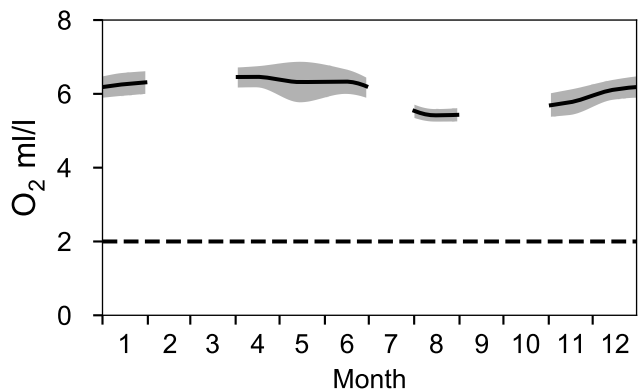
STATION Å14 SURFACE WATER (0-10 m)

Annual Cycles

— Mean 1991-2020 St.Dev. ● 2024

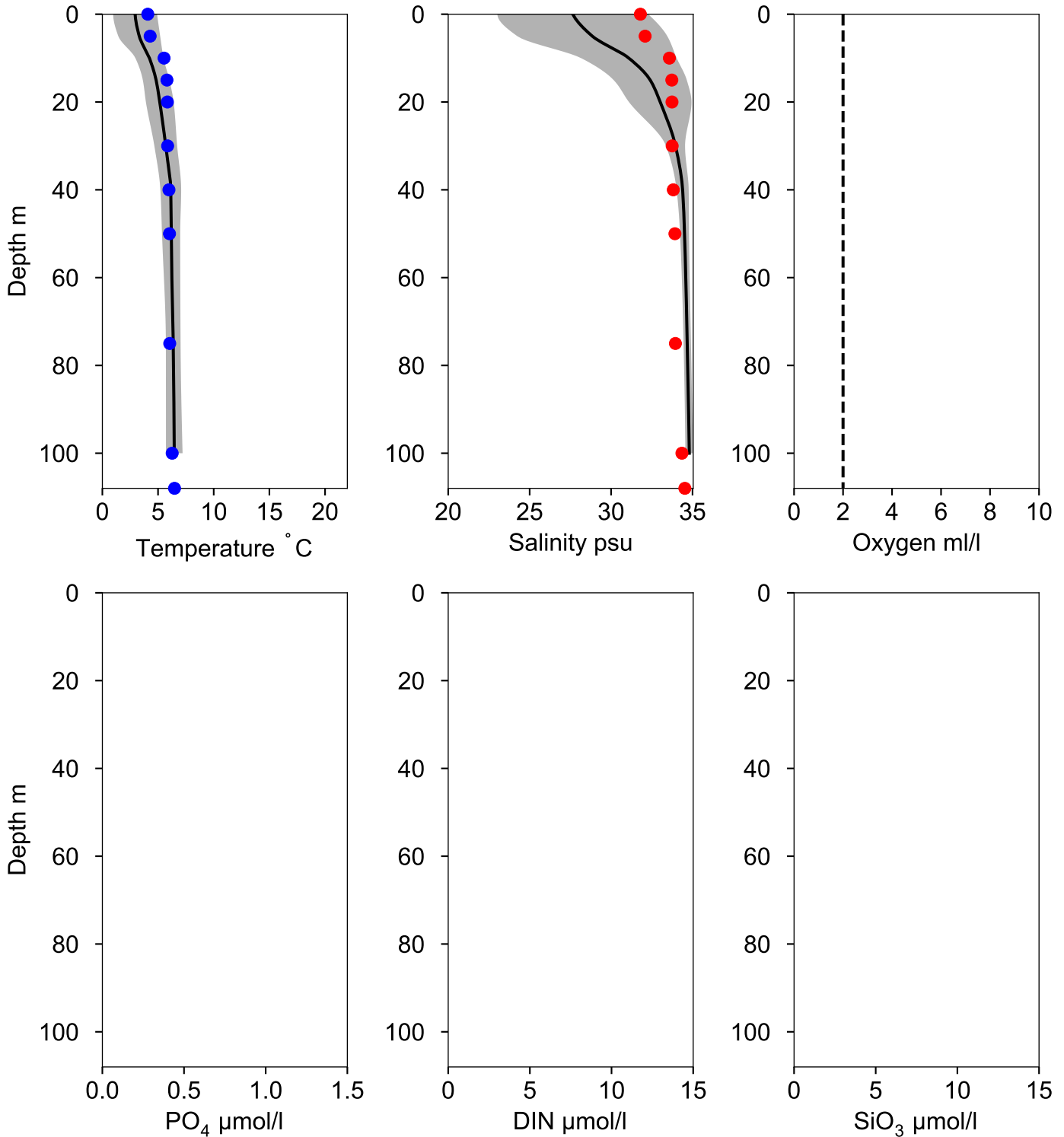


OXYGEN IN BOTTOM WATER (depth >= 100 m)



Vertical profiles A14 February

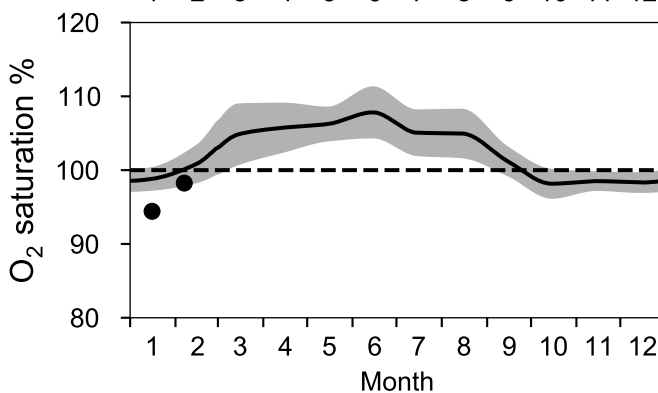
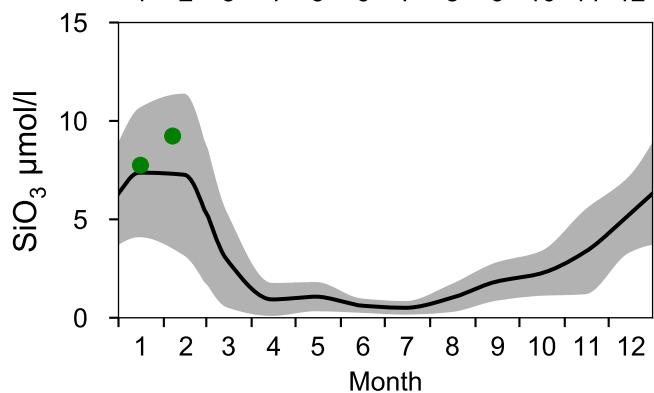
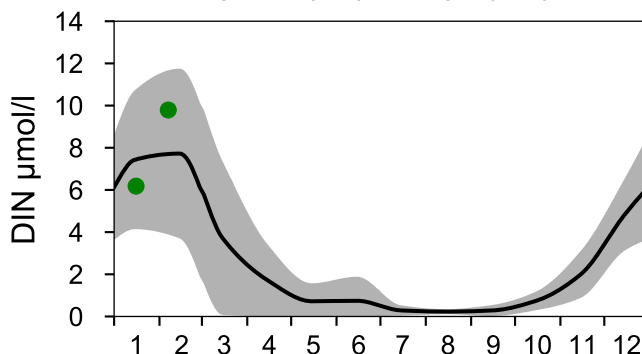
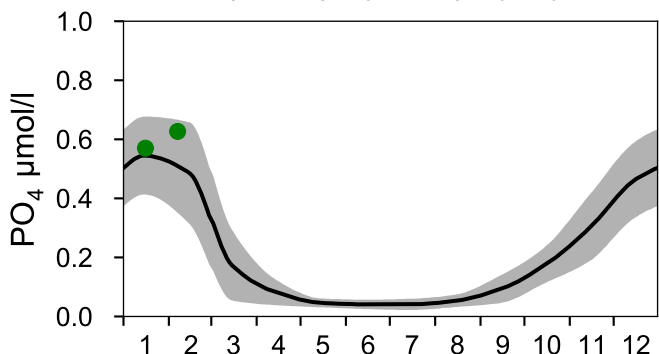
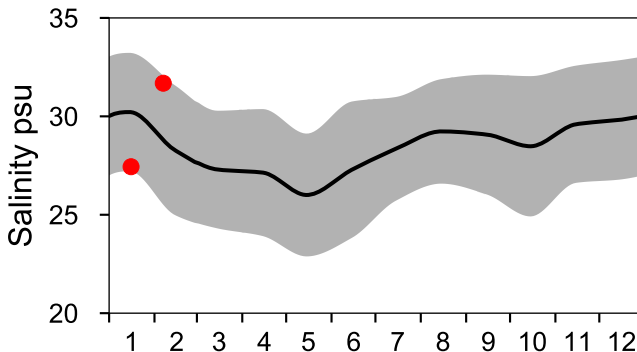
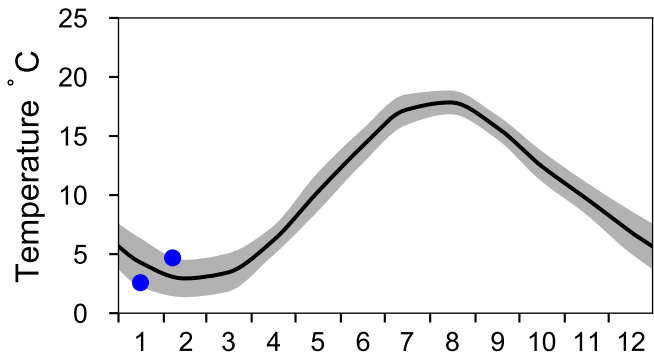
— Mean 1991-2020 ■ St.Dev. ● 2024-02-07



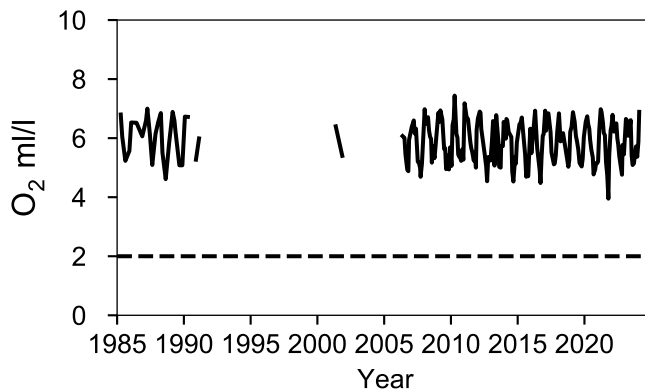
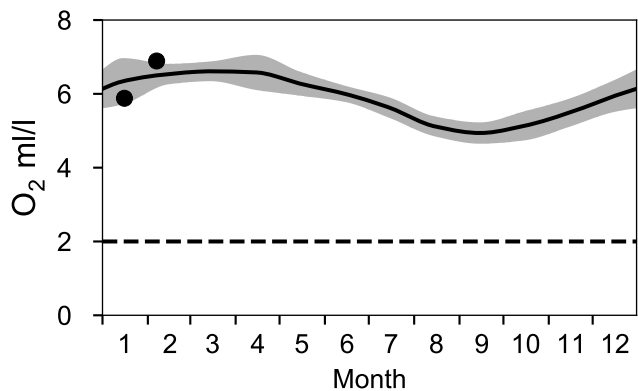
STATION Å13 SURFACE WATER (0-10 m)

Annual Cycles

— Mean 1991-2020 St.Dev. ● 2024

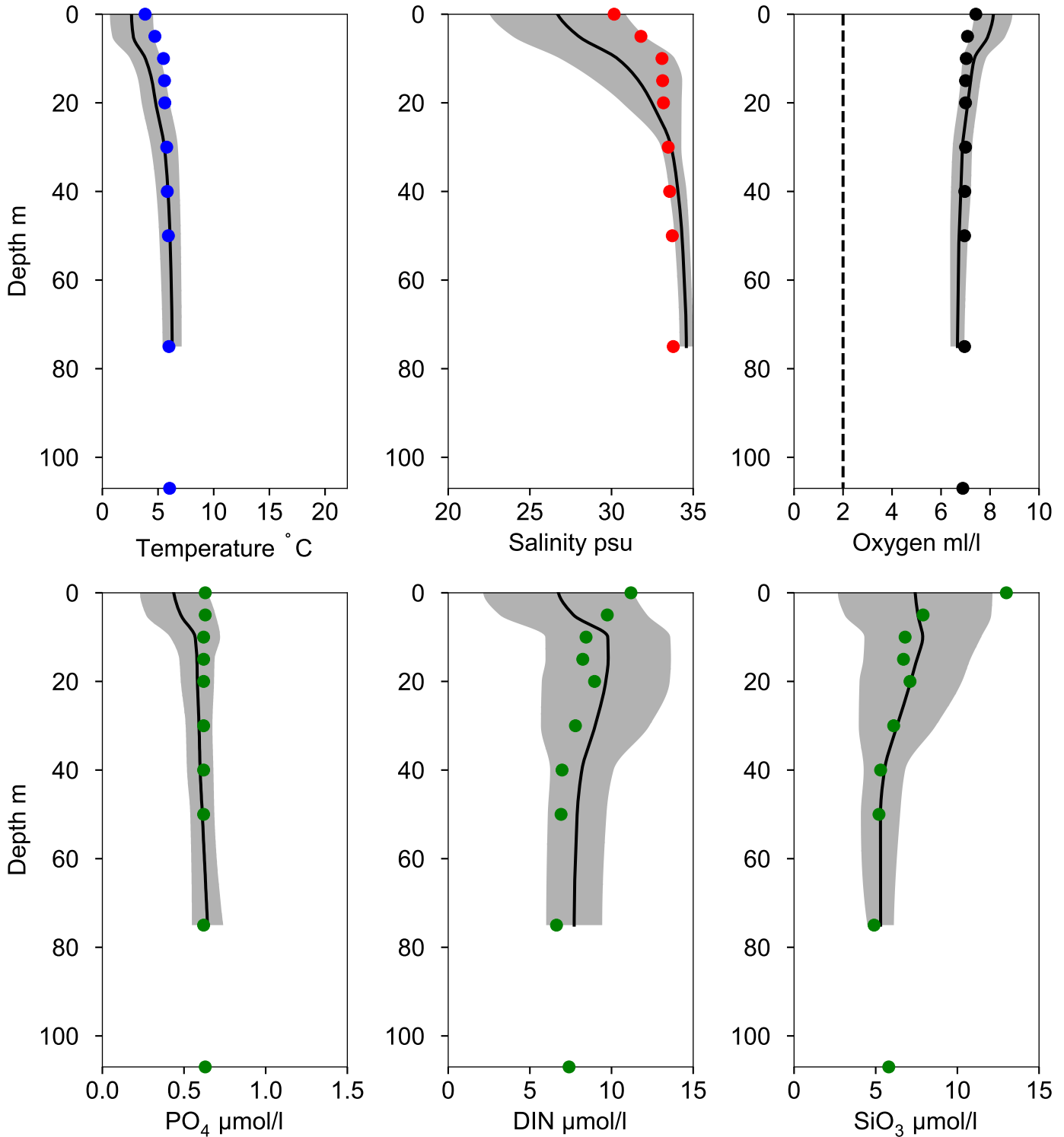


OXYGEN IN BOTTOM WATER (depth >= 82 m)



Vertical profiles Å13 February

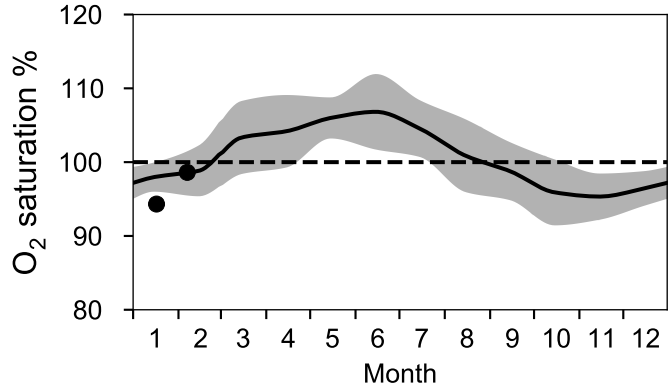
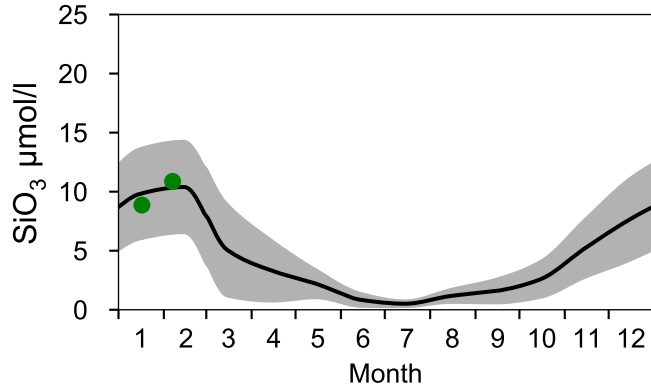
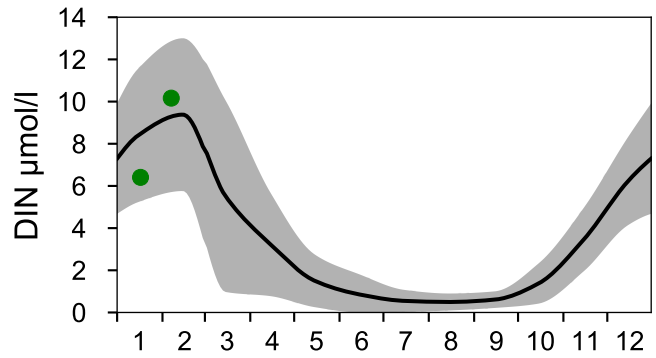
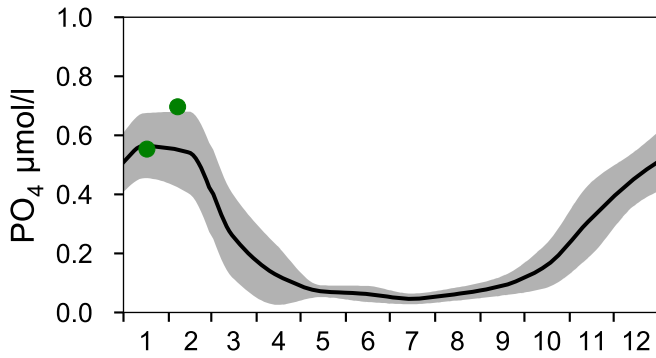
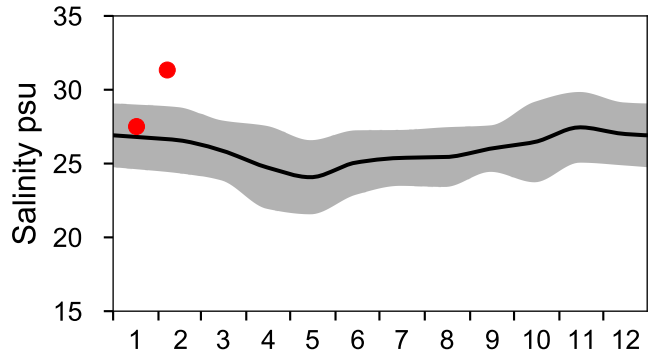
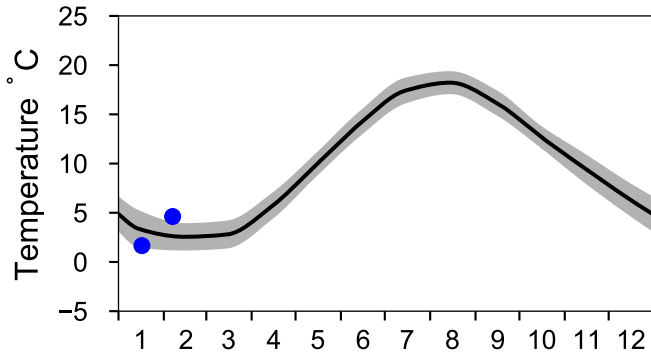
— Mean 1991-2020 ■ St.Dev. ● 2024-02-07



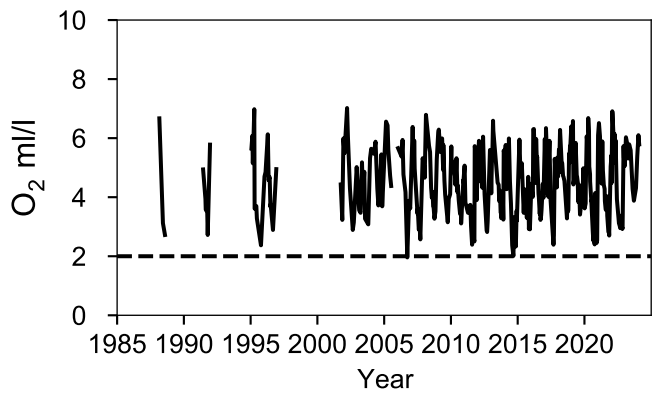
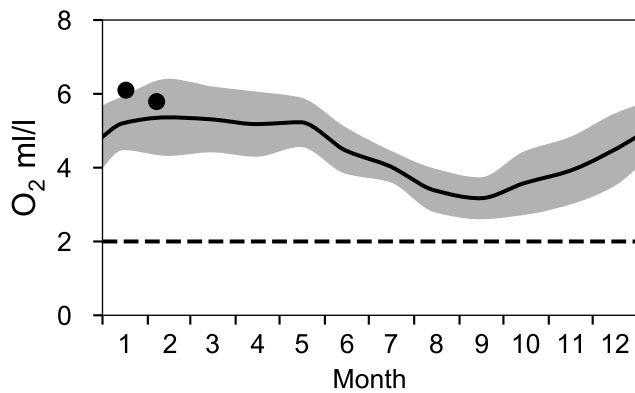
STATION SLÄGGÖ SURFACE WATER (0-10 m)

Annual Cycles

— Mean 1991-2020 St.Dev. ● 2024

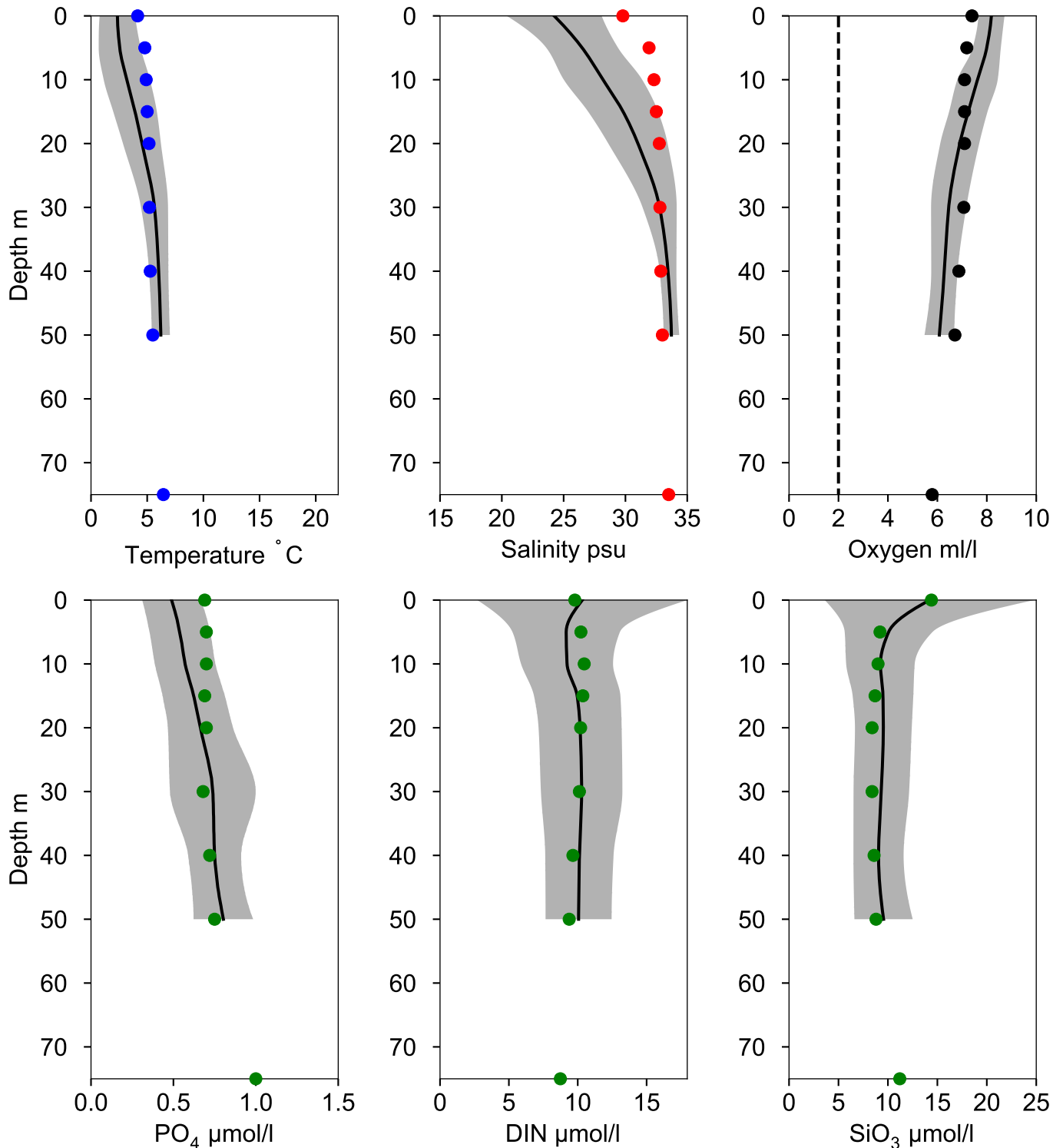


OXYGEN IN BOTTOM WATER (depth >= 64 m)



Vertical profiles SLÄGGÖ February

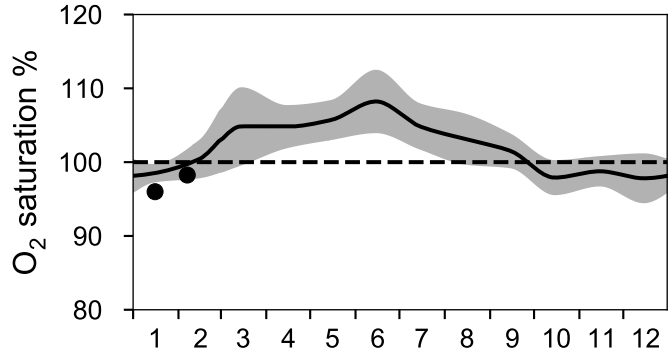
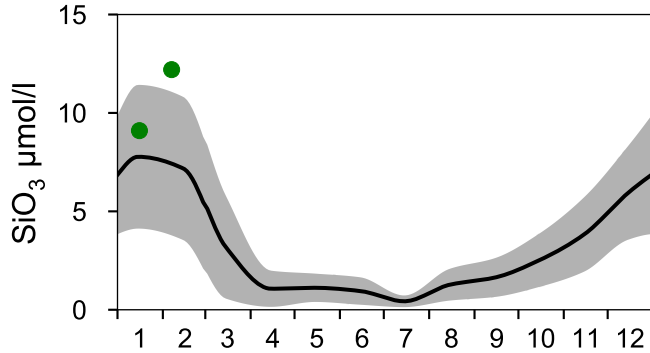
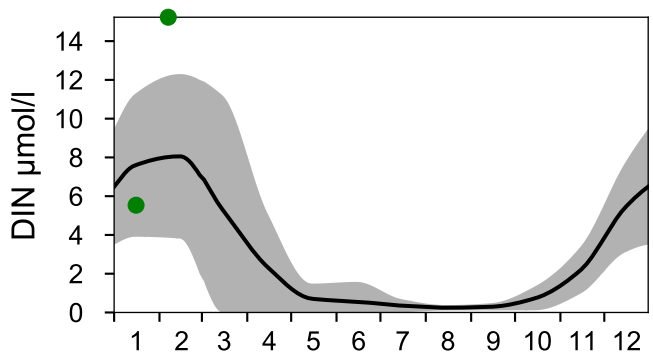
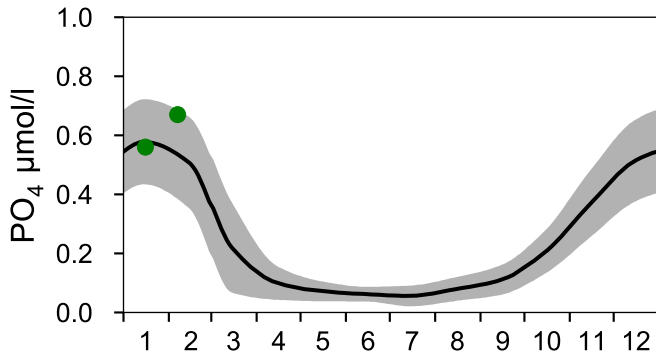
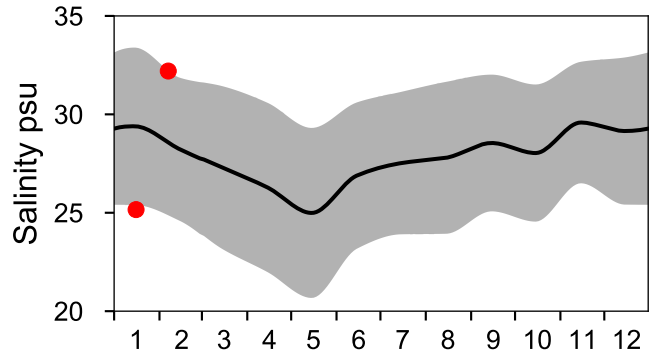
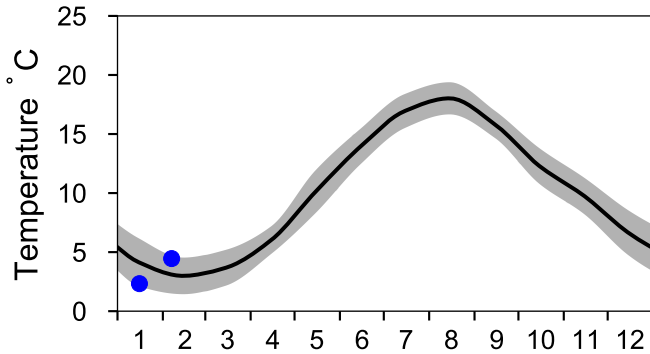
— Mean 1991-2020 St.Dev. ● 2024-02-07



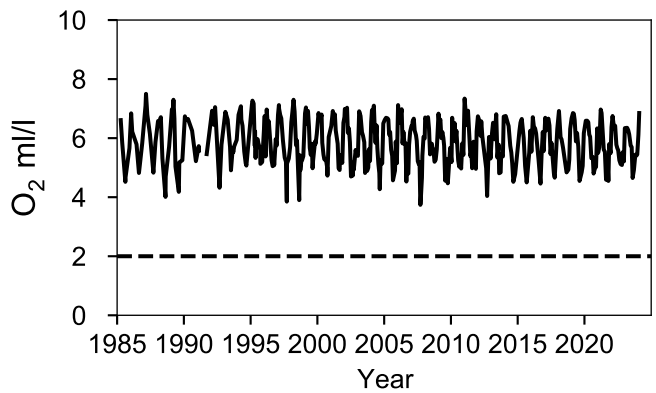
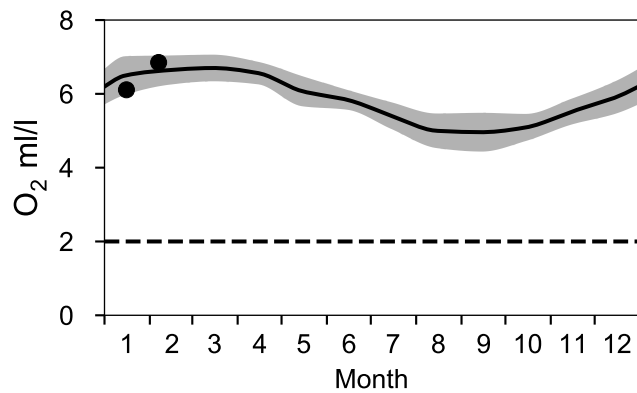
STATION P2 SURFACE WATER (0-10 m)

Annual Cycles

— Mean 1991-2020 St.Dev. ● 2024



OXYGEN IN BOTTOM WATER (depth >= 75 m)

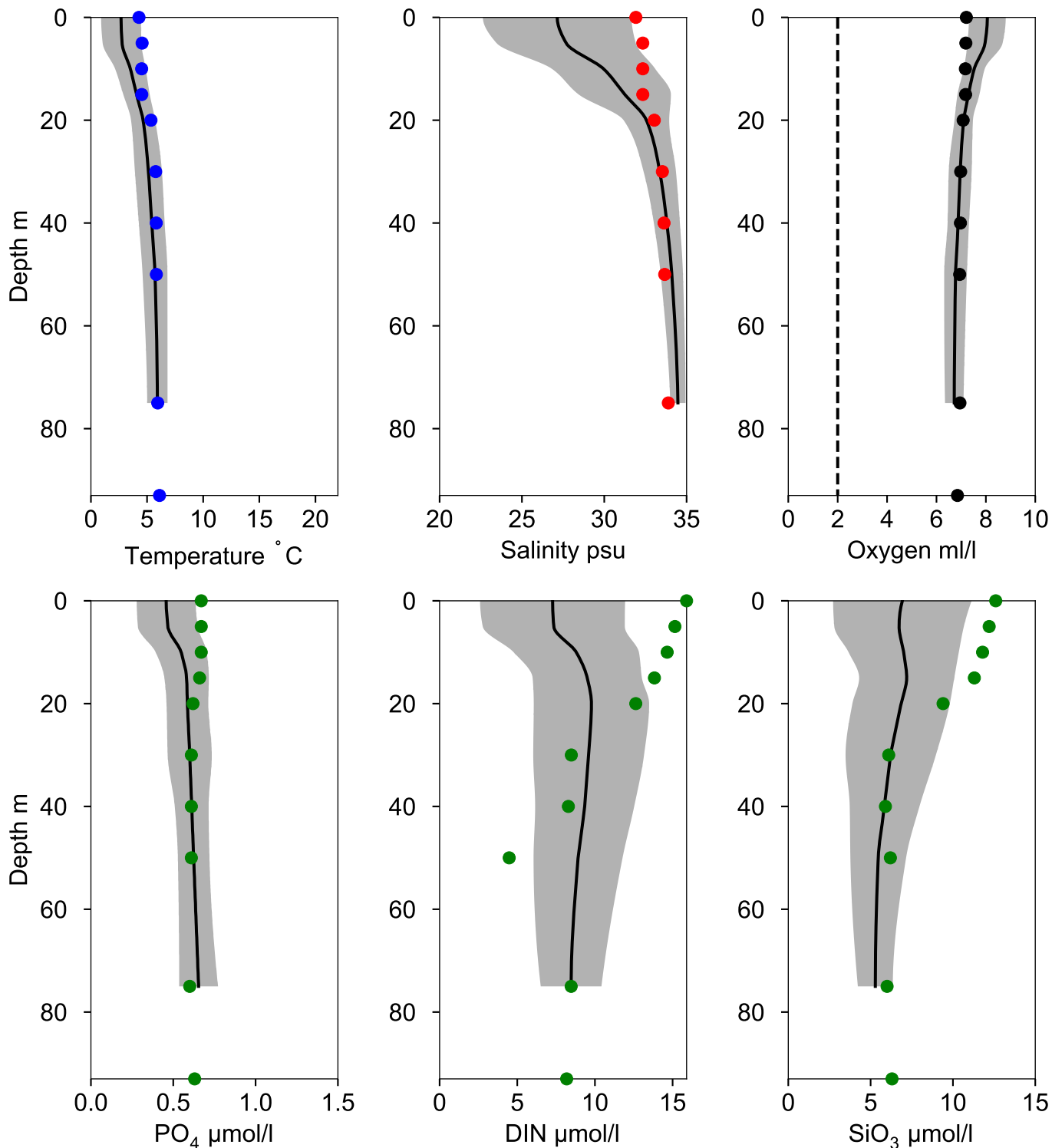


Vertical profiles P2 February

— Mean 1991-2020

■ St.Dev.

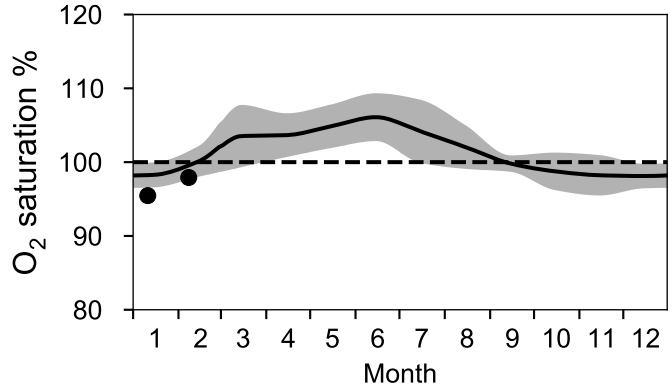
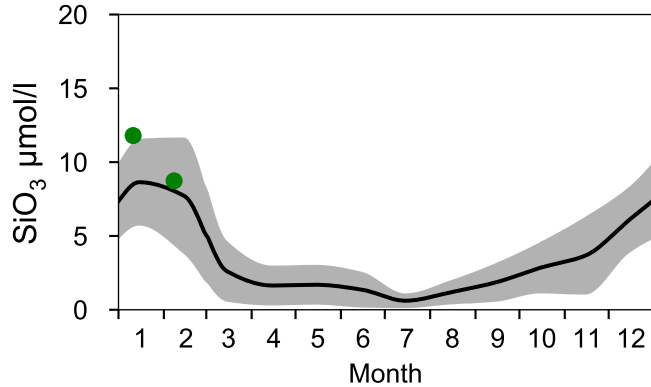
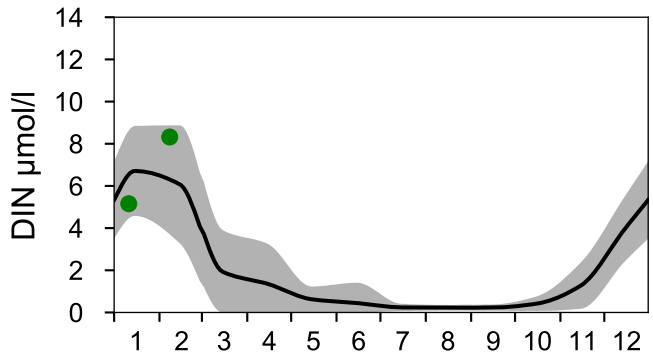
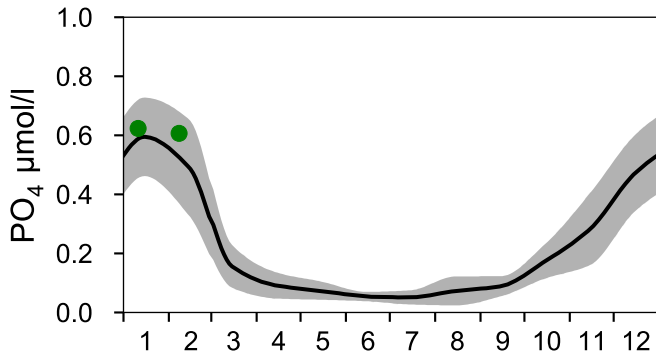
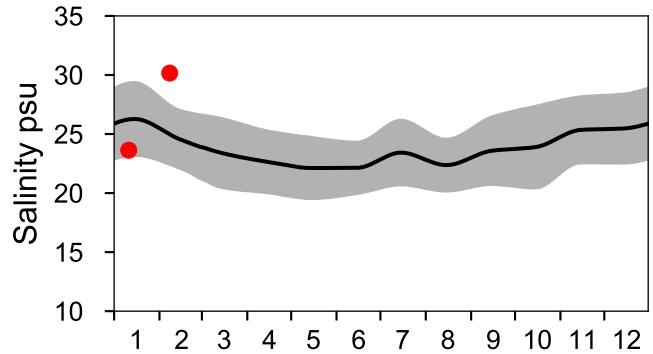
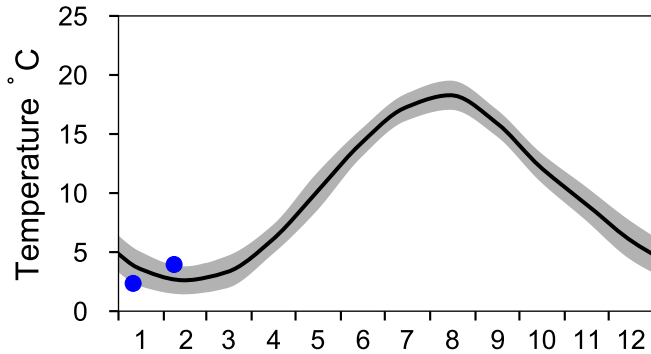
● 2024-02-07



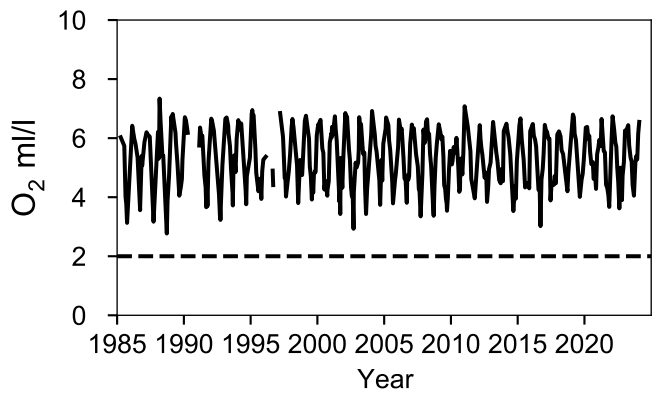
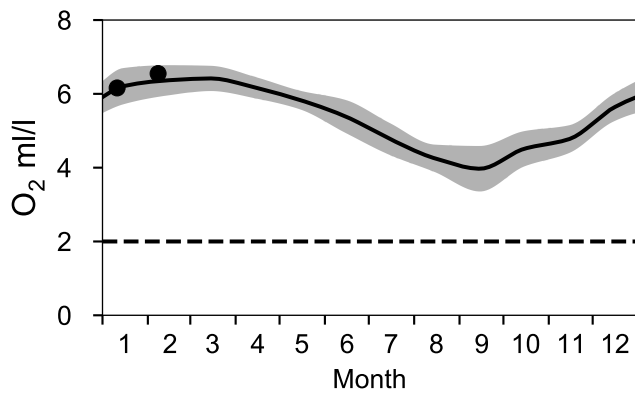
STATION FLADEN SURFACE WATER (0-10 m)

Annual Cycles

— Mean 1991-2020 St.Dev. ● 2024

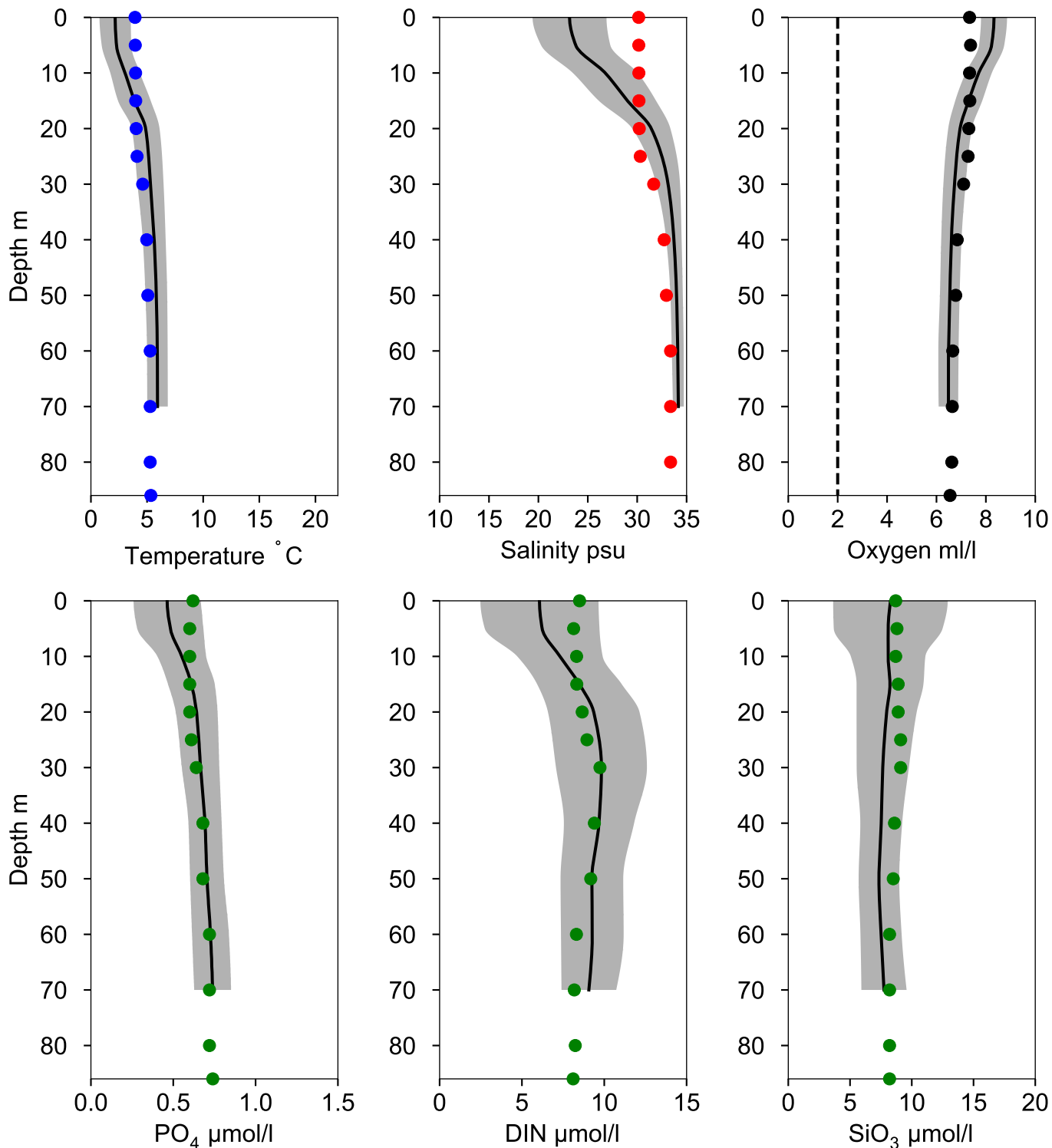


OXYGEN IN BOTTOM WATER (depth >= 74 m)



Vertical profiles FLADEN February

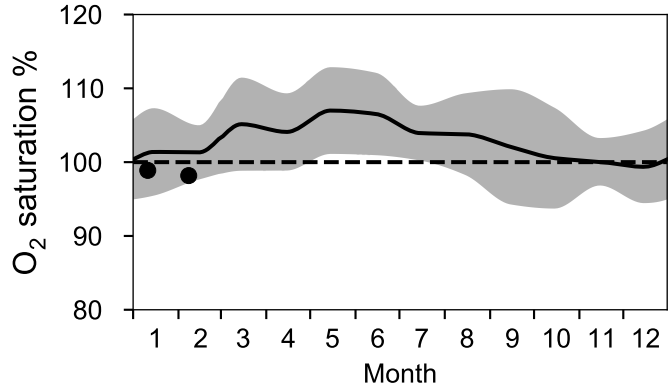
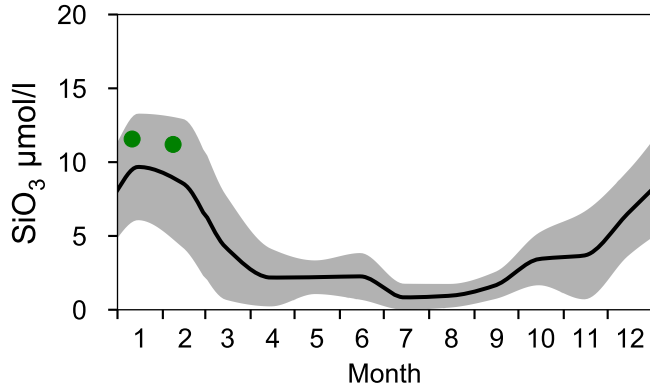
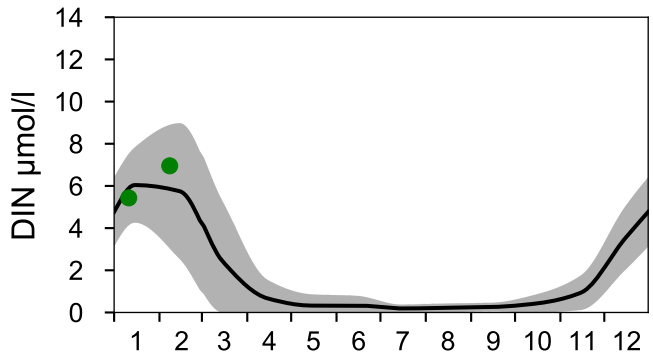
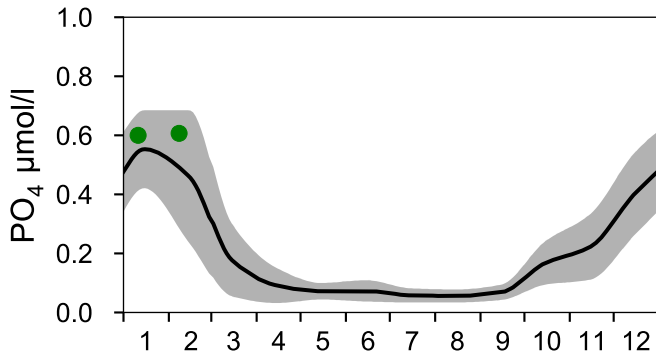
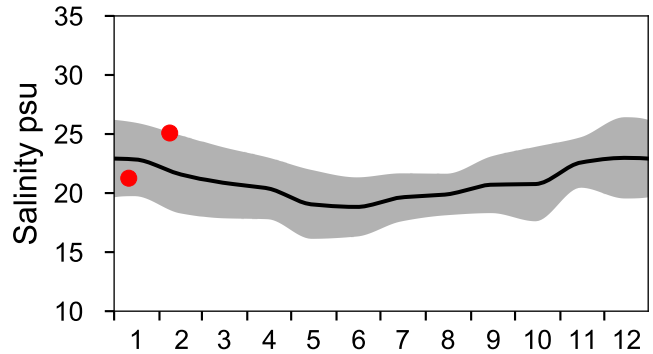
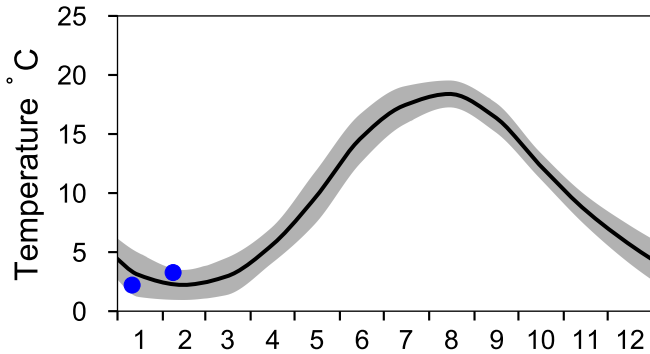
— Mean 1991-2020 St.Dev. ● 2024-02-08



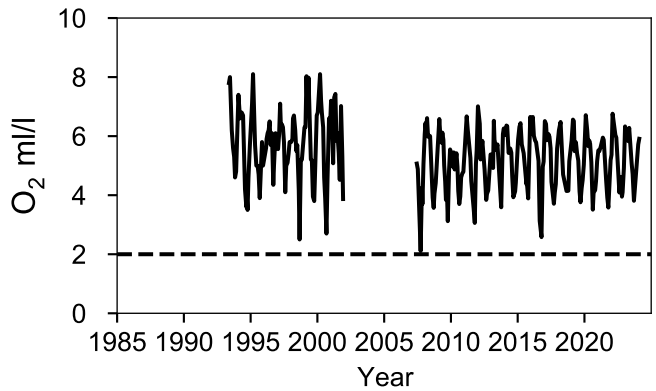
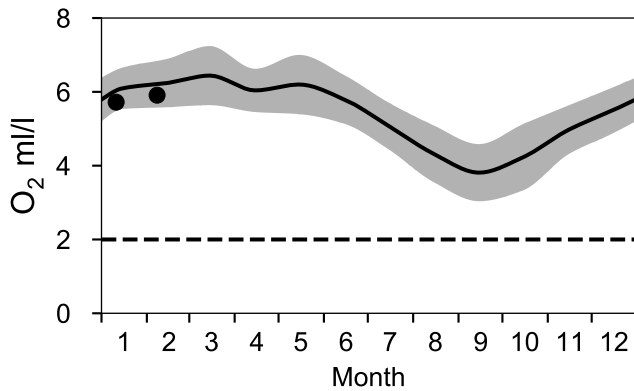
STATION N14 FALKENBERG SURFACE WATER (0-10 m)

Annual Cycles

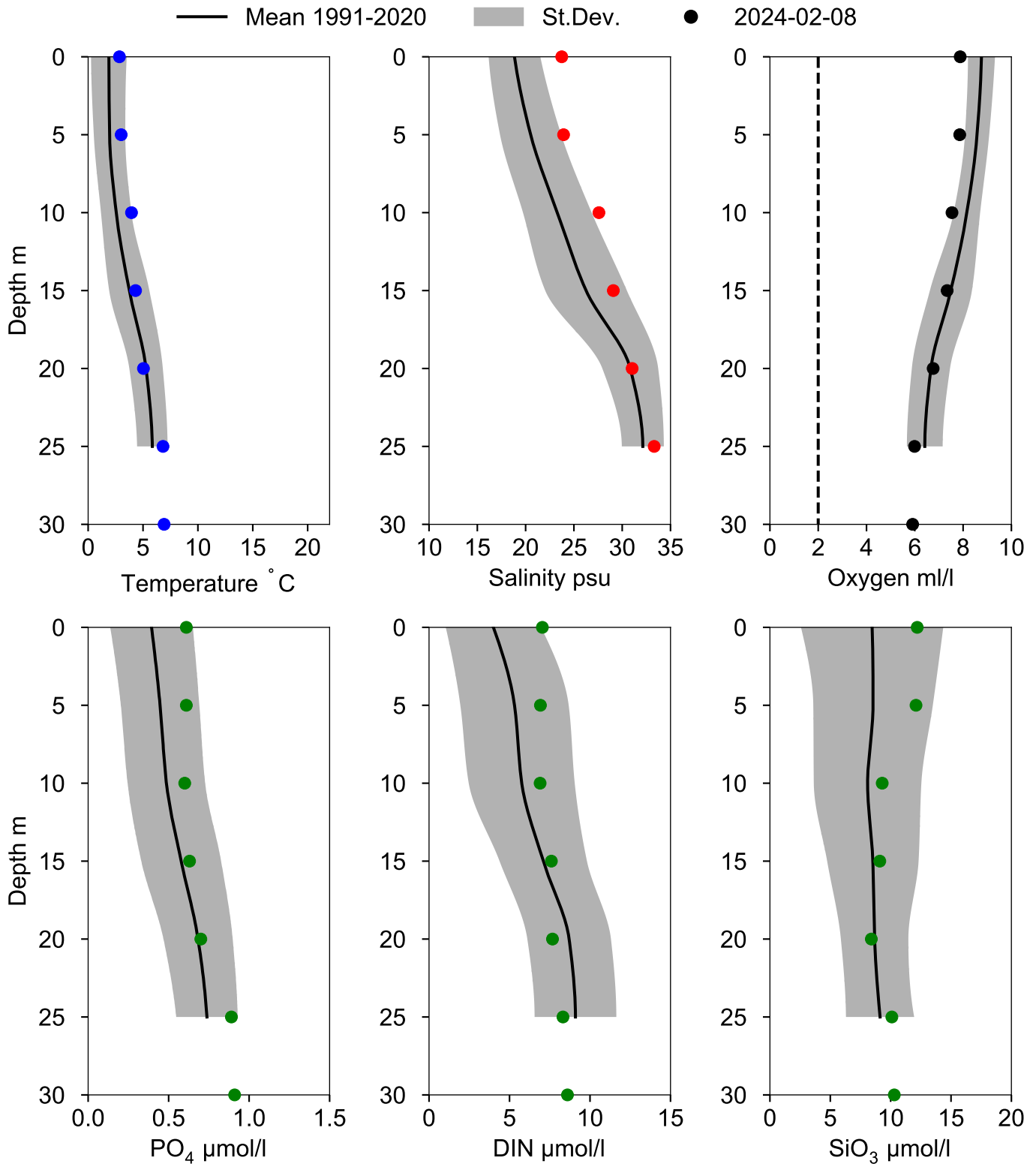
— Mean 1991-2020 St.Dev. ● 2024



OXYGEN IN BOTTOM WATER (depth >= 25 m)



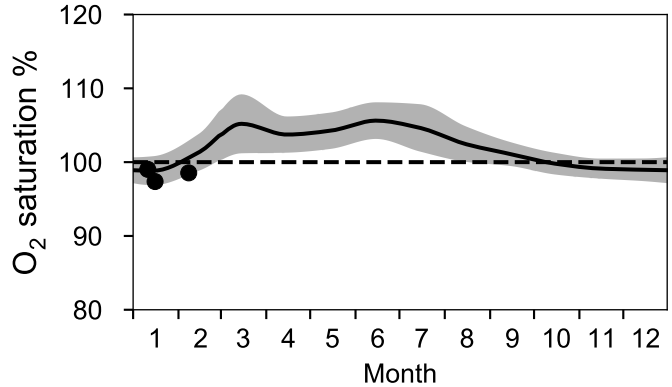
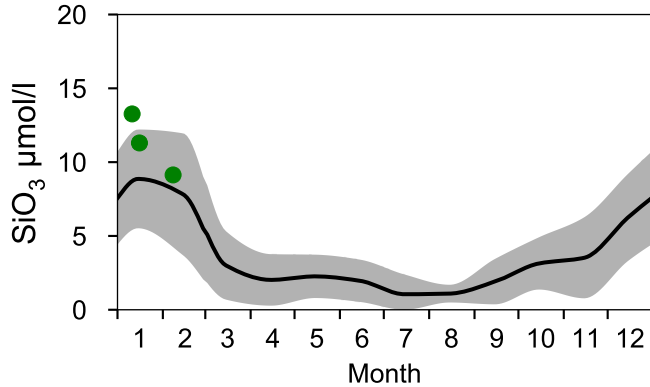
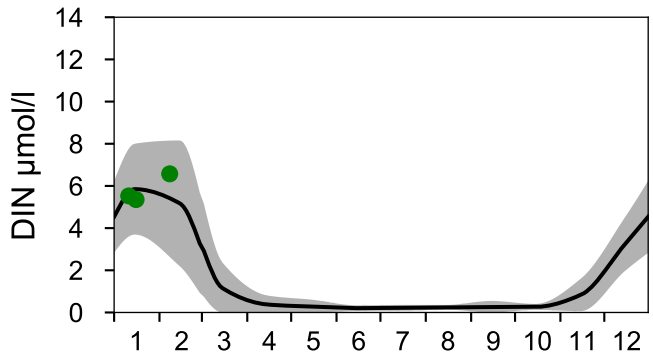
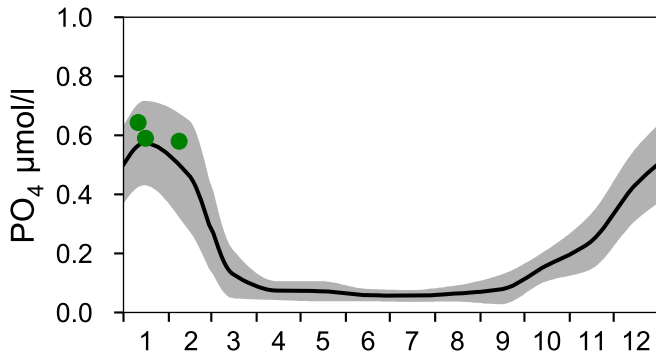
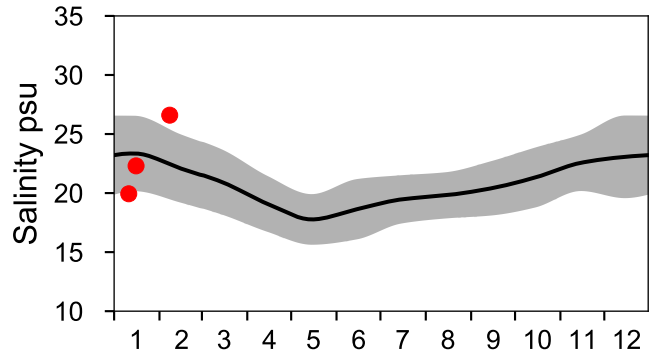
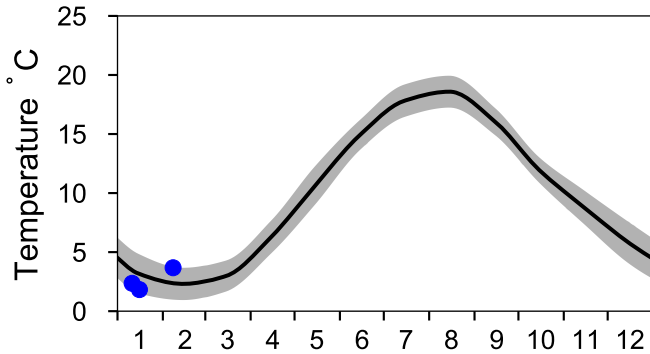
Vertical profiles N14 FALKENBERG February



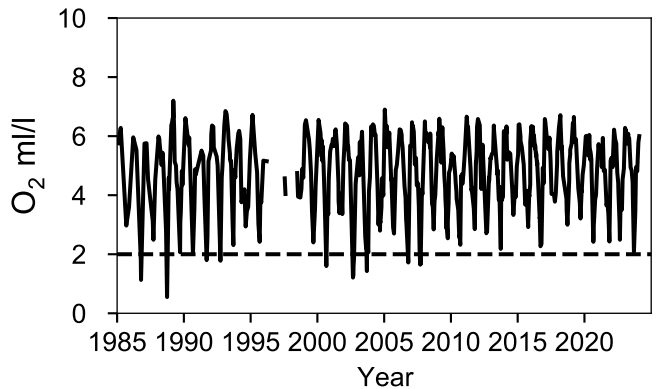
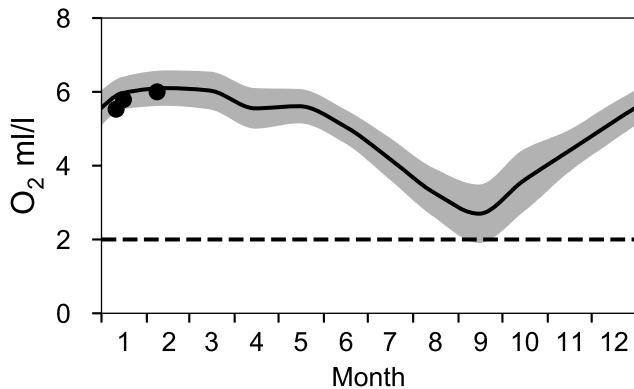
STATION ANHOLT E SURFACE WATER (0-10 m)

Annual Cycles

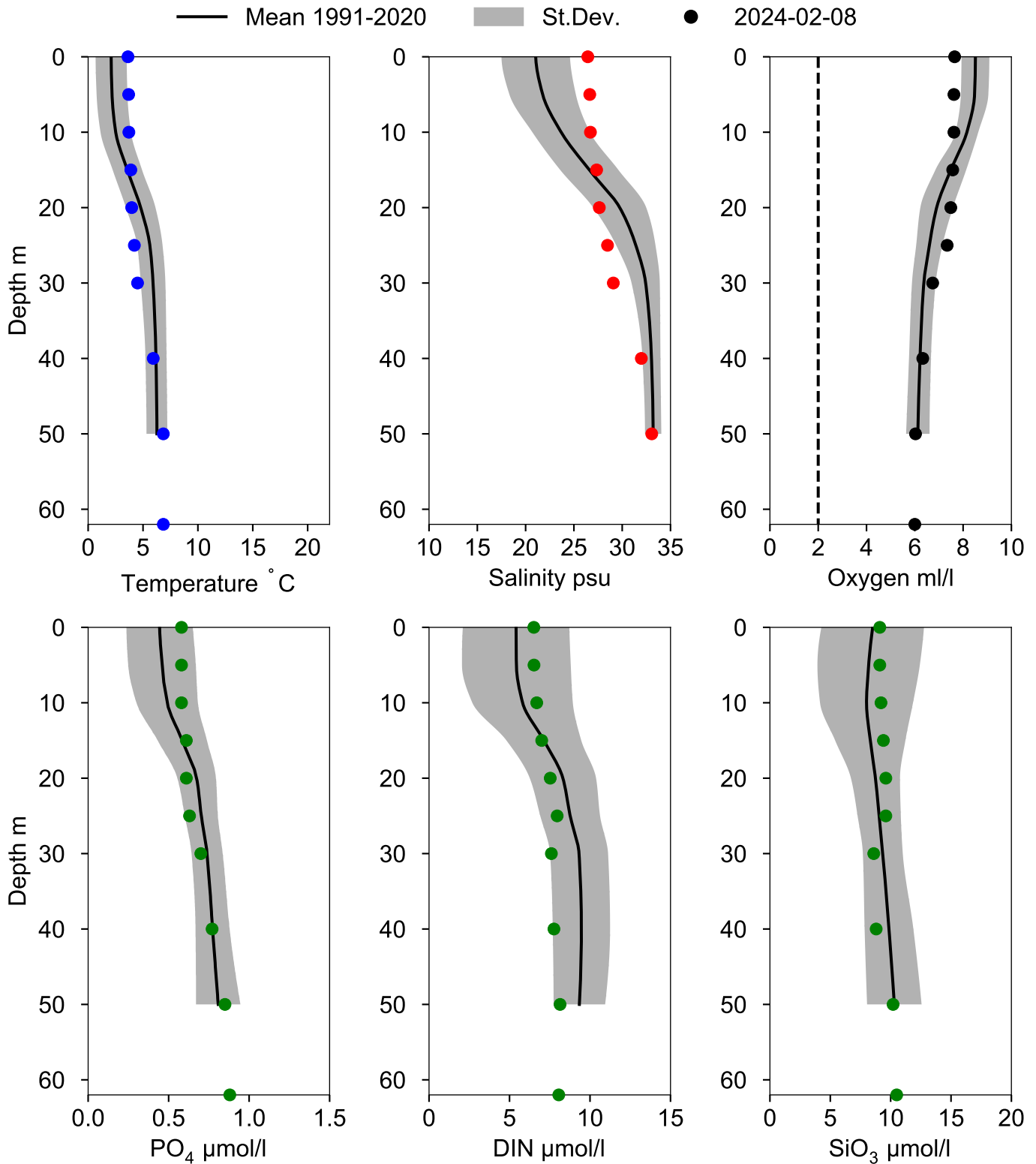
— Mean 1991-2020 St.Dev. ● 2024



OXYGEN IN BOTTOM WATER (depth >= 52 m)



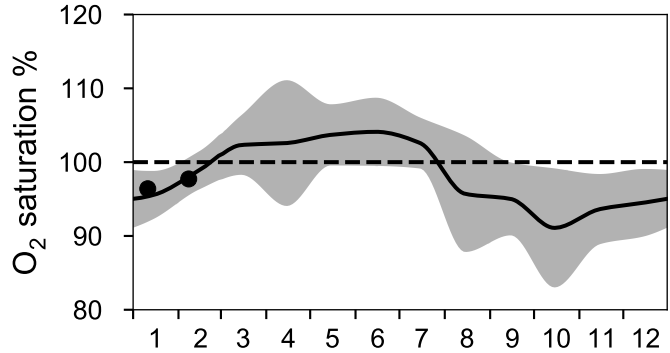
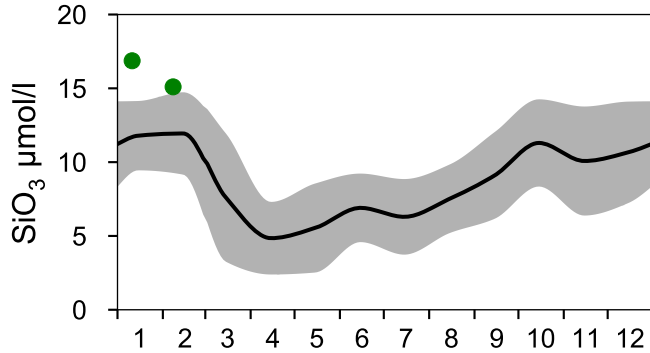
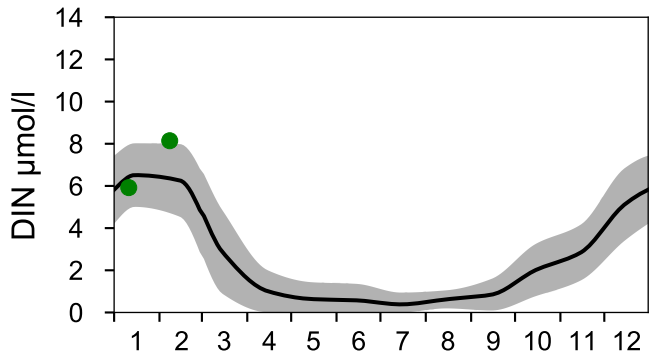
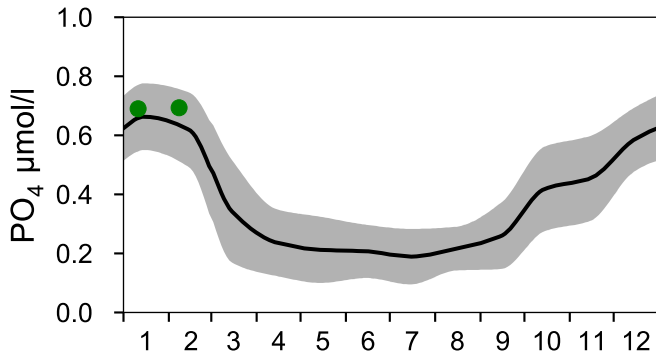
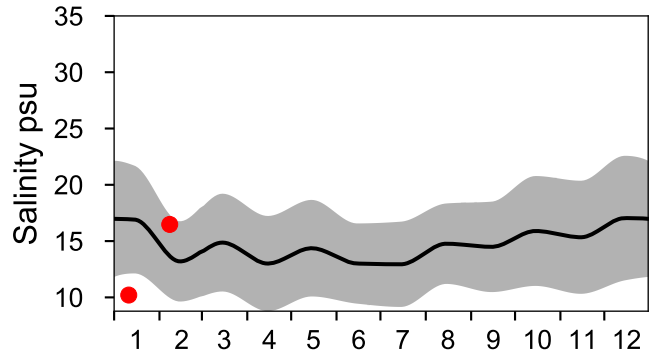
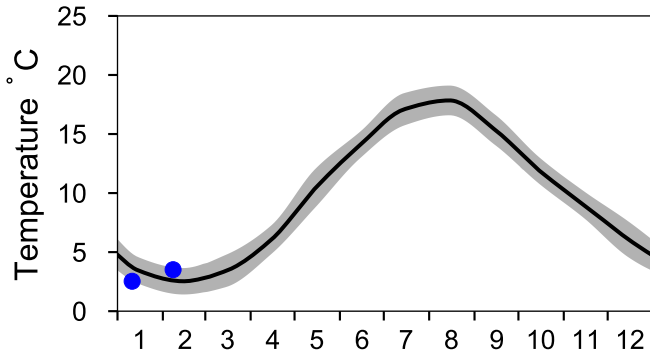
Vertical profiles ANHOLT E February



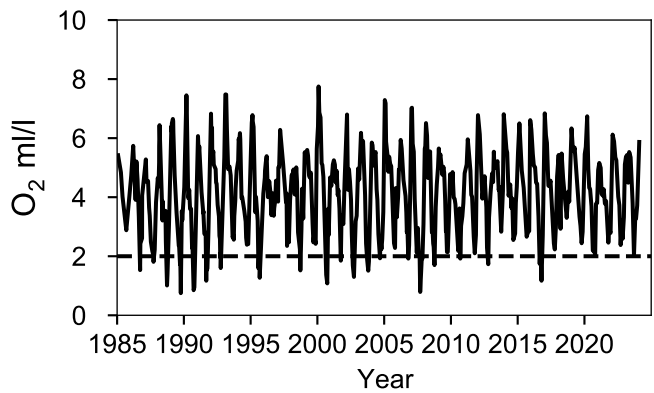
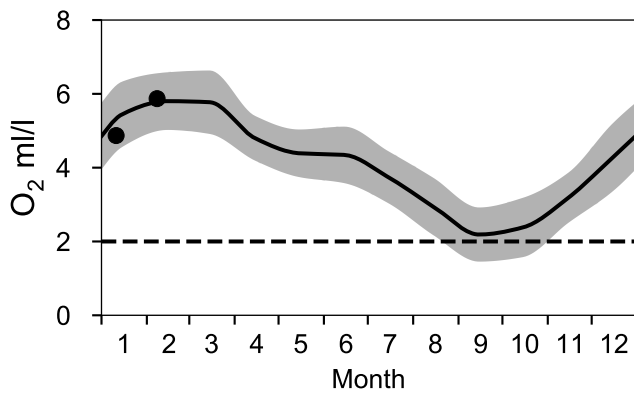
STATION W LANDSKRONA SURFACE WATER (0-10 m)

Annual Cycles

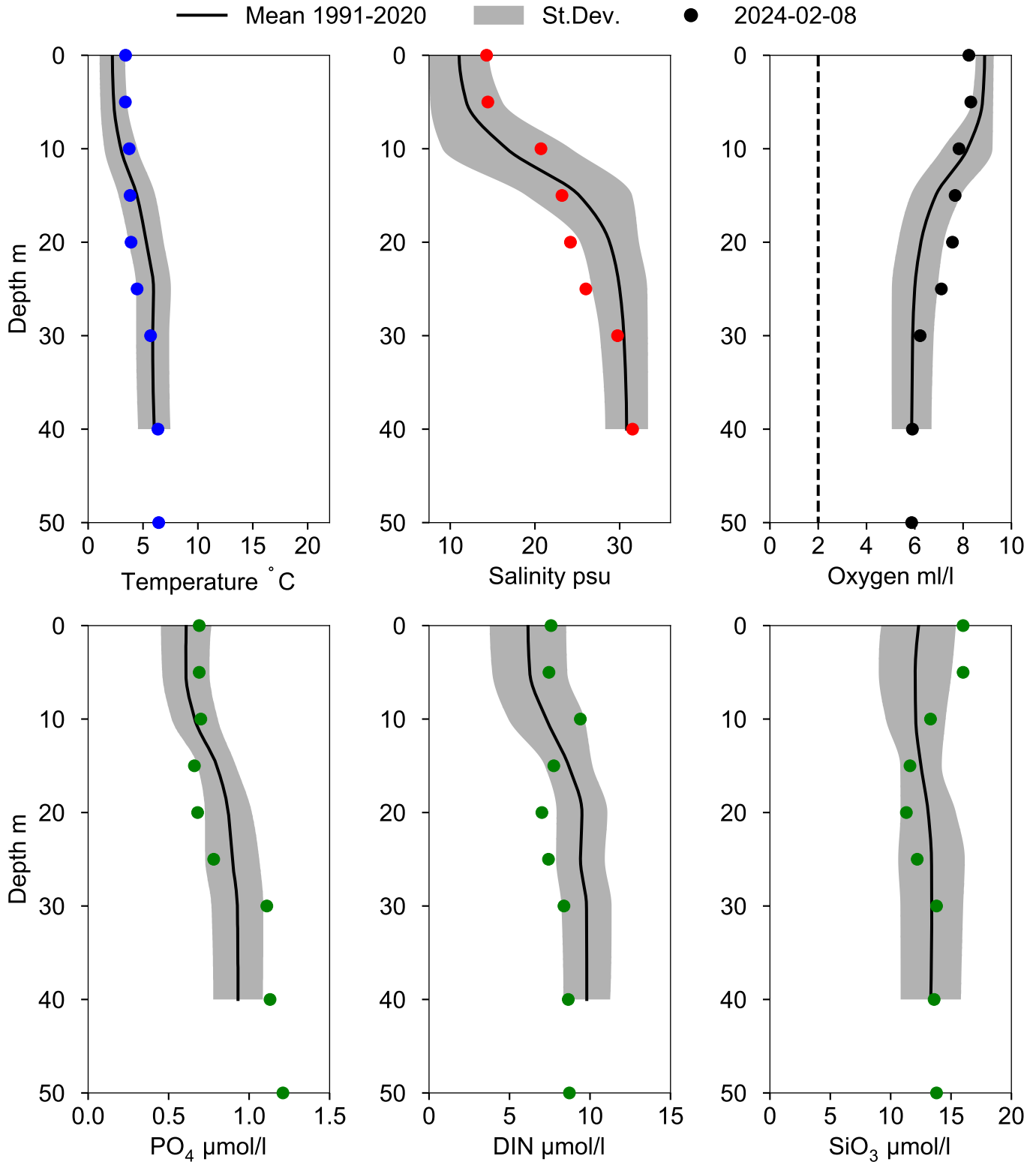
— Mean 1991-2020 St.Dev. ● 2024



OXYGEN IN BOTTOM WATER (depth >= 40 m)



Vertical profiles W LANDSKRONA February

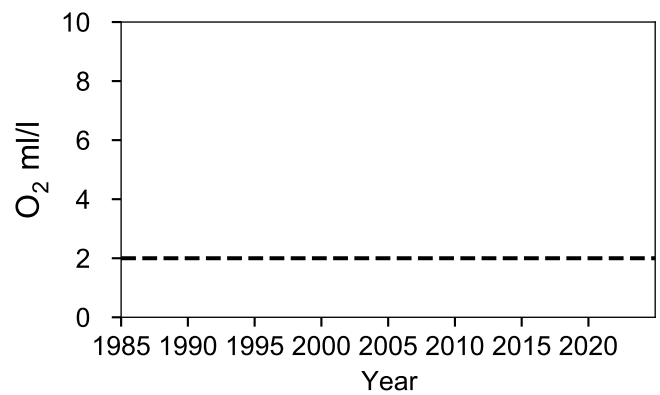
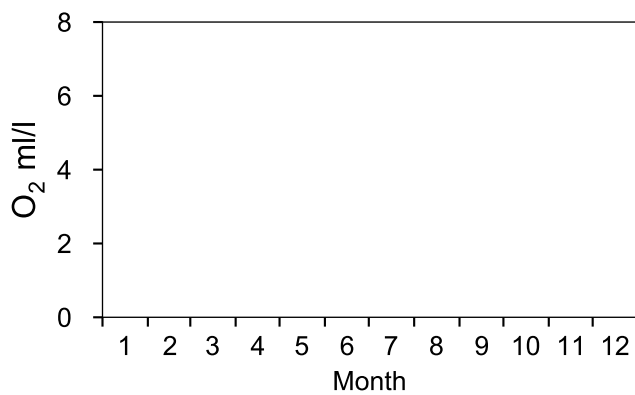
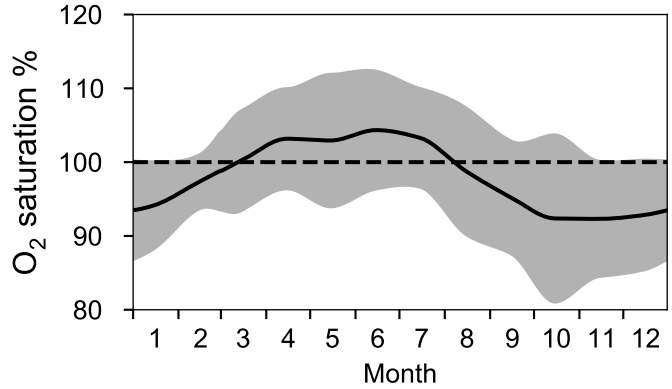
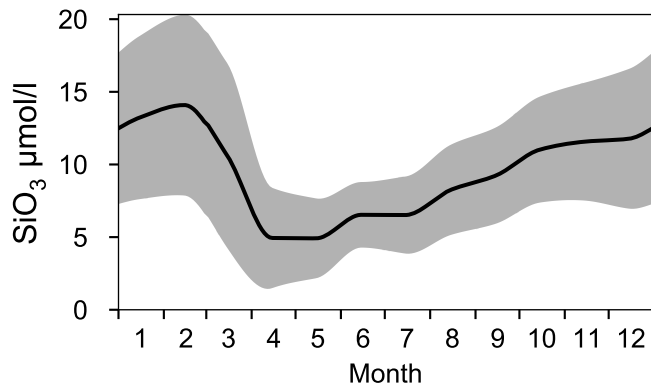
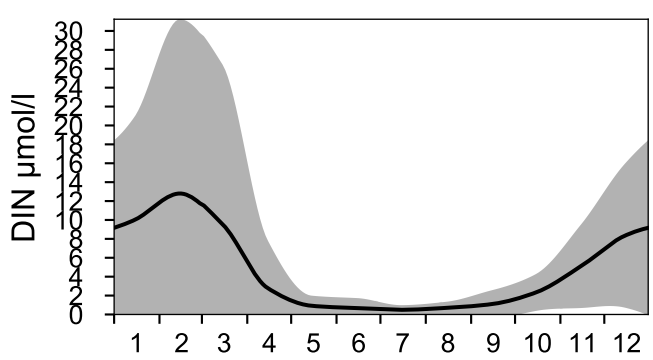
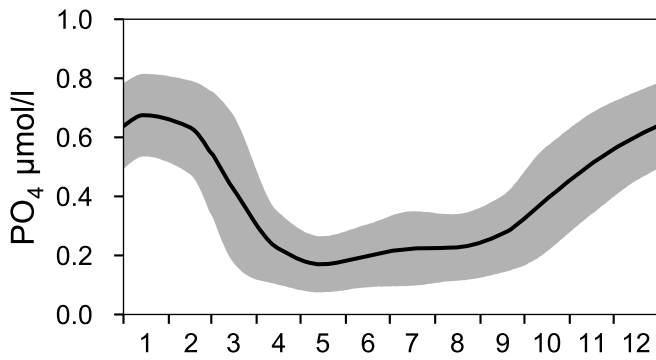
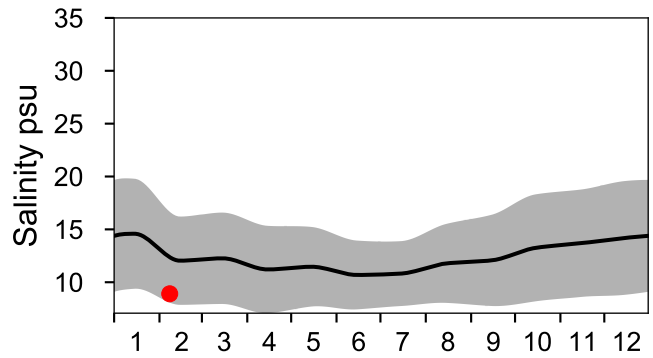
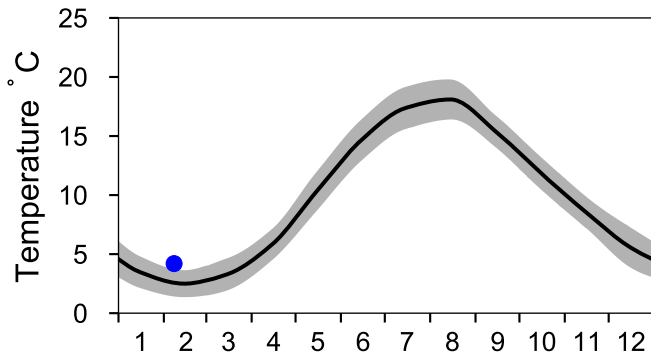


STATION FLINTEN 7 SURFACE WATER (0-10 m)

Annual Cycles

Statistics based on data from: Öresund

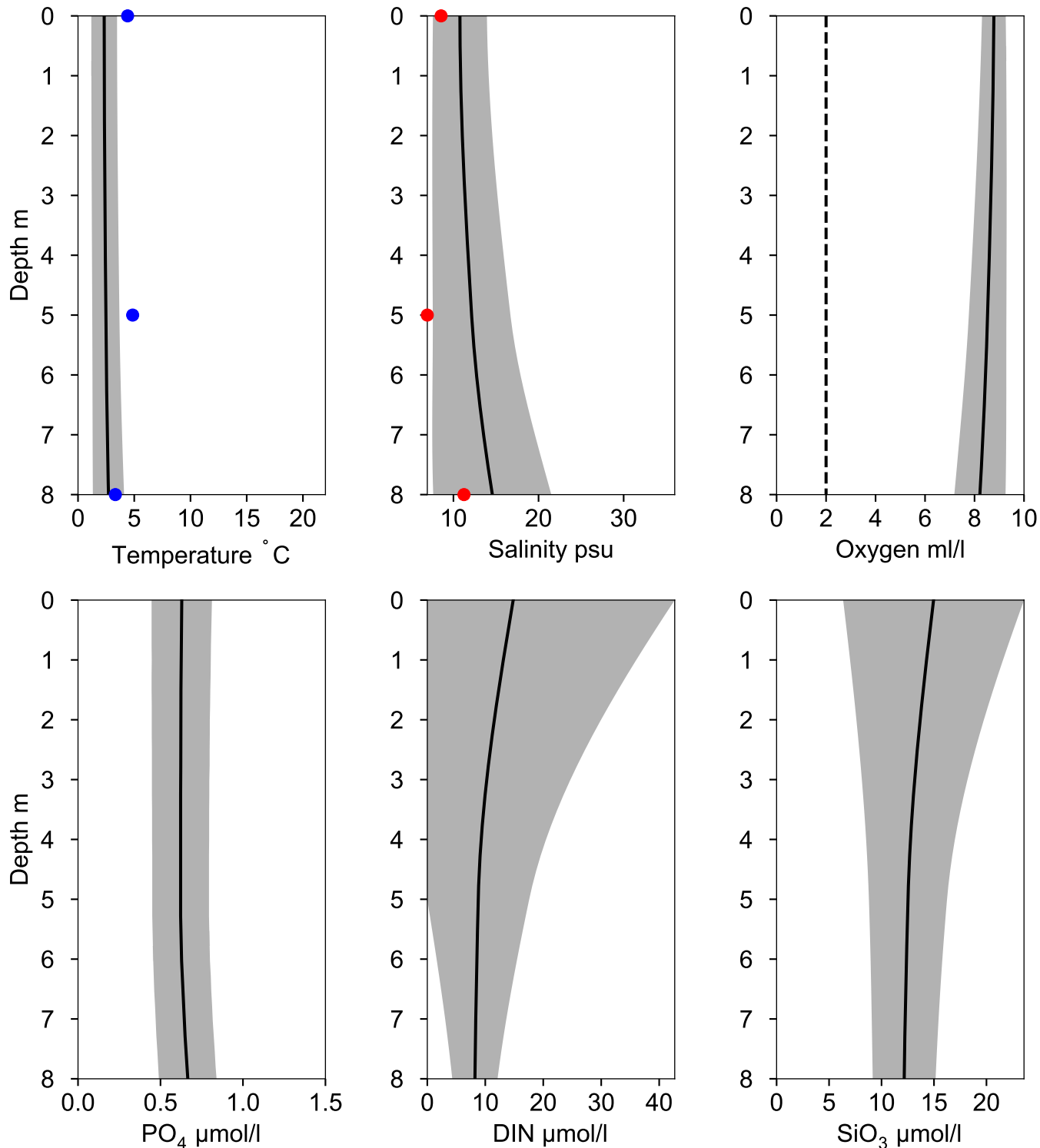
— Mean 1991-2020 St.Dev. ● 2024



Vertical profiles FLINTEN 7 February

Statistics based on data from: Öresund

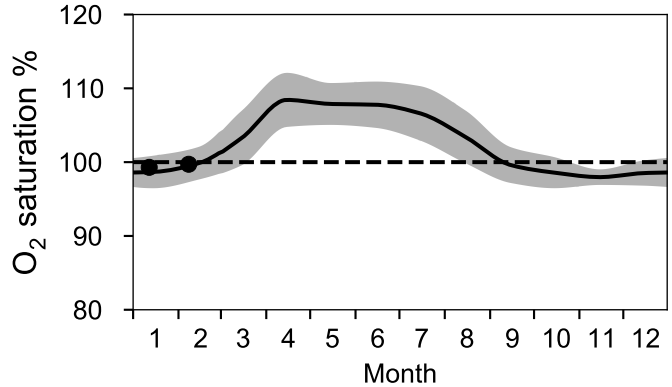
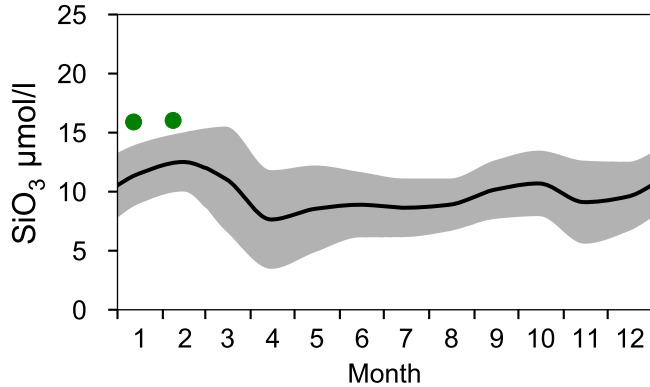
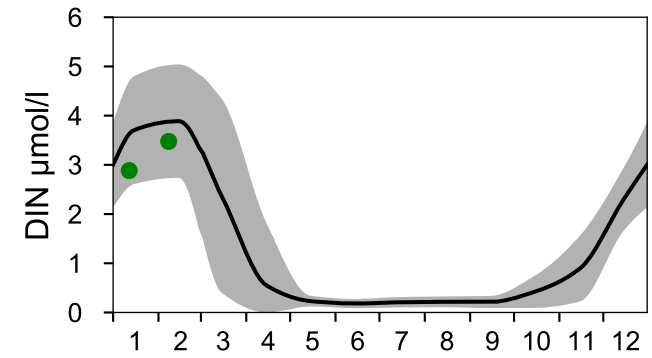
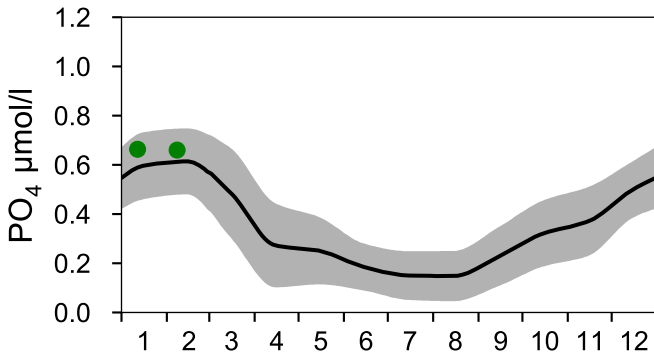
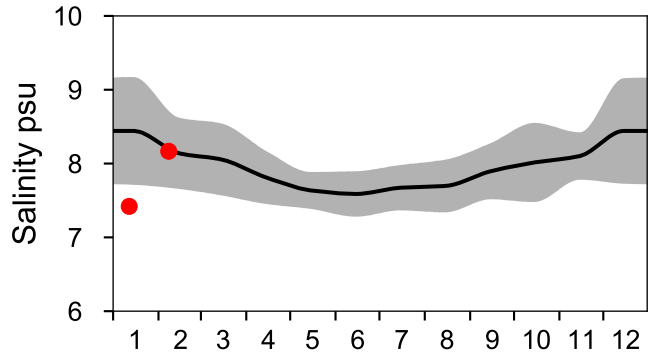
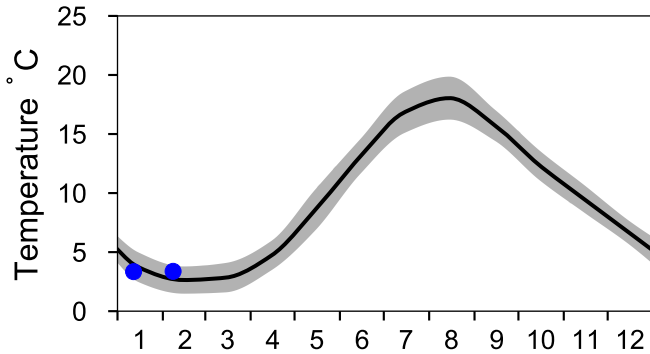
— Mean 1991-2020 ■ St.Dev. ● 2024-02-08



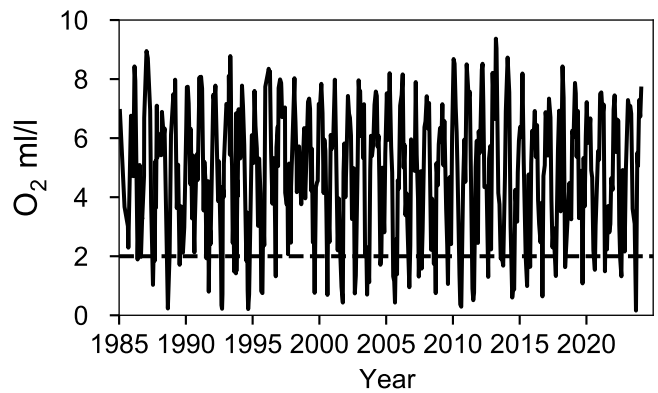
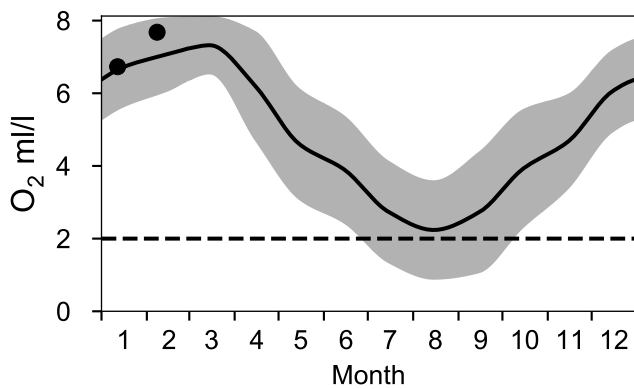
STATION BY1 SURFACE WATER (0-10 m)

Annual Cycles

— Mean 1991-2020 St.Dev. ● 2024

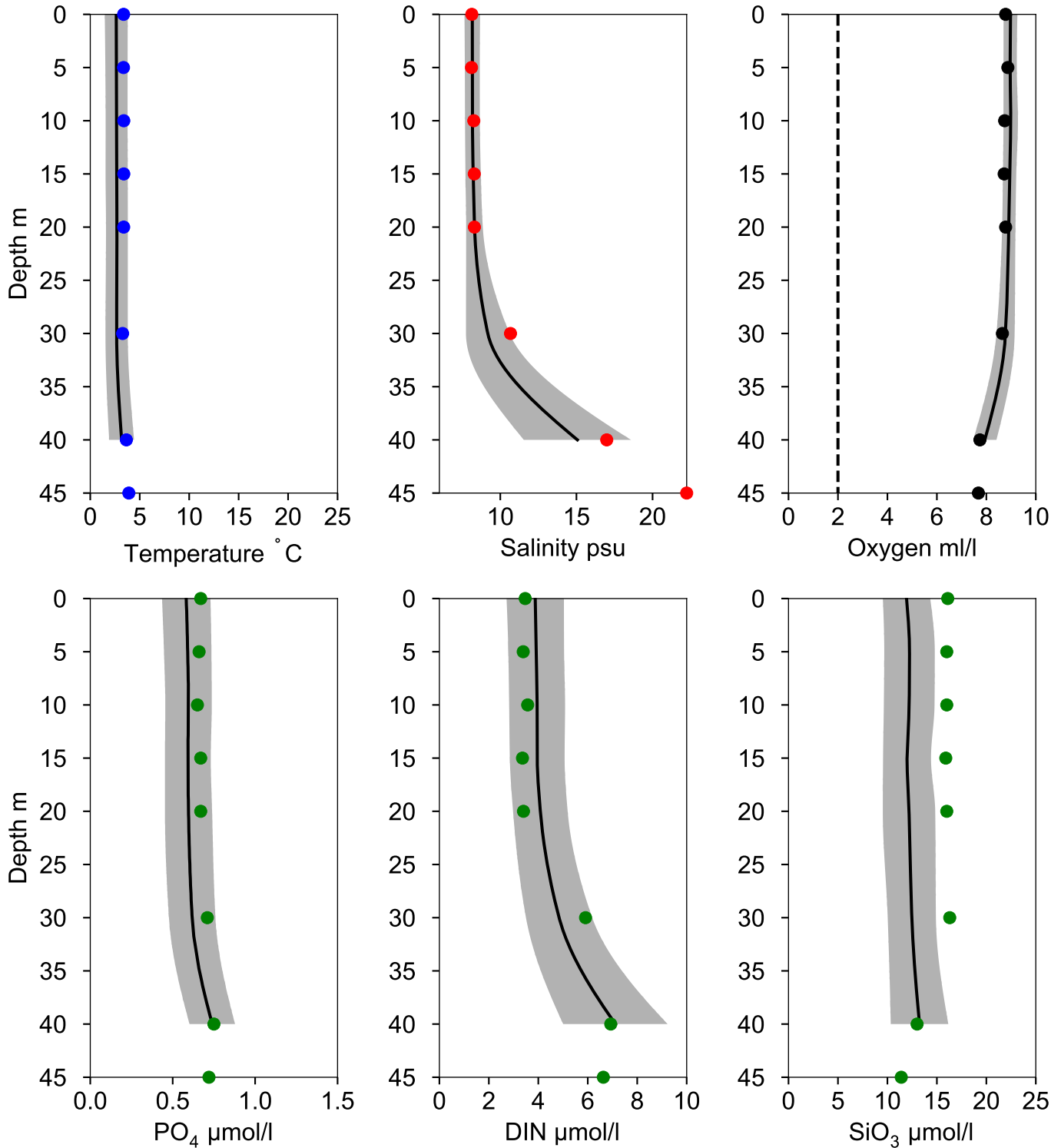


OXYGEN IN BOTTOM WATER (depth >= 39 m)



Vertical profiles BY1 February

— Mean 1991-2020 ■ St.Dev. ● 2024-02-08



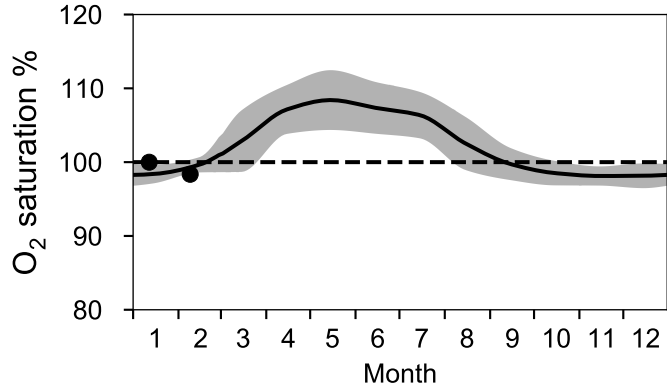
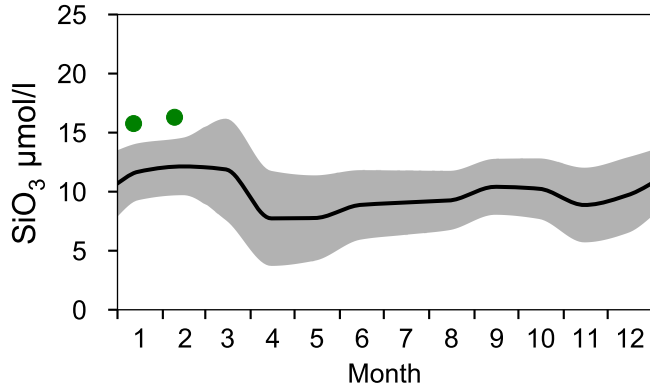
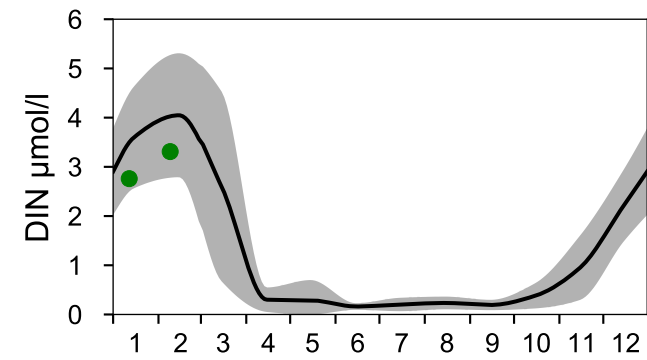
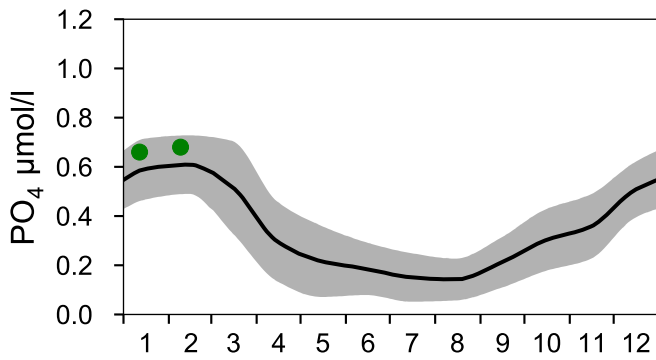
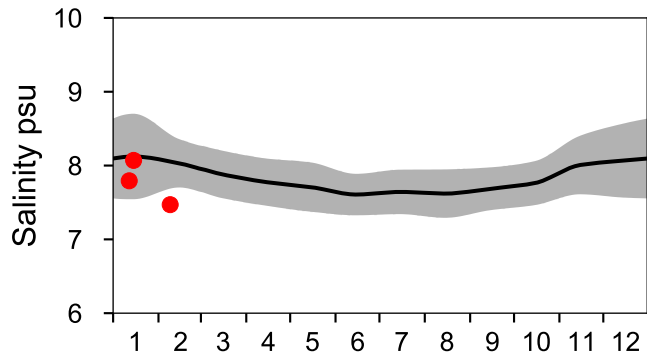
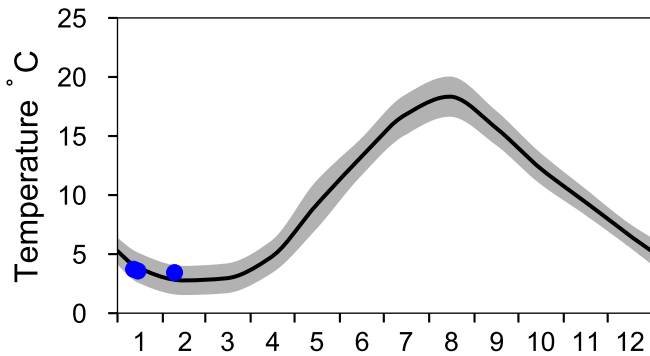
STATION BY2 ARKONA SURFACE WATER (0-10 m)

Annual Cycles

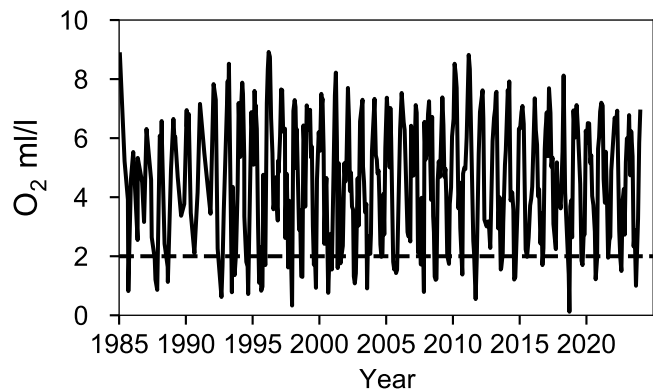
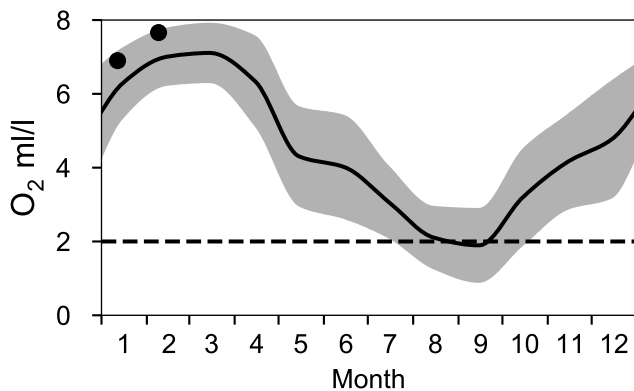
— Mean 1991-2020

■ St.Dev.

● 2024

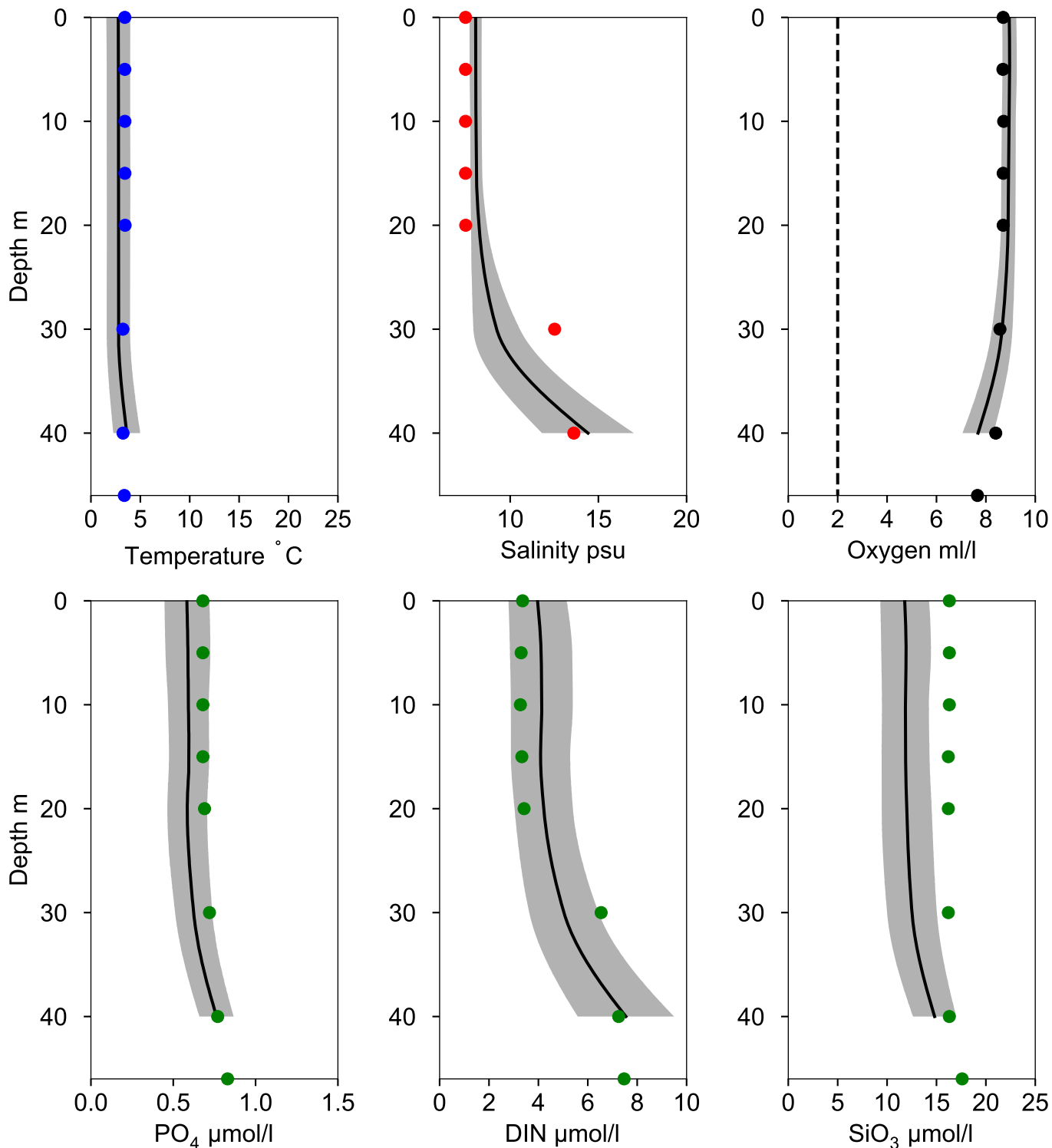


OXYGEN IN BOTTOM WATER (depth >= 40 m)



Vertical profiles BY2 ARKONA February

— Mean 1991-2020 St.Dev. ● 2024-02-09

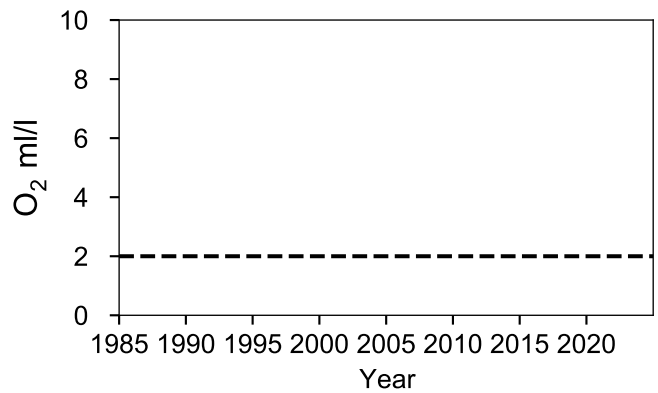
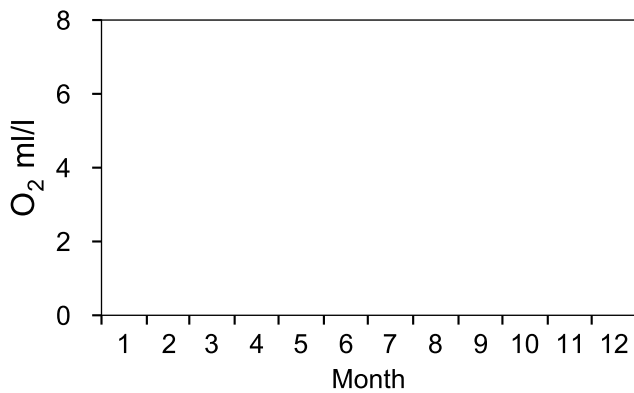
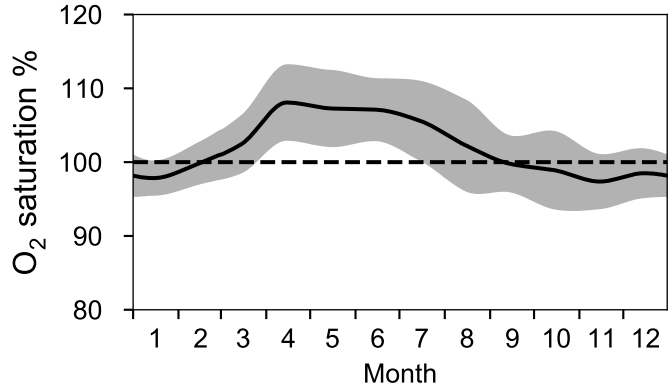
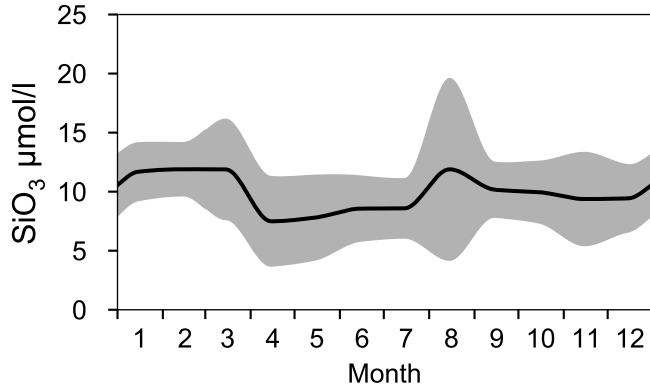
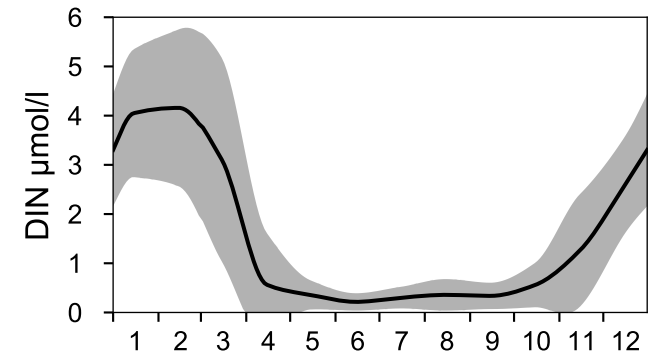
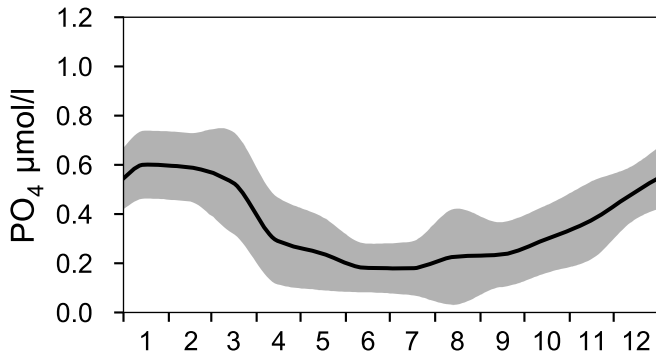
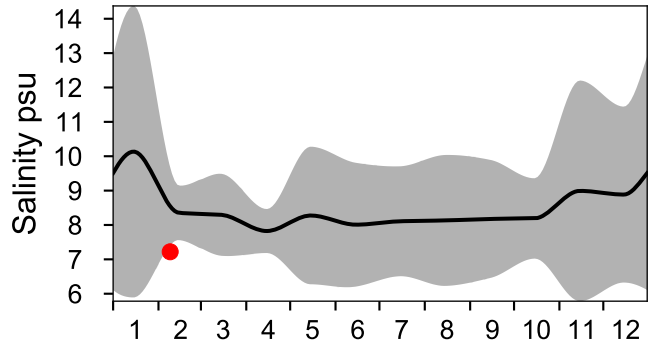
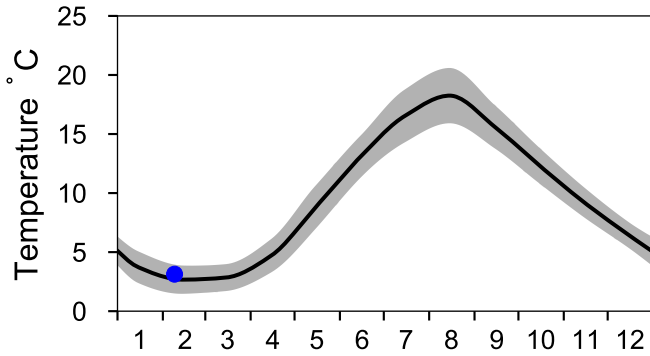


STATION INFLOW 1 SURFACE WATER (0-10 m)

Annual Cycles

Statistics based on data from: Arkonahavet

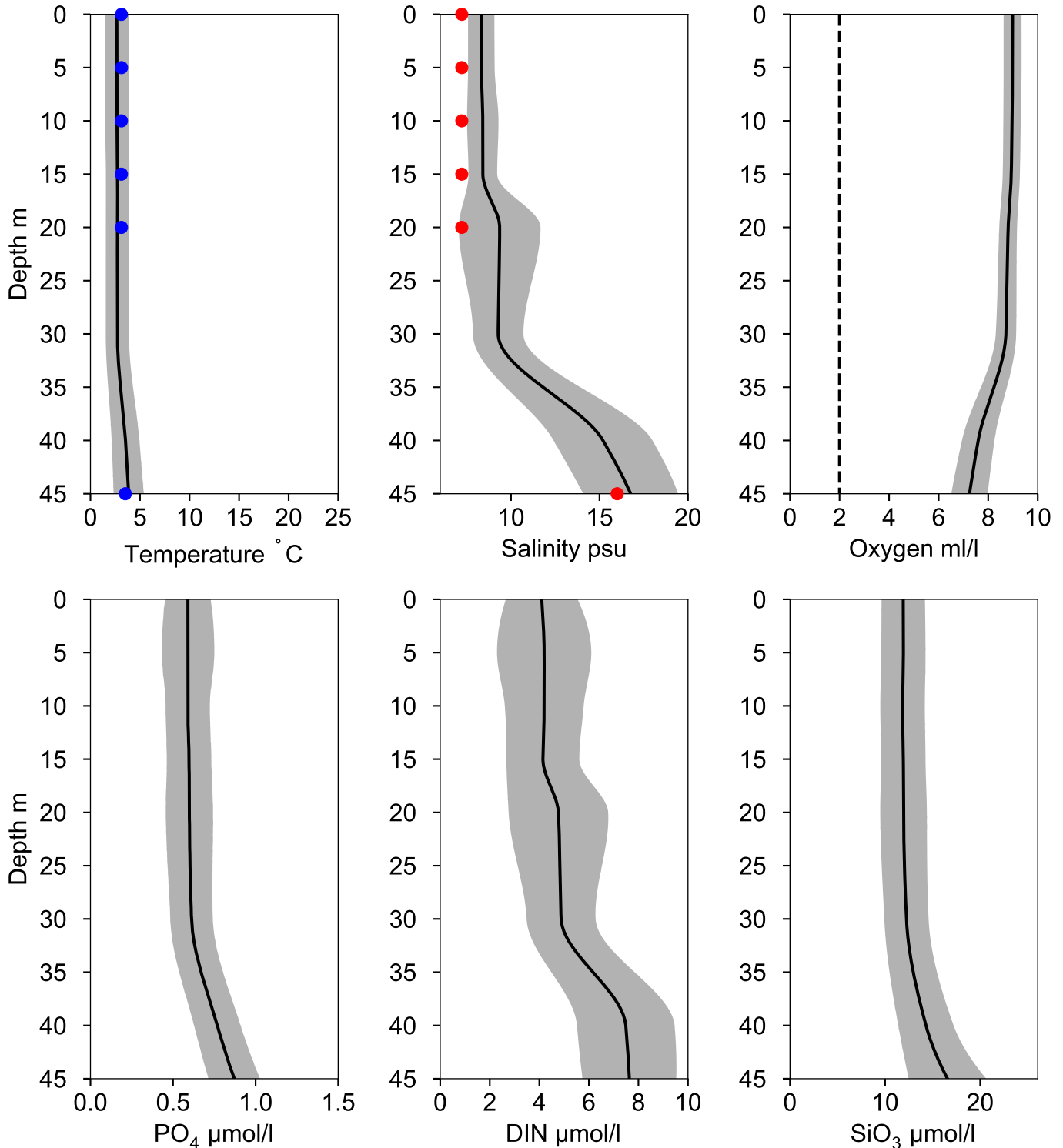
— Mean 1991-2020 St.Dev. ● 2024



Vertical profiles INFLOW 1 February

Statistics based on data from: Arkonahavet

— Mean 1991-2020 St.Dev. ● 2024-02-09

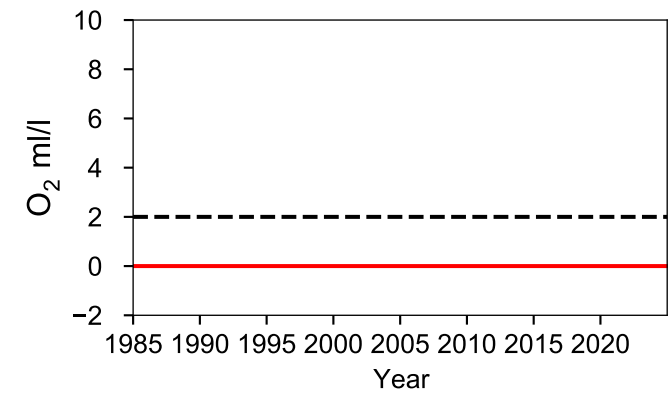
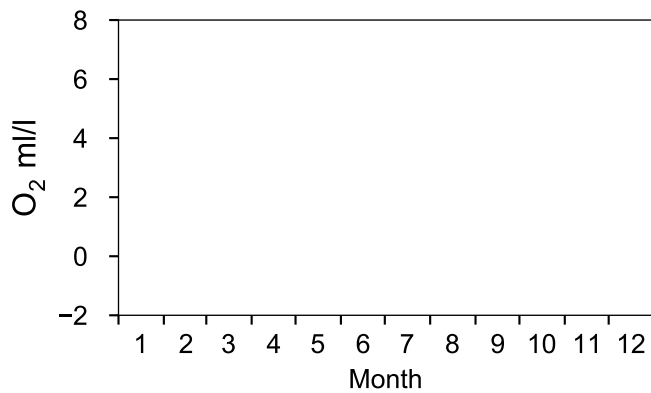
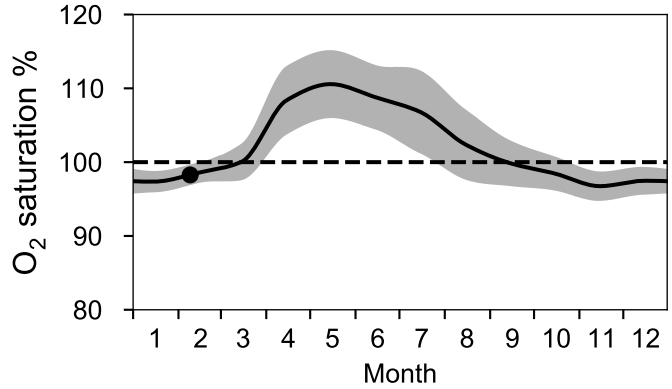
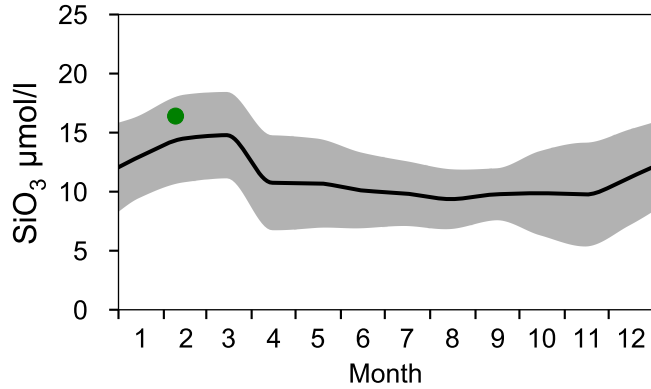
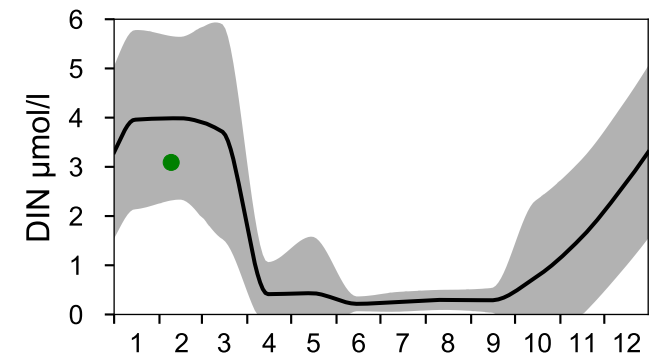
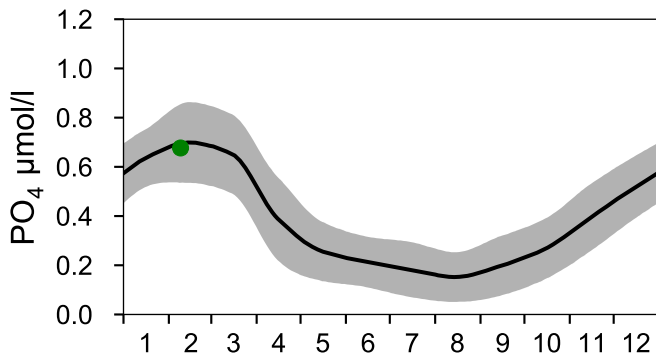
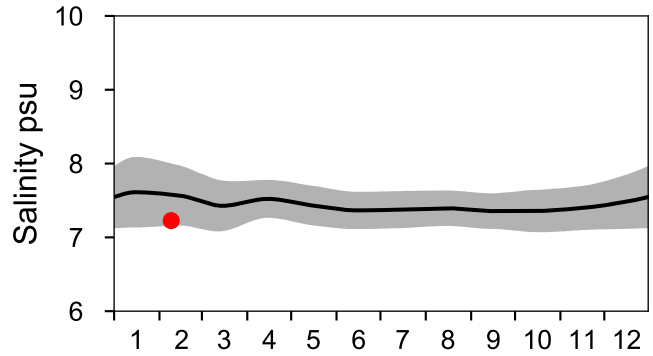
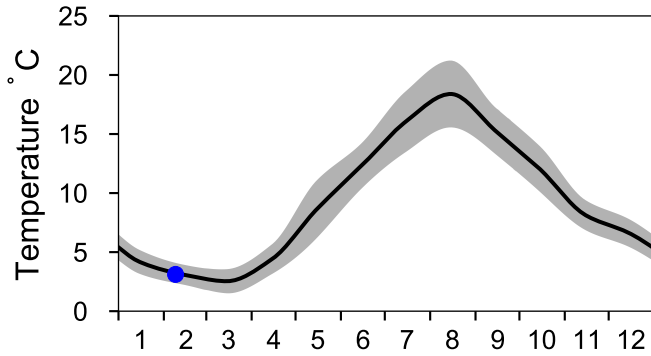


STATION BY3 HAMRARNE SUND SURFACE WATER (0-10 m)

Annual Cycles

Statistics based on data from: Bornholmshavet

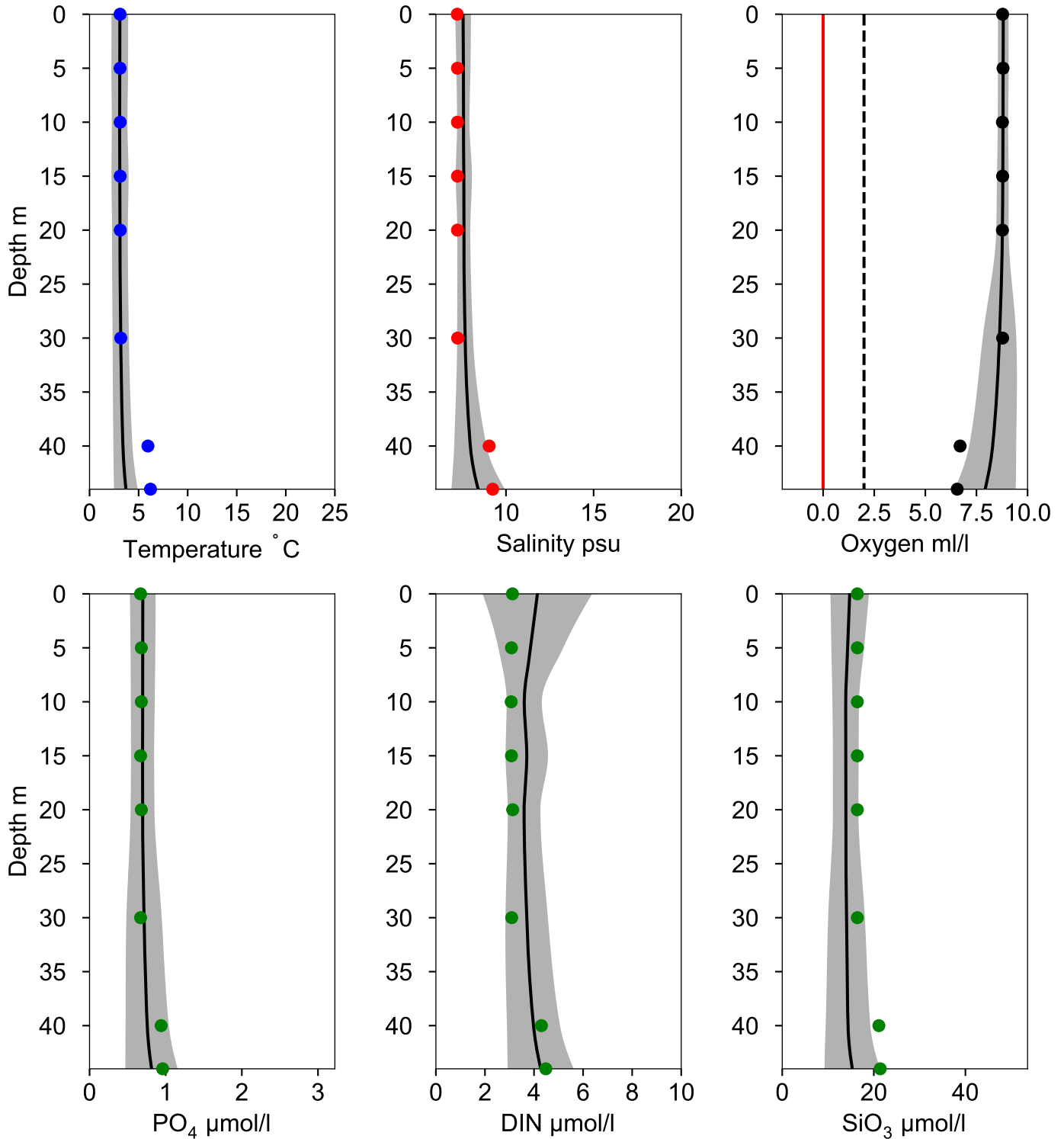
— Mean 1991-2020 St.Dev. ● 2024



Vertical profiles BY3 HAMRARNE SUND February

Statistics based on data from: Bornholmshavet

— Mean 1991-2020 St.Dev. ● 2024-02-09

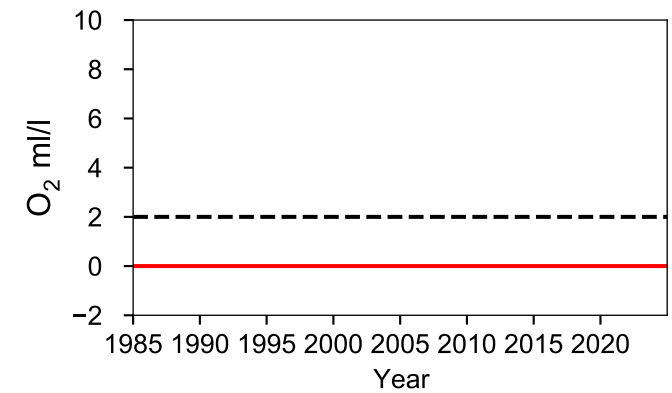
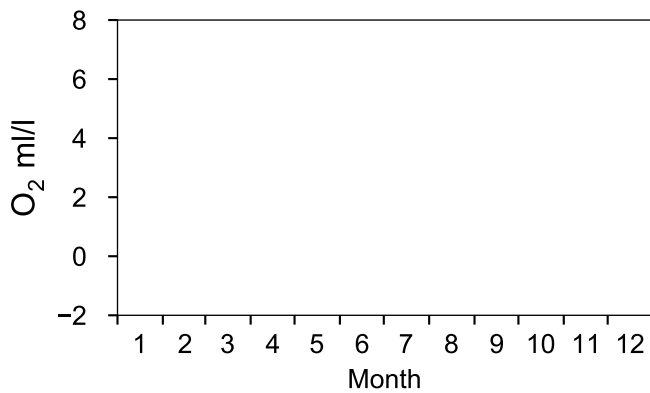
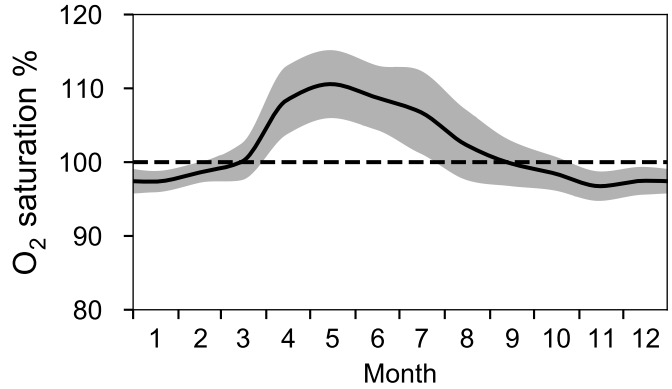
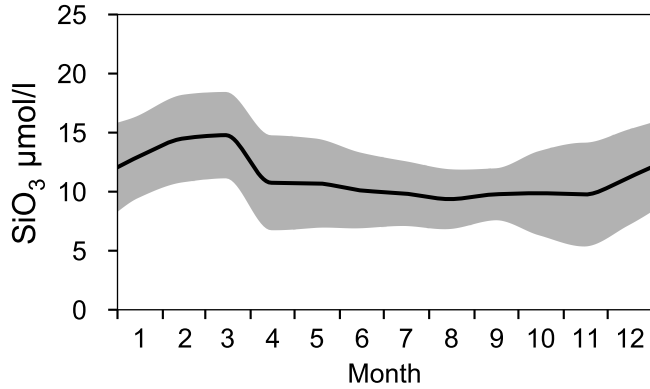
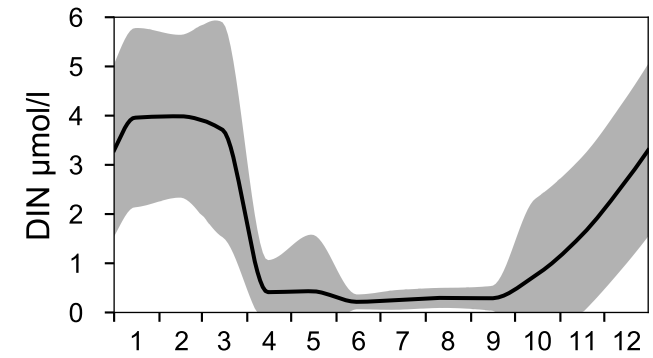
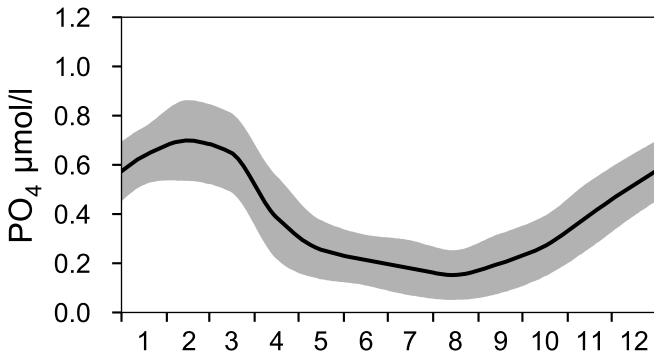
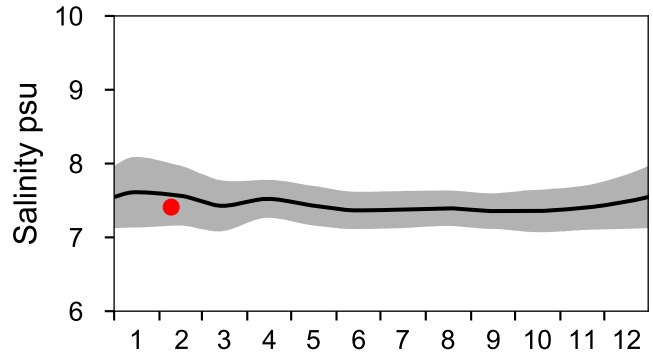
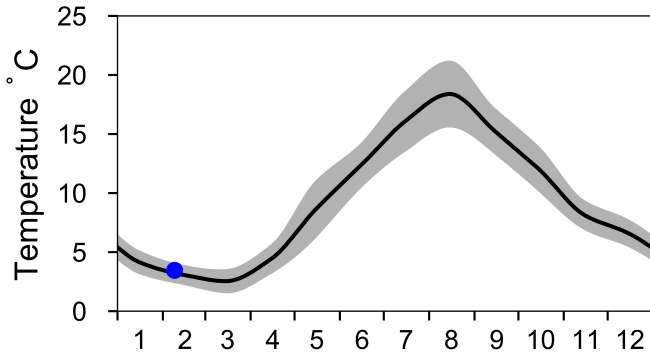


STATION INFLOW 3 SURFACE WATER (0-10 m)

Annual Cycles

Statistics based on data from: Bornholmshavet

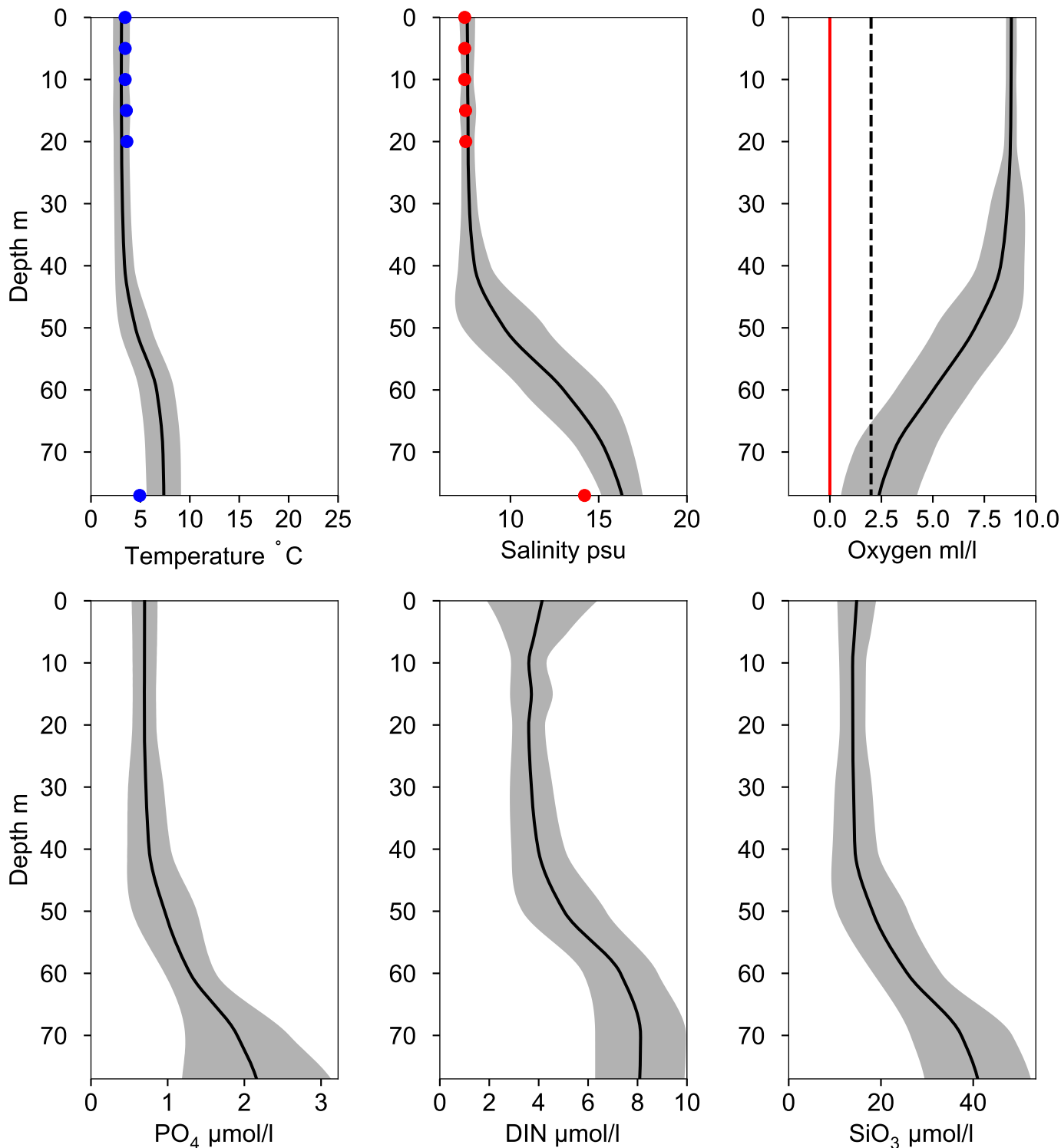
— Mean 1991-2020 St.Dev. ● 2024



Vertical profiles INFLOW 3 February

Statistics based on data from: Bornholmshavet

— Mean 1991-2020 ■ St.Dev. ● 2024-02-09



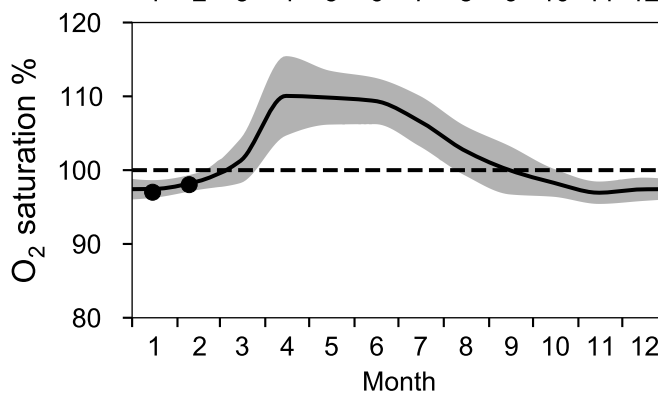
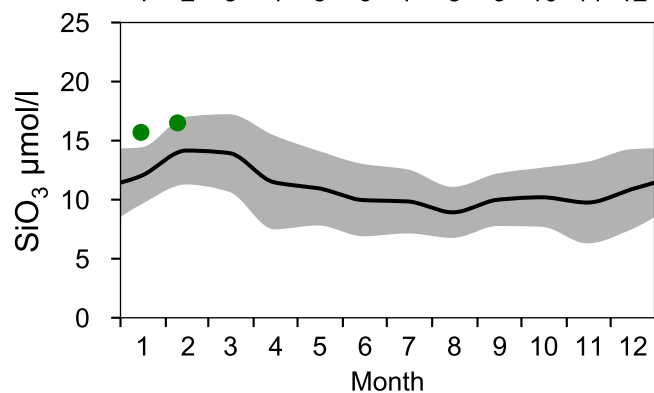
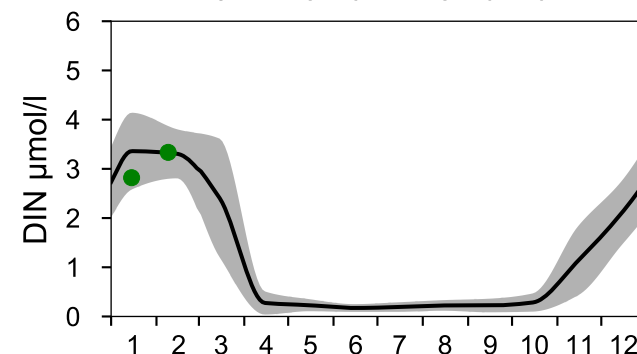
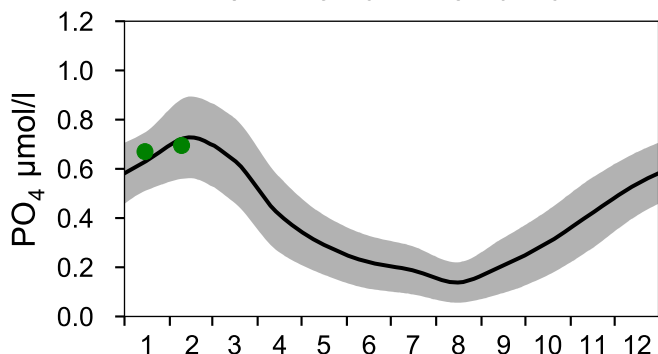
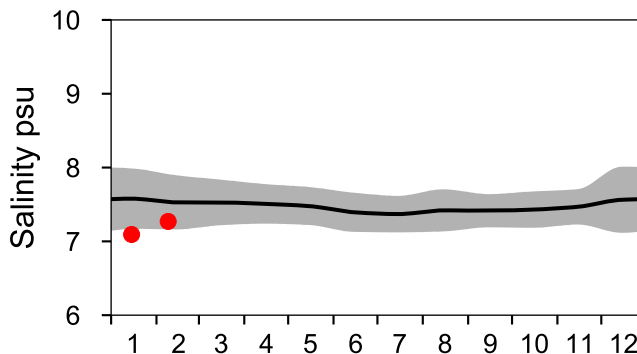
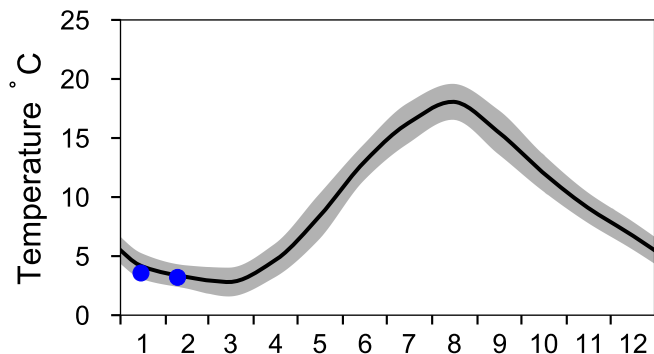
STATION HANÖBUKTEN SURFACE WATER (0-10 m)

Annual Cycles

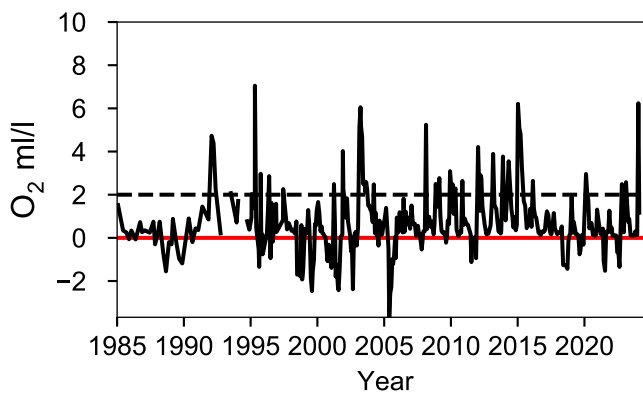
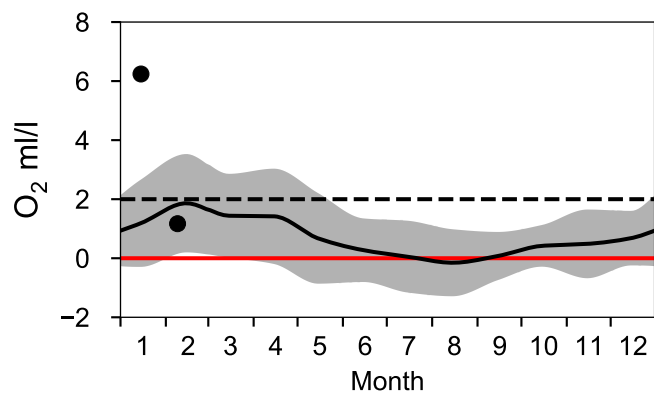
— Mean 1991-2020

■ St.Dev.

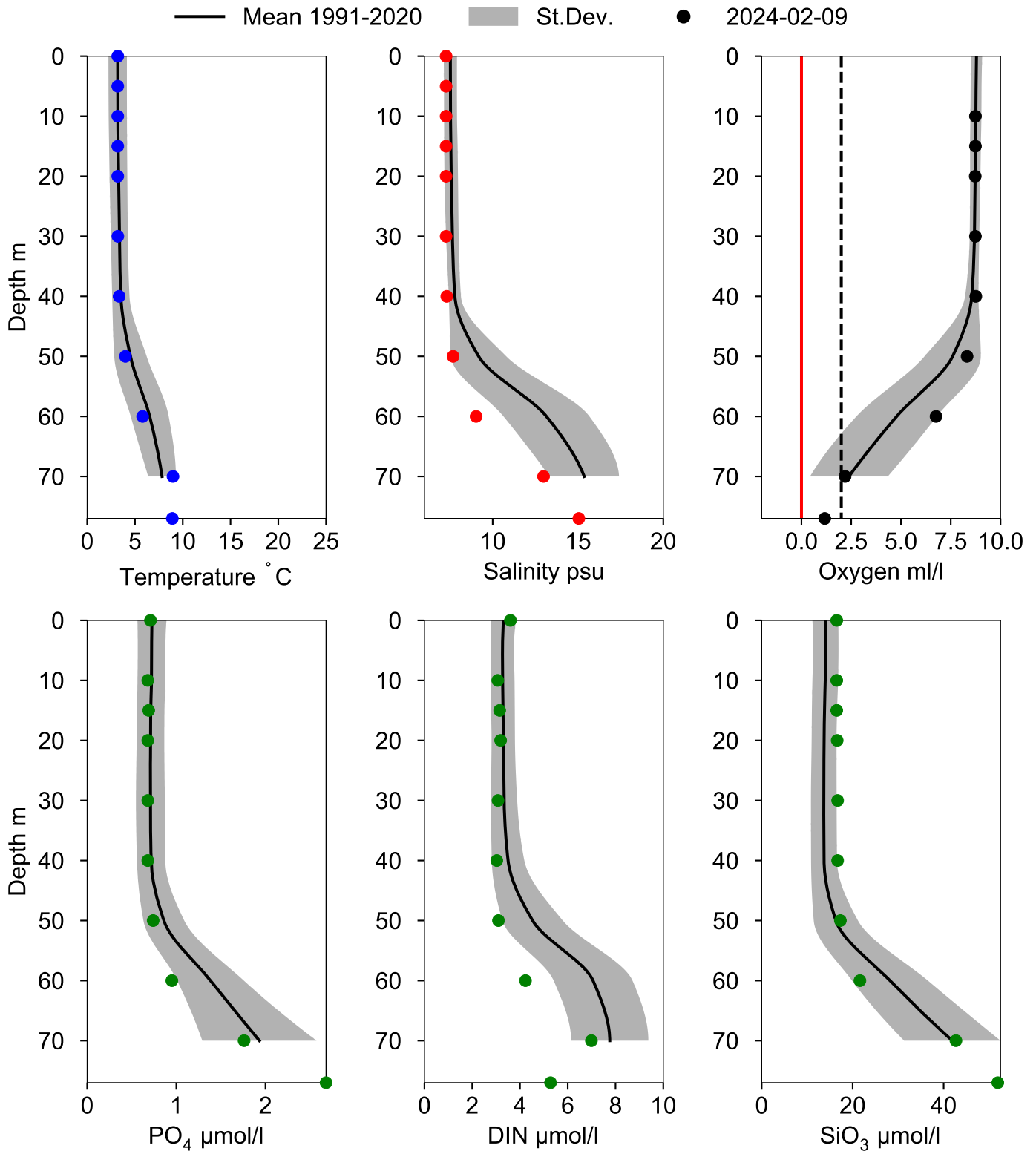
● 2024



OXYGEN IN BOTTOM WATER (depth >= 70 m)



Vertical profiles HANÖBUKTEN February

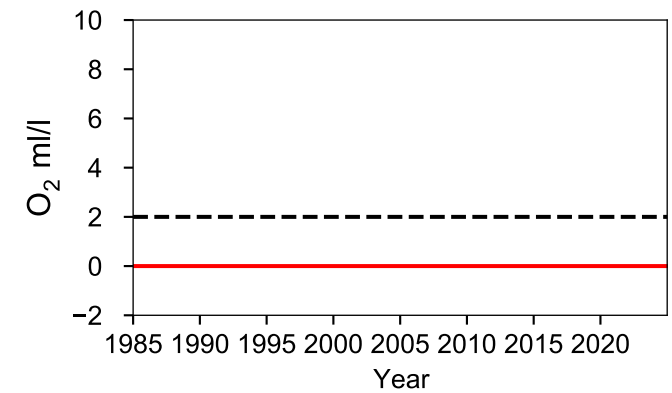
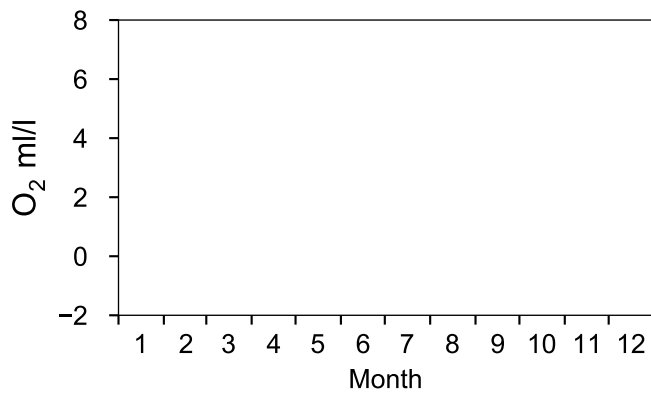
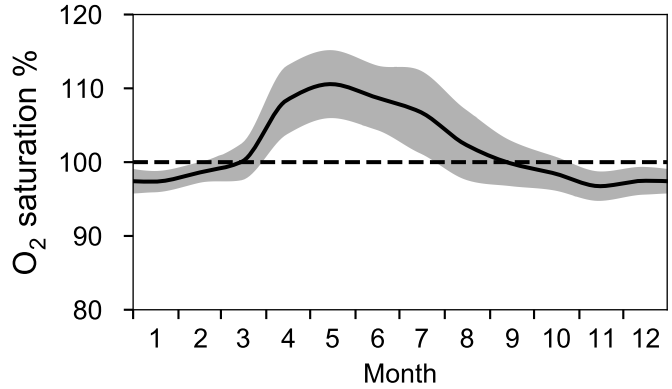
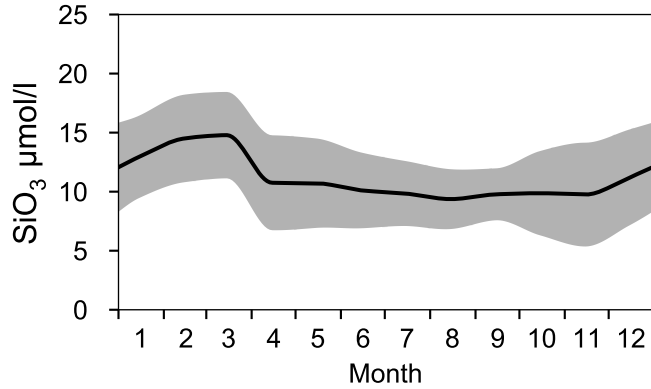
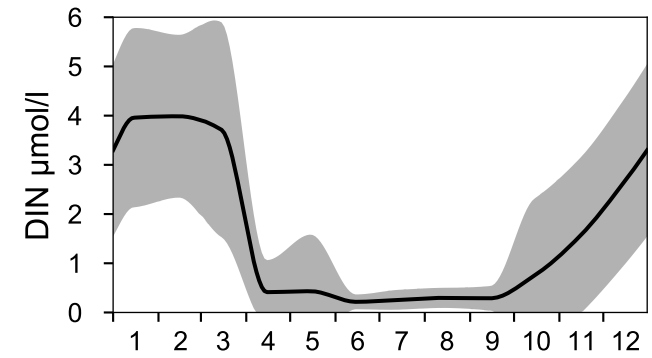
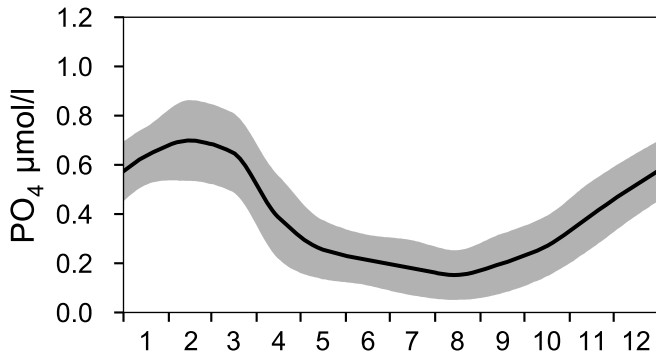
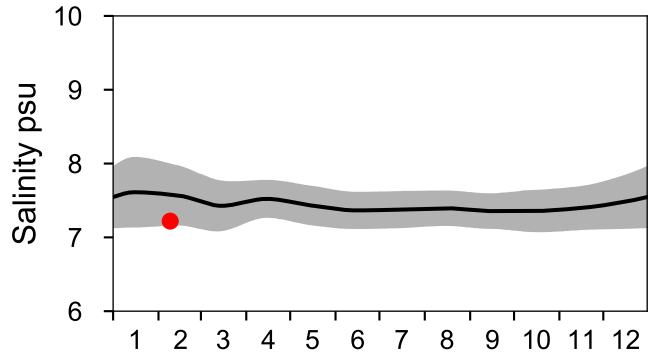
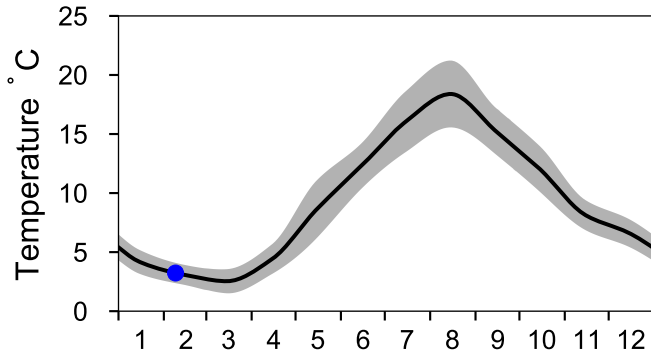


STATION INFLOW-4 SURFACE WATER (0-10 m)

Annual Cycles

Statistics based on data from: Bornholmshavet

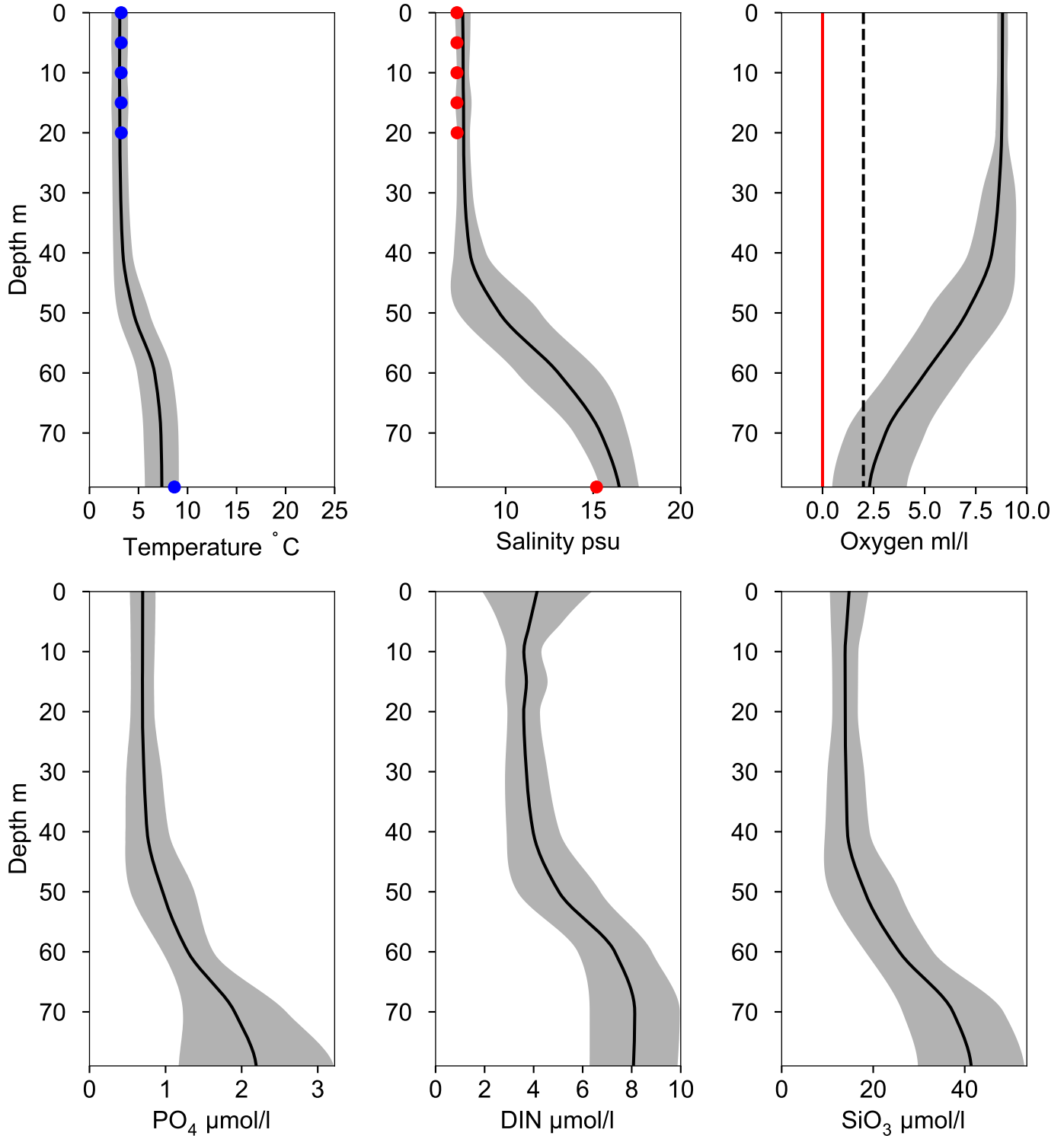
— Mean 1991-2020 St.Dev. ● 2024



Vertical profiles INFLOW-4 February

Statistics based on data from: Bornholmshavet

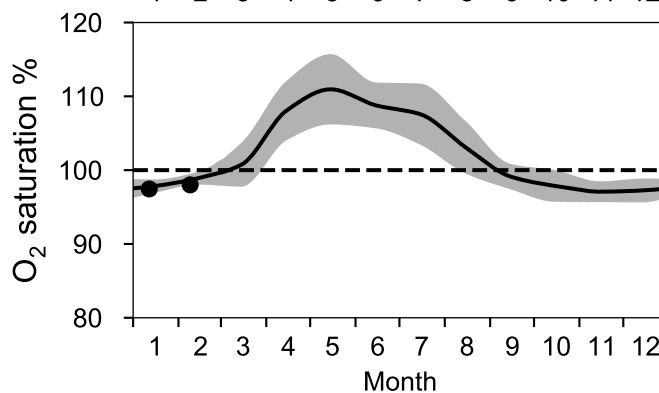
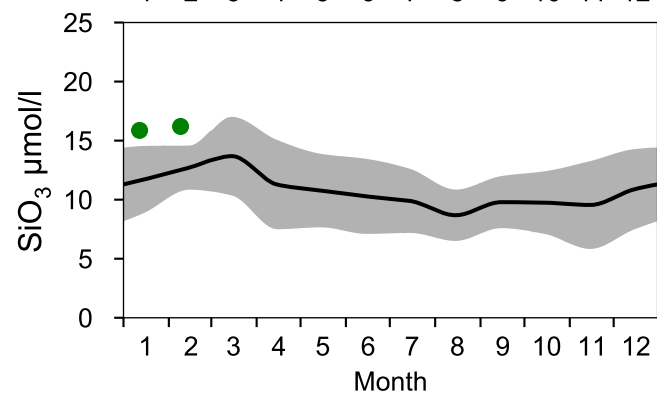
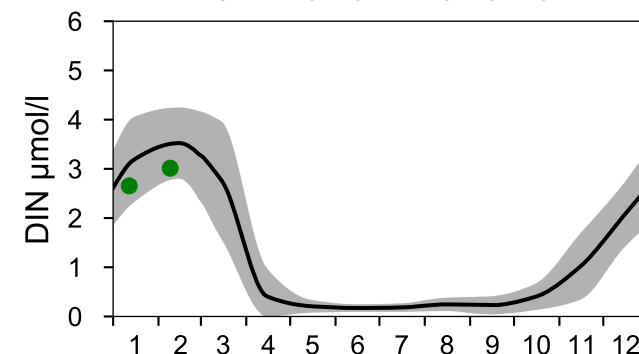
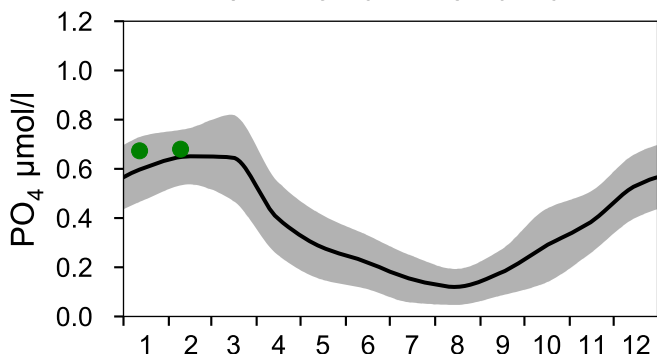
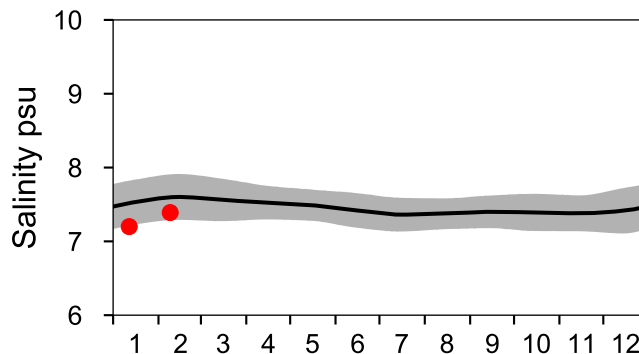
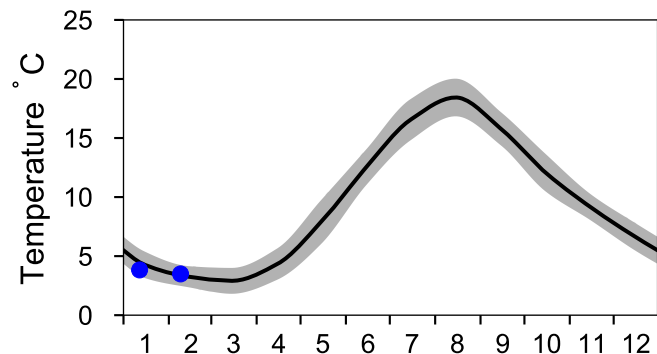
— Mean 1991-2020 ■ St.Dev. ● 2024-02-09



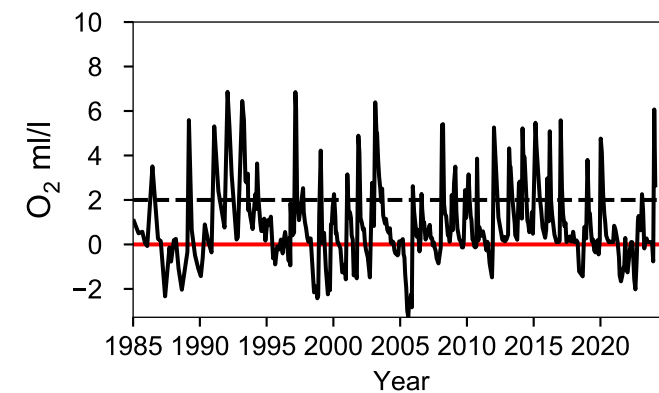
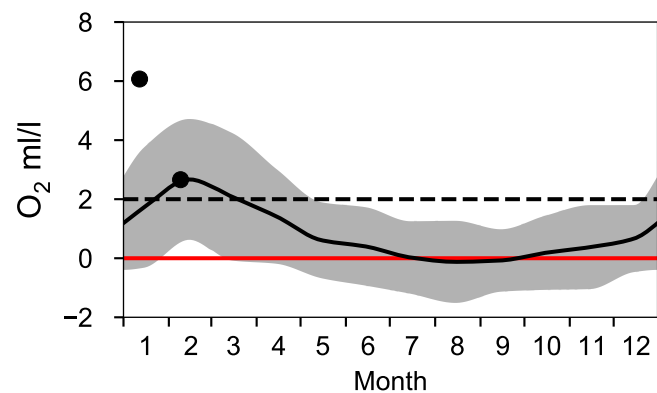
STATION BY4 CHRISTIANSÖ SURFACE WATER (0-10 m)

Annual Cycles

— Mean 1991-2020 St.Dev. ● 2024

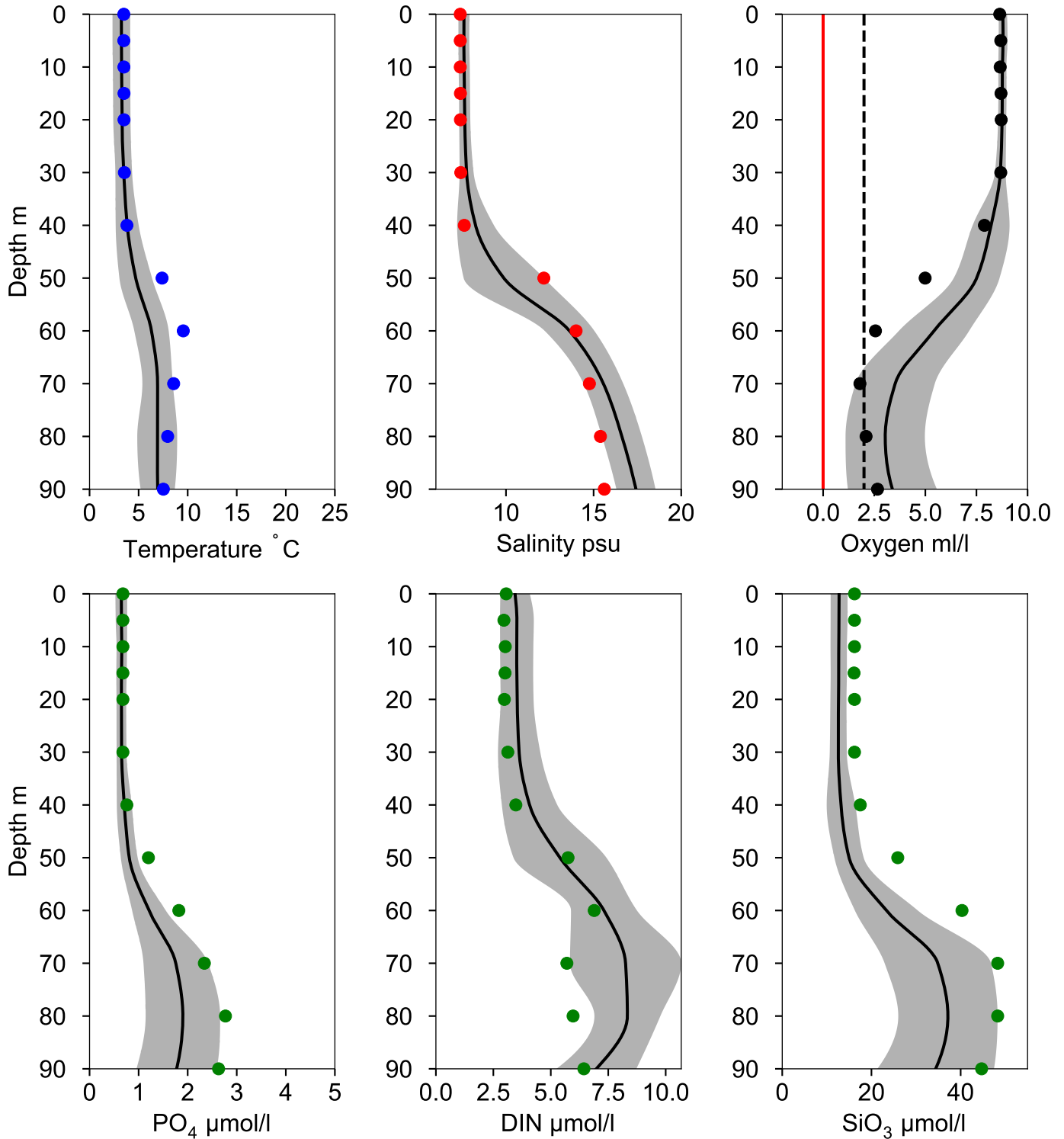


OXYGEN IN BOTTOM WATER (depth >= 80 m)



Vertical profiles BY4 CHRISTIANSÖ February

— Mean 1991-2020 St.Dev. ● 2024-02-09

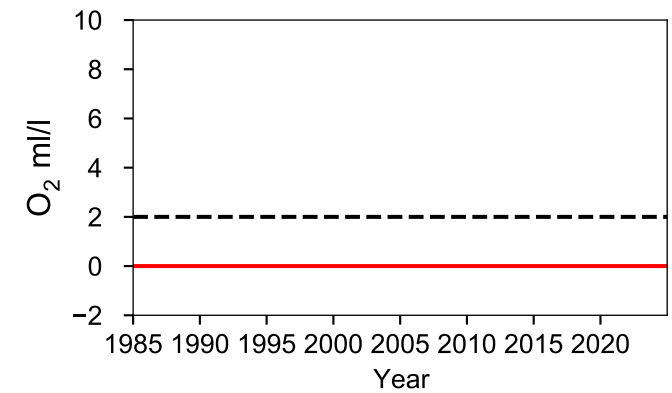
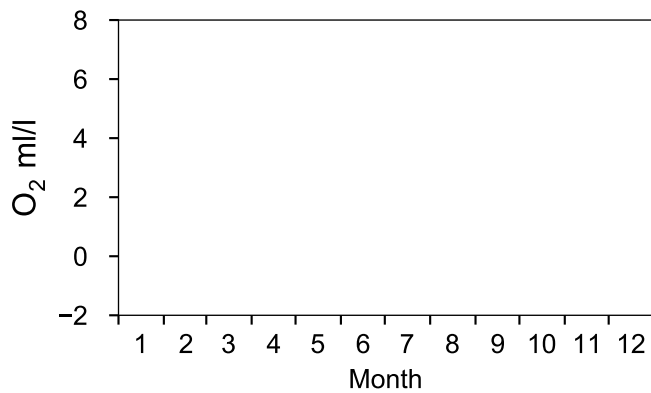
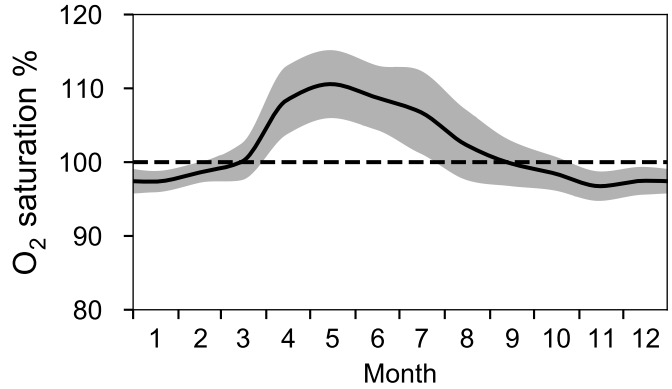
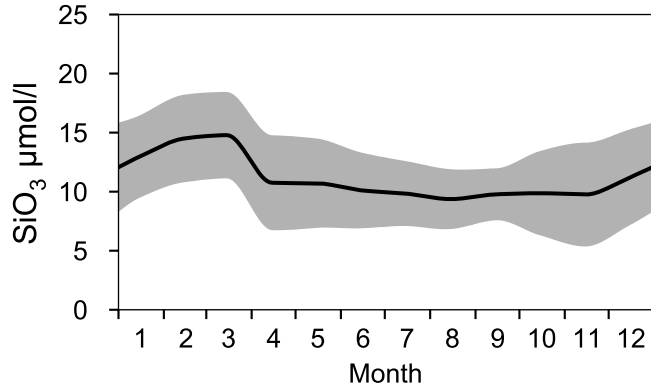
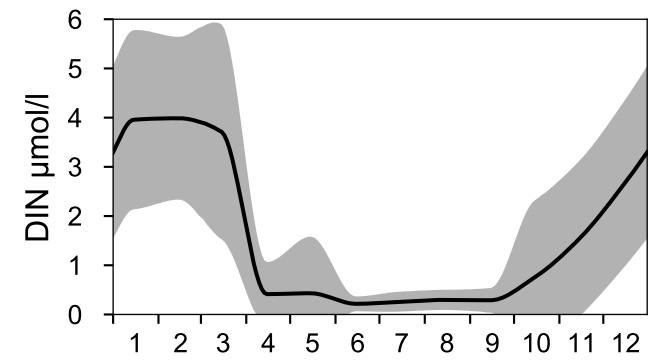
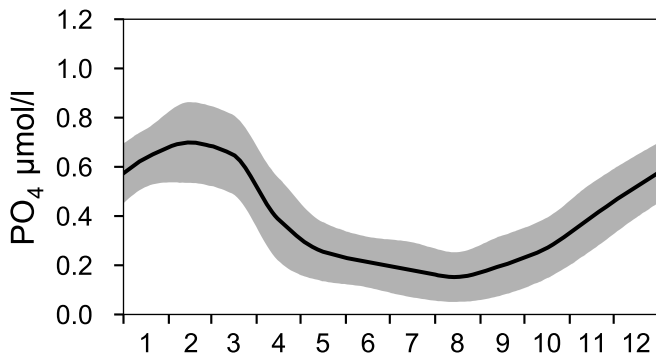
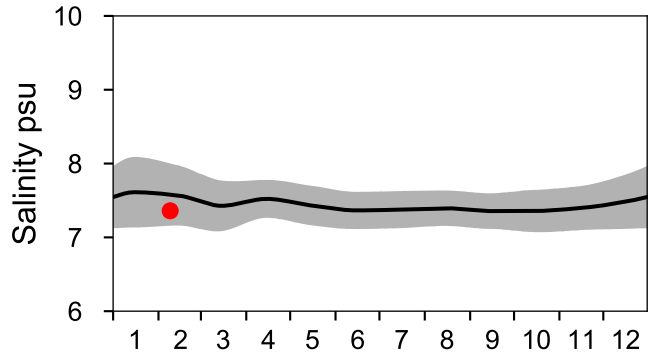
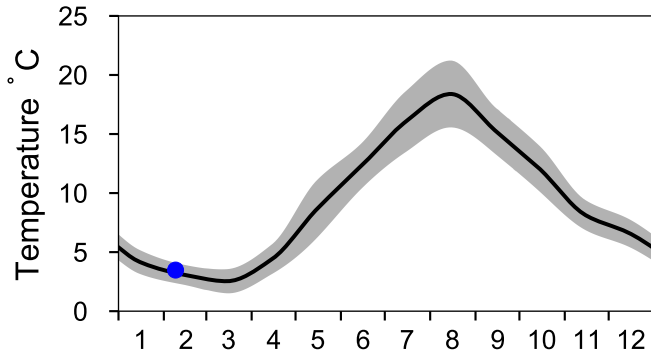


STATION INFLOW 5 SURFACE WATER (0-10 m)

Annual Cycles

Statistics based on data from: Bornholmshavet

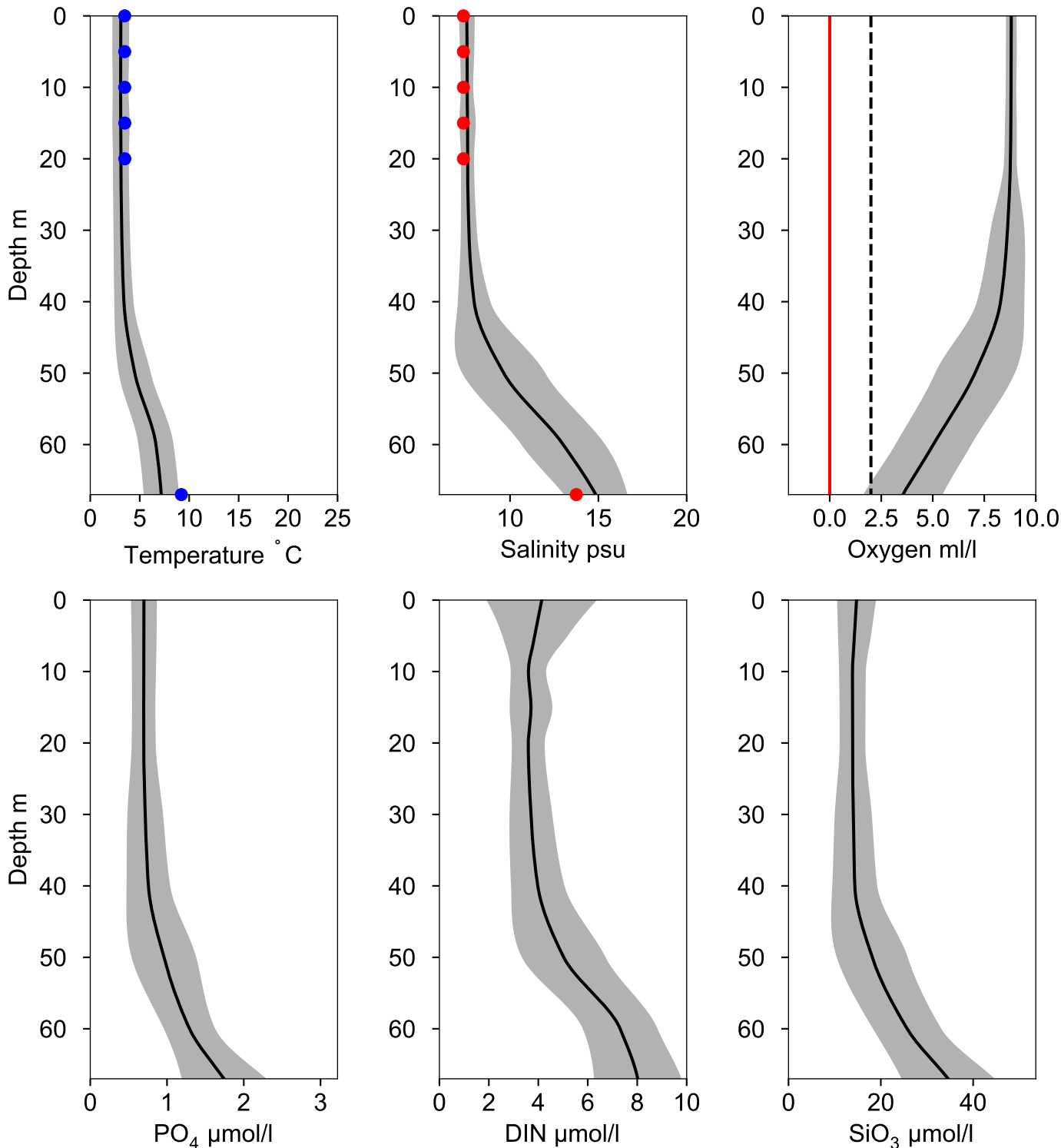
— Mean 1991-2020 St.Dev. ● 2024



Vertical profiles INFLOW 5 February

Statistics based on data from: Bornholmshavet

— Mean 1991-2020 St.Dev. ● 2024-02-09

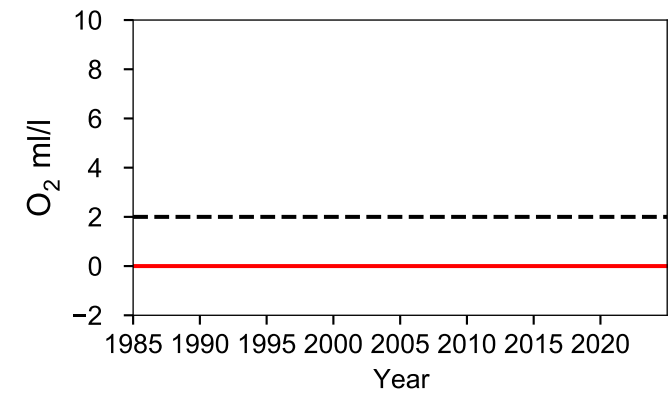
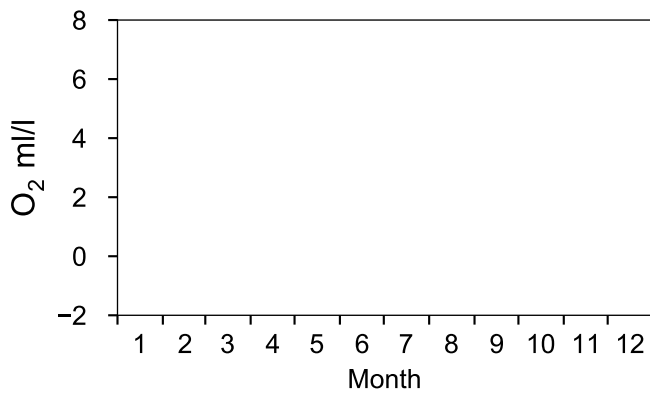
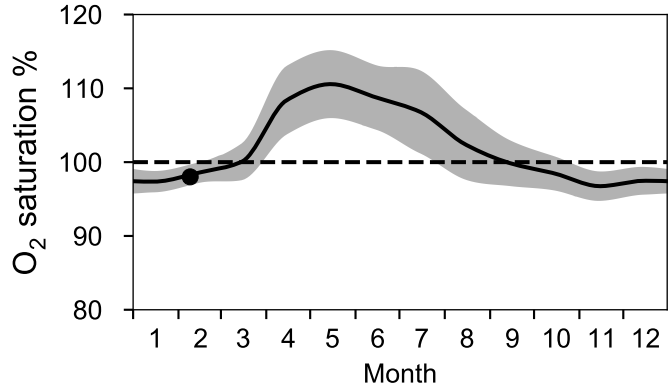
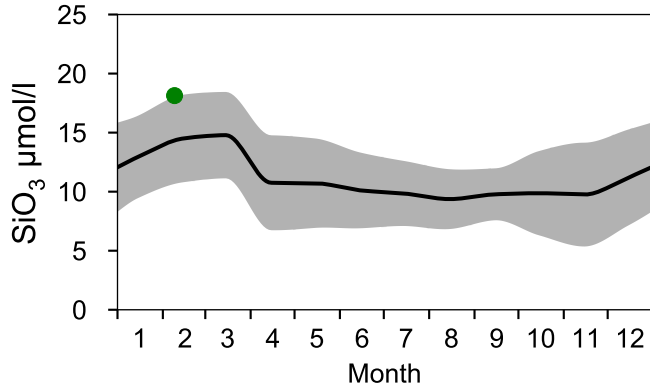
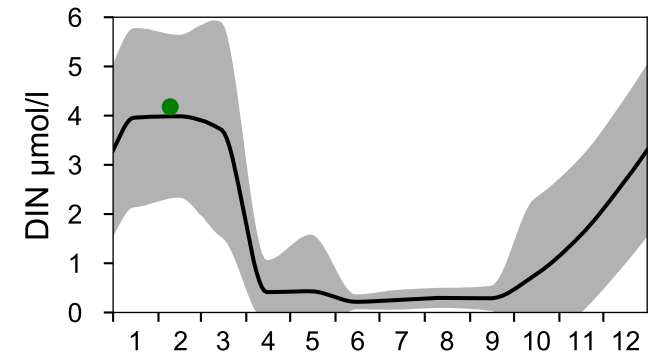
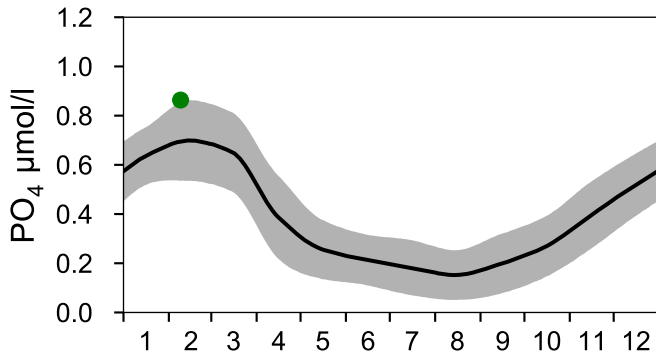
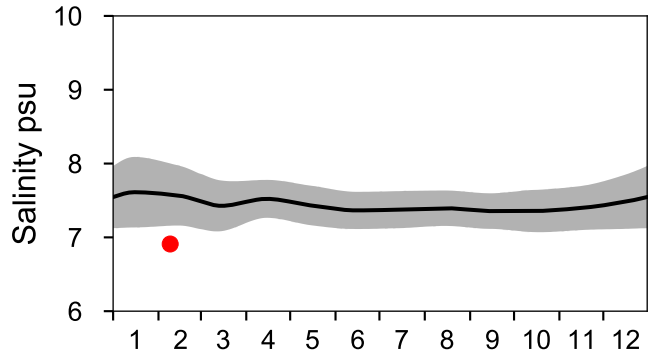
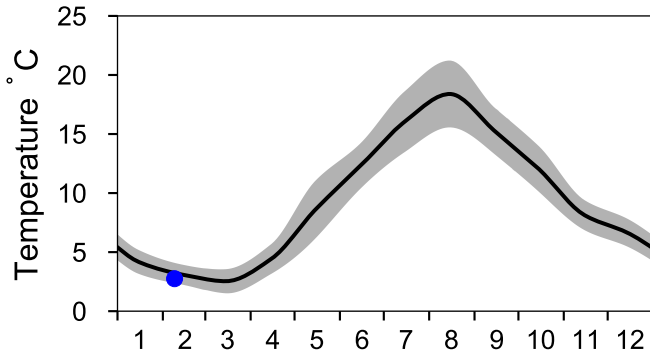


STATION HANÖBUKTEN-KBV SURFACE WATER (0-10 m)

Annual Cycles

Statistics based on data from: Bornholmshavet

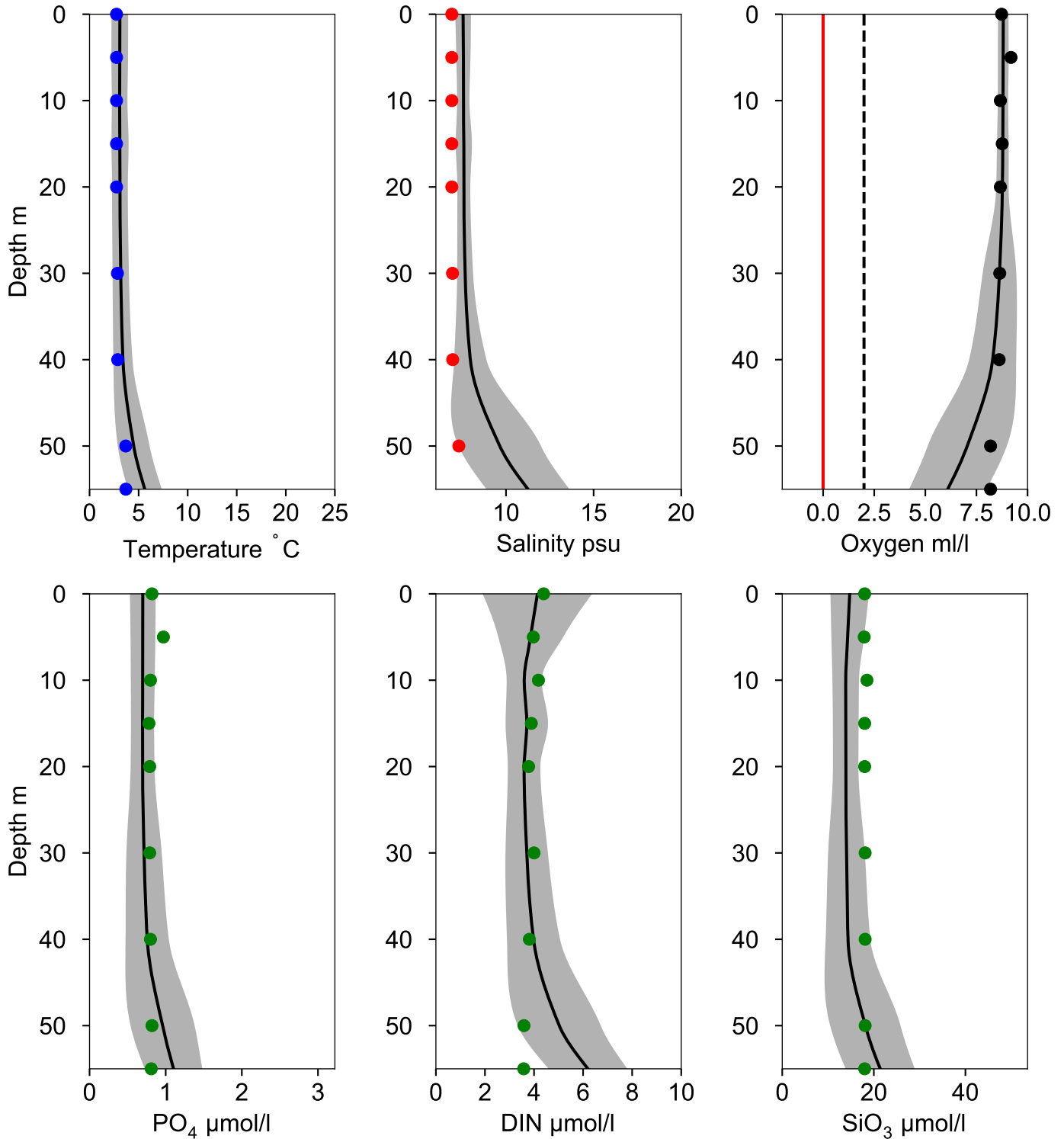
— Mean 1991-2020 St.Dev. ● 2024



Vertical profiles HANÖBUKTEN-KBV February

Statistics based on data from: Bornholmshavet

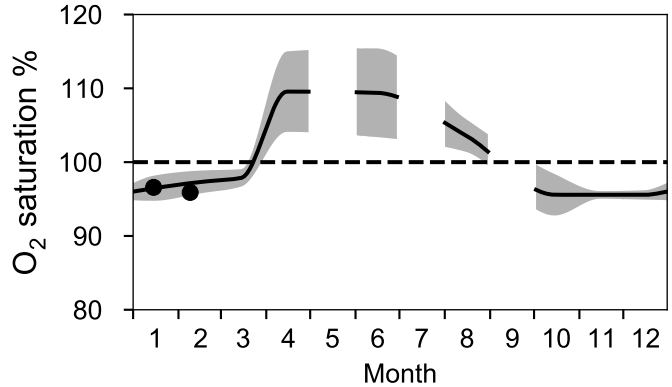
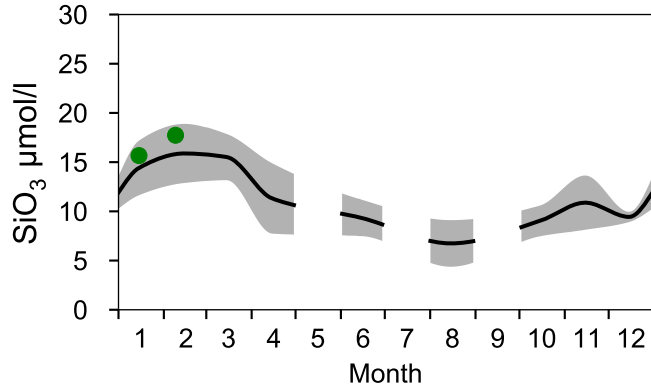
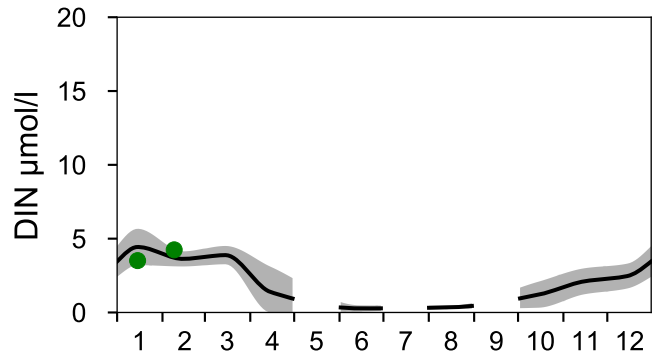
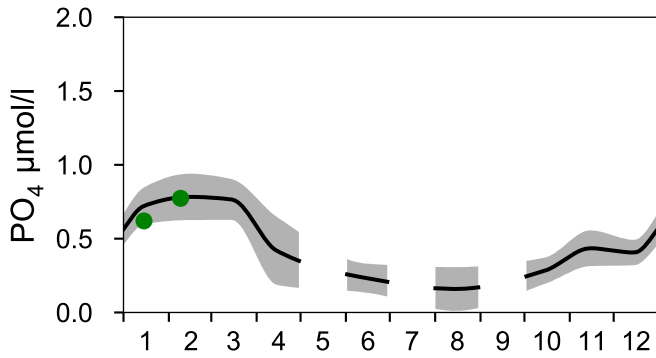
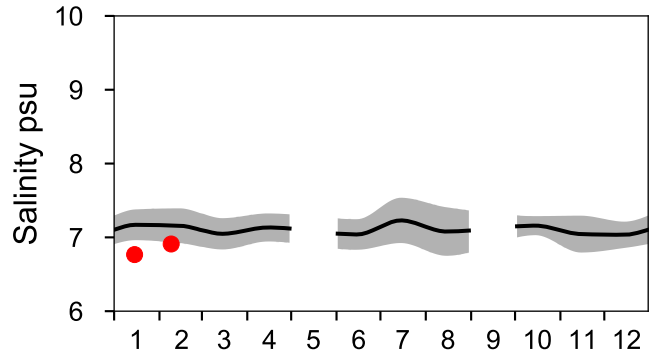
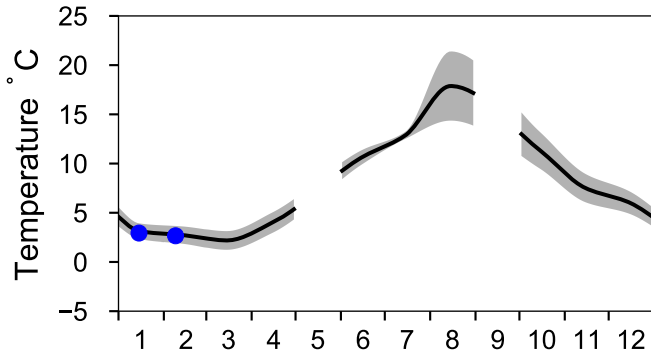
— Mean 1991-2020 ■ St.Dev. ● 2024-02-09



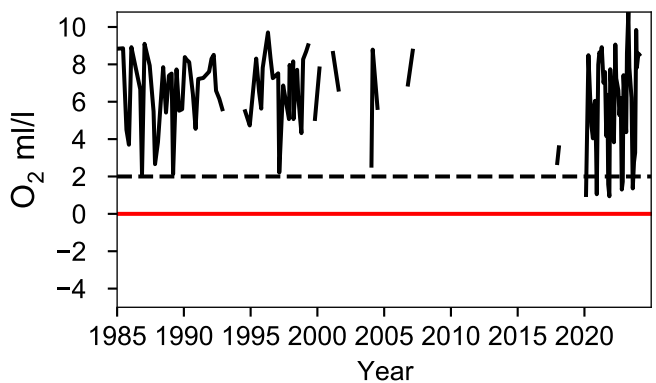
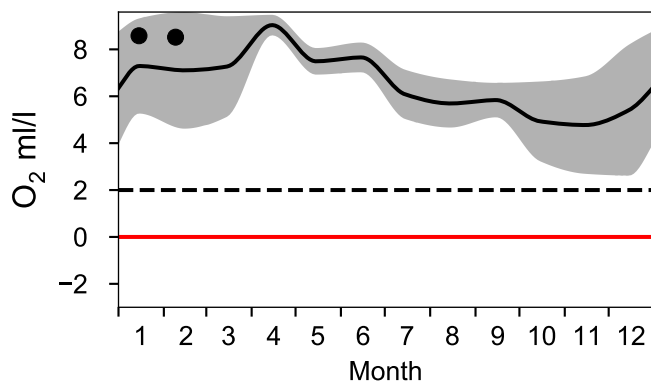
STATION BY39 ÖLANDS S UDDE SURFACE WATER (0-10 m)

Annual Cycles

— Mean 1991-2020 St.Dev. ● 2024

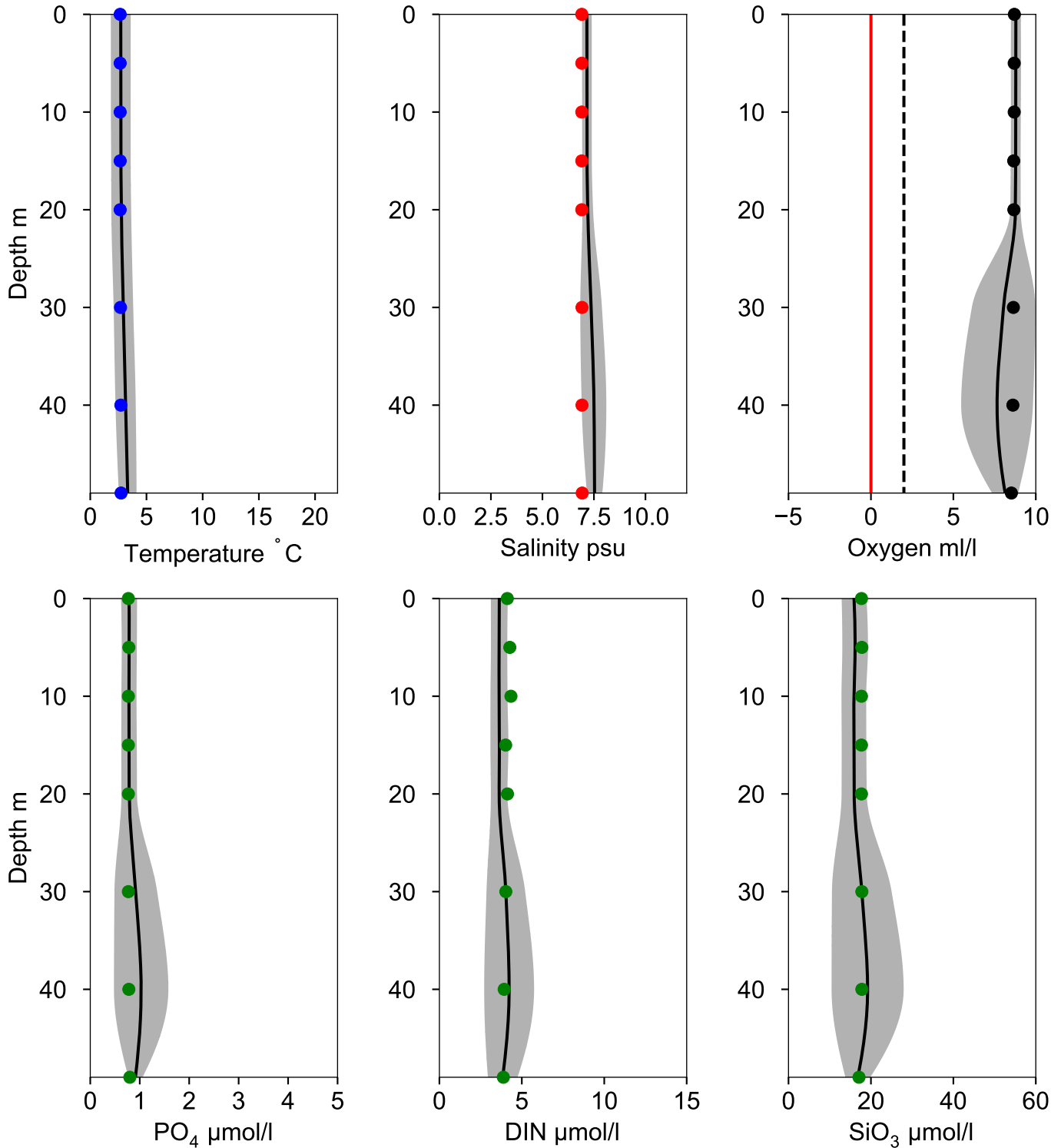


OXYGEN IN BOTTOM WATER (depth >= 40 m)



Vertical profiles BY39 ÖLANDS S UDDE February

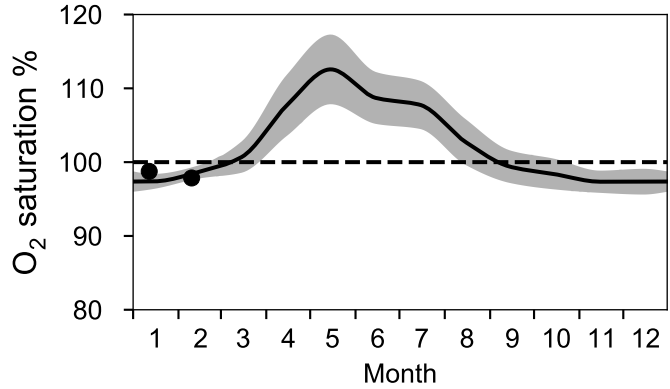
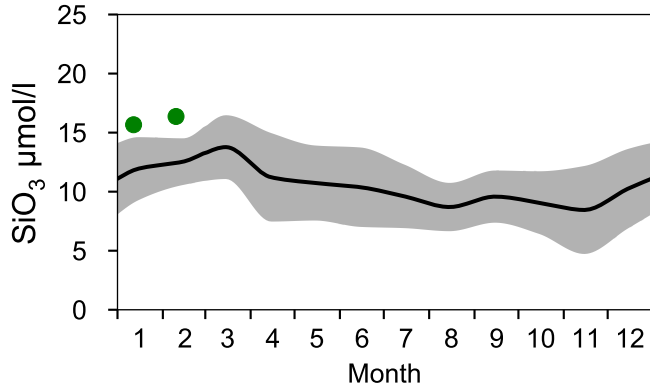
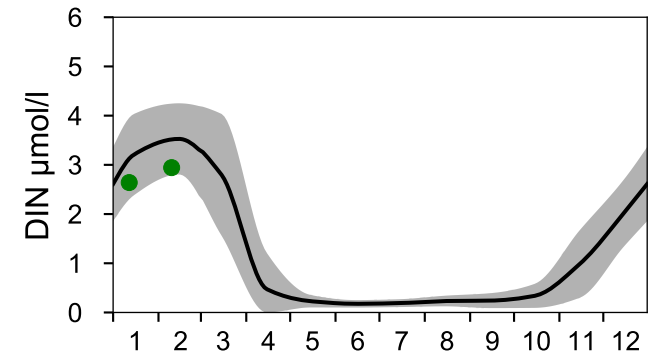
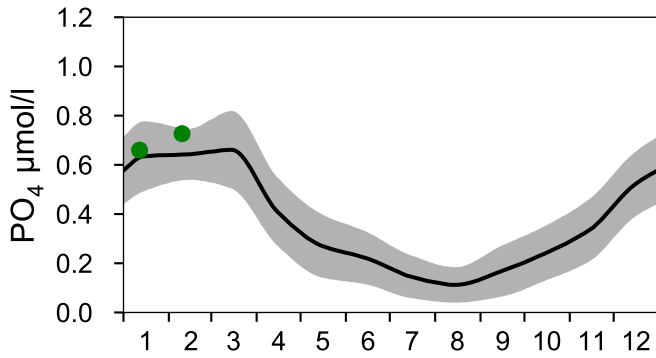
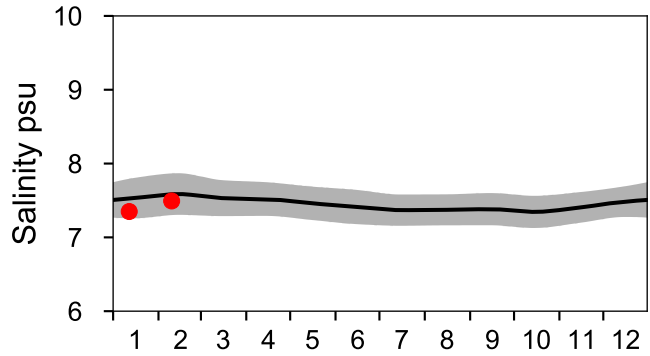
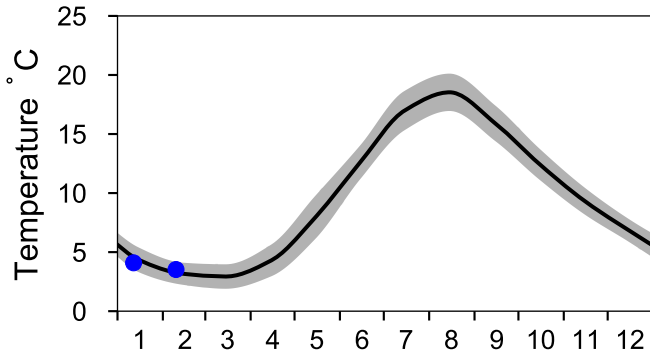
— Mean 1991-2020 St.Dev. ● 2024-02-09



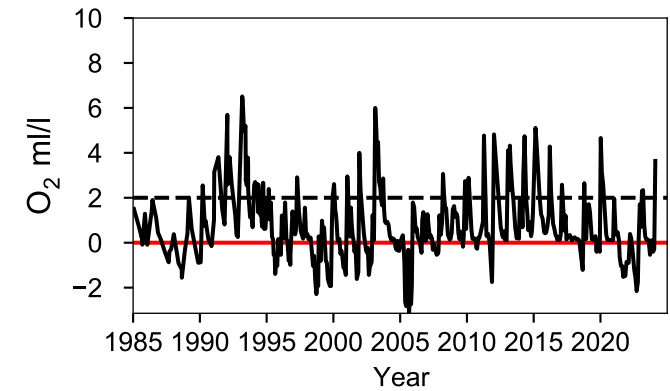
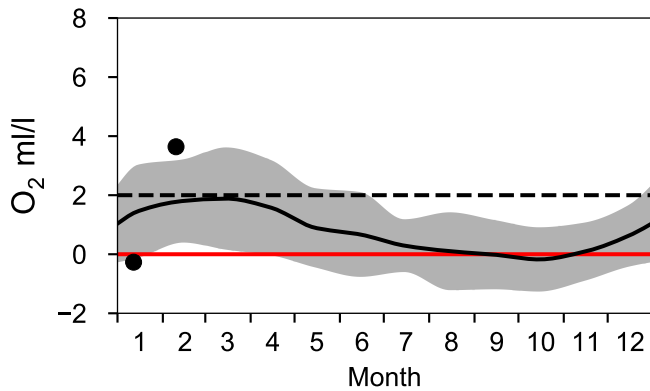
STATION BY5 BORNHOLMSDJ SURFACE WATER (0-10 m)

Annual Cycles

— Mean 1991-2020 St.Dev. ● 2024

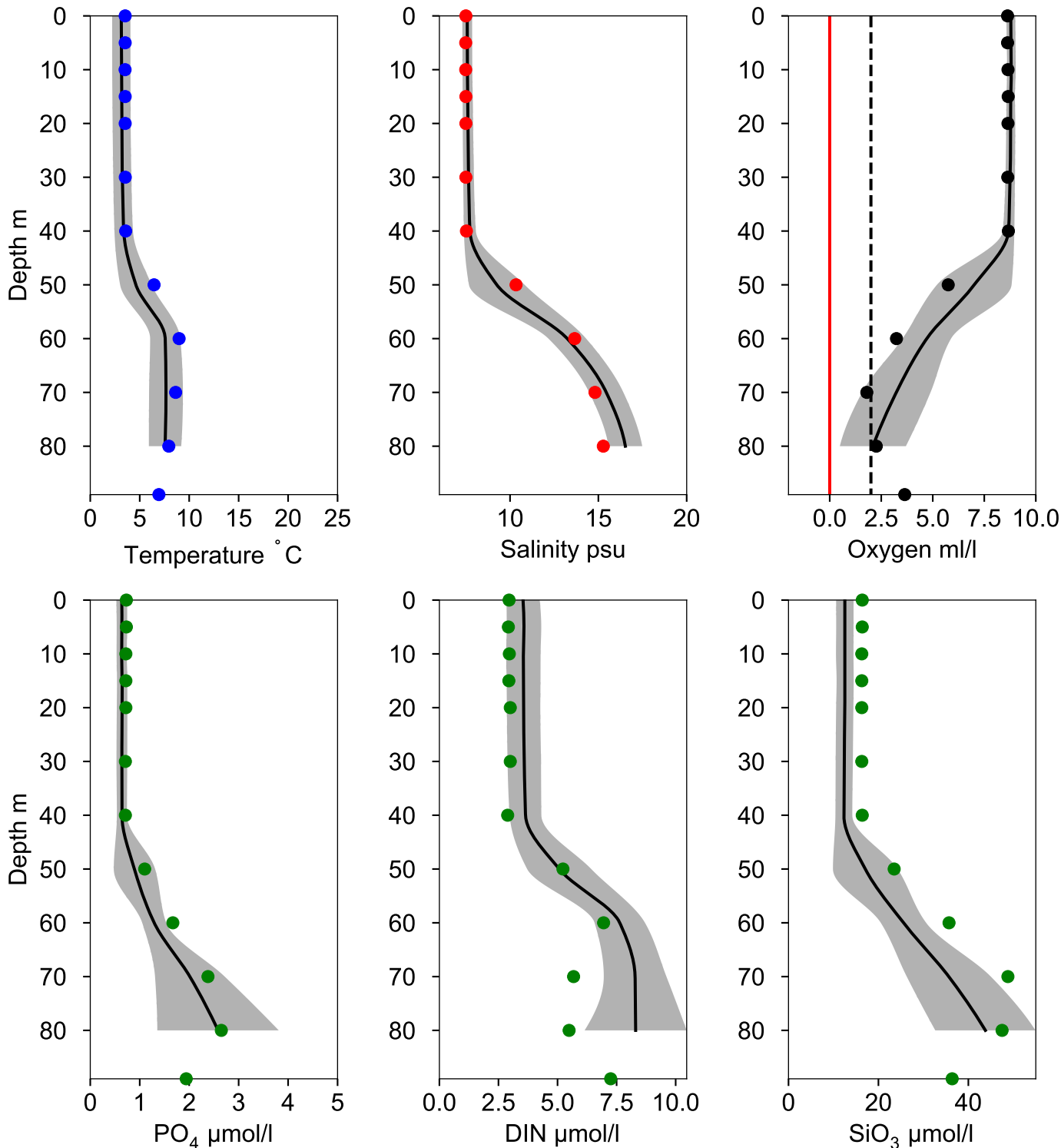


OXYGEN IN BOTTOM WATER (depth >= 80 m)



Vertical profiles BY5 BORNHOLMSDJ February

— Mean 1991-2020 ■ St.Dev. ● 2024-02-10

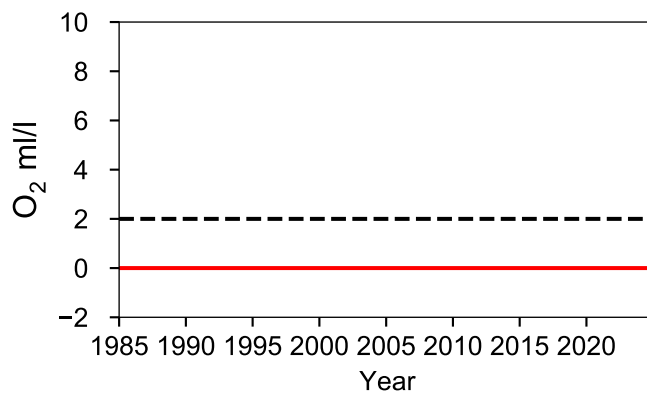
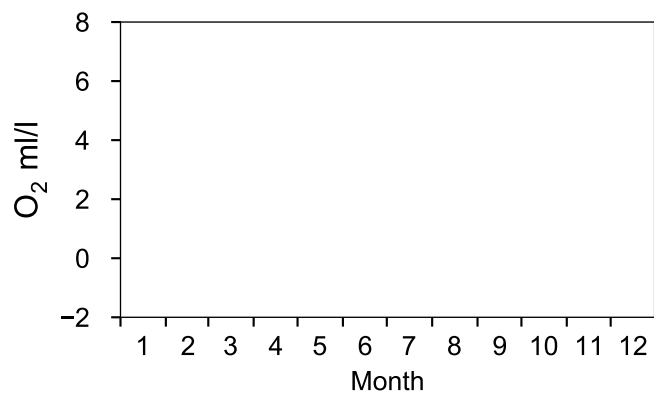
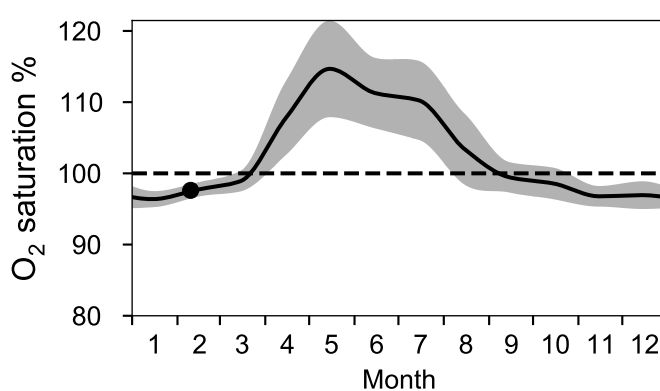
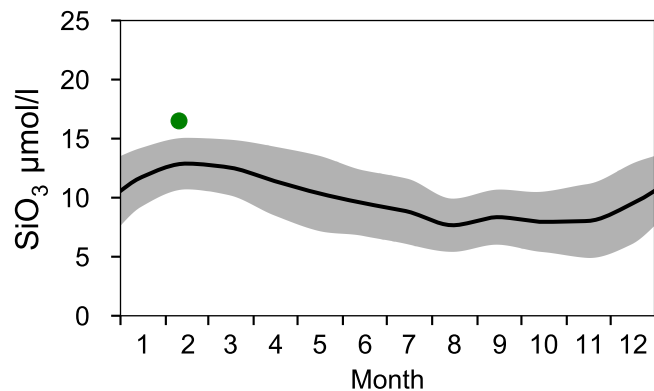
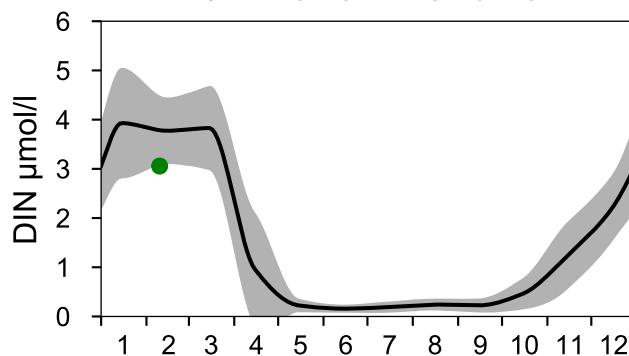
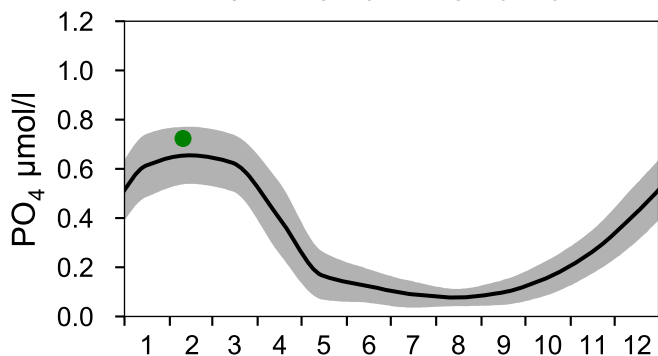
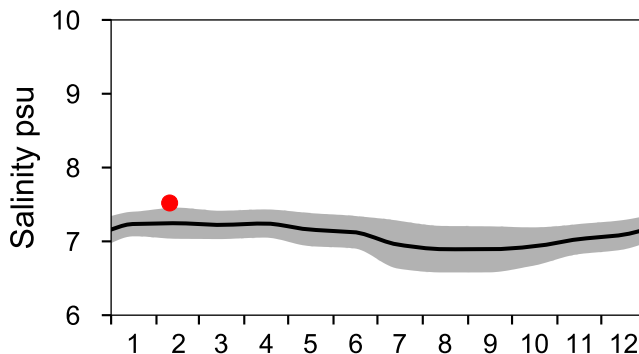
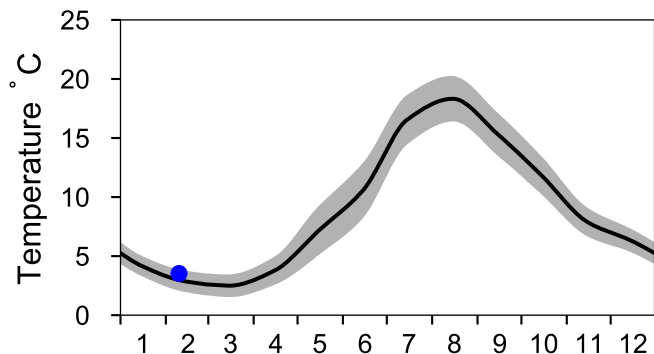


STATION STOLPE TRÖSKEL SURFACE WATER (0-10 m)

Annual Cycles

Statistics based on data from: Östra Gotlandshavet

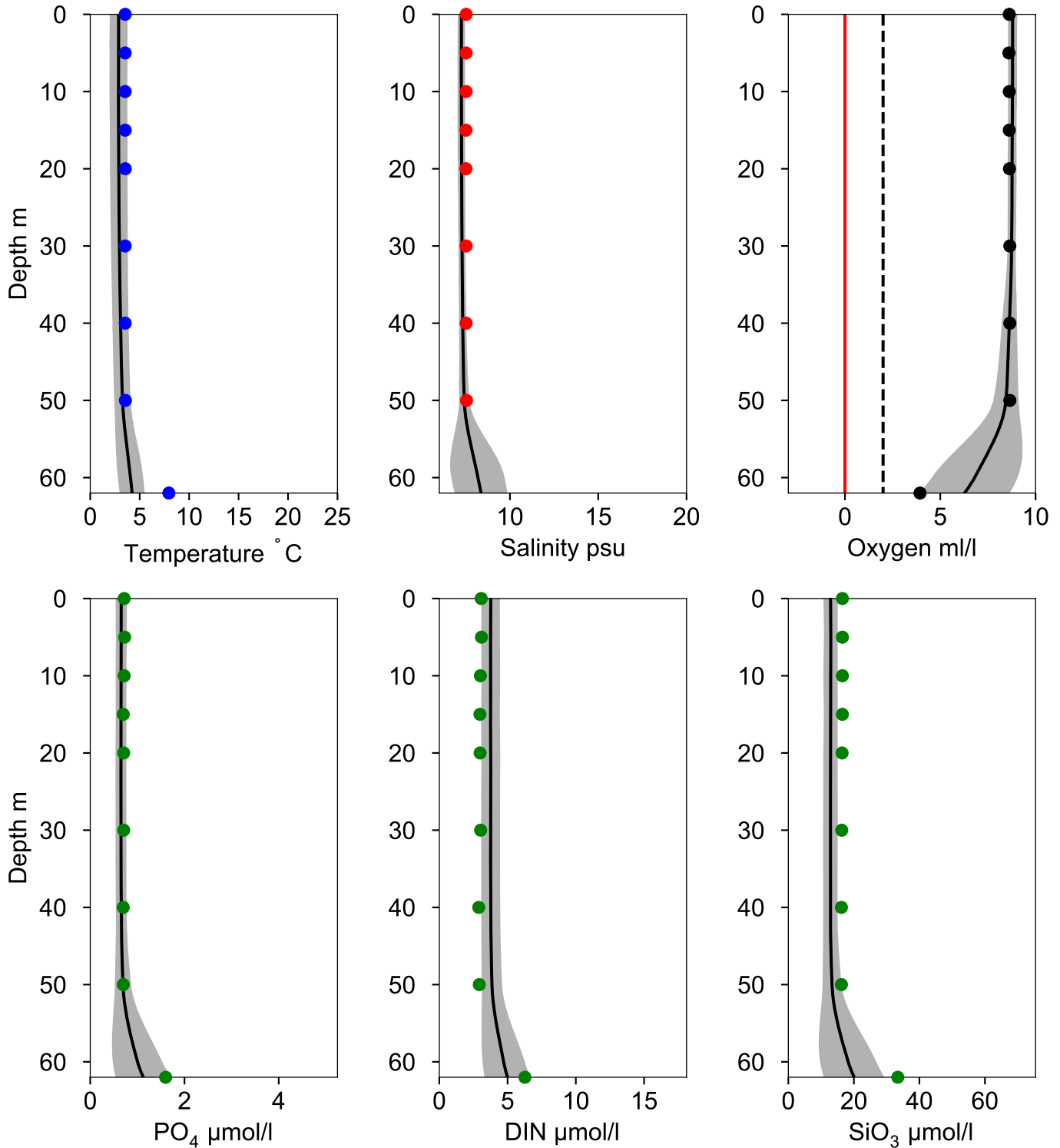
— Mean 1991-2020 St.Dev. ● 2024



Vertical profiles STOLPE TRÖSKEL February

Statistics based on data from: Östra Gotlandshavet

— Mean 1991-2020 ■ St.Dev. ● 2024-02-10

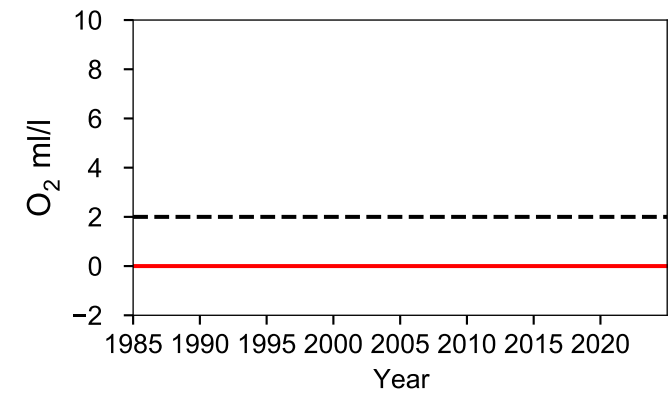
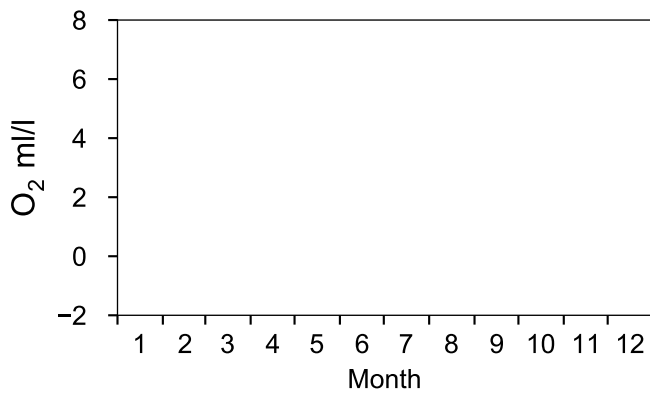
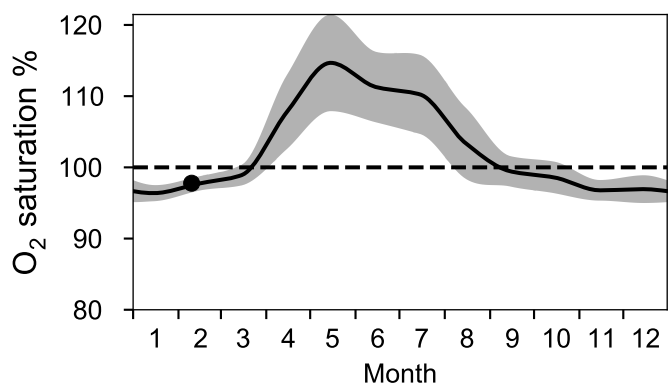
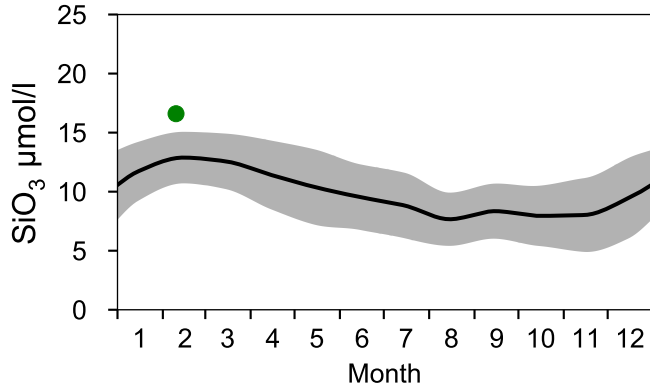
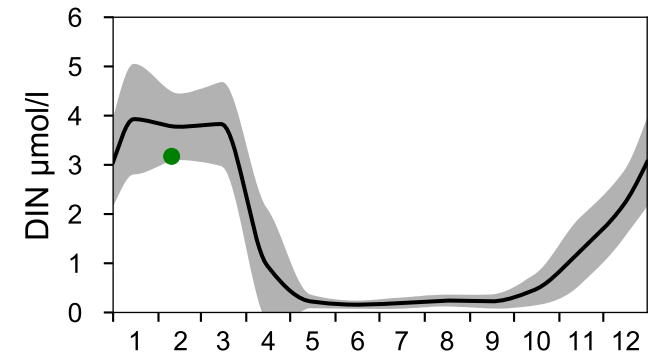
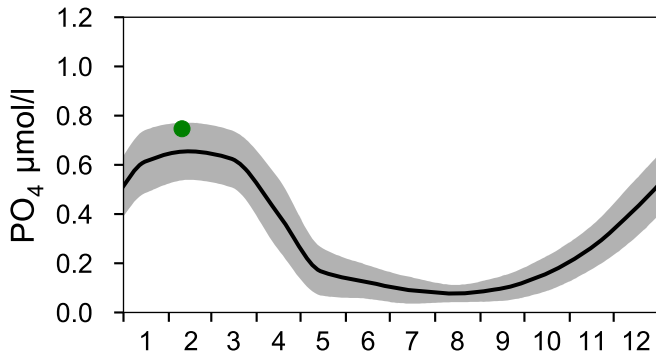
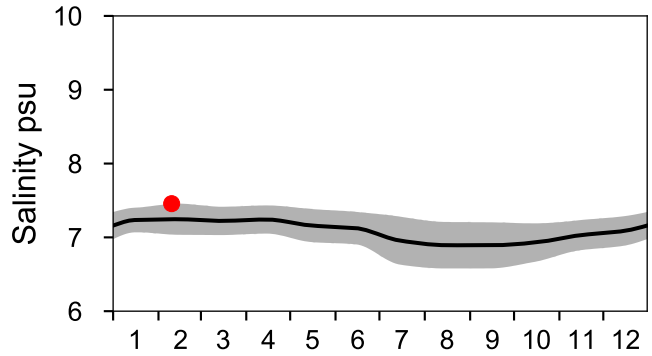
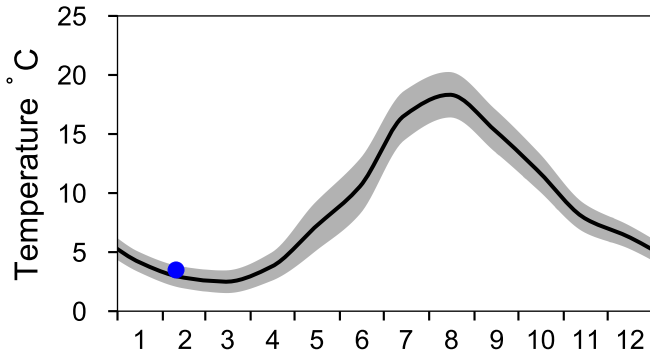


STATION BY7 STOLPE RÄNNA SURFACE WATER (0-10 m)

Annual Cycles

Statistics based on data from: Östra Gotlandshavet

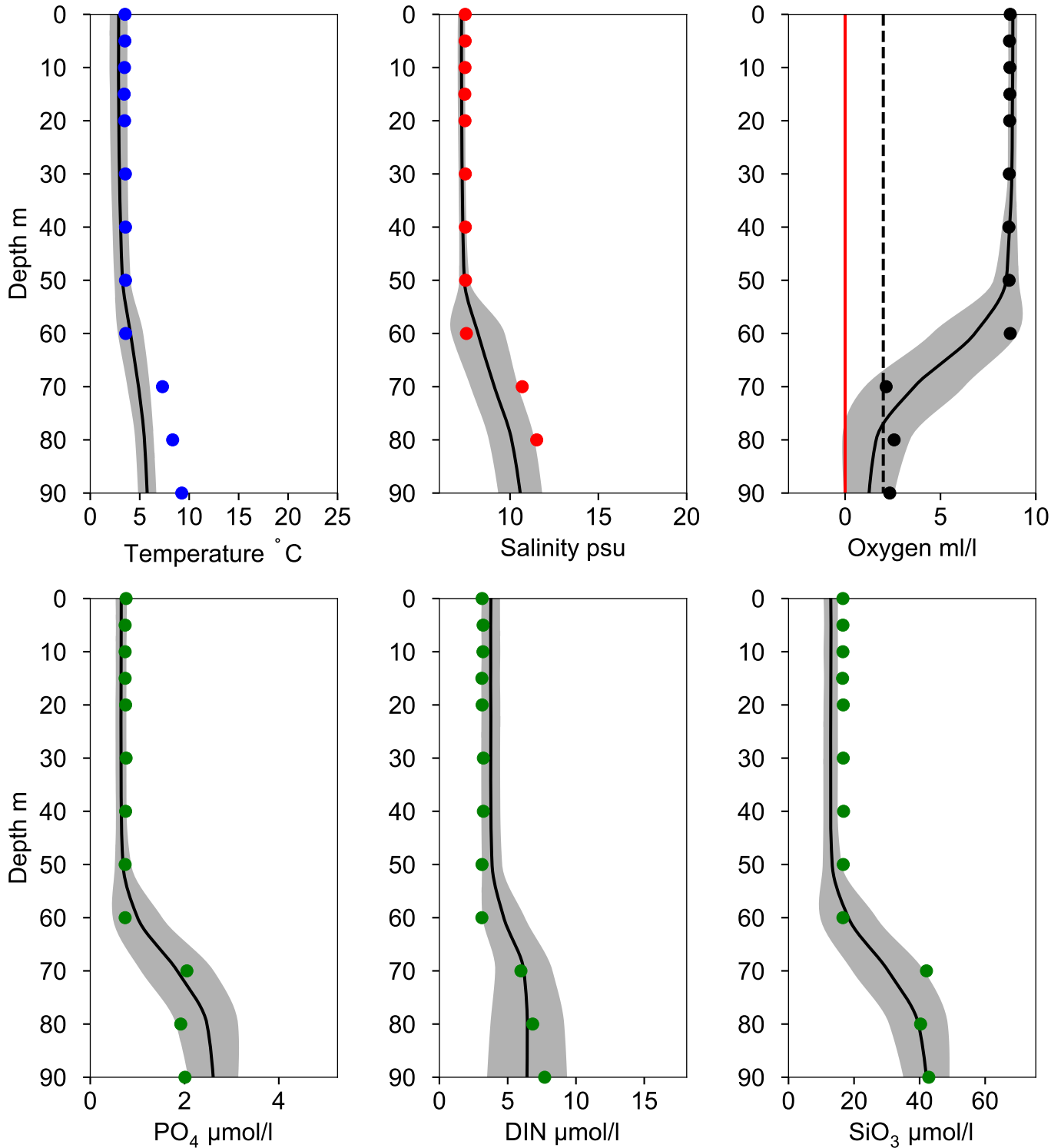
— Mean 1991-2020 St.Dev. ● 2024



Vertical profiles BY7 STOLPE RÄNNA February

Statistics based on data from: Östra Gotlandshavet

— Mean 1991-2020 ■ St.Dev. ● 2024-02-10

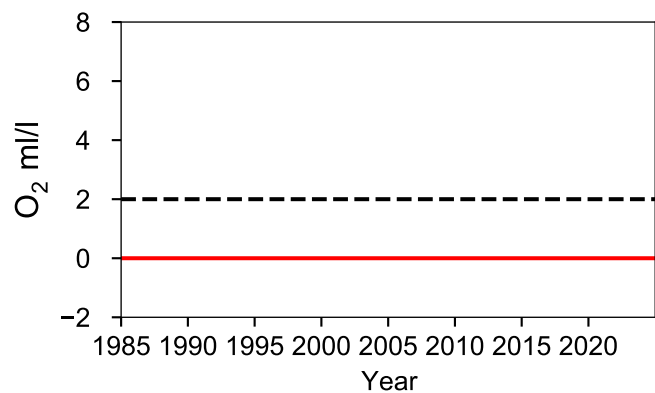
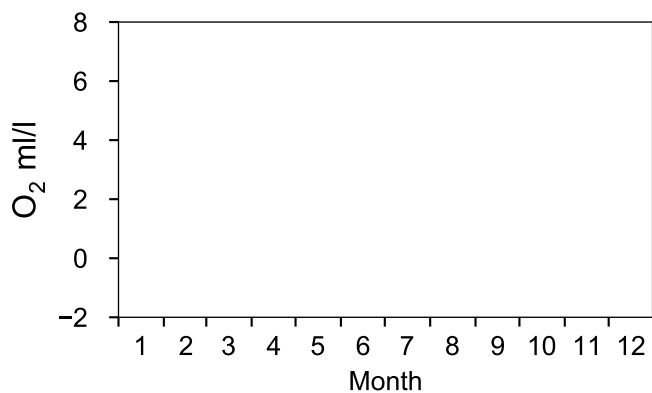
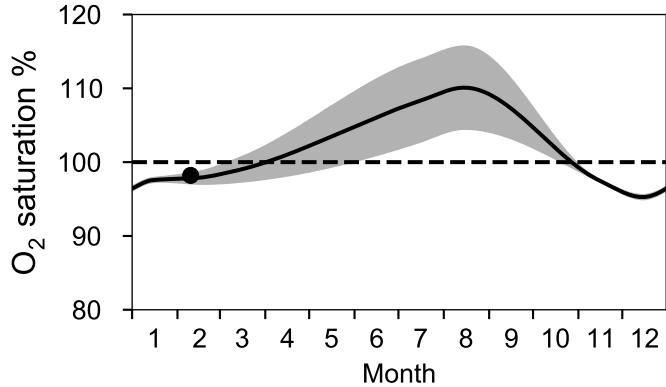
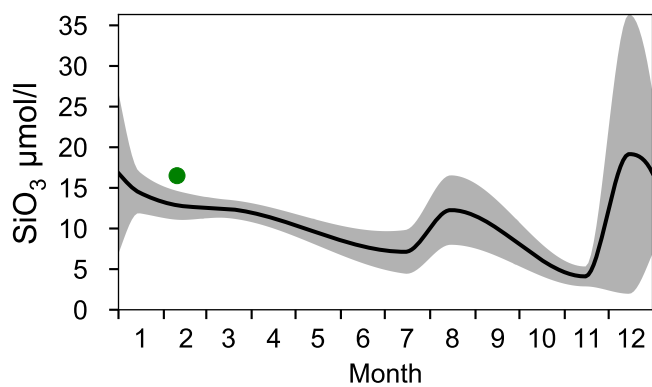
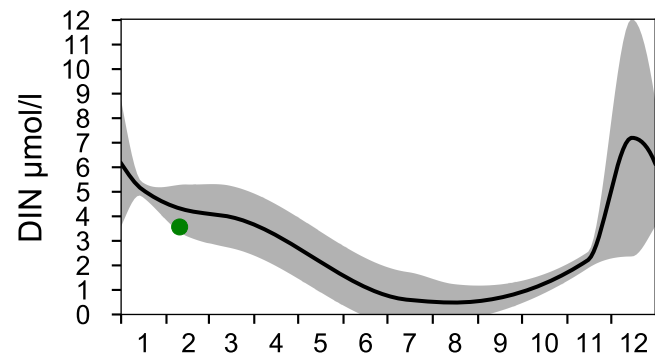
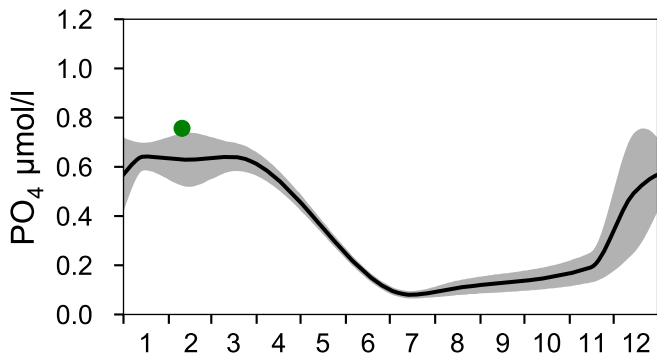
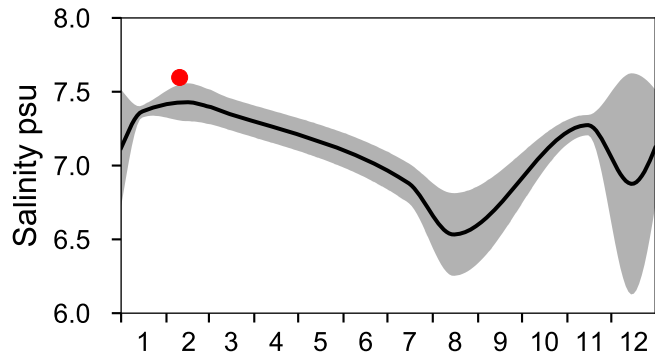
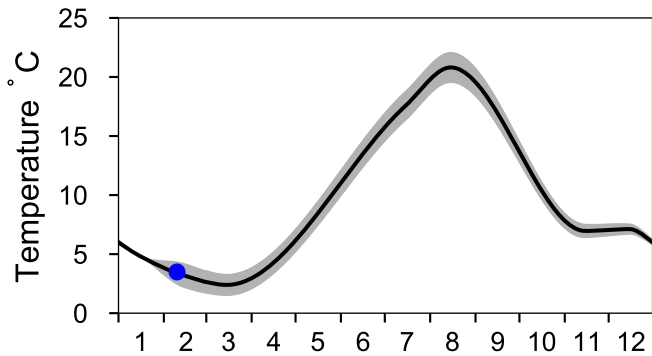


STATION PL-P1 SURFACE WATER (0-10 m)

Annual Cycles

Statistics based on data from: Gdanskbukten

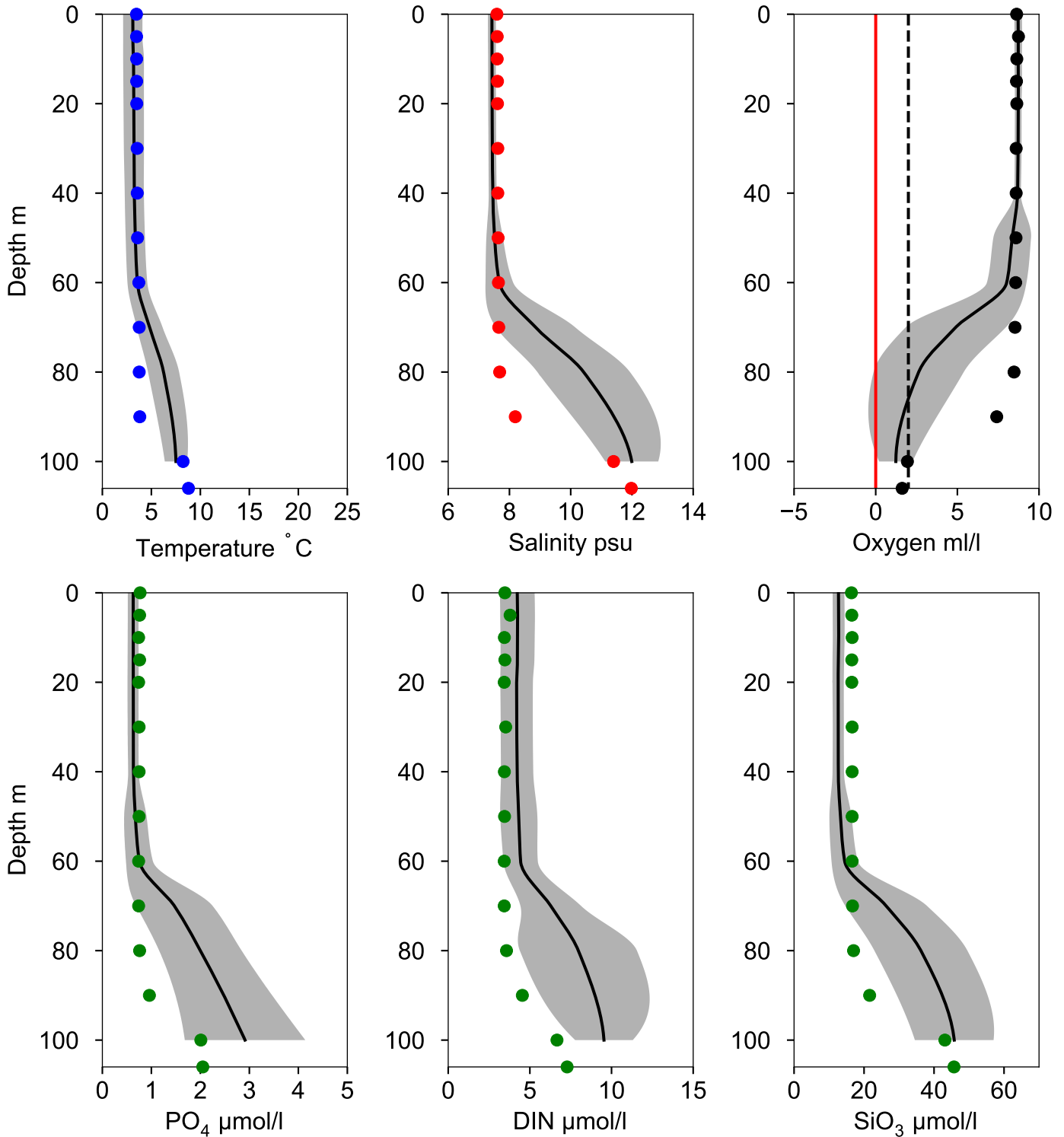
— Mean 1991-2020 St.Dev. ● 2024



Vertical profiles PL-P1 February

Statistics based on data from: Gdanskbukten

— Mean 1991-2020 ■ St.Dev. ● 2024-02-10

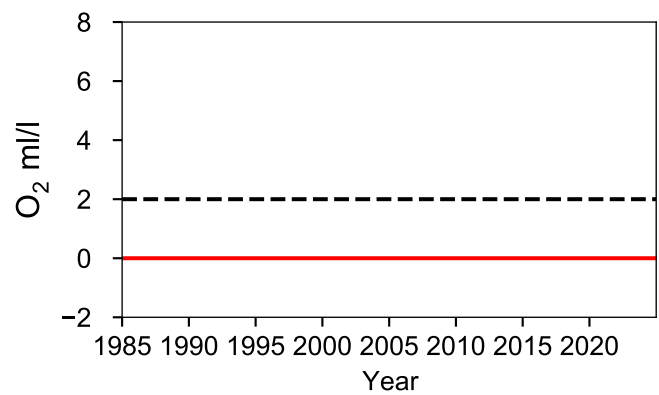
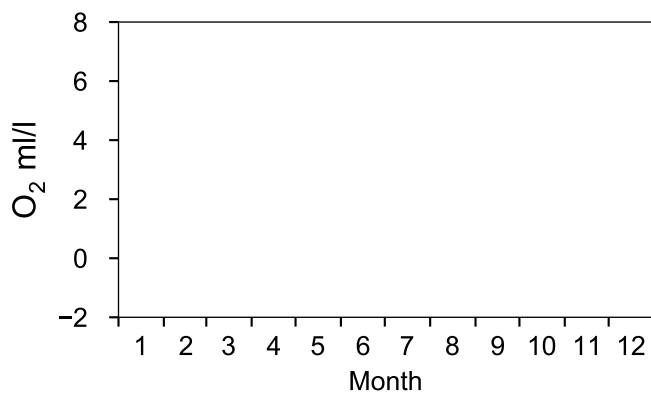
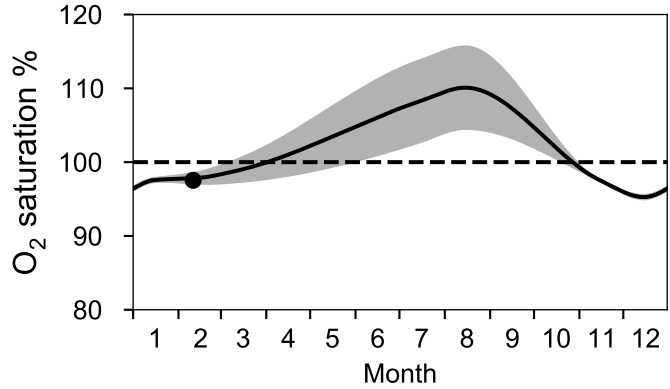
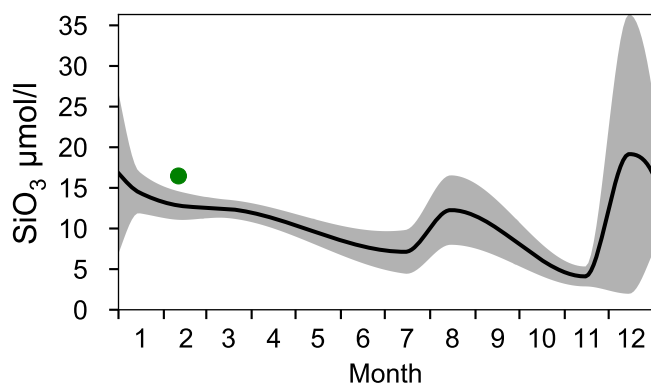
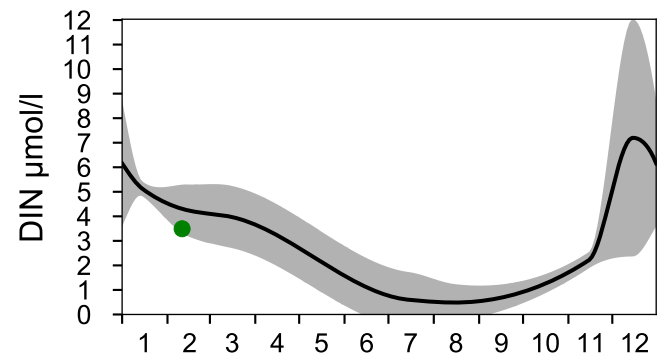
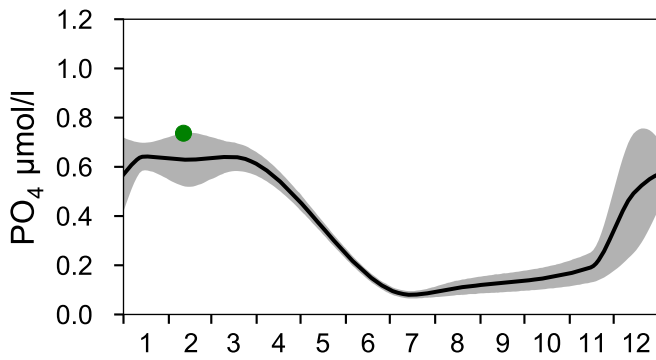
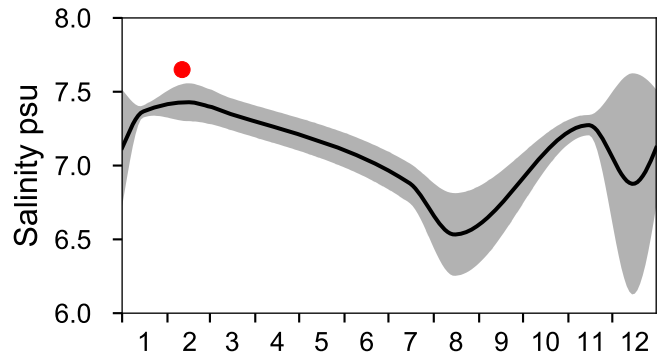
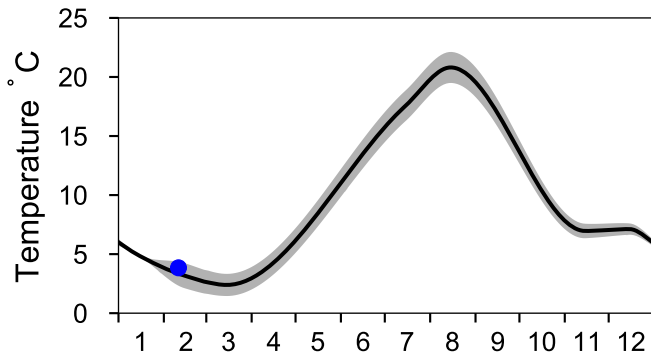


STATION PL-P63 SURFACE WATER (0-10 m)

Annual Cycles

Statistics based on data from: Gdanskbukten

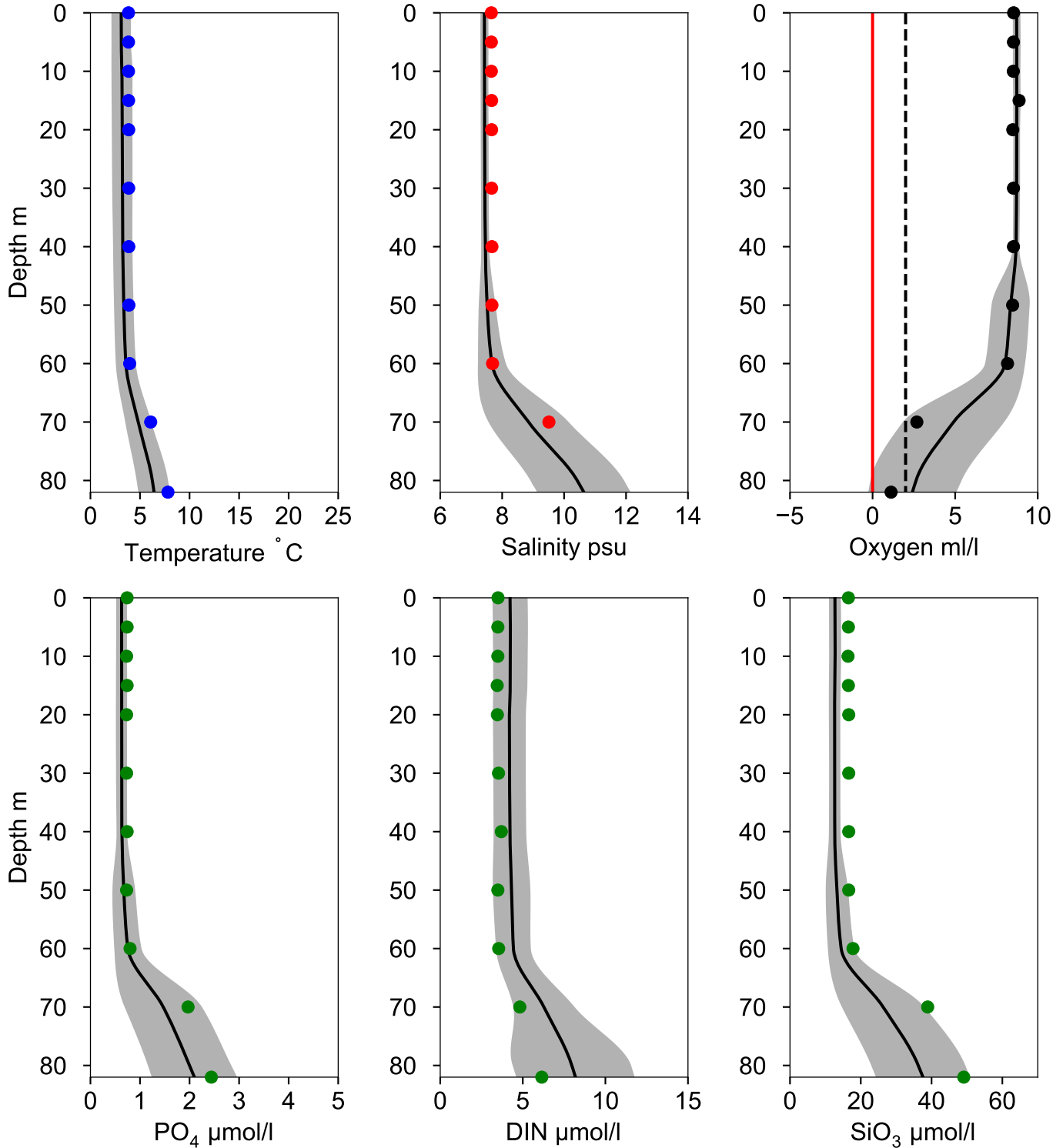
— Mean 1991-2020 St.Dev. ● 2024



Vertical profiles PL-P63 February

Statistics based on data from: Gdanskbukten

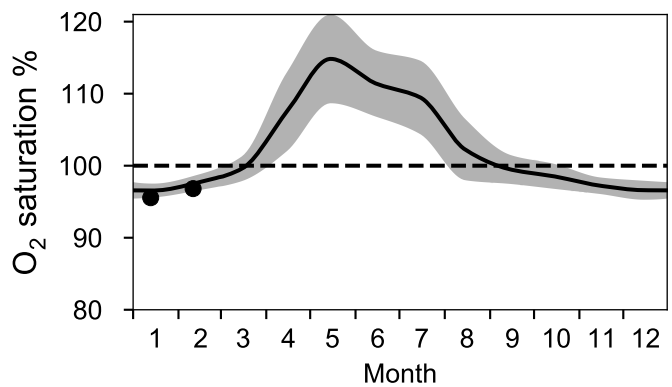
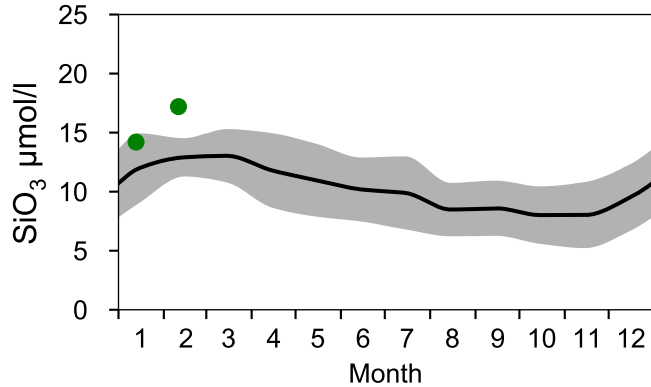
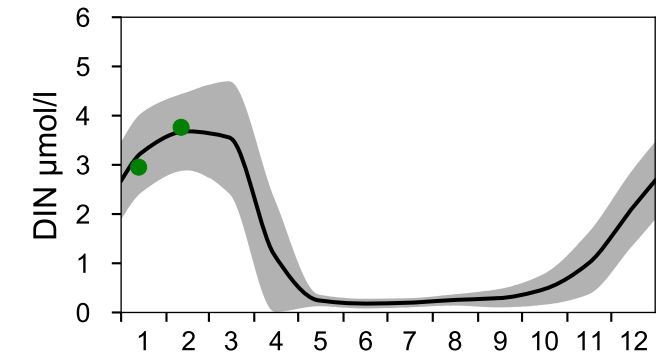
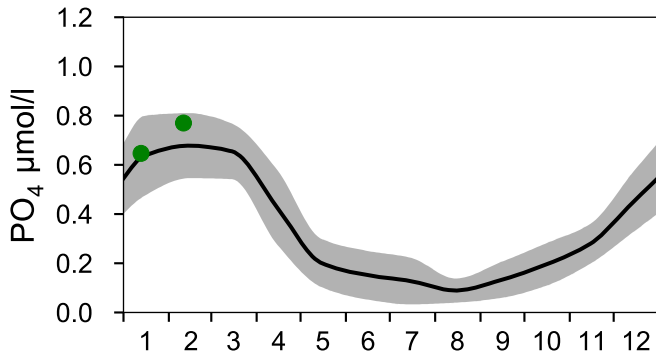
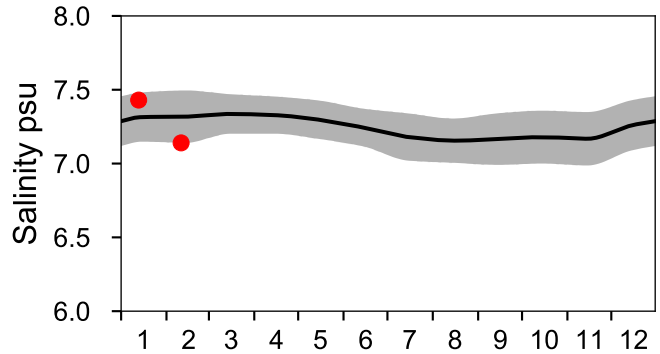
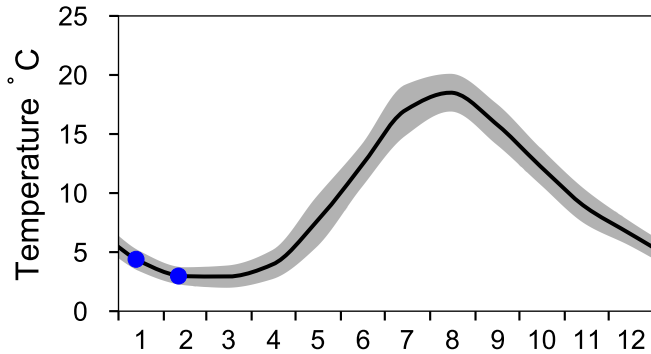
— Mean 1991-2020 ■ St.Dev. ● 2024-02-11



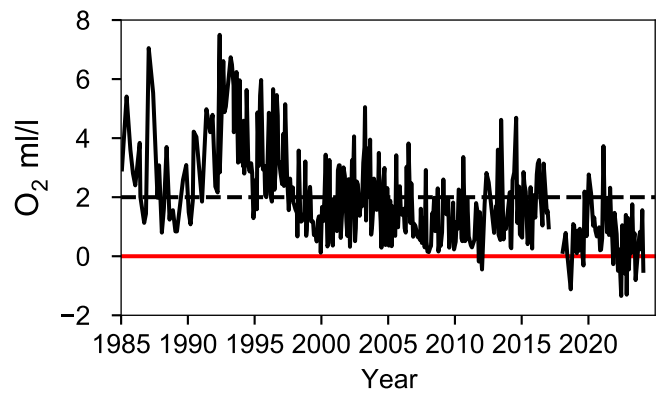
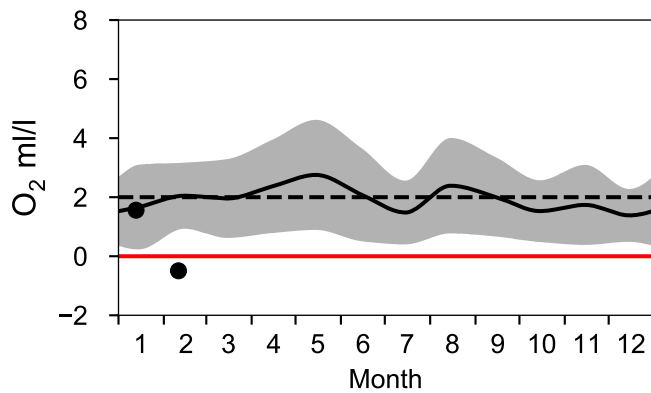
STATION BCS III-10 SURFACE WATER (0-10 m)

Annual Cycles

— Mean 1991-2020 St.Dev. ● 2024

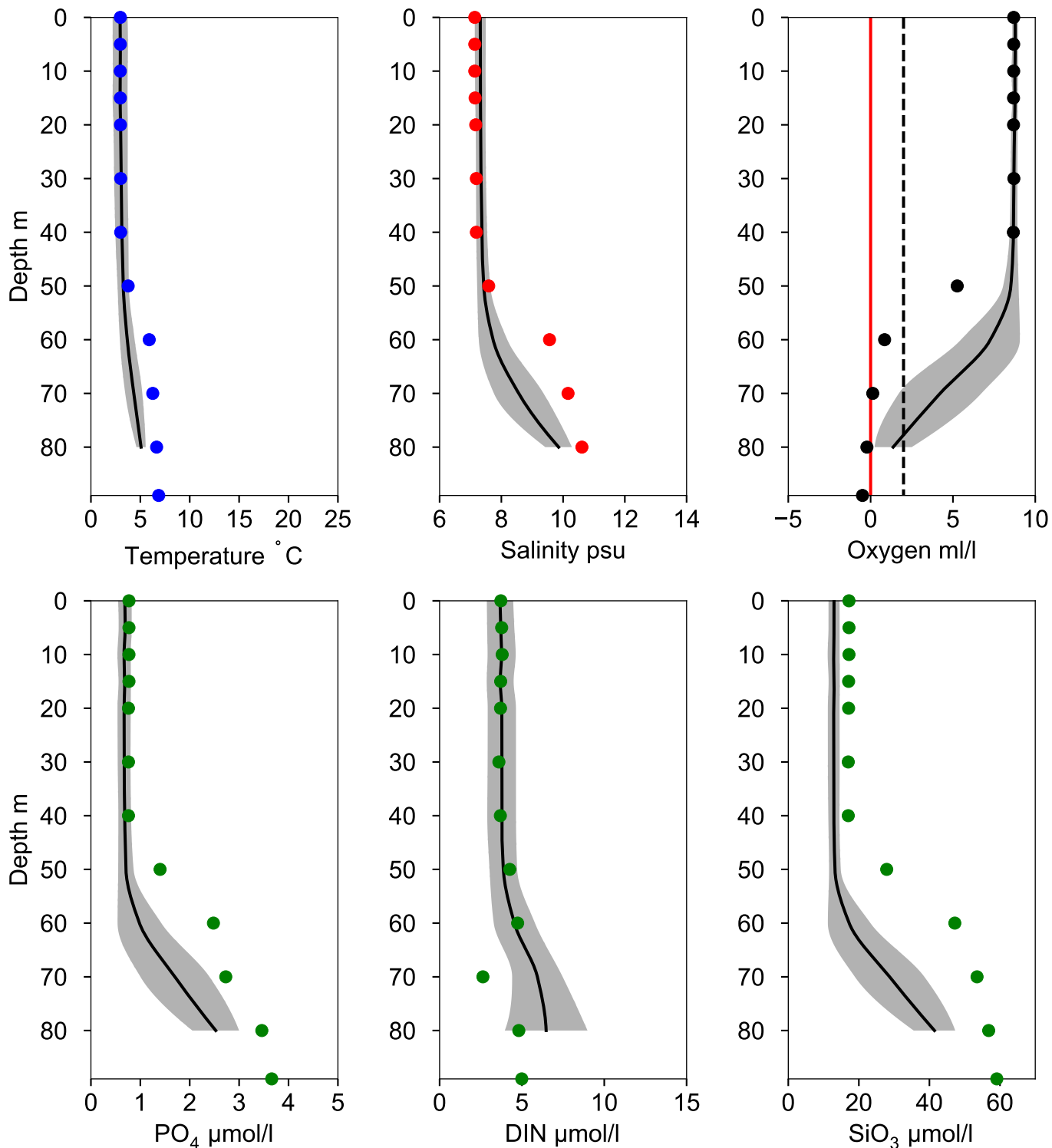


OXYGEN IN BOTTOM WATER (depth >= 80 m)



Vertical profiles BCS III-10 February

— Mean 1919-2020 St.Dev. ● 2024-02-11

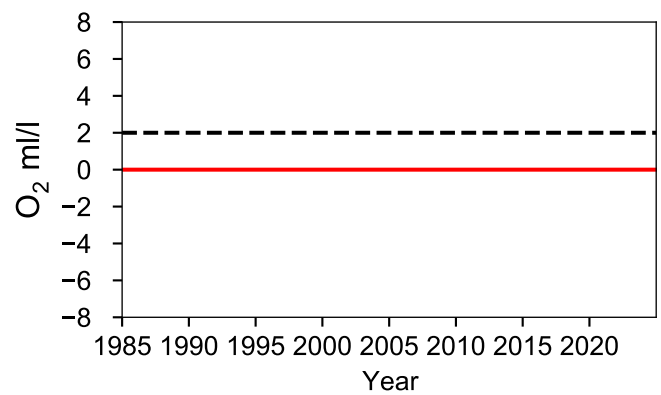
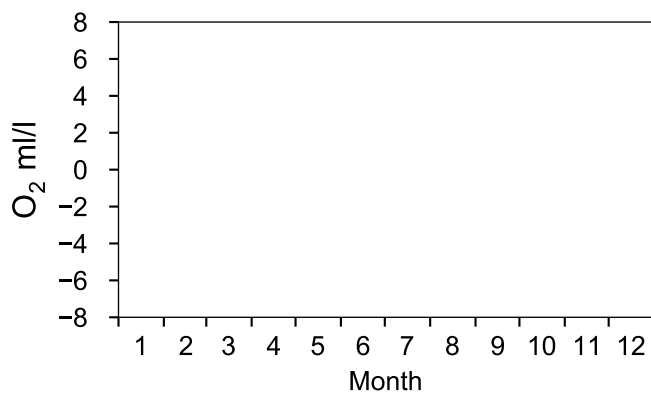
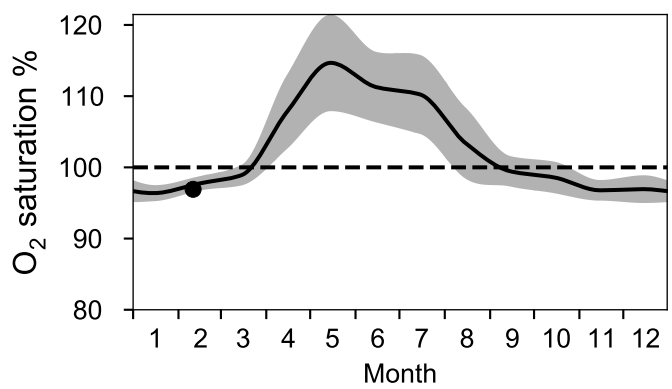
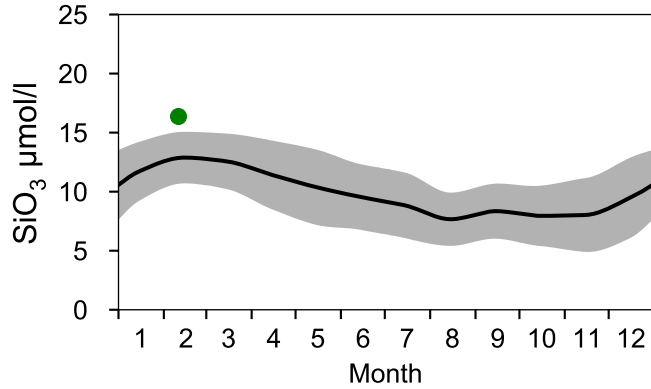
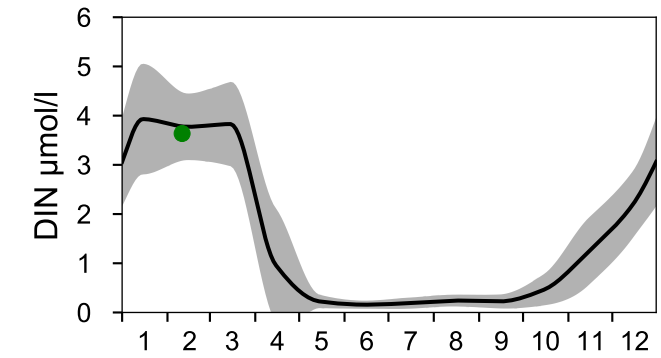
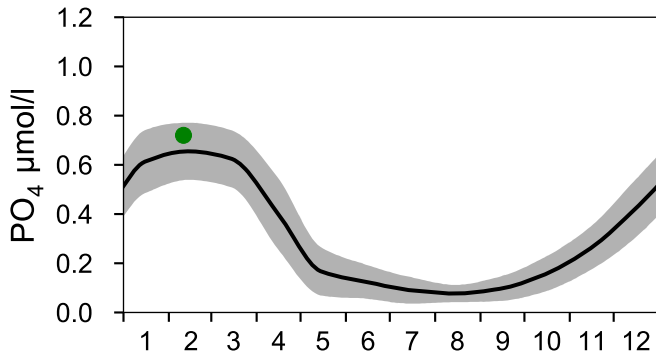
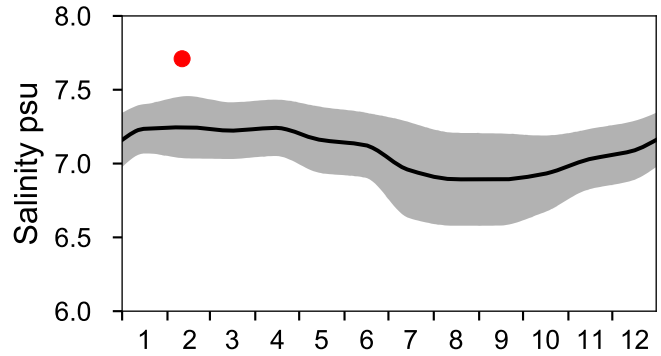
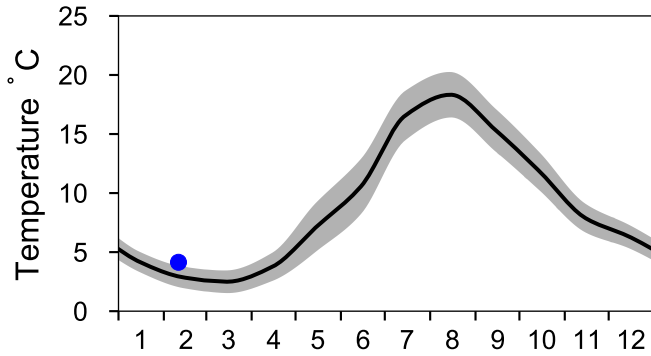


STATION BY9 KLAIPEDA SURFACE WATER (0-10 m)

Annual Cycles

Statistics based on data from: Östra Gotlandshavet

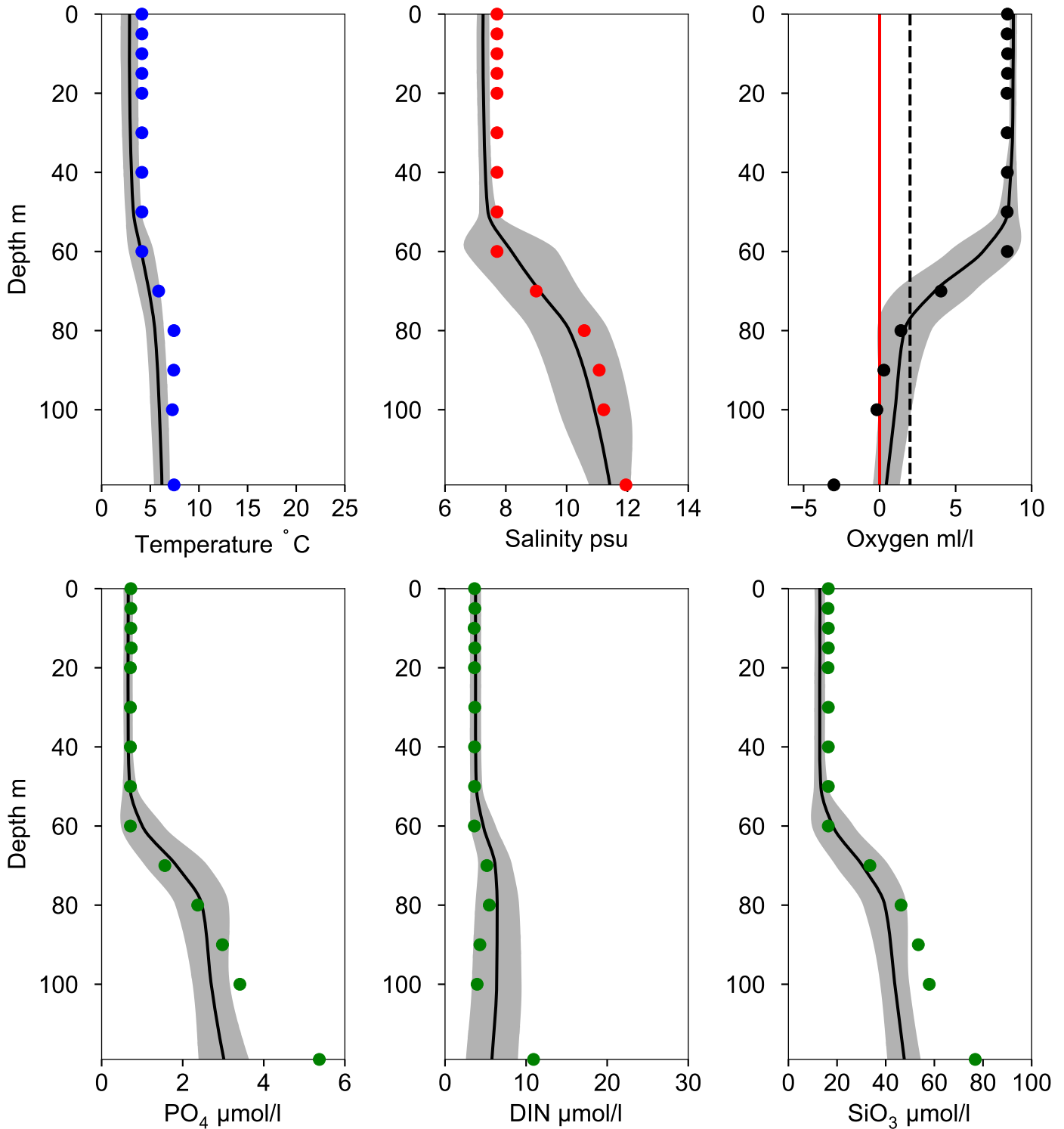
— Mean 1991-2020 St.Dev. ● 2024



Vertical profiles BY9 KLAIPEDA February

Statistics based on data from: Östra Gotlandshavet

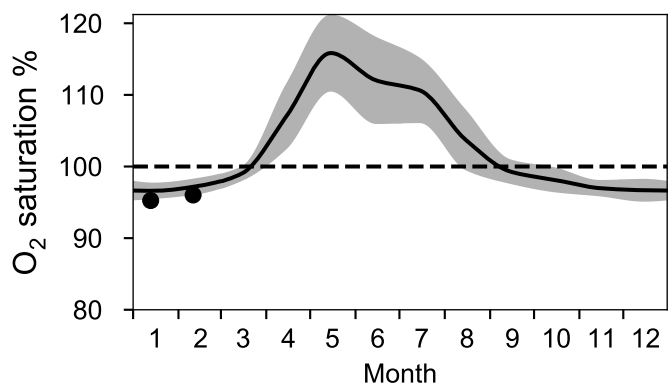
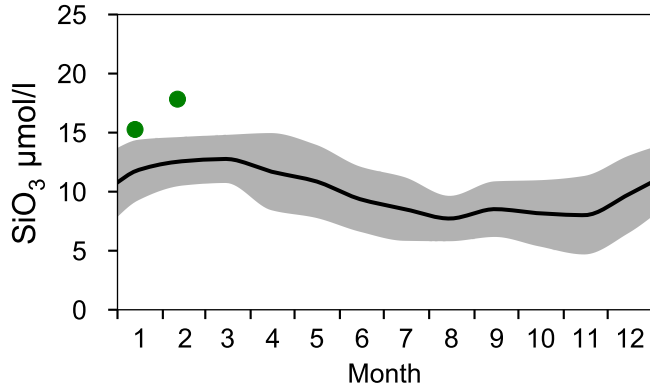
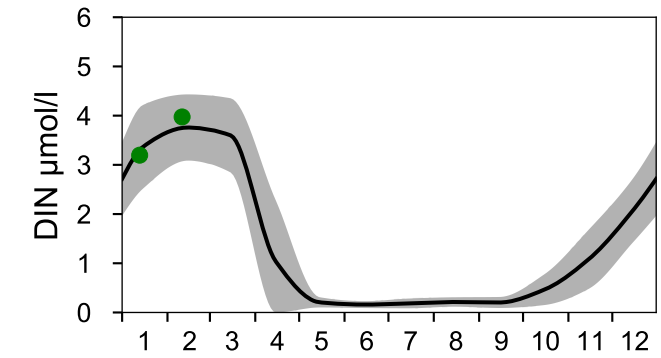
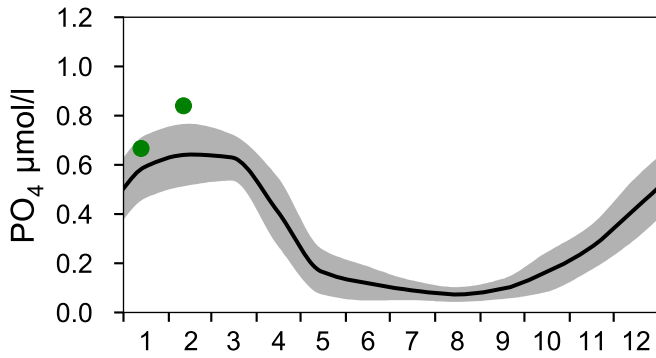
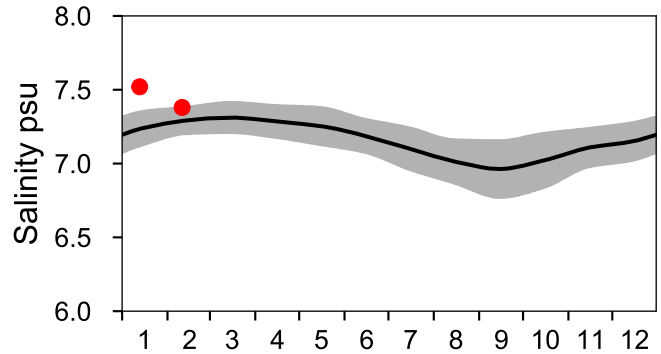
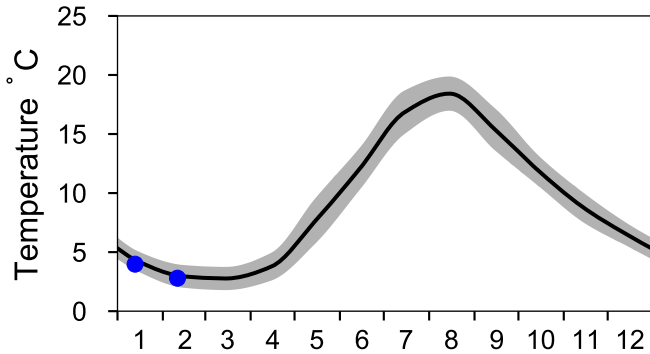
— Mean 1919-2020 ■ St.Dev. ● 2024-02-11



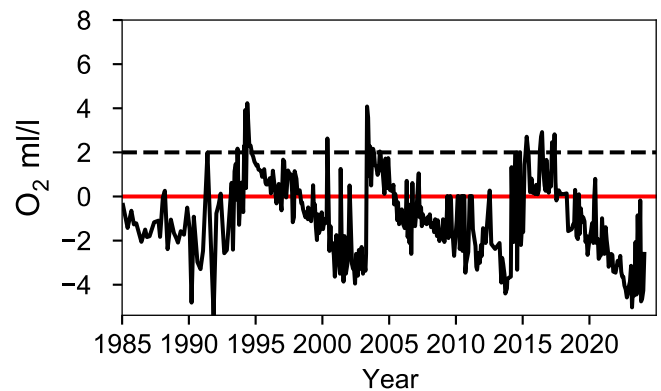
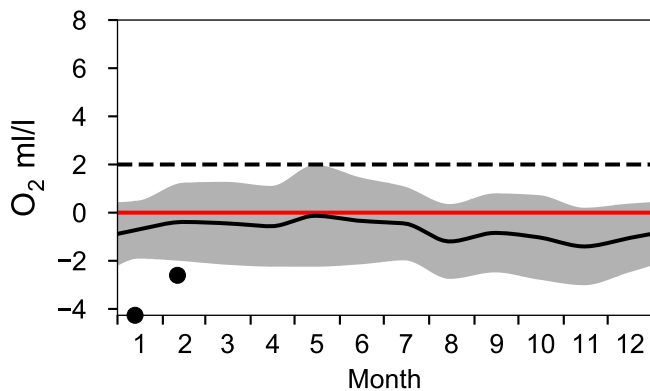
STATION BY10 SURFACE WATER (0-10 m)

Annual Cycles

— Mean 1991-2020 St.Dev. ● 2024

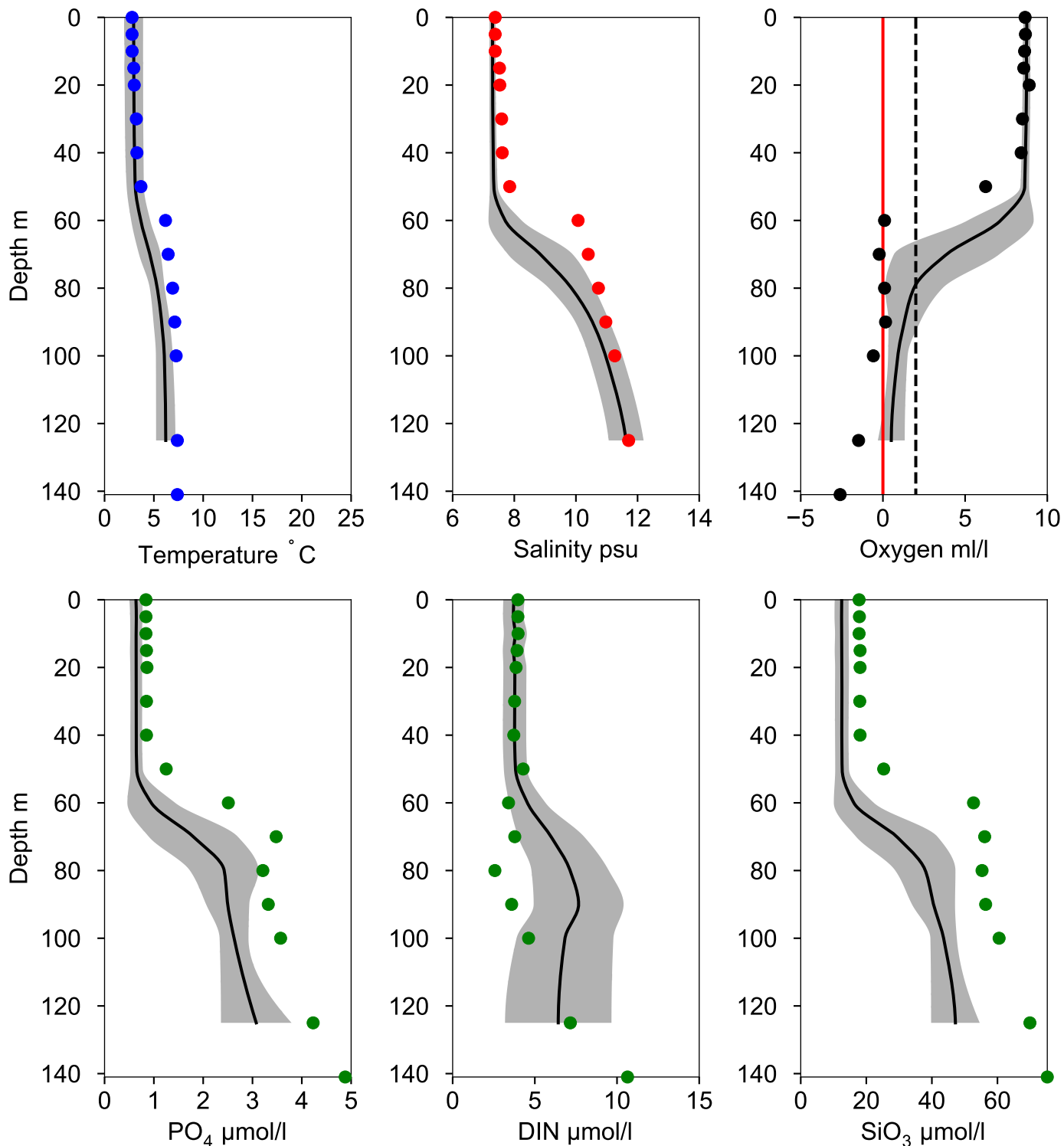


OXYGEN IN BOTTOM WATER (depth >= 125 m)



Vertical profiles BY10 February

— Mean 1919-2020 ■ St.Dev. ● 2024-02-11

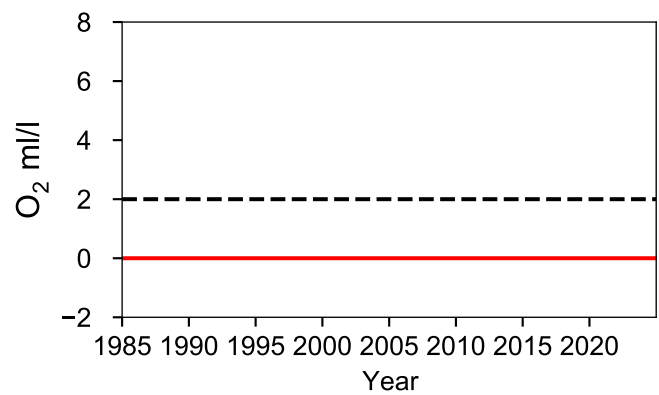
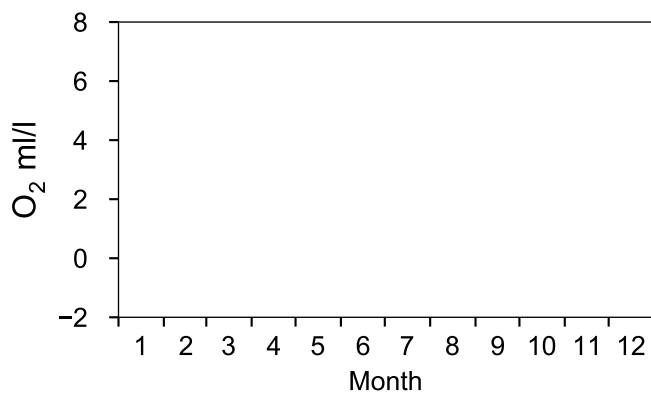
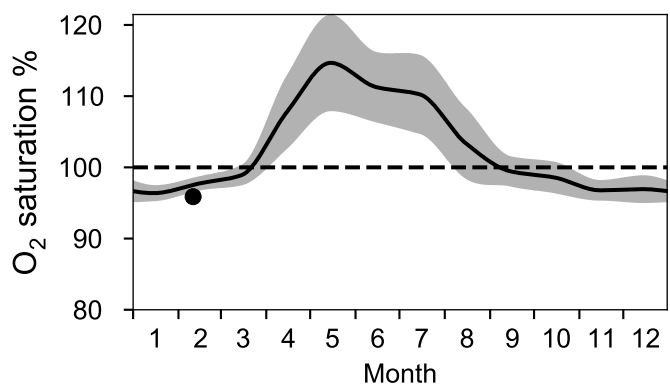
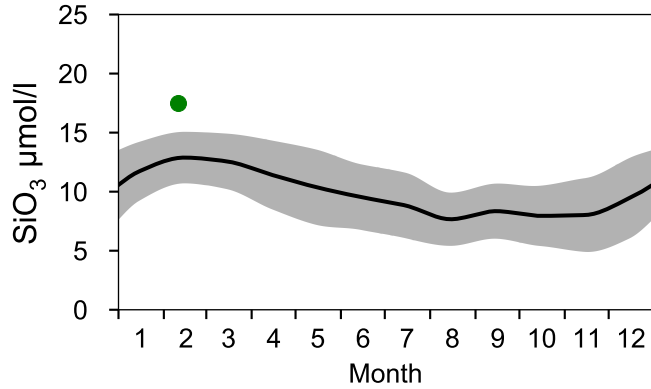
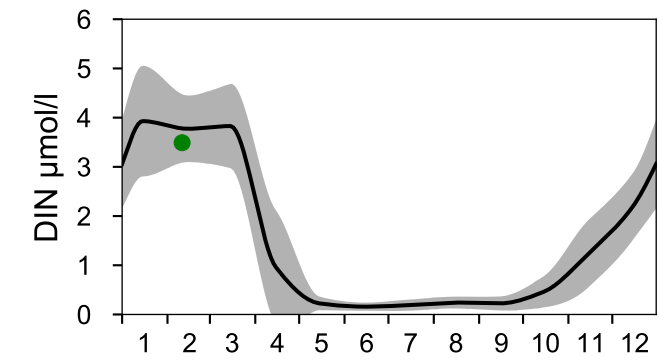
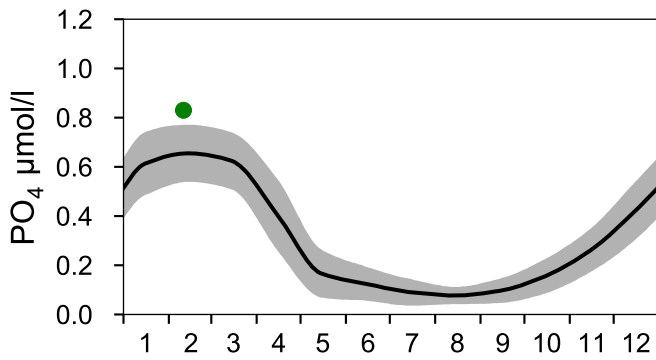
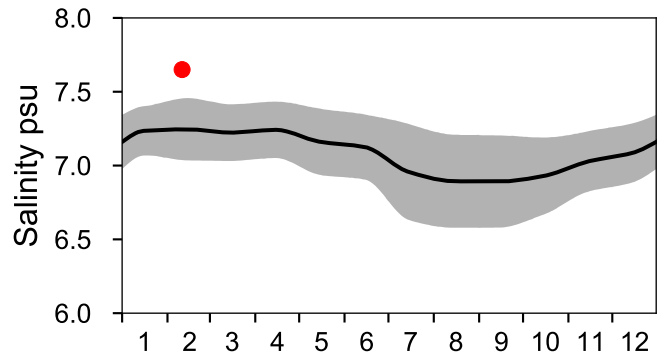
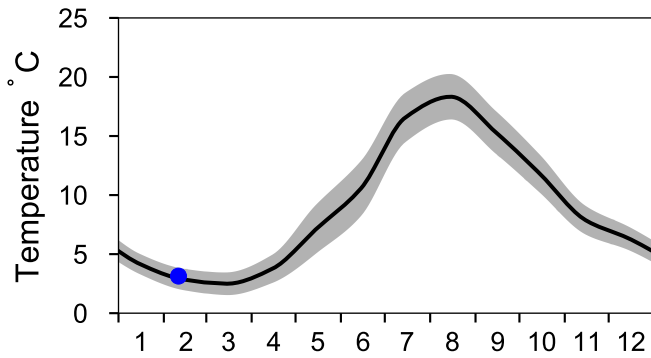


STATION BY11 SURFACE WATER (0-10 m)

Annual Cycles

Statistics based on data from: Östra Gotlandshavet

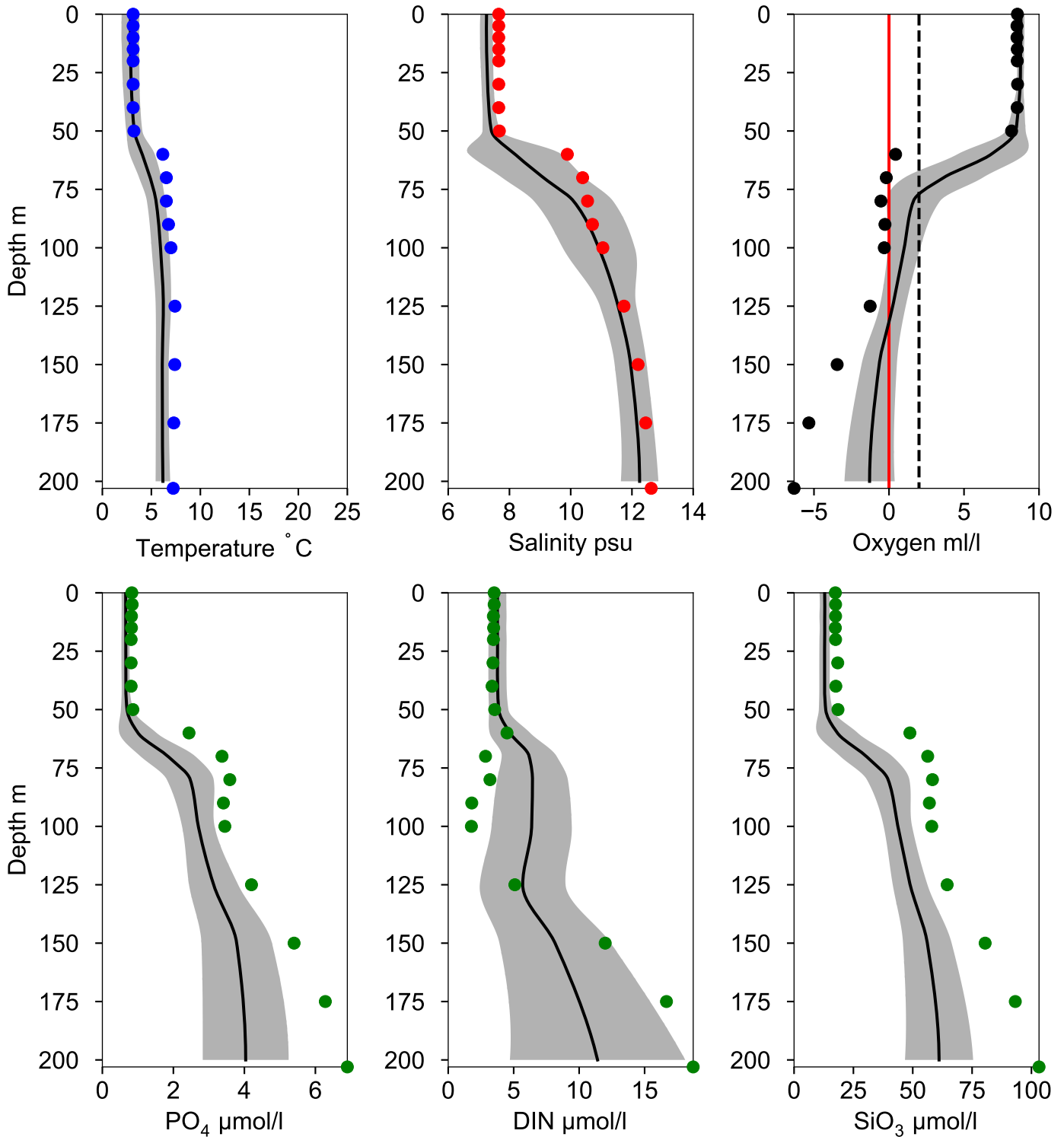
— Mean 1991-2020 St.Dev. ● 2024



Vertical profiles BY11 February

Statistics based on data from: Östra Gotlandshavet

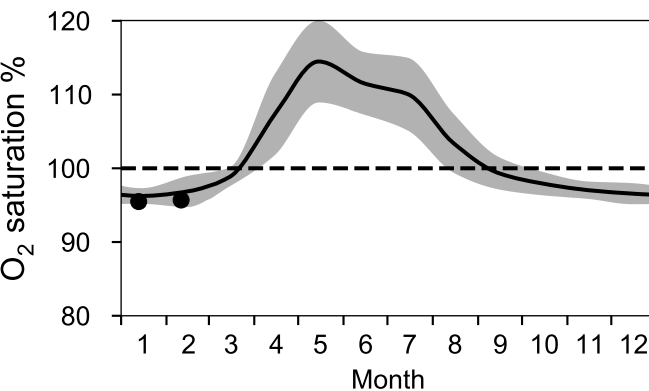
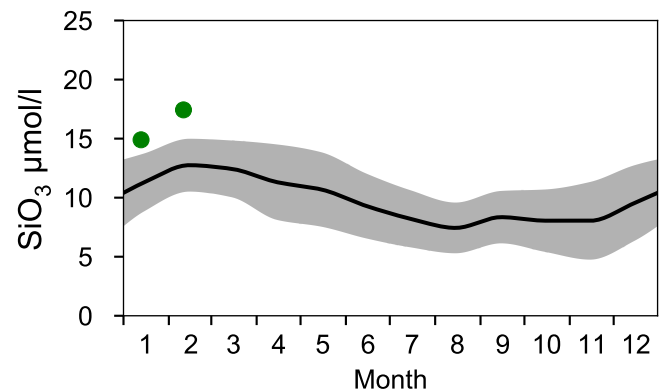
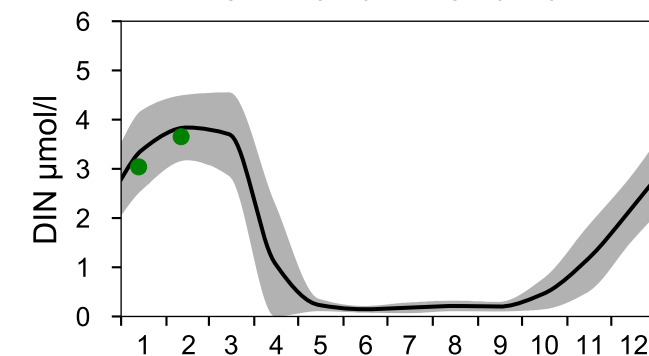
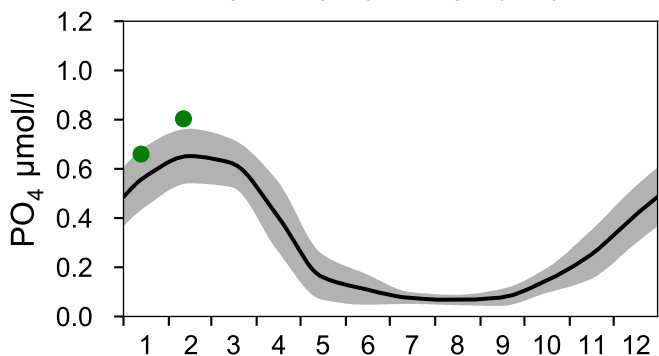
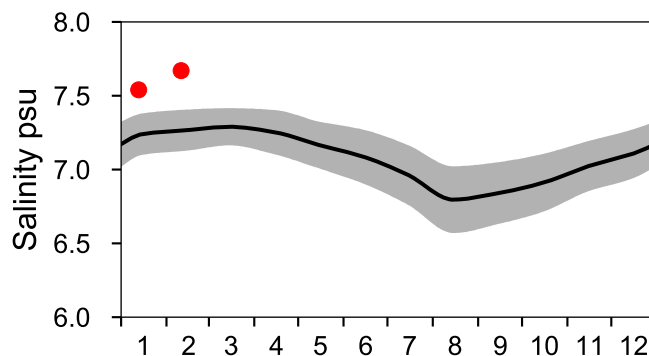
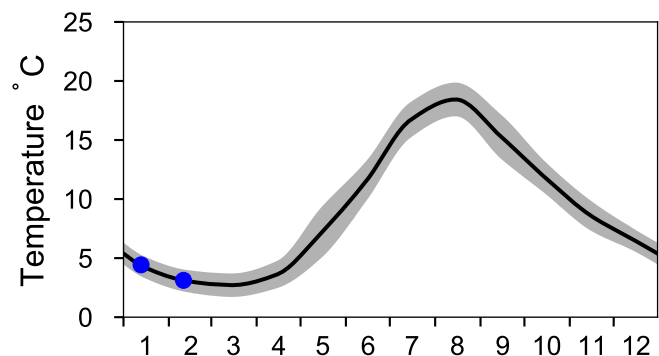
— Mean 1919-2020 ■ St.Dev. ● 2024-02-11



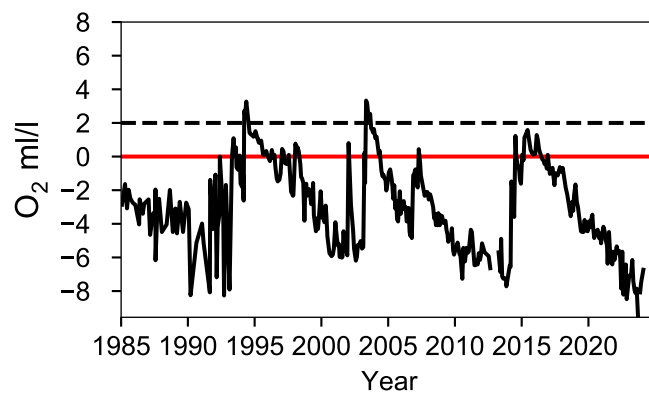
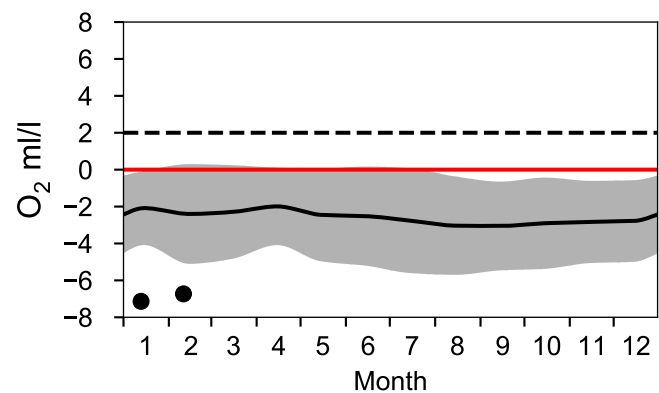
STATION BY15 GOTLANDSDJ SURFACE WATER (0-10 m)

Annual Cycles

— Mean 1991-2020 St.Dev. ● 2024

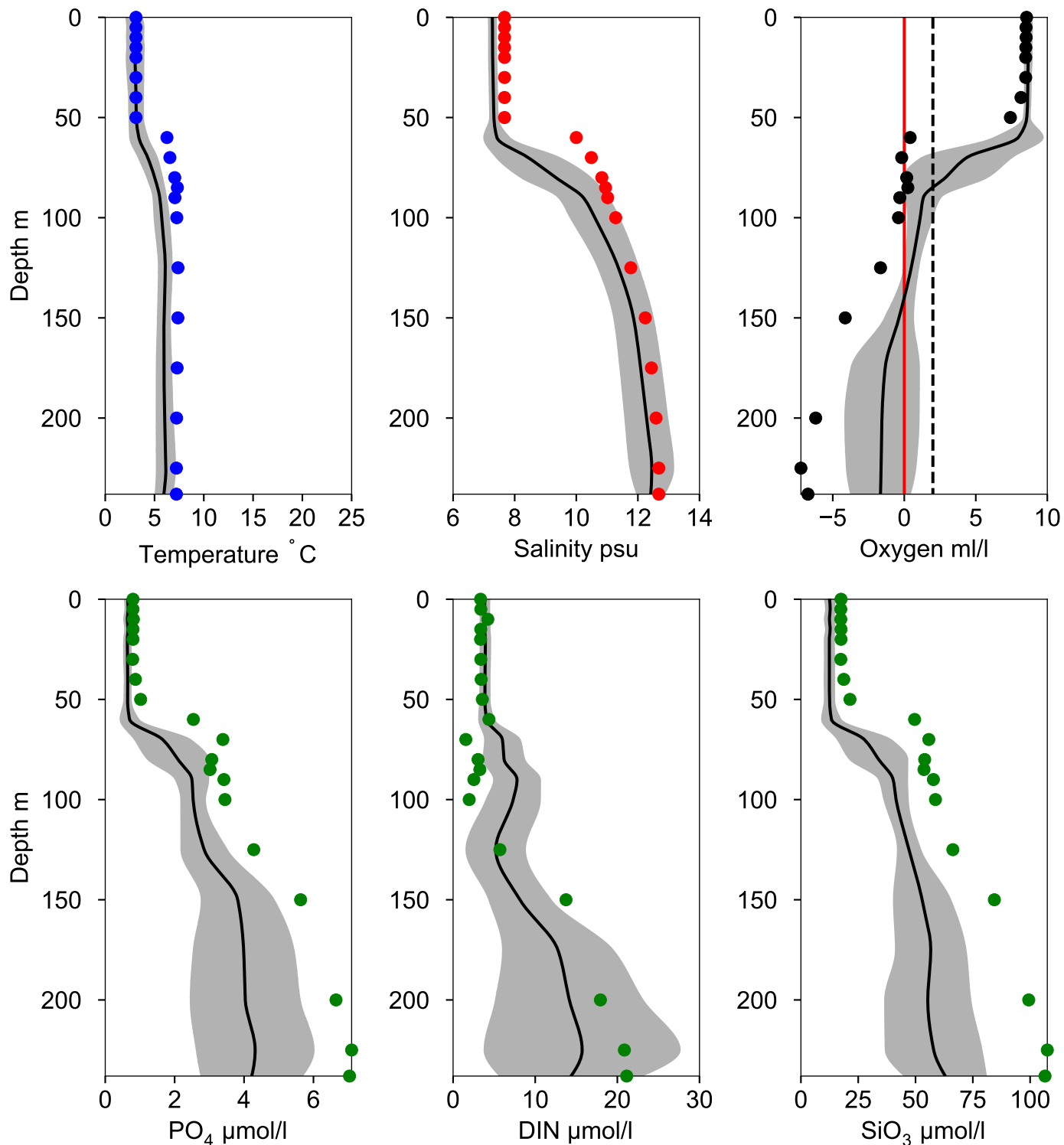


OXYGEN IN BOTTOM WATER (depth >= 225 m)



Vertical profiles BY15 GOTLANDSDJ February

— Mean 1919-2020 ■ St.Dev. ● 2024-02-11

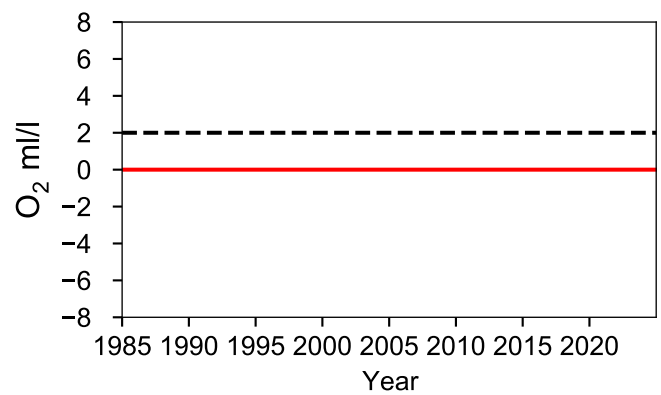
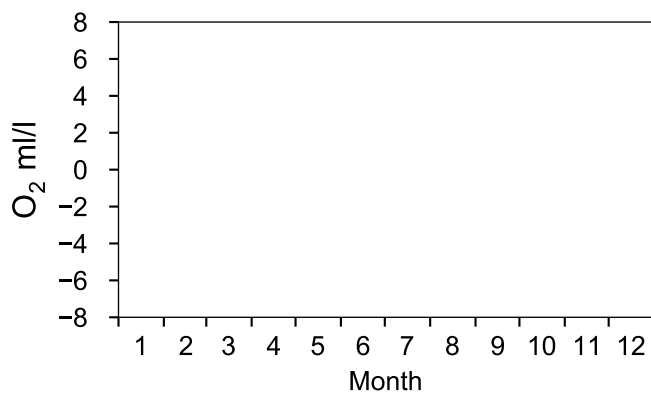
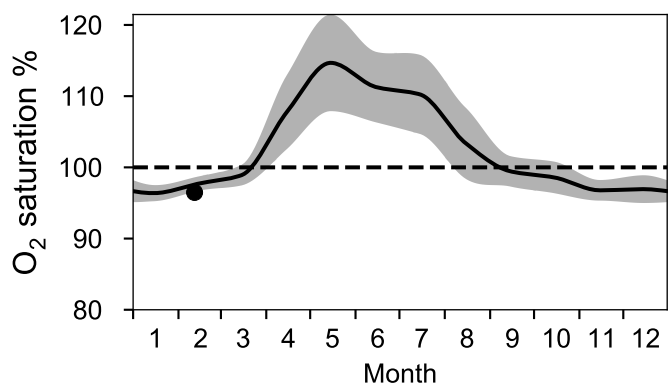
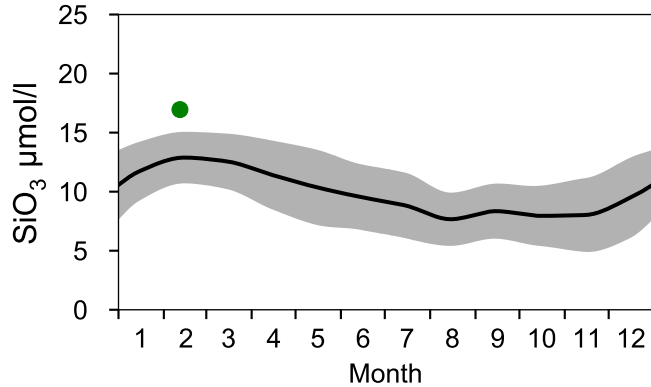
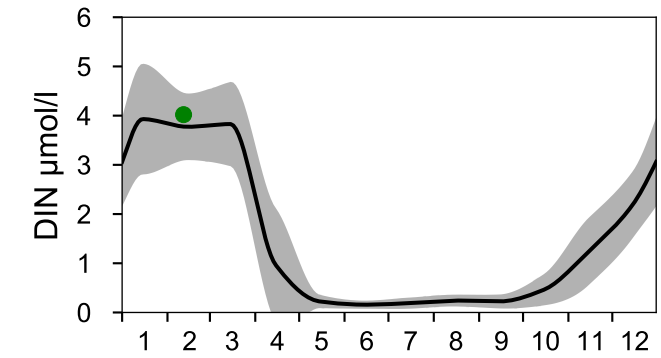
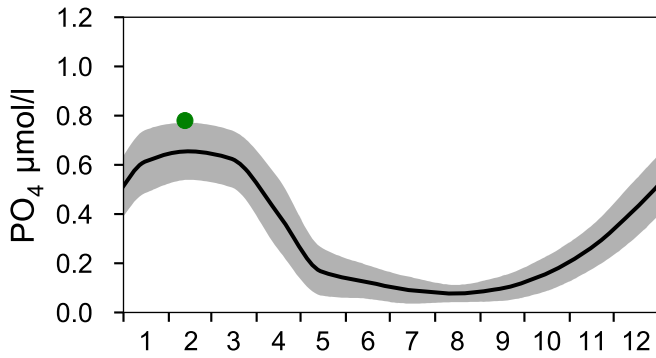
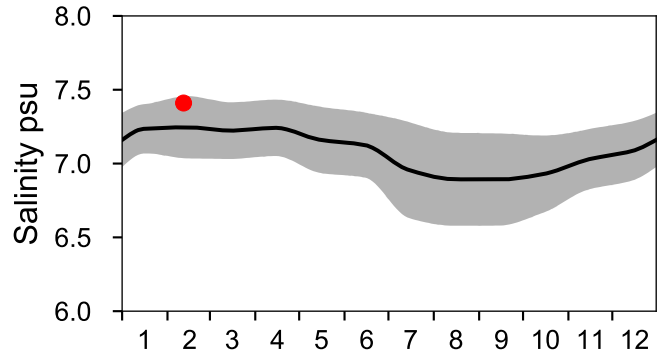
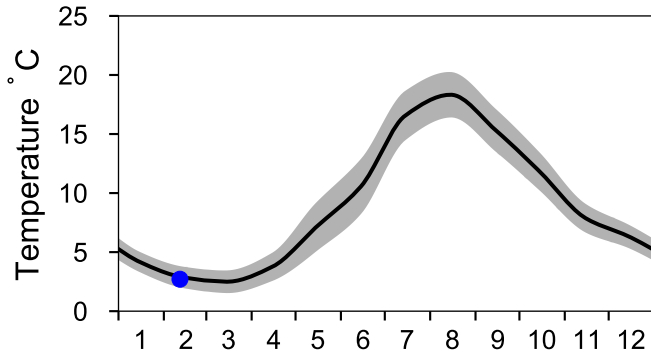


STATION BY13 SURFACE WATER (0-10 m)

Annual Cycles

Statistics based on data from: Östra Gotlandshavet

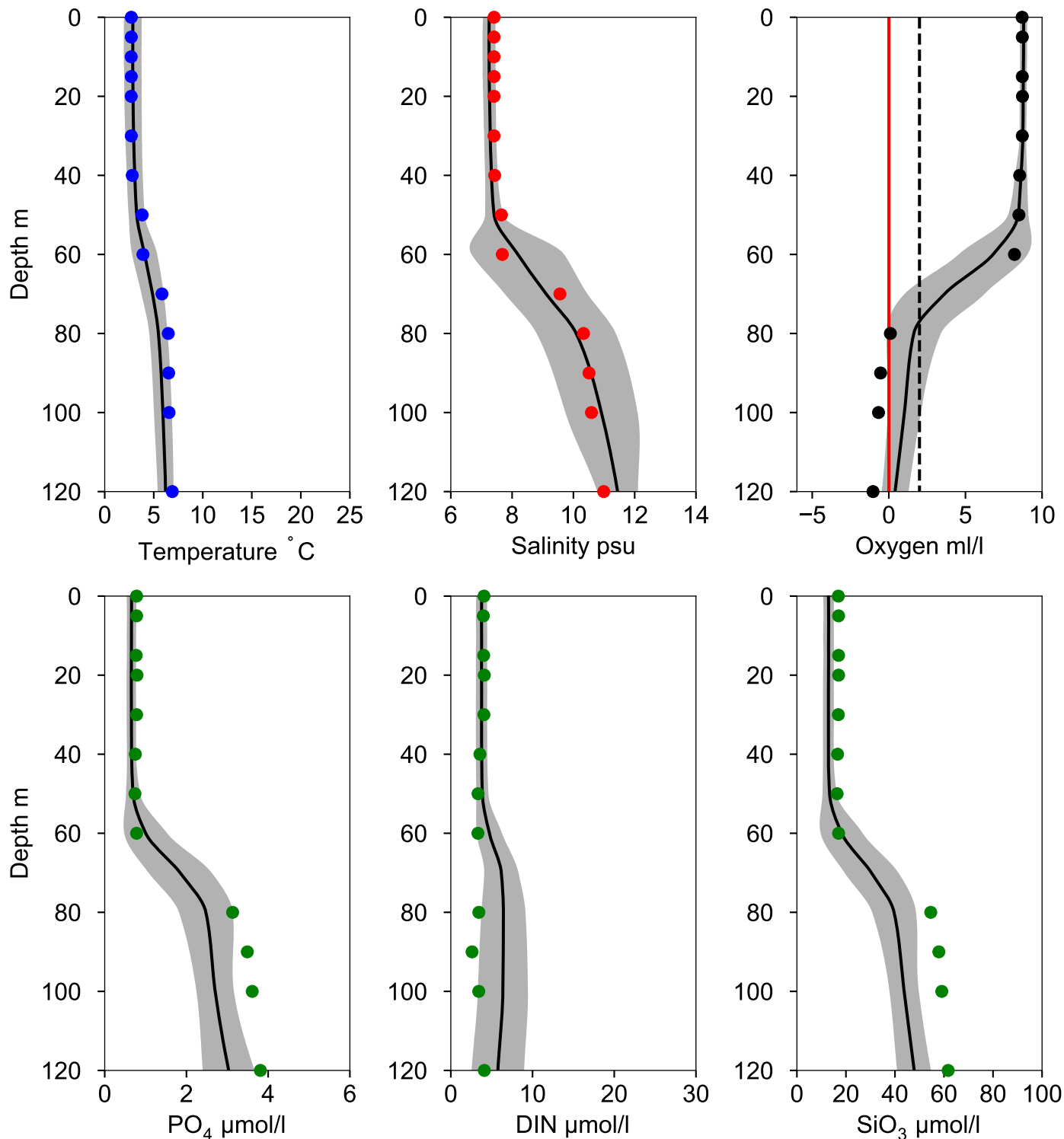
— Mean 1991-2020 St.Dev. ● 2024



Vertical profiles BY13 February

Statistics based on data from: Östra Gotlandshavet

— Mean 1991-2020 ■ St.Dev. ● 2024-02-12

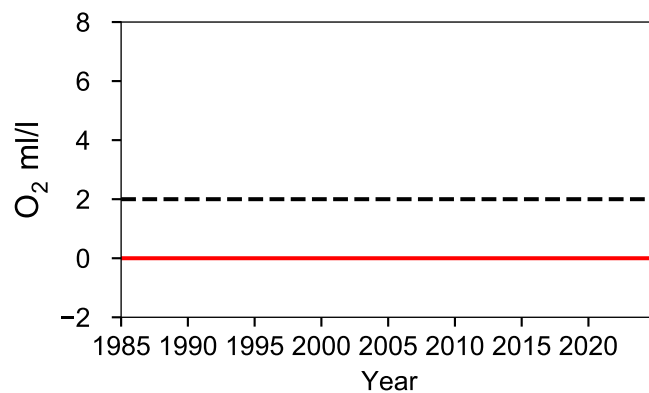
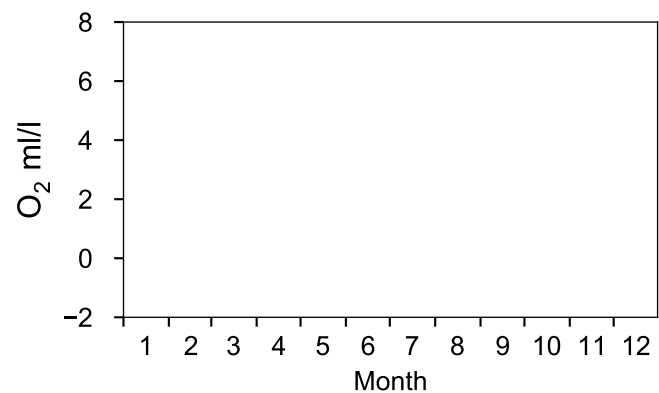
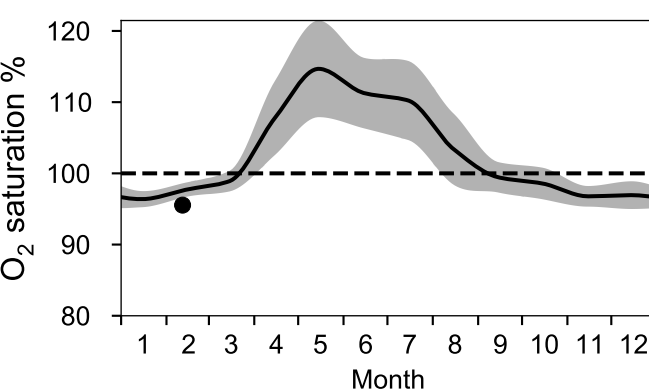
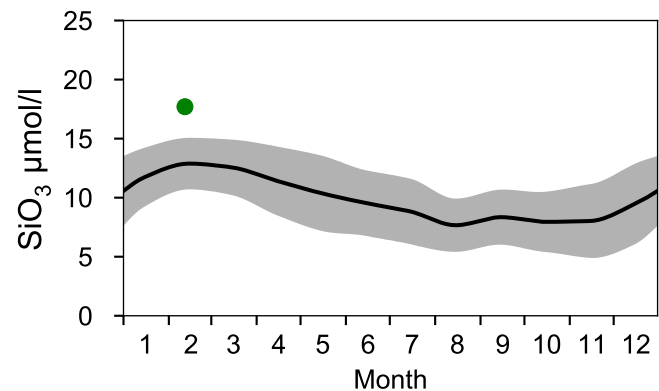
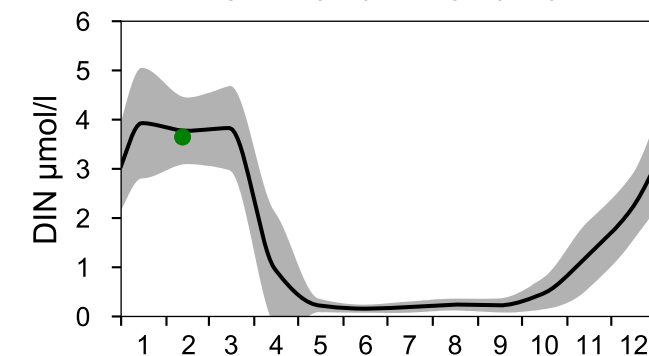
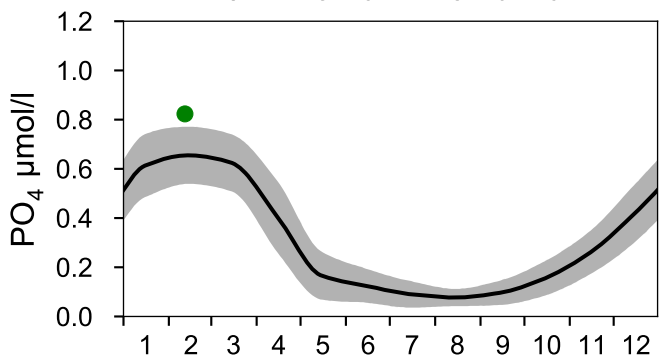
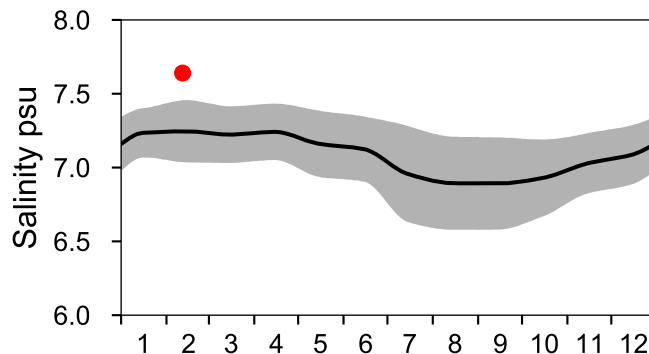
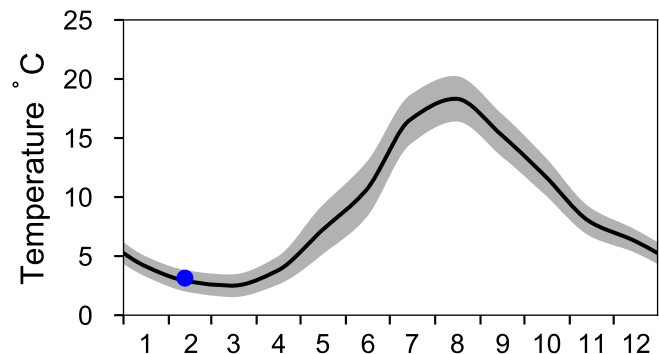


STATION BY19 SURFACE WATER (0-10 m)

Annual Cycles

Statistics based on data from: Östra Gotlandshavet

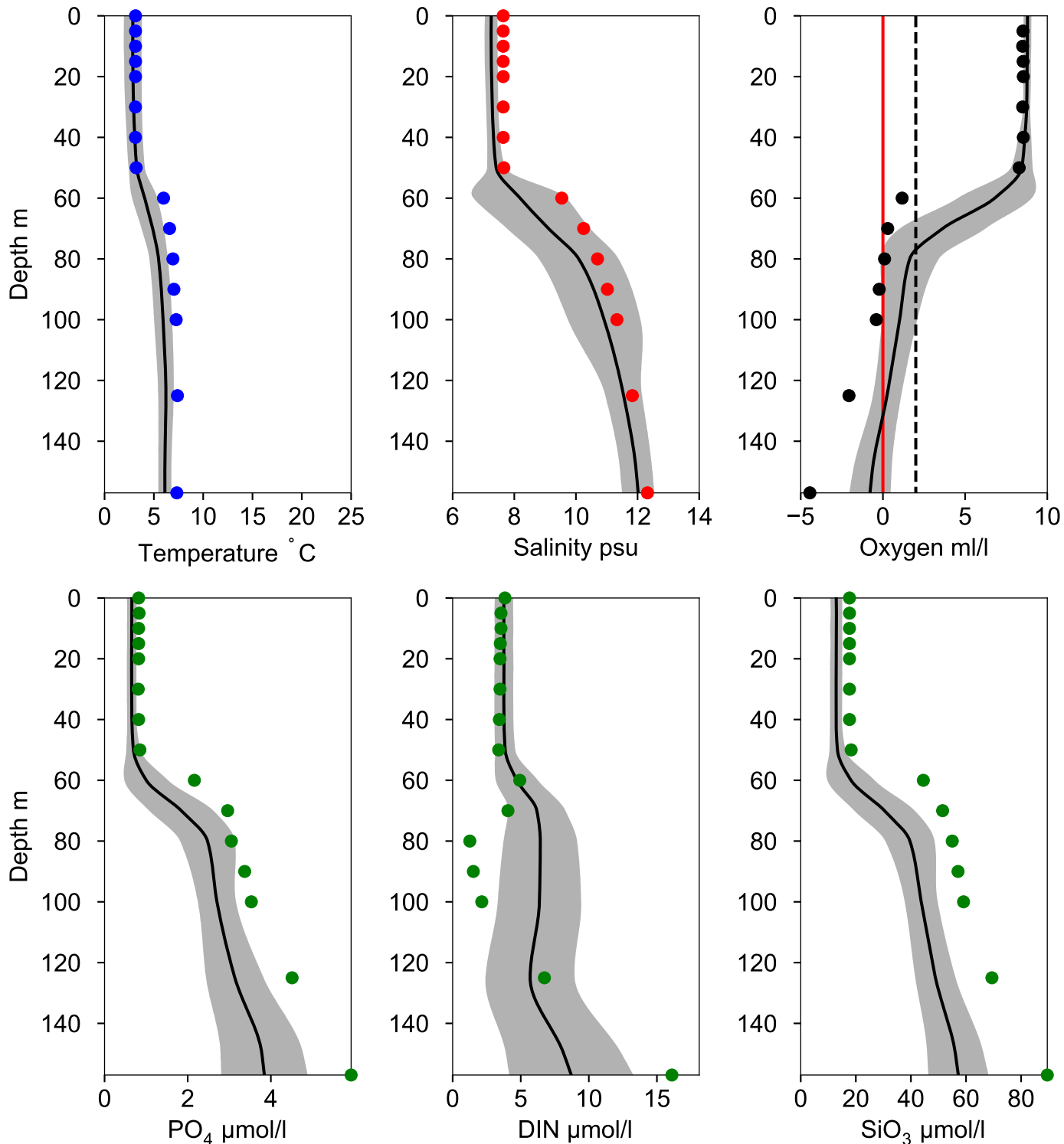
— Mean 1991-2020 St.Dev. ● 2024



Vertical profiles BY19 February

Statistics based on data from: Östra Gotlandshavet

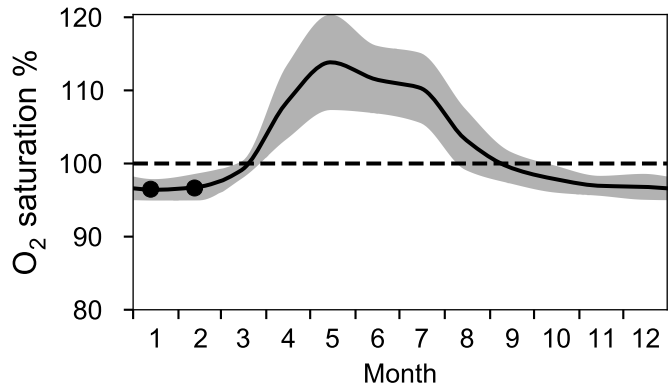
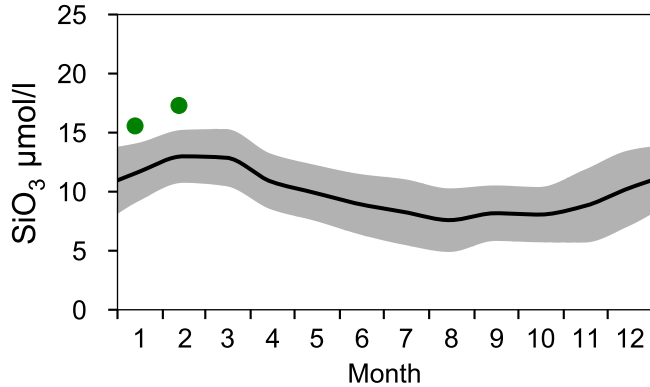
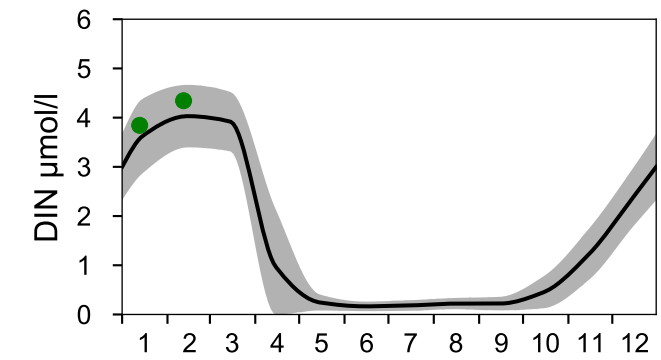
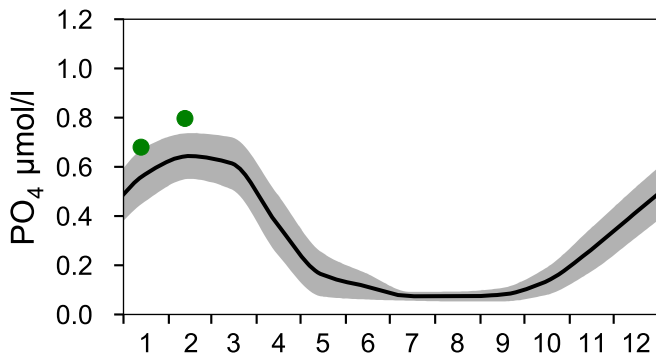
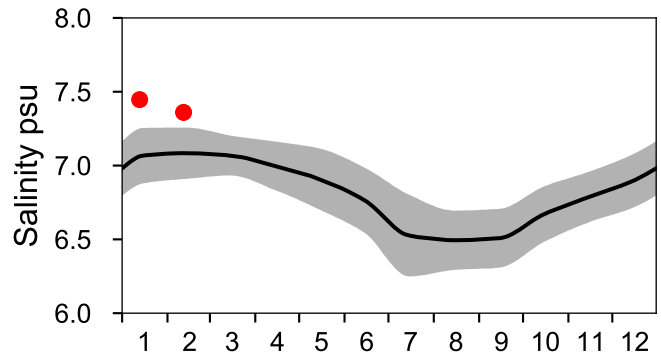
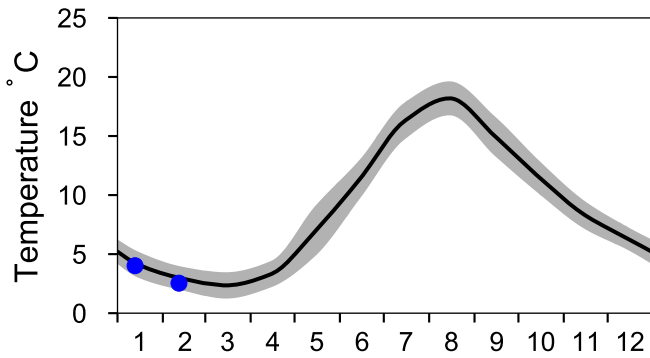
— Mean 1991-2020 ■ St.Dev. ● 2024-02-12



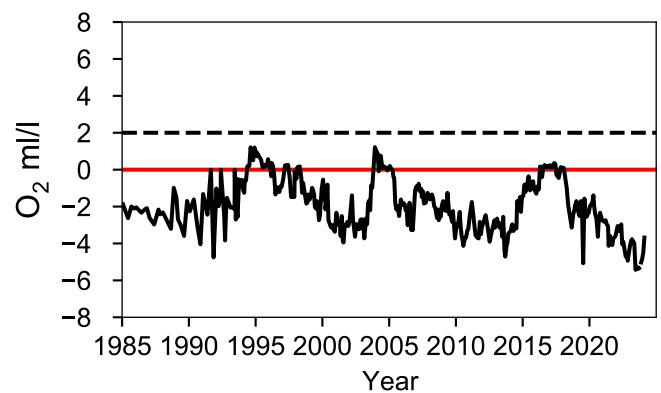
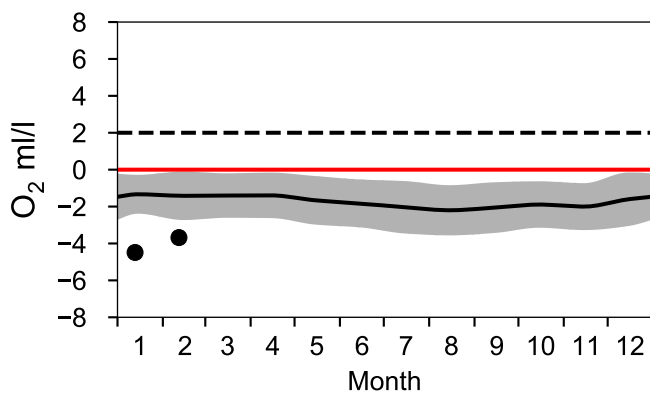
STATION BY20 FÄRÖDJ SURFACE WATER (0-10 m)

Annual Cycles

— Mean 1991-2020 St.Dev. ● 2024

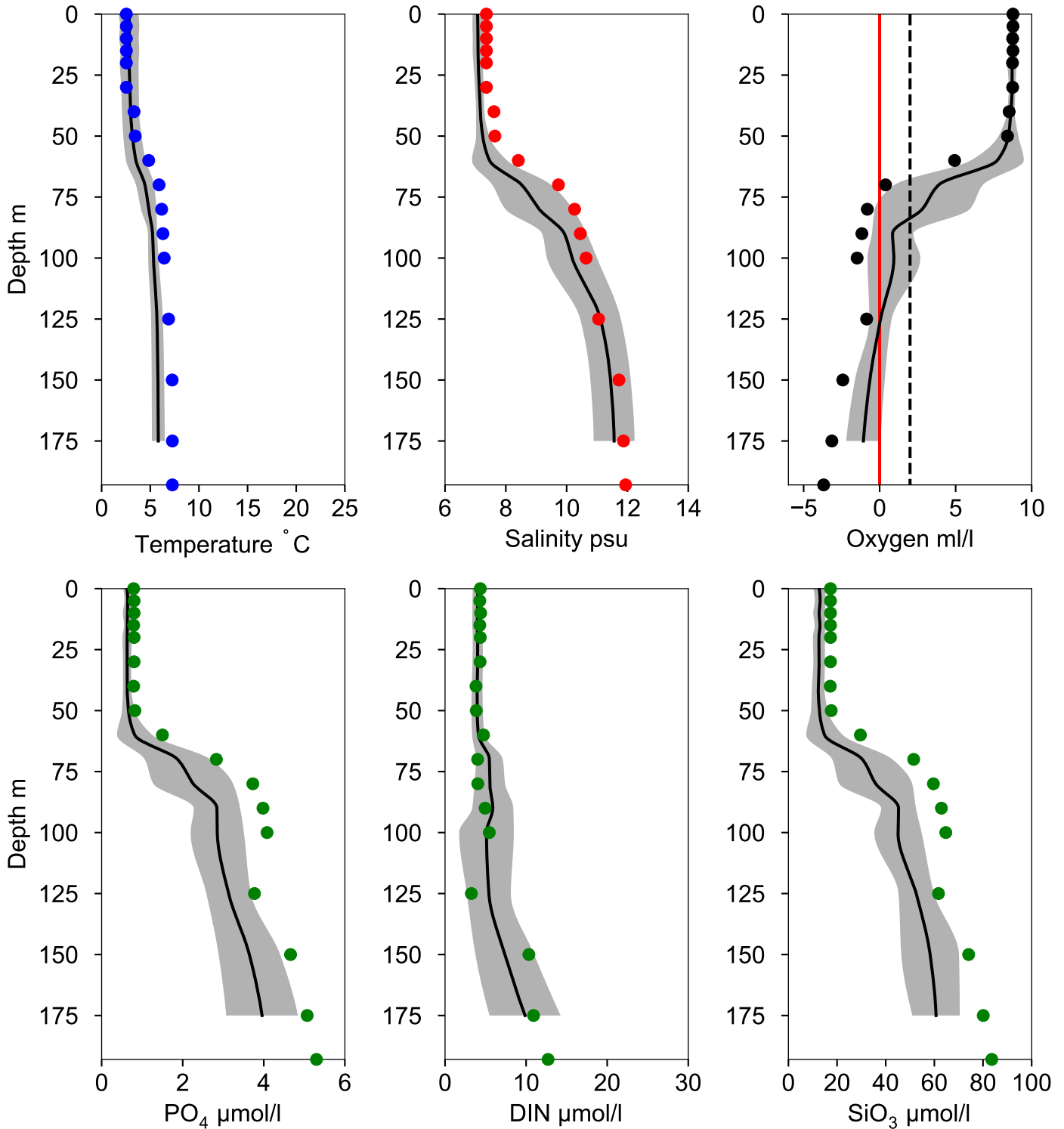


OXYGEN IN BOTTOM WATER (depth >= 175 m)



Vertical profiles BY20 FÅRÖDJ February

— Mean 1991-2020 ■ St.Dev. ● 2024-02-12

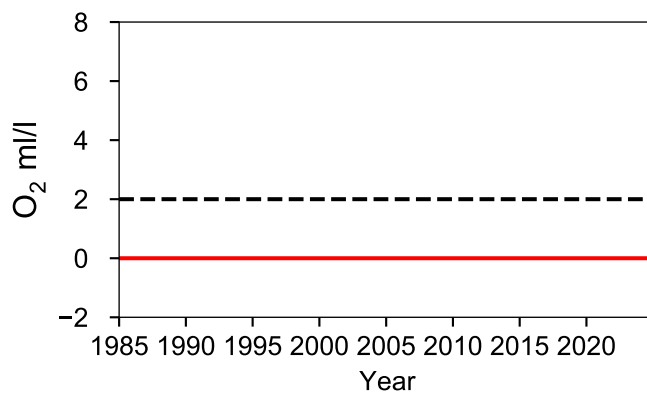
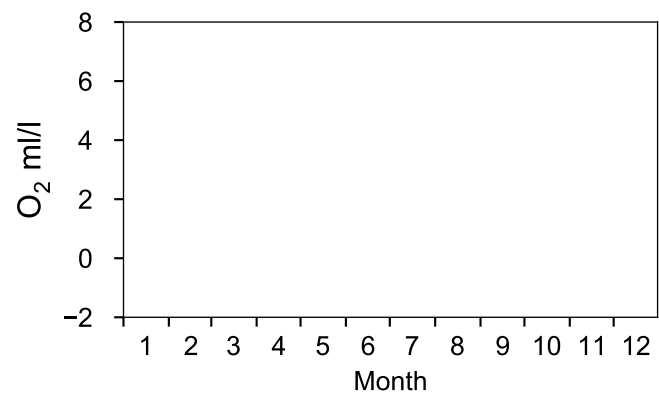
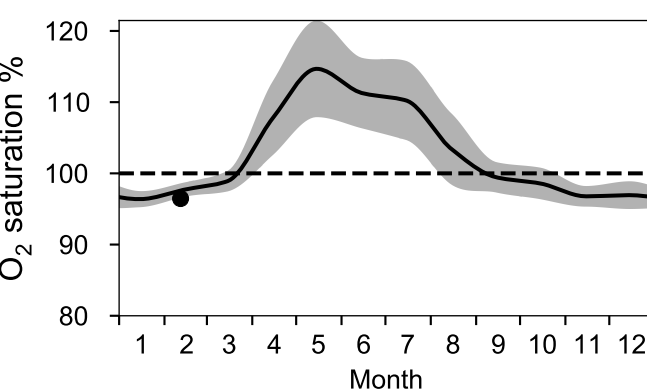
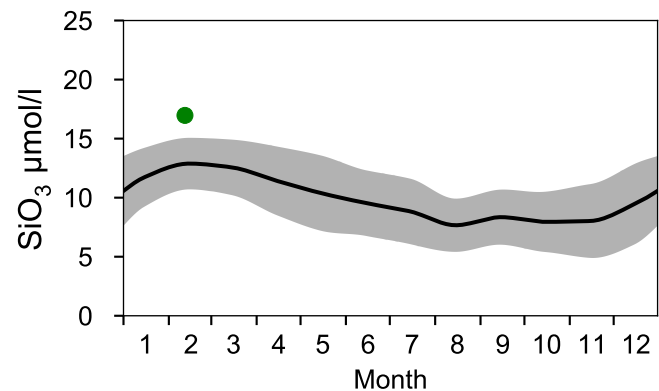
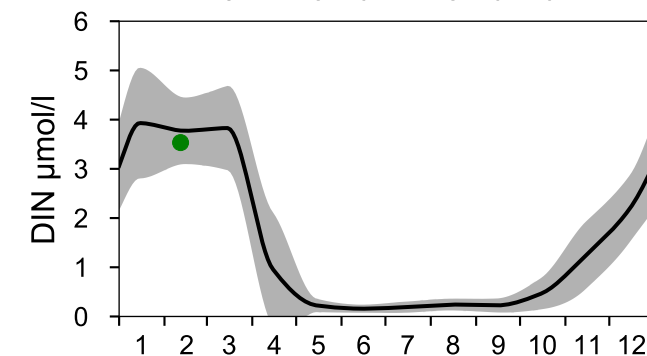
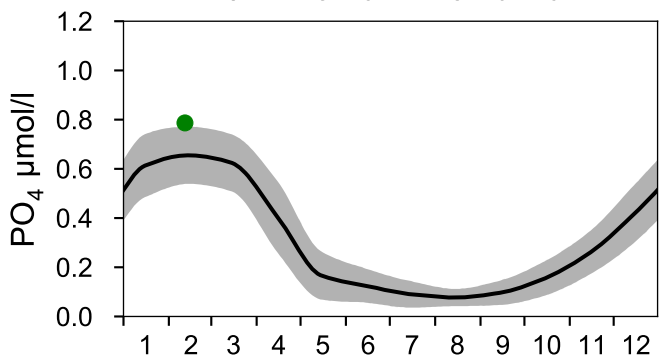
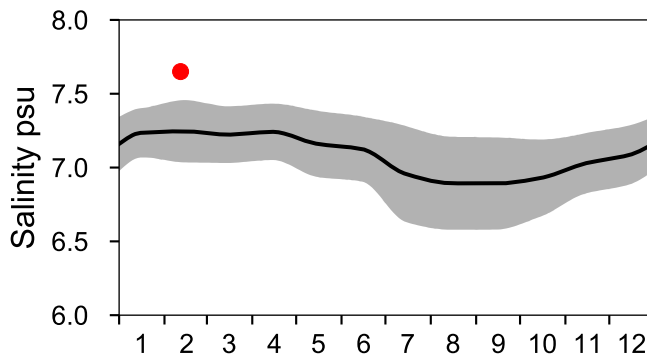
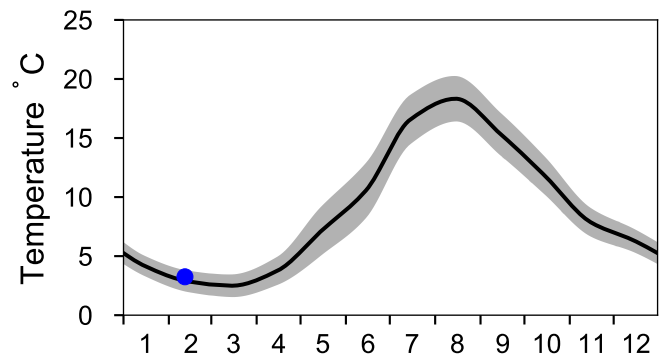


STATION BY21 SURFACE WATER (0-10 m)

Annual Cycles

Statistics based on data from: Östra Gotlandshavet

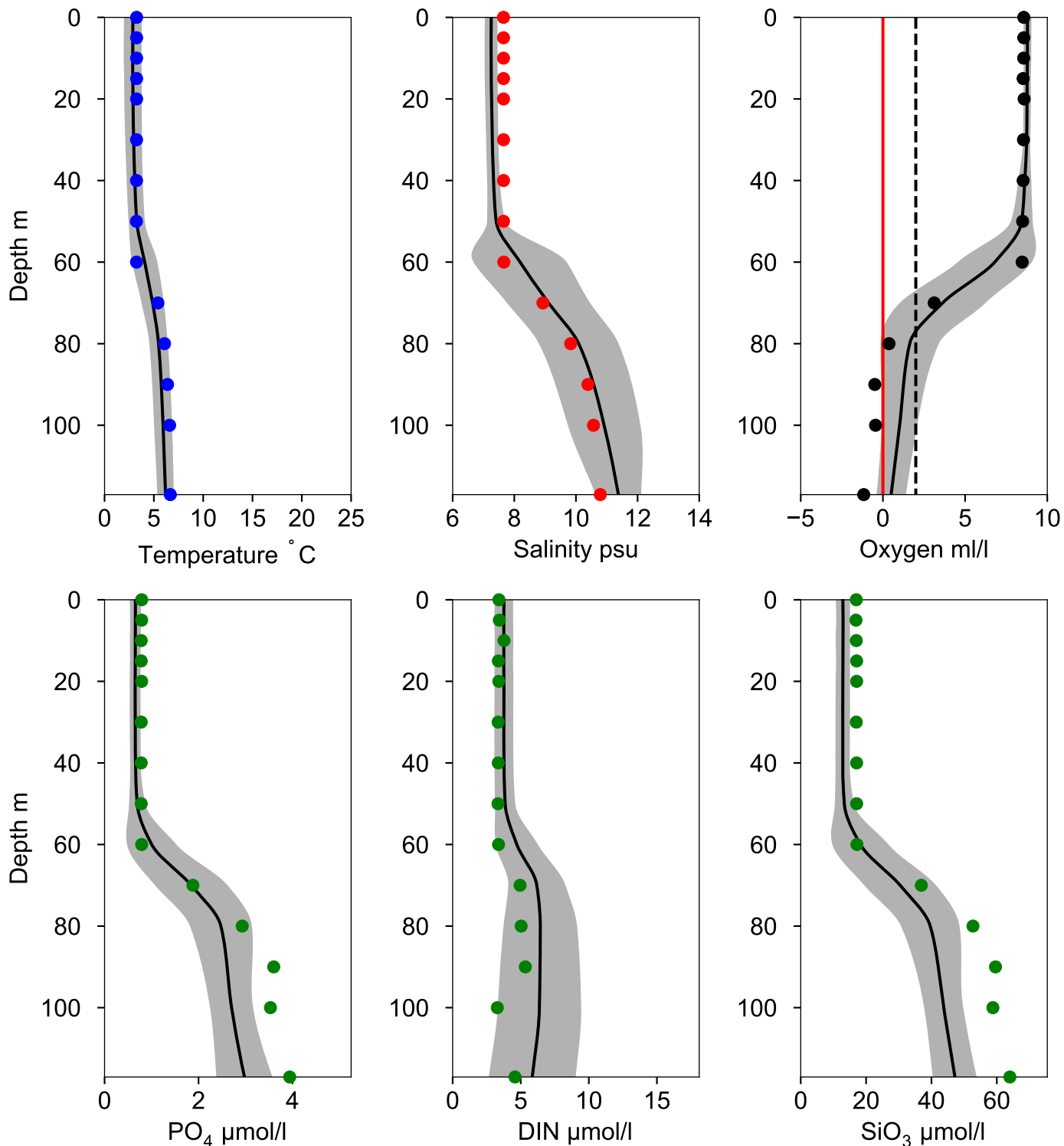
— Mean 1991-2020 St.Dev. ● 2024



Vertical profiles BY21 February

Statistics based on data from: Östra Gotlandshavet

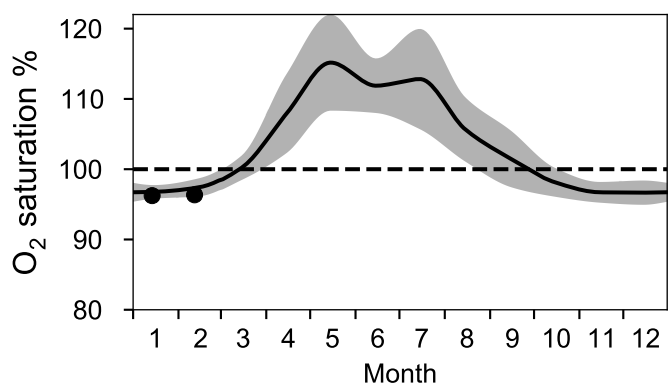
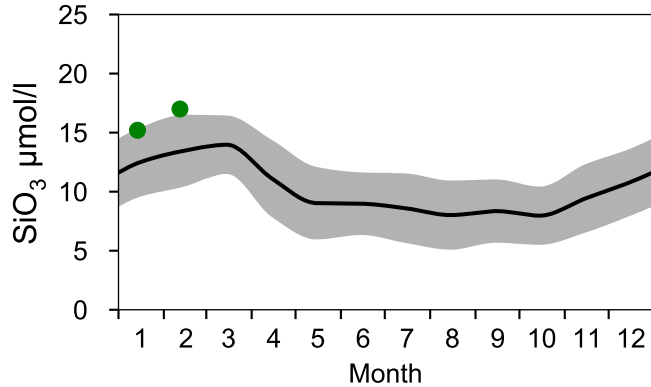
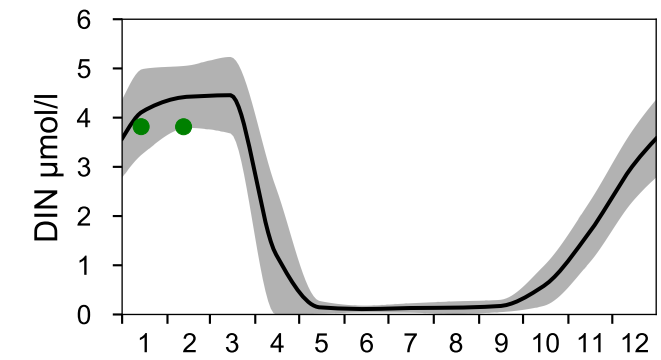
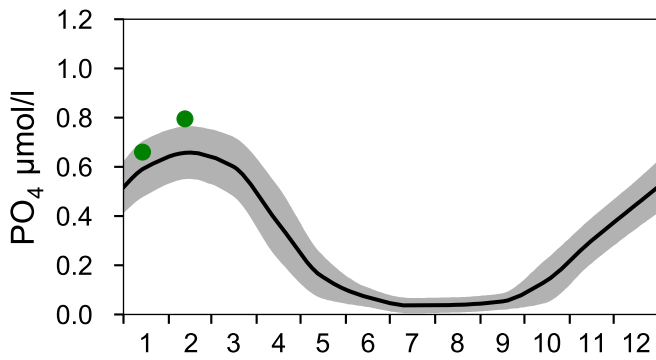
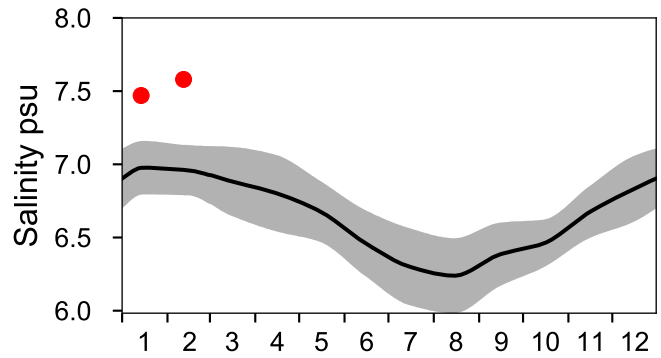
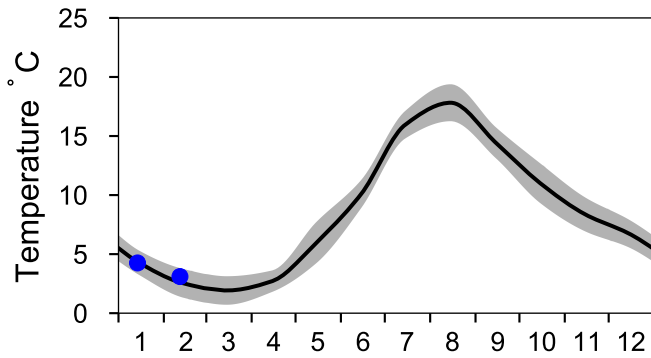
— Mean 1991-2020 ■ St.Dev. ● 2024-02-12



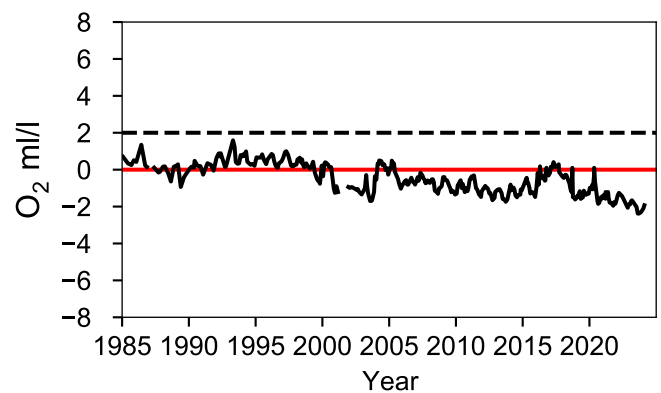
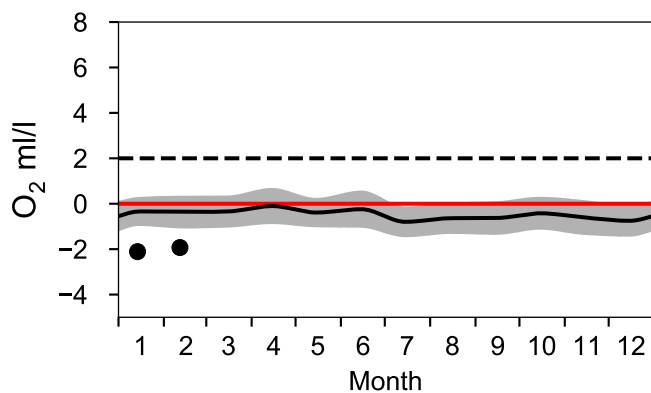
STATION BY29 / LL19 SURFACE WATER (0-10 m)

Annual Cycles

— Mean 1991-2020 St.Dev. ● 2024

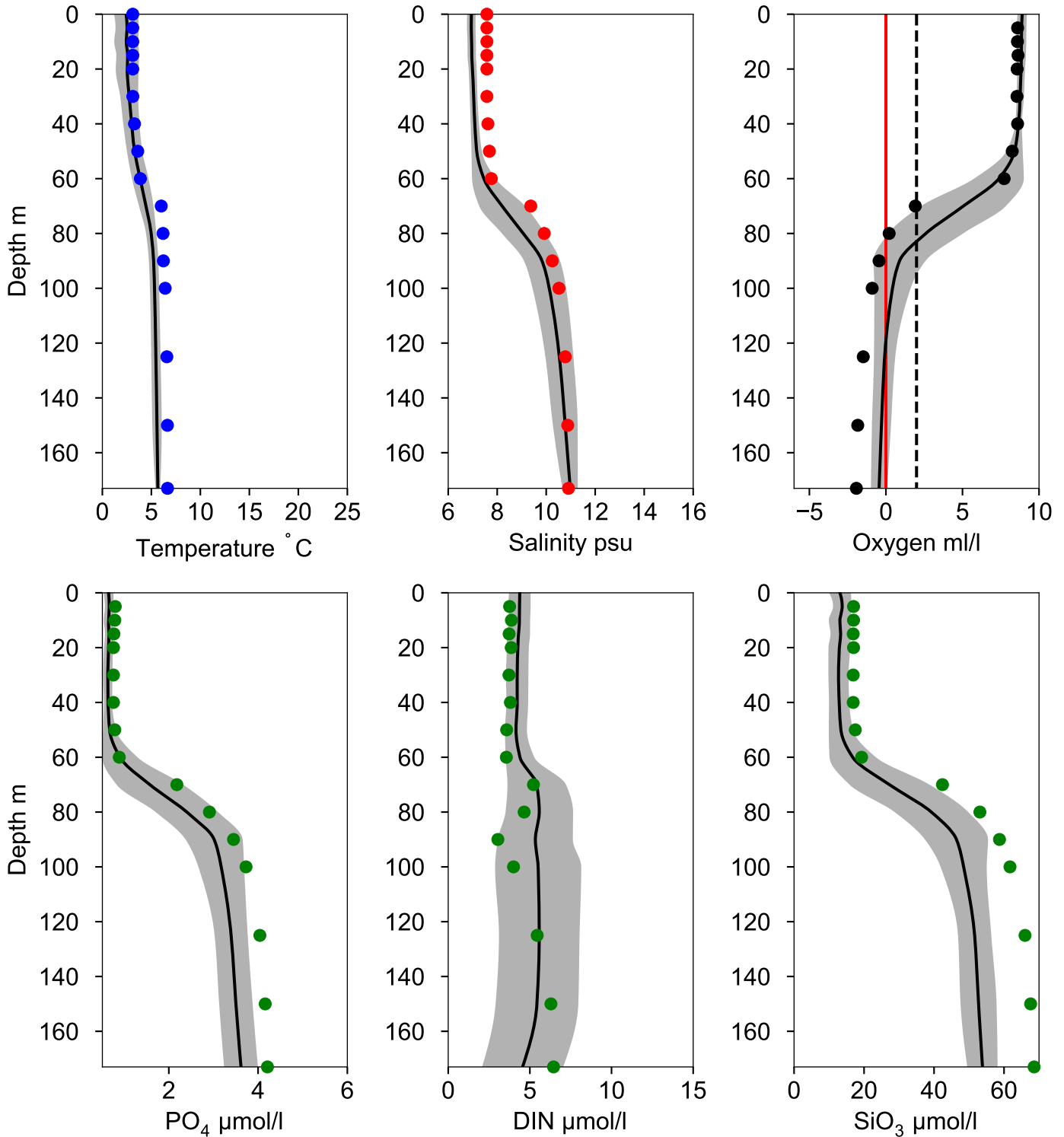


OXYGEN IN BOTTOM WATER (depth >= 150 m)



Vertical profiles BY29 / LL19 February

— Mean 1991-2020 St.Dev. ● 2024-02-12

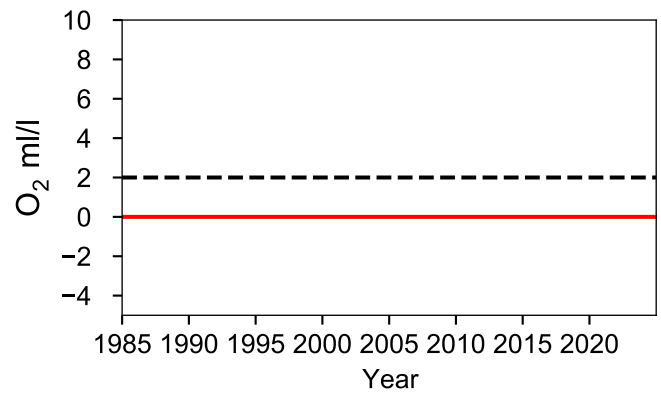
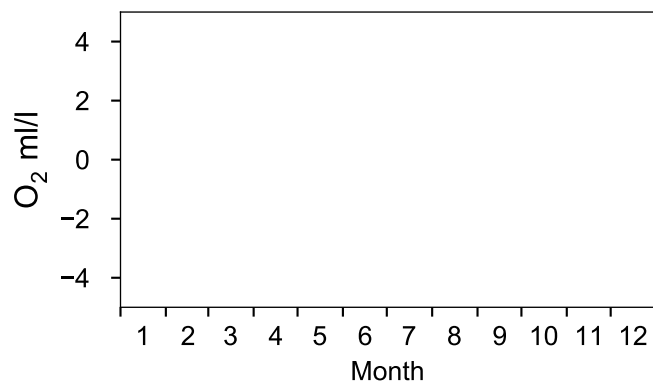
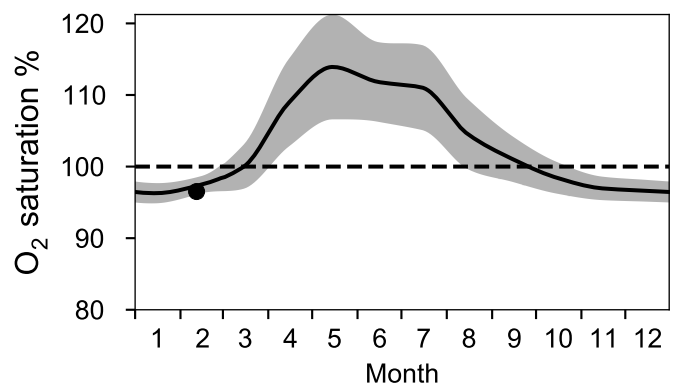
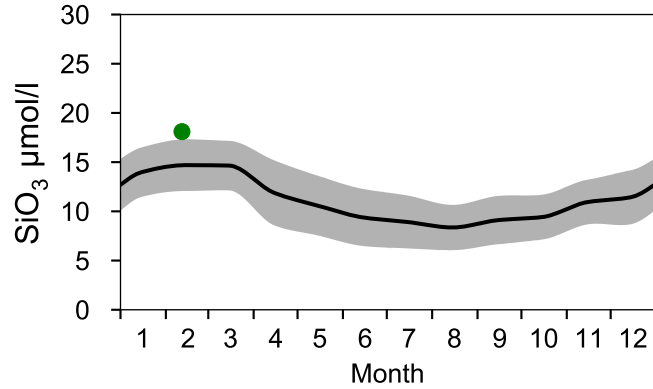
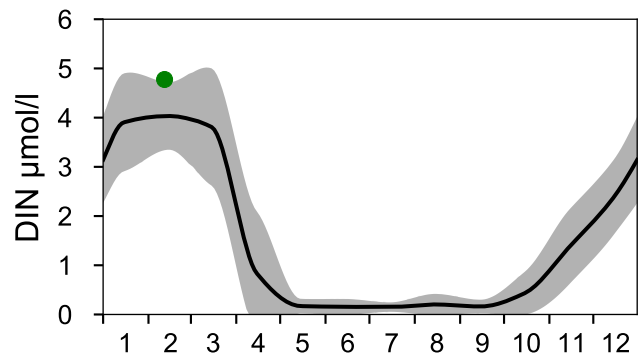
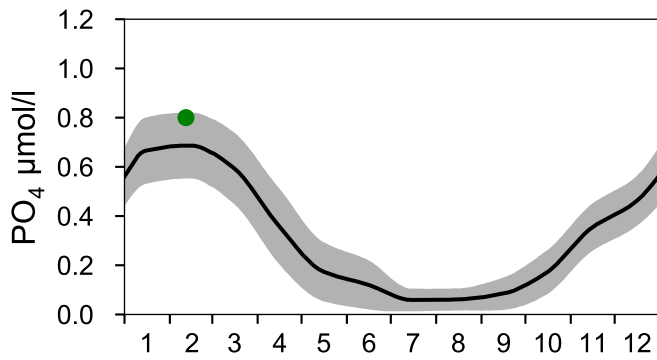
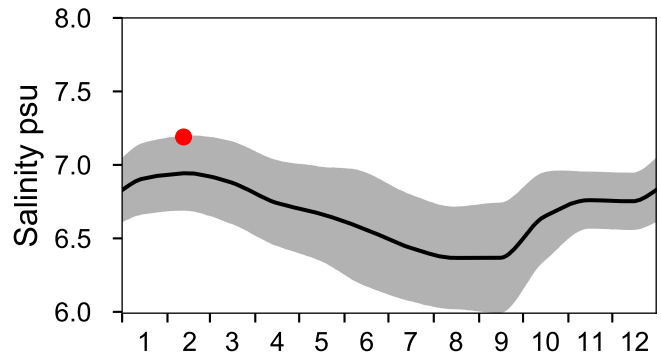
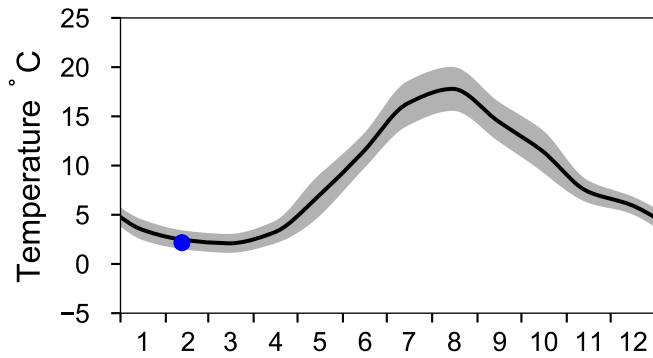


STATION BY30 SURFACE WATER (0-10 m)

Annual Cycles

Statistics based on data from: Västra Gotlandshavet

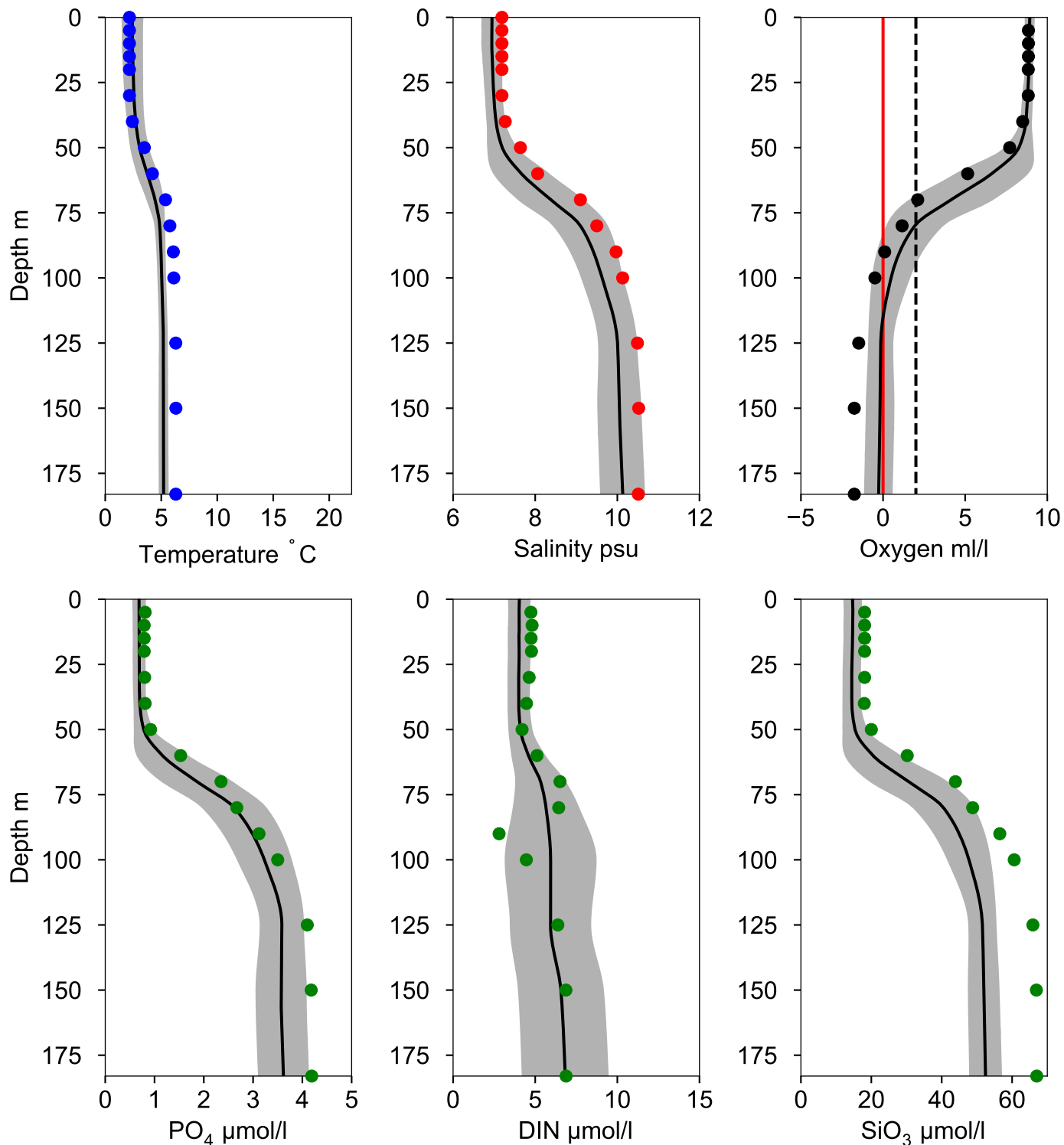
— Mean 1991-2020 St.Dev. ● 2024



Vertical profiles BY30 February

Statistics based on data from: Västra Gotlandshavet

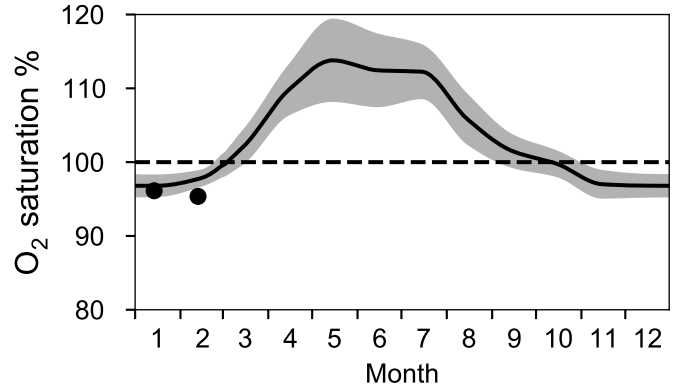
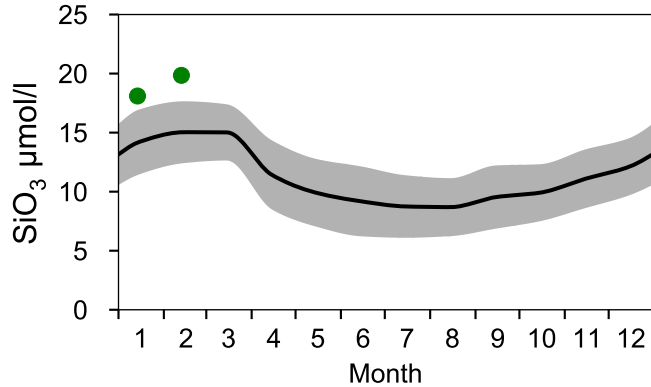
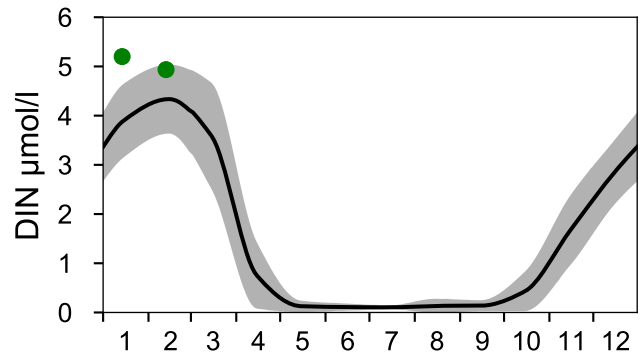
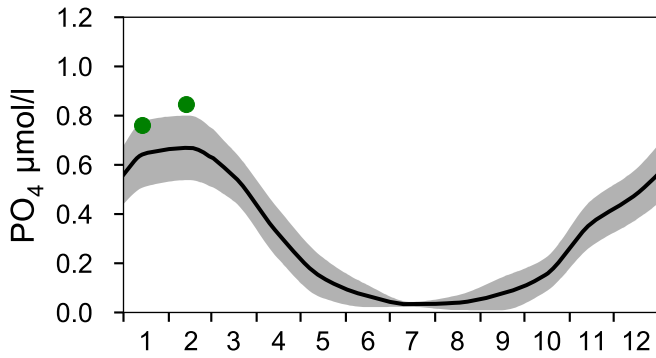
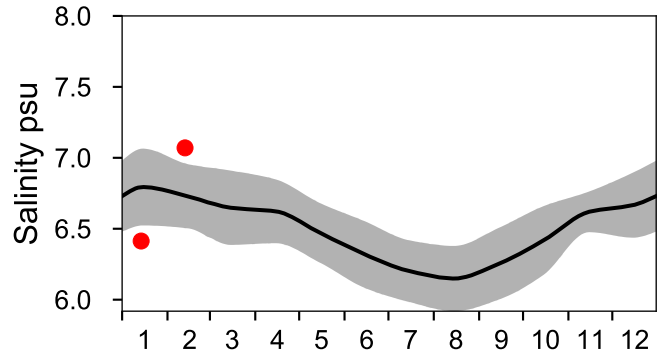
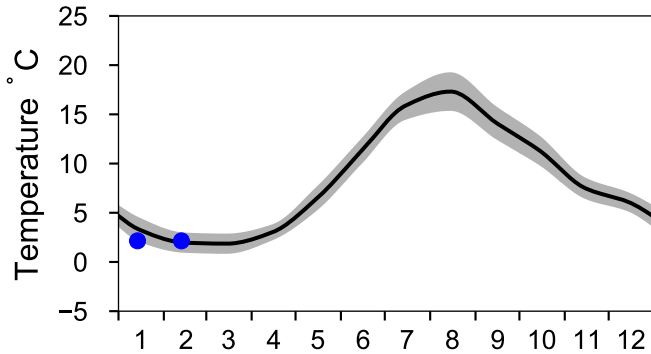
— Mean 1991-2020 St.Dev. ● 2024-02-12



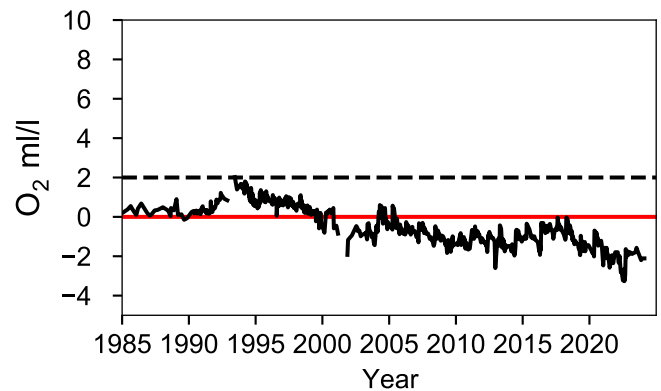
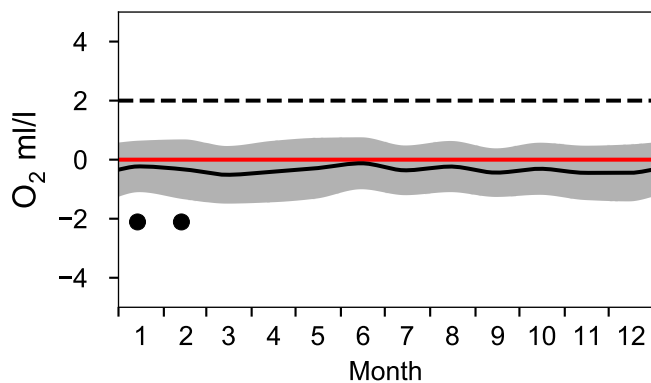
STATION BY31 LANDSORTSDJ SURFACE WATER (0-10 m)

Annual Cycles

— Mean 1991-2020 St.Dev. ● 2024

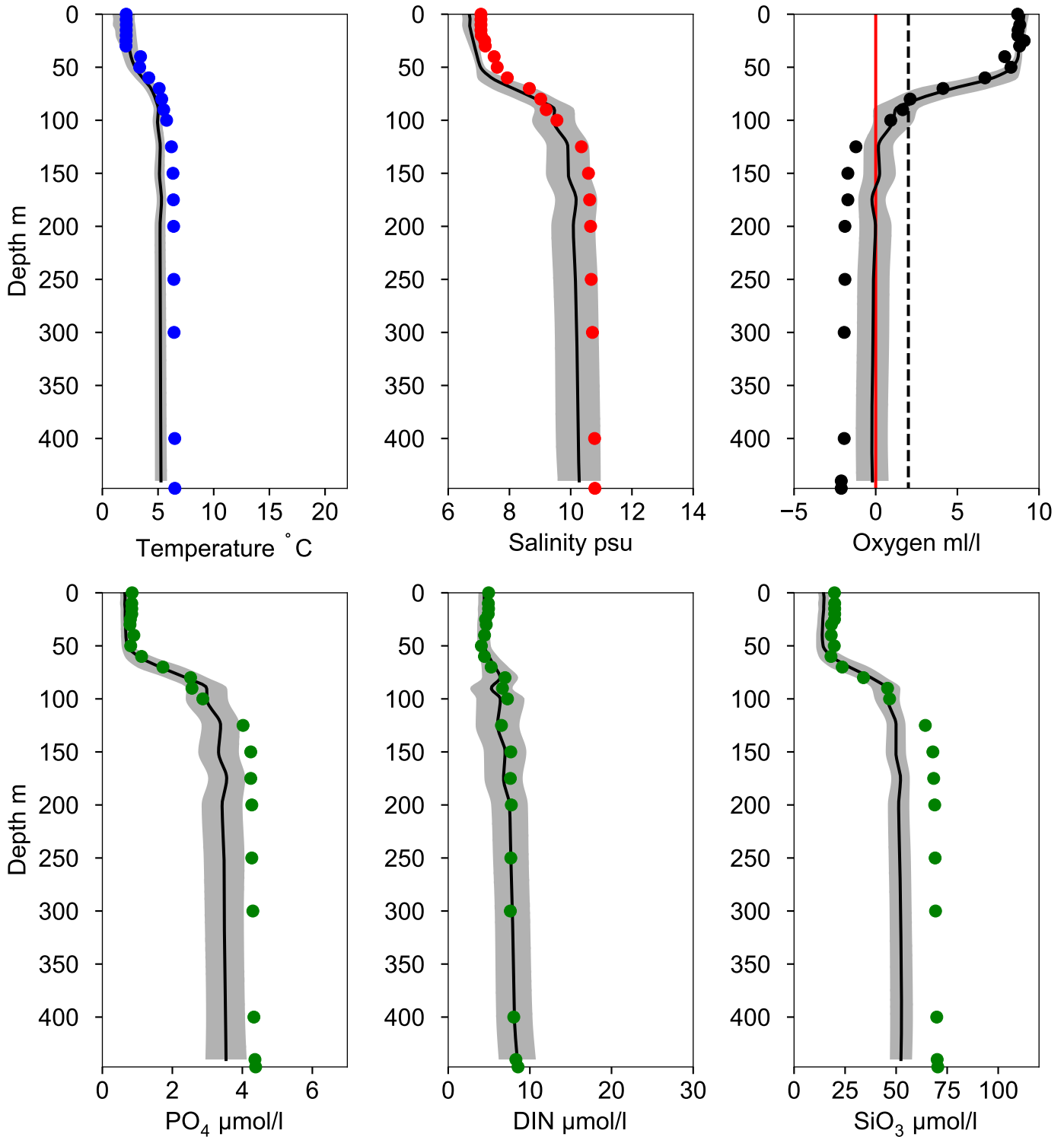


OXYGEN IN BOTTOM WATER (depth >= 419 m)



Vertical profiles BY31 LANDSORTSDJ February

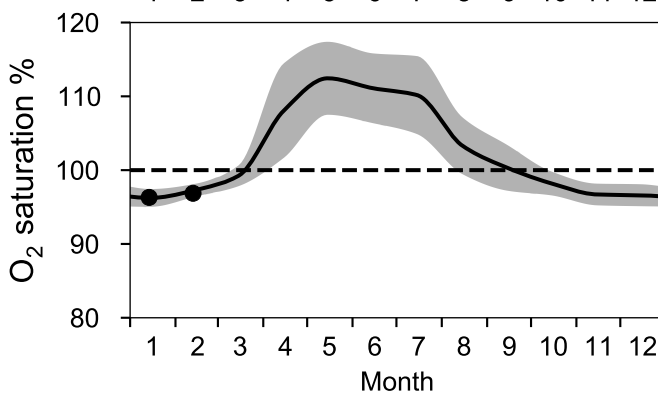
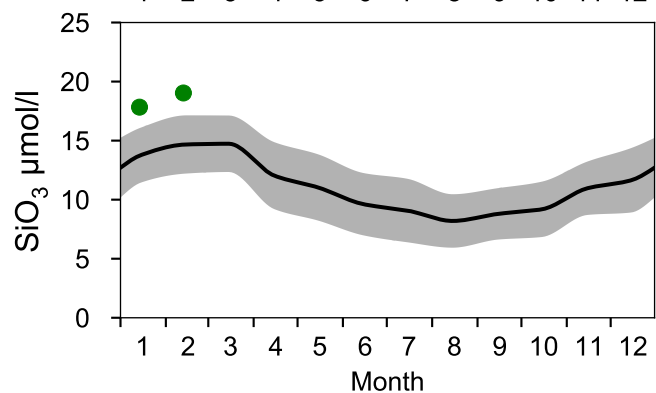
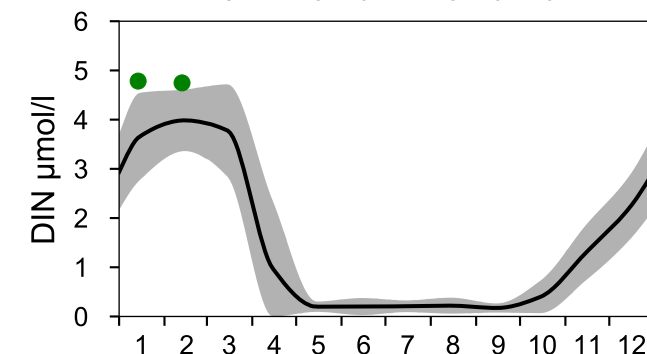
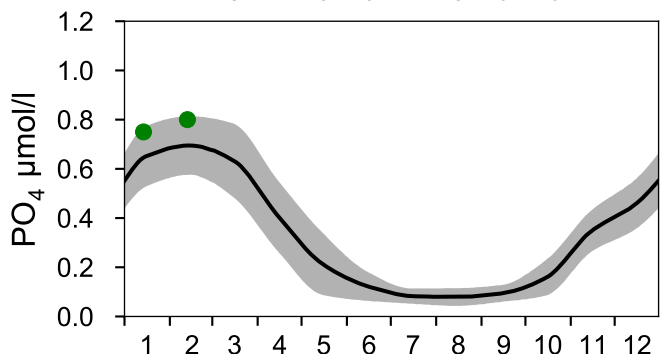
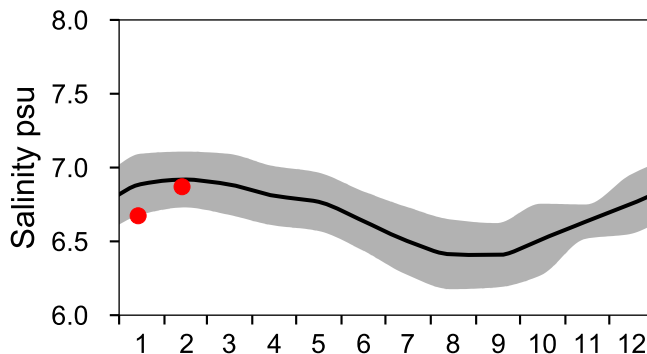
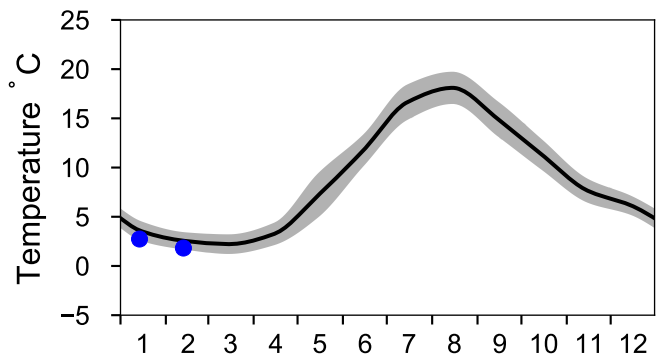
— Mean 1991-2020 St.Dev. ● 2024-02-13



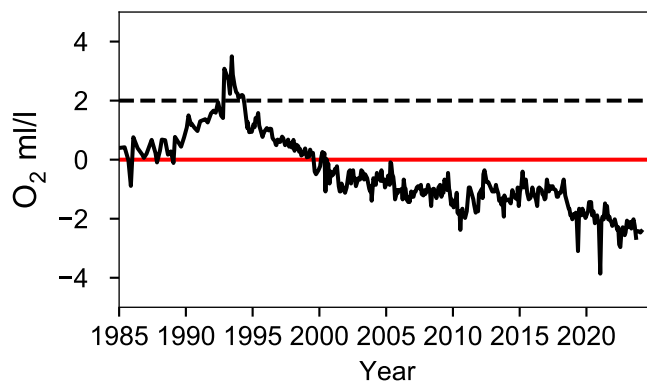
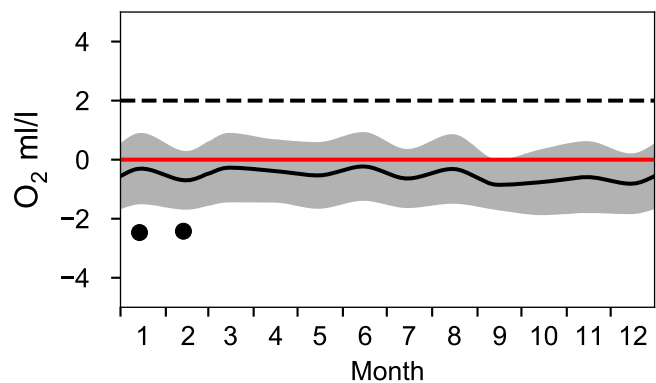
STATION BY32 NORRKÖPINGSDJ SURFACE WATER (0-10 m)

Annual Cycles

— Mean 1991-2020 St.Dev. ● 2024

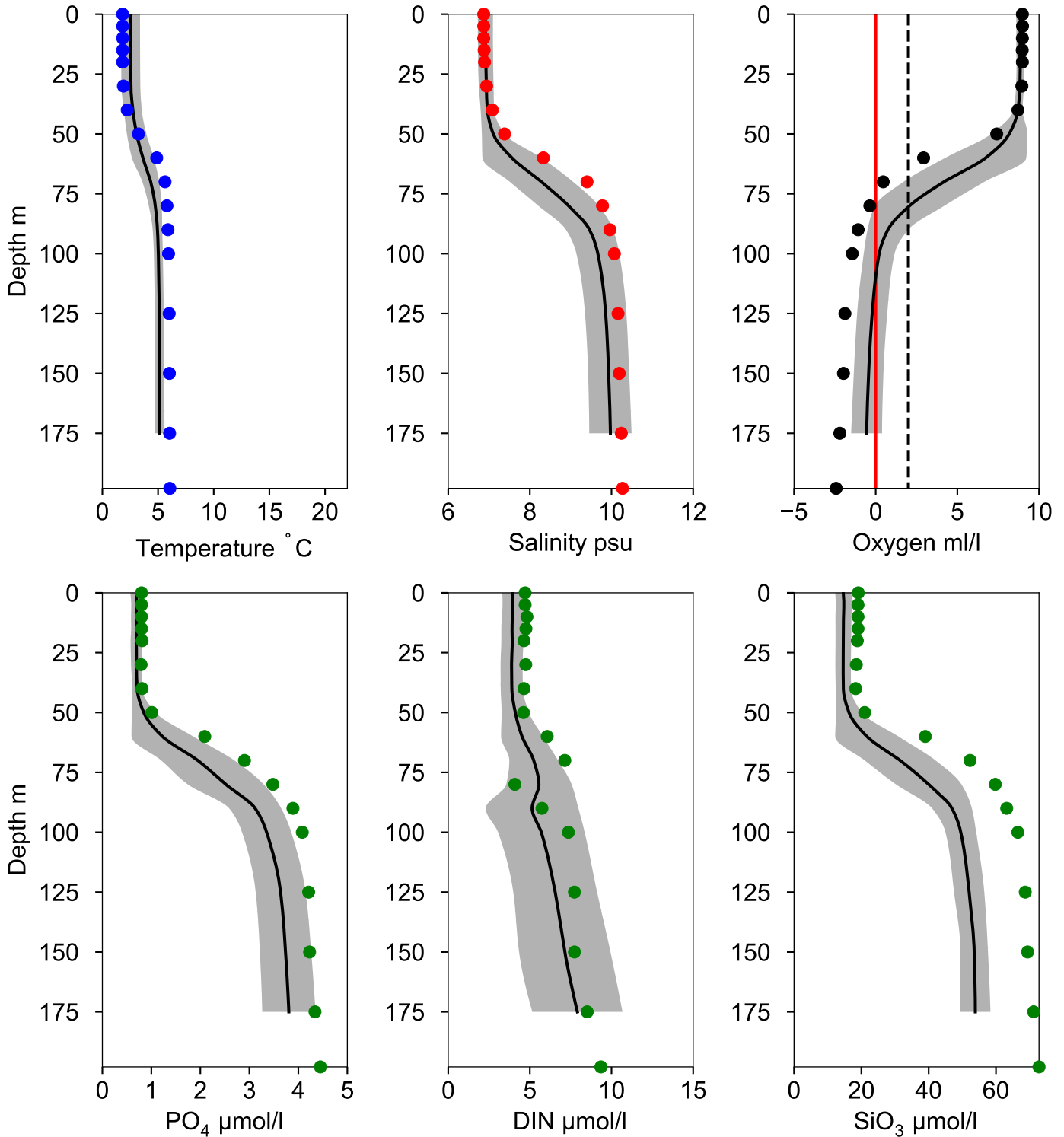


OXYGEN IN BOTTOM WATER (depth >= 175 m)



Vertical profiles BY32 NORRKÖPINGSDJ February

— Mean 1991-2020 ■ St.Dev. ● 2024-02-13

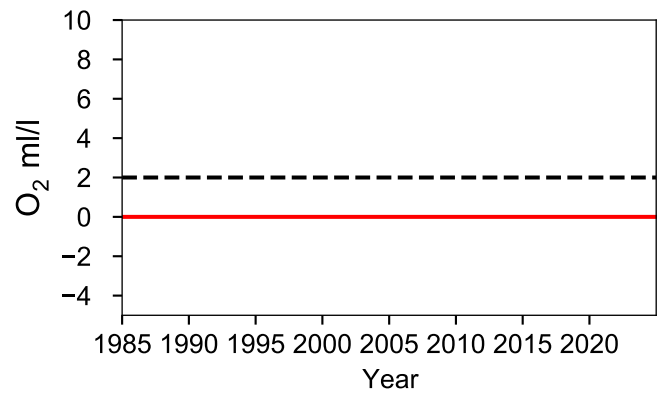
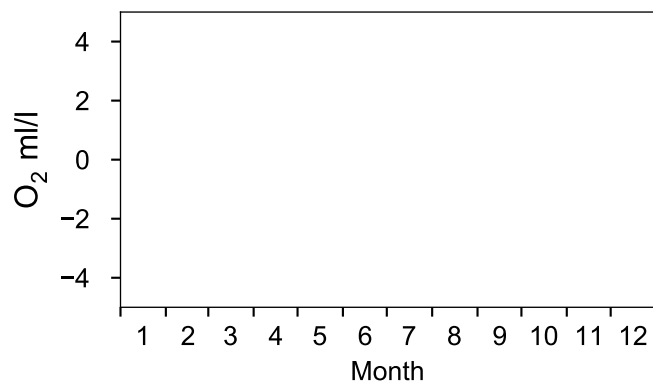
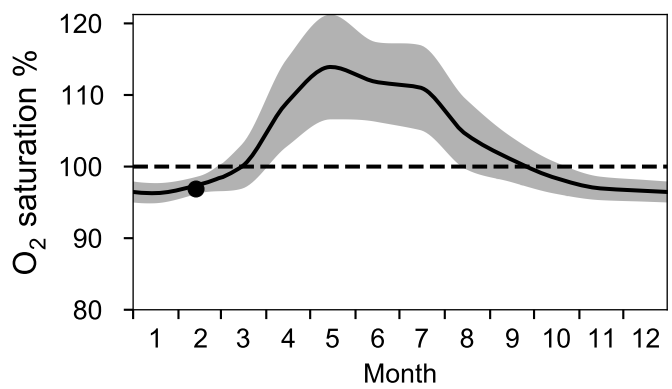
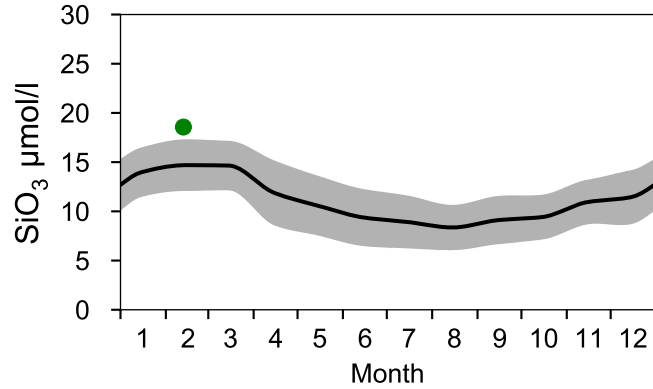
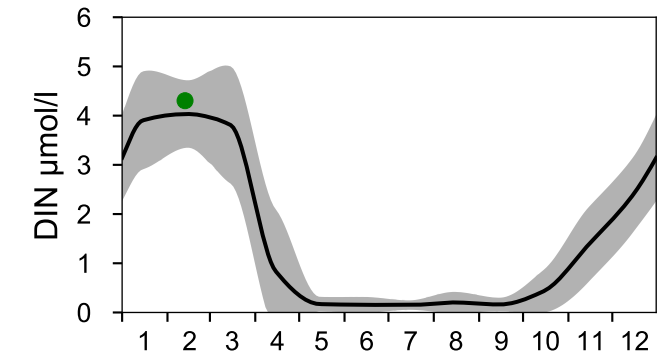
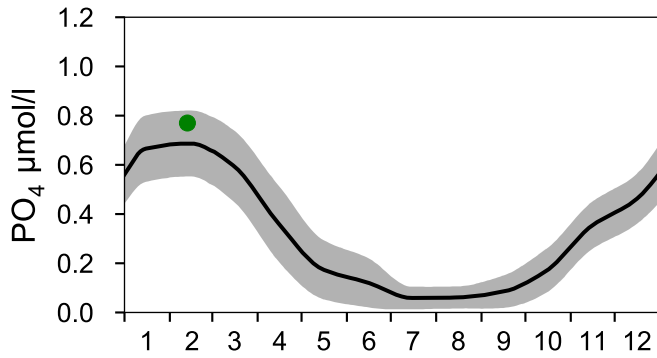
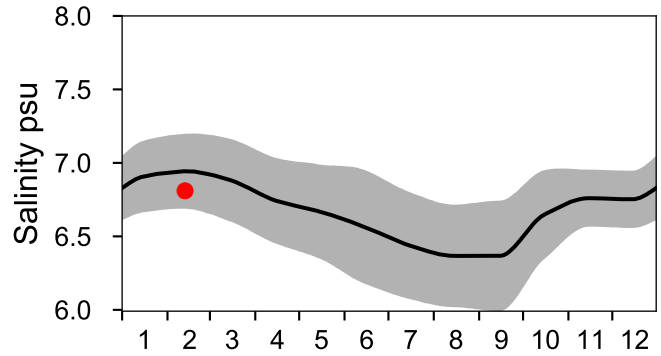
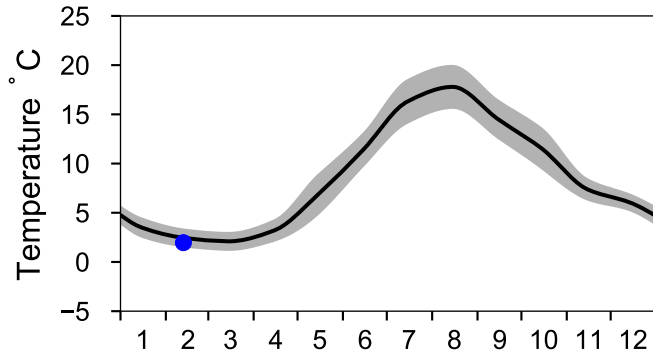


STATION BY36 SURFACE WATER (0-10 m)

Annual Cycles

Statistics based on data from: Västra Gotlandshavet

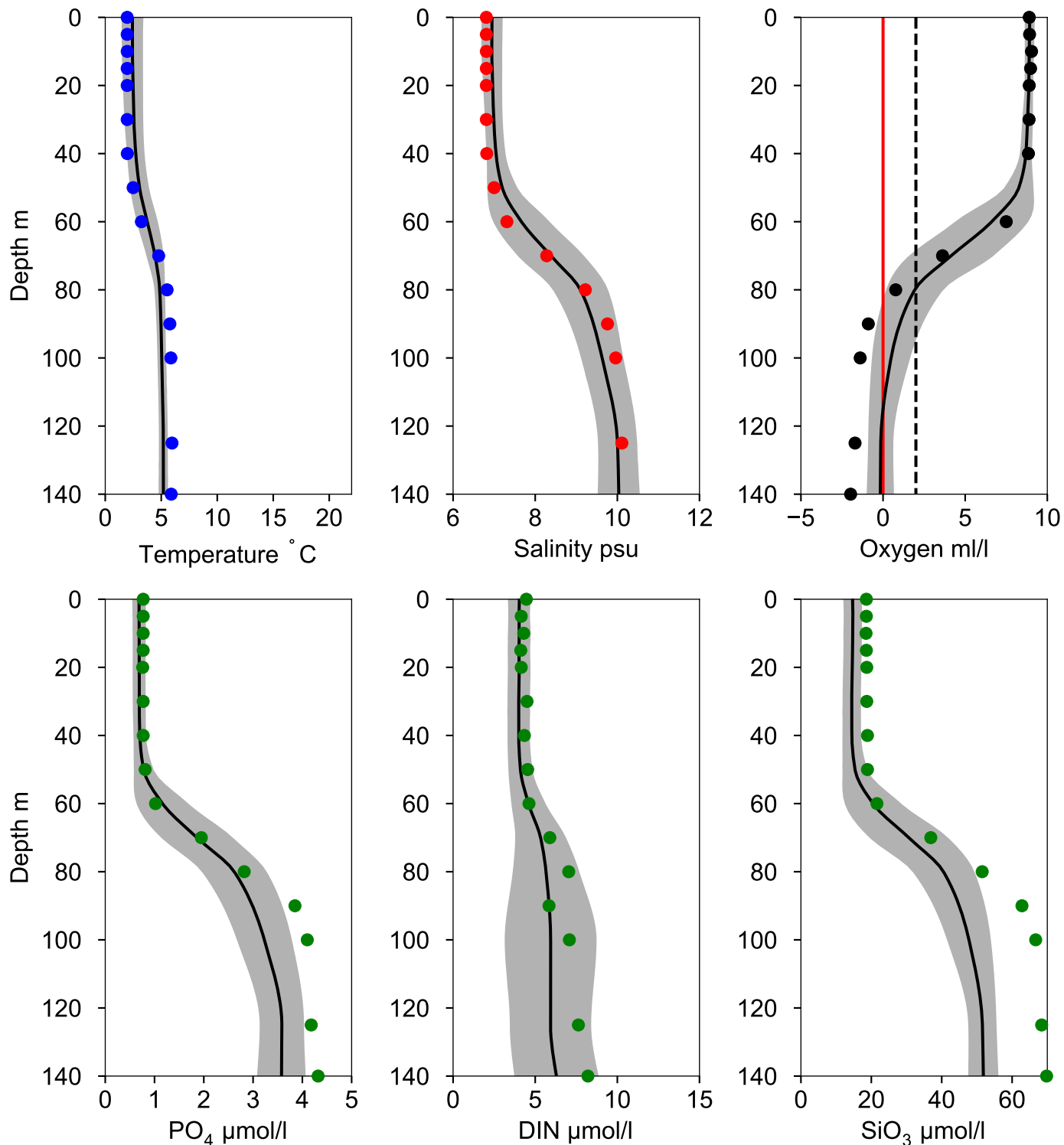
— Mean 1991-2020 St.Dev. ● 2024



Vertical profiles BY36 February

Statistics based on data from: Västra Gotlandshavet

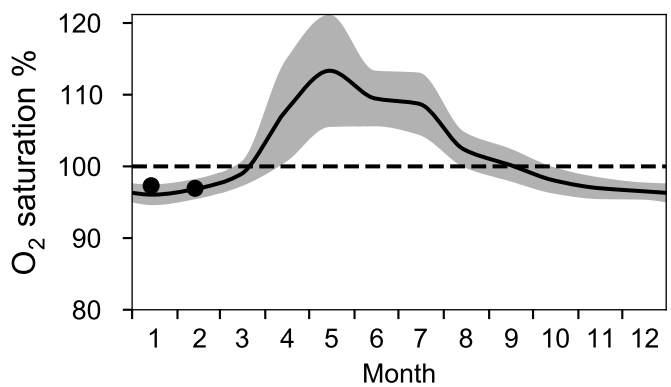
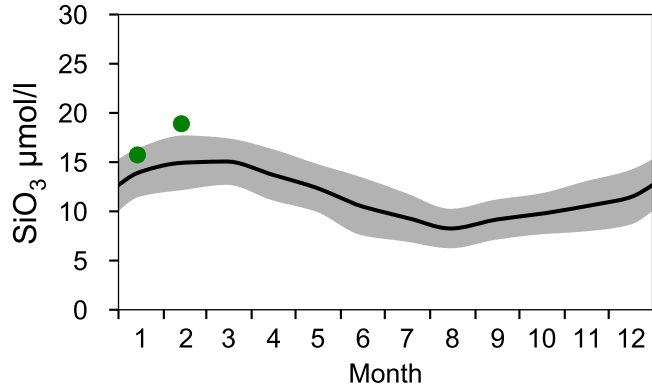
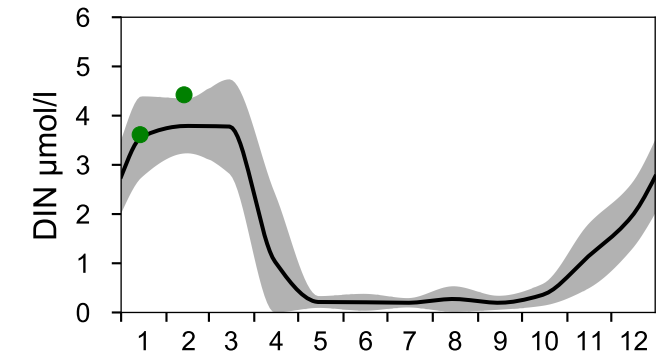
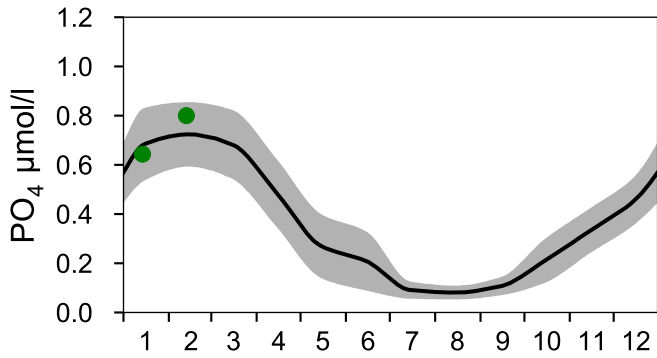
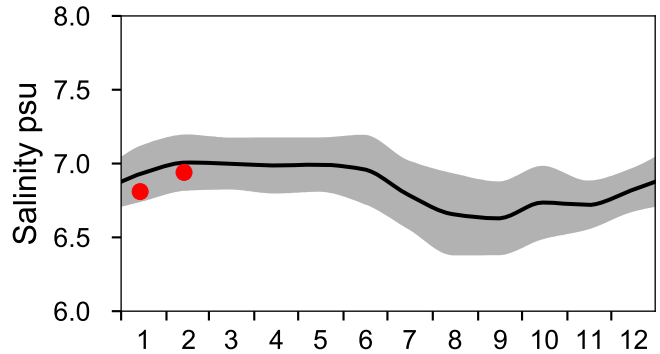
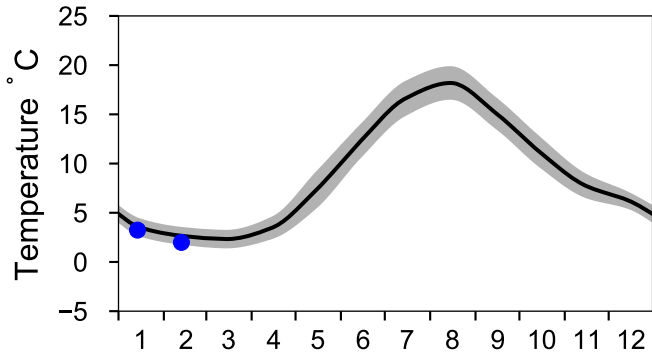
— Mean 1991-2020 St.Dev. ● 2024-02-13



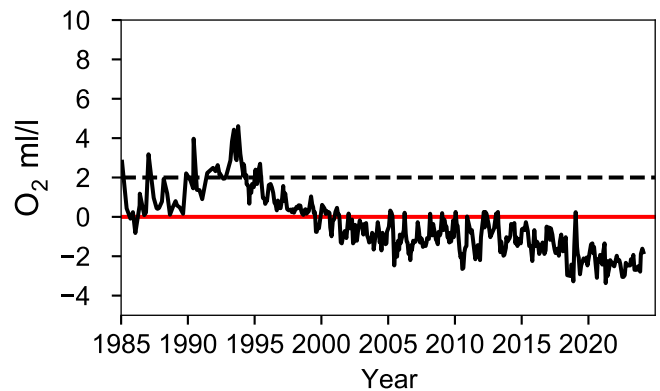
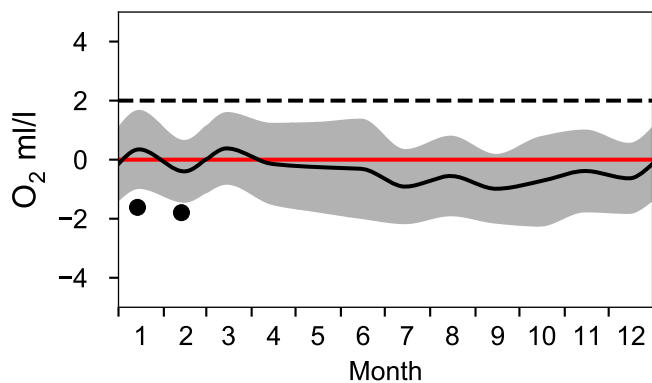
STATION BY38 KARLSÖDJ SURFACE WATER (0-10 m)

Annual Cycles

— Mean 1991-2020 St.Dev. ● 2024



OXYGEN IN BOTTOM WATER (depth >= 100 m)



Vertical profiles BY38 KARLSÖDJ February

— Mean 1991-2020 ■ St.Dev. ● 2024-02-13

