

Report of SMHI's marine monitoring cruise with R/V Svea



Microscope image of the cyanobacteria *Aphanizomenon flos-aquae*. Photo: Ann-Turi Skjevik, SMHI.

Survey period:	2026-06-12 till 2026-06-17
Principals:	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

This expedition, conducted within the Swedish pelagic monitoring programme, covered the Skagerrak, the Kattegat, the Sound and the Baltic Proper.

Sea surface temperatures were close to the seasonal norm in the Skagerrak, the Kattegat and the Sound, and above the norm in the Baltic proper, ranging between 13.2 and 16.2°C, with the highest temperatures recorded in the Kattegat. The sea surface salinity was within the seasonal norm in the Skagerrak, the Kattegat and the Sound, and above the norm in the Baltic Proper.

Concentrations of dissolved inorganic nitrogen (DIN) and phosphate in surface waters were low, which is typical for this time of year. Surface-water silicate concentrations were low in Skagerrak, which is normal for the season, and slightly above the seasonal norm at a majority of the stations in the Baltic Proper.

Oxygen conditions in the Baltic Proper remain poor. Good oxygen conditions were only observed in the southern areas, including the Arkona Basin, the Bornholm Basin and at station BY39. Acute oxygen deficiency, defined as oxygen concentrations below 2 ml/l, was observed from depths of 60–80 m in both the Western and Eastern Gotland Basins, except at the shallow station BY39. Hydrogen sulphide was detected from 70–80 m depth in the Western Gotland Basin and from 80–145 m depth in the Eastern Gotland Basin.

Several stations in the Baltic Proper exhibited pronounced chlorophyll fluorescence maxima between 15–20 m depth. In the Kattegat, elevated fluorescence peaks were observed between 20 and 30 m depth. Surface accumulations of cyanobacteria were observed east of Gotland. Further information on the phytoplankton situation is available in the June Algal report.

<https://www.smhi.se/publikationer/publikationer/algrapporter>

The next regular monitoring cruise is scheduled to commence in Lysekil on 10 July and conclude in Lysekil on 16 July.

RESULTS

The expedition was carried out aboard R/V *Svea* between 12 and 17 June, sailing from Lysekil to Kalmar. During the first part of the survey, fresh winds prevailed in the Skagerrak, parts of the Kattegat, the Sound and the southern Baltic Sea, while conditions became calmer during the second half. Weather conditions were variable, with periods of sunshine, cloud cover and rain. Air temperatures remained around 15°C throughout most of the study area.

Svea's FerryBox system, which continuously measures surface-water properties, was operational throughout the expedition. Between stations Å13 and Å17 in the Skagerrak, the vessel's Moving Vessel Profiler (MVP) was deployed, providing underway profiles of temperature, salinity, oxygen and chlorophyll fluorescence.

This report is based on data that have undergone an initial quality-control procedure. Some values may be revised following further quality assessment. Data from the expedition will be published as soon as possible through SMHI's data portal, normally within one to two weeks after completion of the survey. Some analyses are conducted after the expedition and will therefore be published at a later date. Data can be downloaded from the SHARKweb database: <https://sharkweb.smhi.se/hamta-data/>

Skagerrak

Sea surface temperatures ranged from 13.9 to 15.0°C, which is within the seasonal norm. Surface salinity varied between 30–32 PSU, with the lowest values recorded in the southern part of the area and the highest in the north, which is also normal for the season. At the coastal station Släggö, salinity was slightly elevated at approximately 26.4 PSU.

The halocline largely coincided with the thermocline and was clearly visible at most stations between 10–15 m depth. At the coastal station P2, the halocline was weak at around 15 m, while a distinct thermocline was observed at approximately 60 m. At Släggö, two thermoclines could be distinguished at around 10 and 35 m depth.

Surface concentrations of dissolved inorganic nitrogen (DIN) were below the detection limit (0.1 µmol/l) at all stations and were therefore within the seasonal norm. Phosphate concentrations ranged from 0.02–0.07 µmol/l, which is typical for this time of year. Surface-water silicate concentrations were also within the seasonal norm, ranging from 0.1–0.2 µmol/l, although slightly elevated values were observed at station P2.

The lowest bottom-water oxygen concentration was measured at Släggö, where it reached 4.1 ml/l, which is normal for the season. At the offshore stations, deep-water oxygen concentrations ranged between 5.6–6.5 ml/l, which is considered normal.

CTD measurements of chlorophyll fluorescence indicated phytoplankton activity between 20 and 60 m depth throughout the area, with a pronounced fluorescence maximum around 30 m at the westernmost stations.

Kattegat and the Sound

Sea surface temperatures were around 16°C throughout the area, which is within or above the seasonal norm. Surface salinity in the Kattegat ranged from 17–23 PSU, which is within the seasonal norm. In The Sound, surface salinity was 15 PSU, slightly above normal. In the Kattegat, both the thermocline and halocline were located at approximately 15 m depth, whereas in the Sound they occurred at around 10 m.

Nutrient concentrations in surface waters were generally within the normal range. DIN concentrations were below the detection limit (<0.1 µmol/l), while phosphate concentrations ranged from 0.05–0.20 µmol/l. Silicate concentrations varied between 2.9–6.3 µmol/l, corresponding to normal or slightly elevated levels.

Oxygen concentrations in bottom waters were within the normal range, measuring approximately 5.5–6.0 ml/l in the Kattegat and 4.3 ml/l in the Sound.

A chlorophyll fluorescence maximum was observed at around 15 m depth in the Sound. In the Kattegat, elevated phytoplankton activity was observed between approximately 20 and 30 m depth.

Baltic Proper

Sea surface temperatures were slightly above the seasonal norm throughout the Baltic Proper, ranging from 13.2–14.9°C. Surface salinity ranged between 6.5–8.0 PSU and was generally normal to slightly above normal throughout the investigated area. The thermocline was located between 15 and 20 m depth throughout most of the Baltic Proper, except at station BY39 south of Öland, where it occurred at approximately 10 m. The halocline was situated at around 60–70 m depth in the entire area.

Surface concentrations of dissolved inorganic nitrogen (DIN) were below the detection limit ($<0.10 \mu\text{mol/l}$) at all stations, which is normal for the season. Phosphate concentrations were above the norm at station BY39 south of Öland ($0.41 \mu\text{mol/l}$), but within the seasonal norm at the other stations where the values ranged from 0.07 – $0.24 \mu\text{mol/l}$, with the highest values observed in the southern areas around the Arkona and Bornholm Basins.

Surface-water silicate concentrations were above the seasonal norm at a majority of the stations, ranging between 13.0 – $17.3 \mu\text{mol/l}$.

Oxygen conditions in the Baltic Proper remain very poor, with hydrogen sulphide present in bottom waters from station BY10 and northwards. Conditions were somewhat better in the Arkona and Bornholm Basins, where oxygen concentrations ranged from 2.6 – 3.4 ml/l . At the Polish station BCS III-10, the bottom-water oxygen concentration was approximately 0.4 ml/l .

Acute oxygen deficiency, defined as oxygen concentrations below 2 ml/l , was observed from depths of 60 – 80 m in both the Western and Eastern Gotland Basins, except at the shallow station BY39. Hydrogen sulphide was detected from 70 – 80 m depth in the Western Gotland Basin and from 80 – 145 m depth in the Eastern Gotland Basin.

Several stations exhibited pronounced chlorophyll fluorescence maxima between 15 and 20 m depth. Surface accumulations of cyanobacteria were observed in the Eastern Gotland Basin. The ship's automatic phytoplankton-analysis system (IFCB) detected cyanobacteria in the entire Baltic Proper, from the Sound and onwards. Further information on the phytoplankton situation is available in the June Algaware report.

<https://www.smhi.se/publikationer/publikationer/algrapporter>.

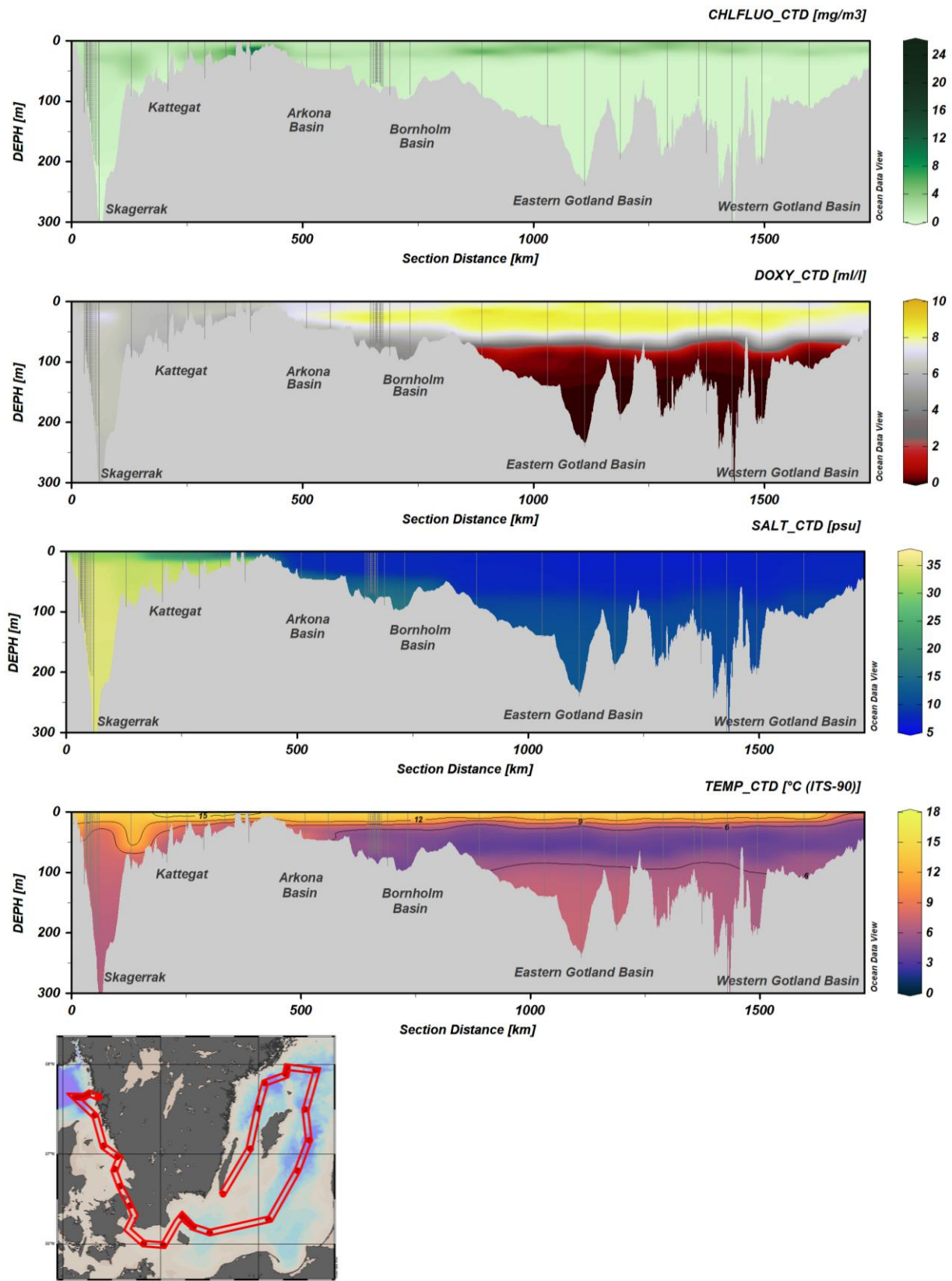


Figure 1. Transects ranging from the Skagerrak, through the Kattegat and The Sounds, further into the Baltic Proper, ending in the Western Gotland Basin shows the chlorophyll fluorescence, oxygen, salinity and temperature. Grey vertical lines indicate the positions where data is collected, also shown in the map as red dots.

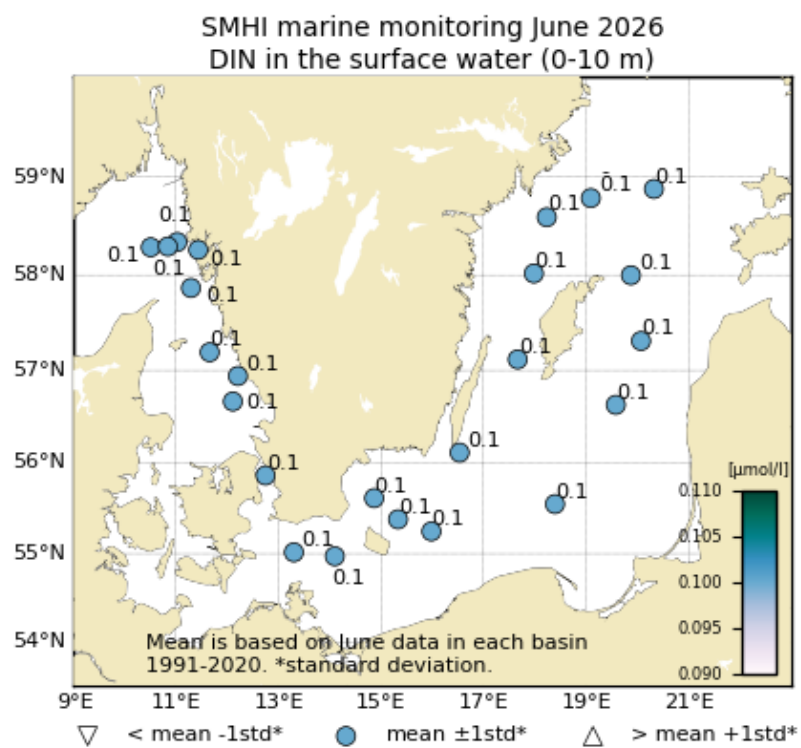


Figure 2. Concentration of dissolved inorganic nitrogen in the surface water (0–10 m).

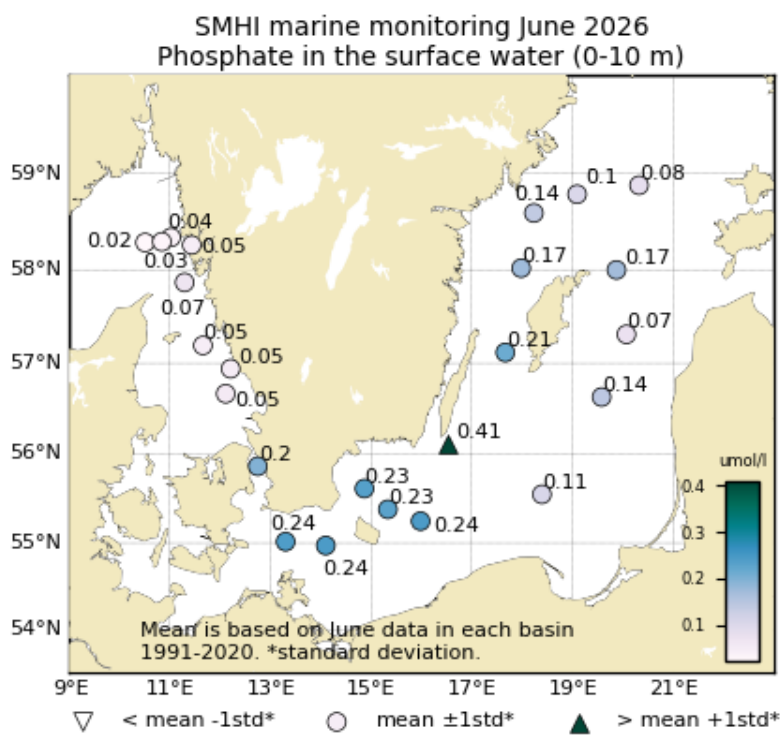


Figure 3. Concentration of phosphate in the surface water (0–10 m).

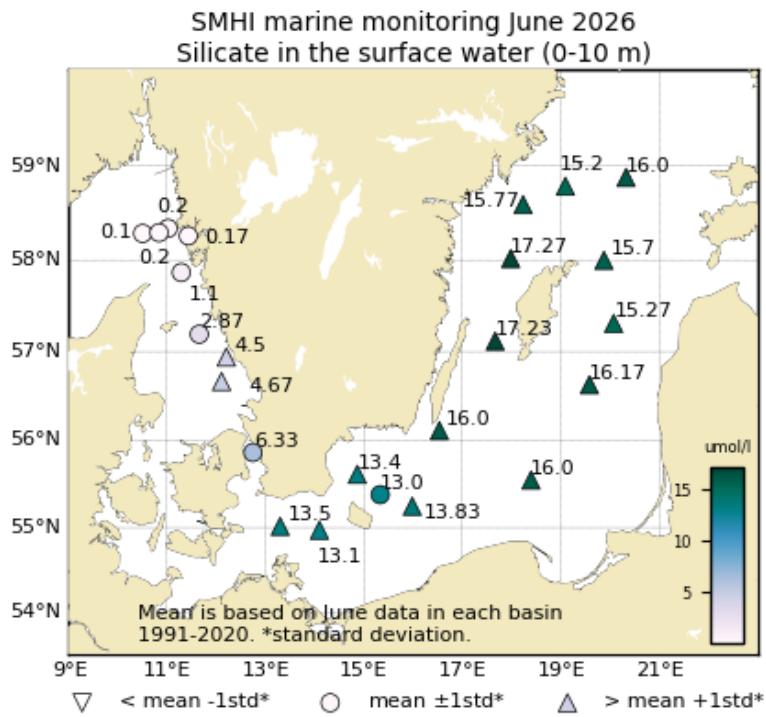


Figure 4. Concentration of silicate in the surface water (0-10 m).

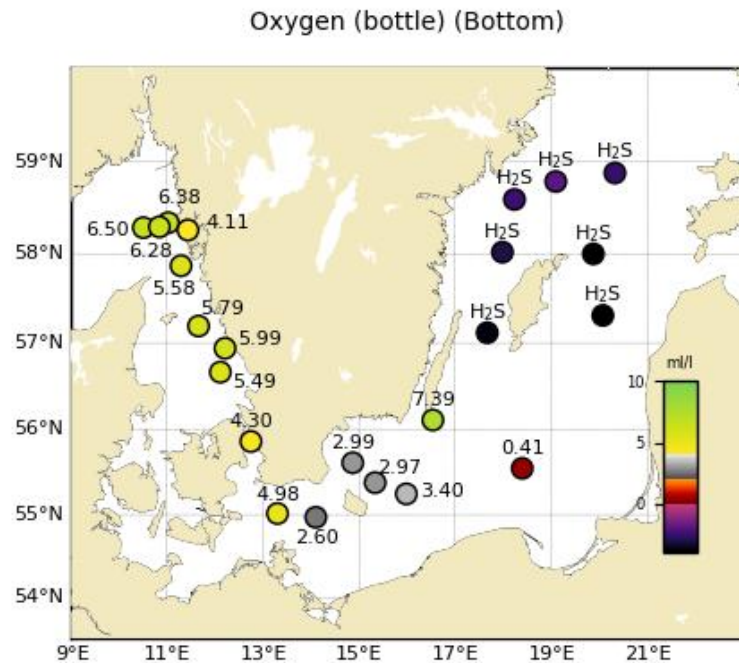


Figure 5. Oxygen concentration in the bottom water. Observe that the value has not been compared with statistical values the same way as in figures 2-4, 6-7, therefore the diagram only shows circles.

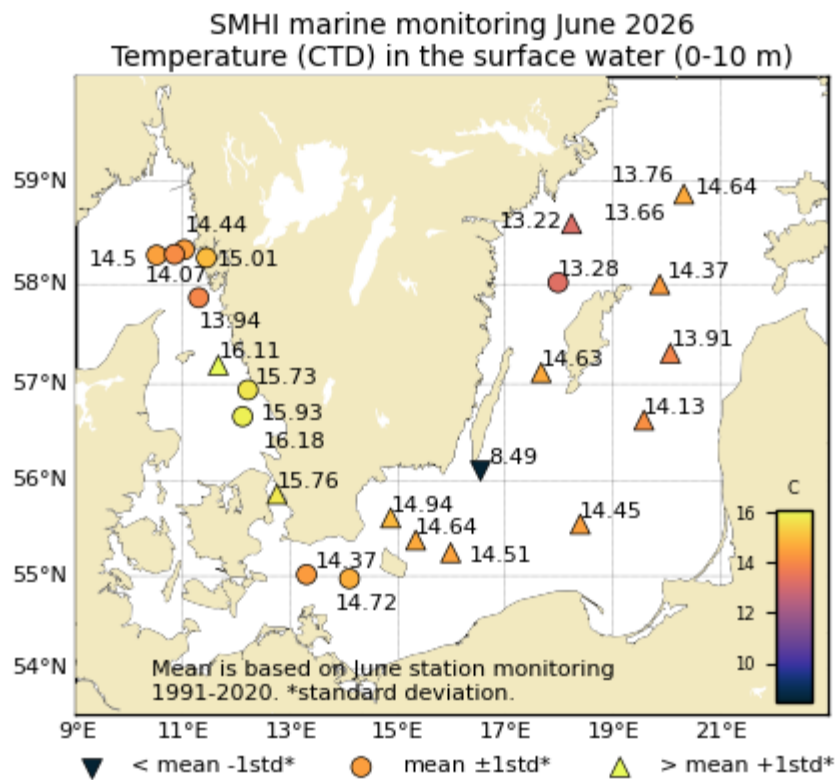


Figure 6. Temperature in the surface water (0-10 m).

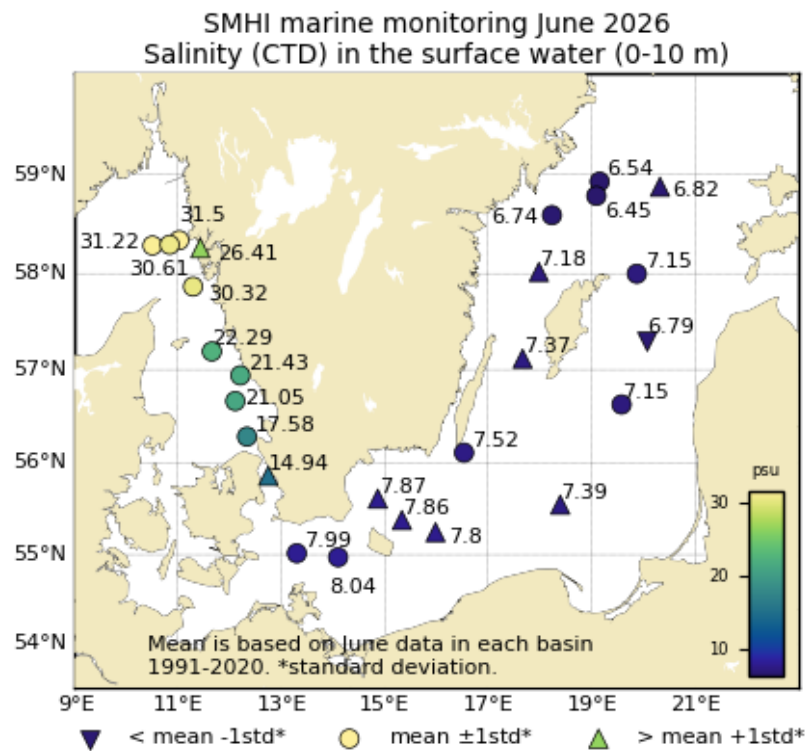


Figure 7. Salinity in the surface water (0-10 m).

PARTICIPANTS

Name	Position	From
Sara Johansson	Chief scientist, marine chemist	SMHI
Sari Sipilä	Marine chemist	SMHI
Alex Rockström	Oceanographic technician	SMHI
Ann-Turi Skjevik	Marine biologist	SMHI
Amanda Nylund	Marine biologist	SMHI
Monica Lindner	Marine chemist	SMHI

APPENDICES

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

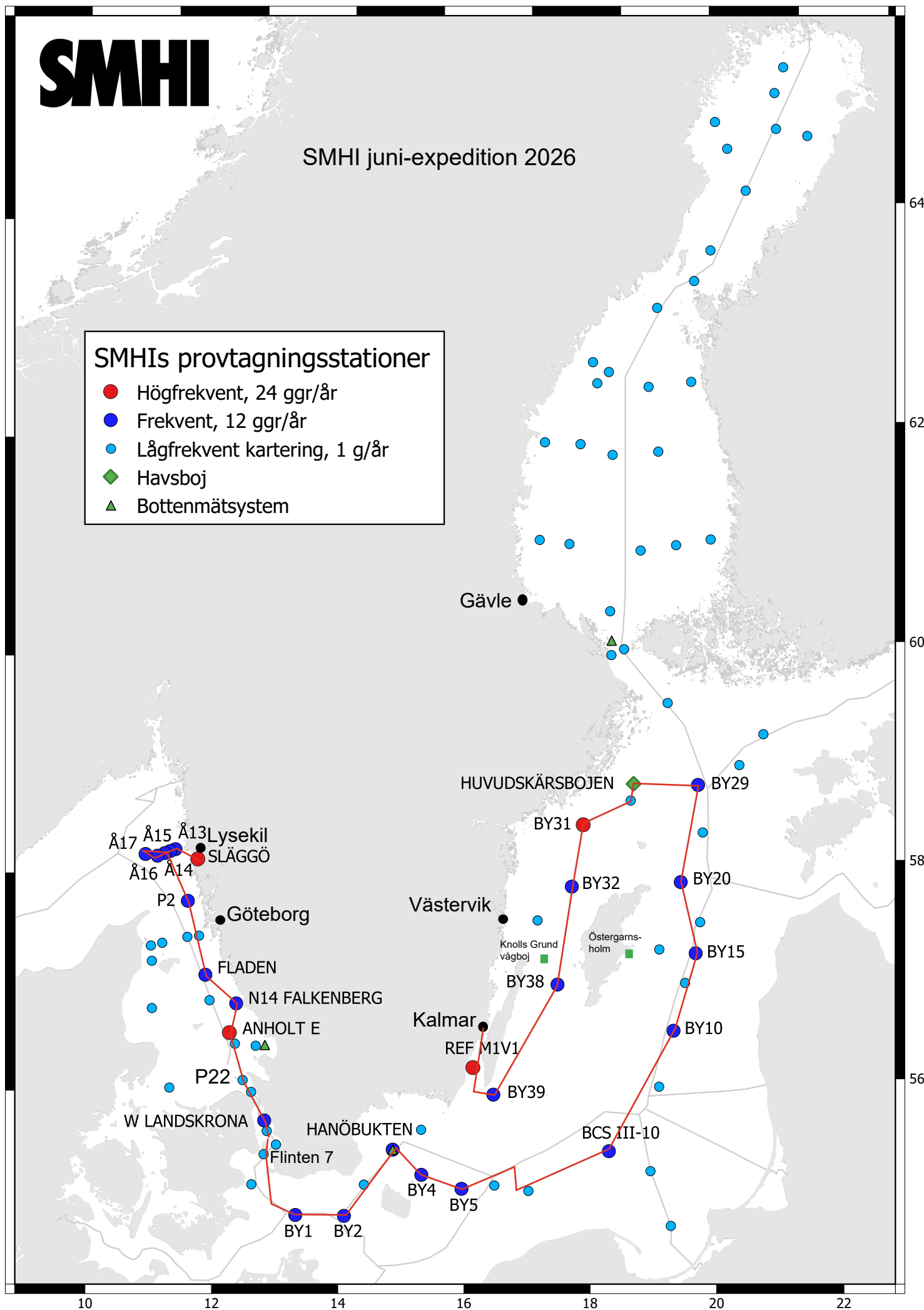


Havs
och Vatten
myndigheten

SMHI juni-expedition 2026

SMHIs provtagningsstationer

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



Time: 17:38

Year: 2026

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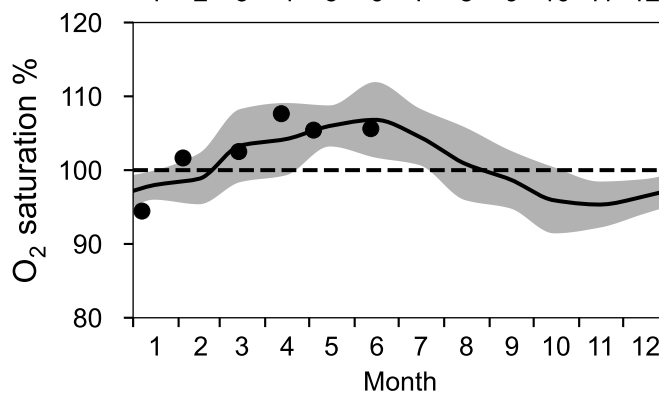
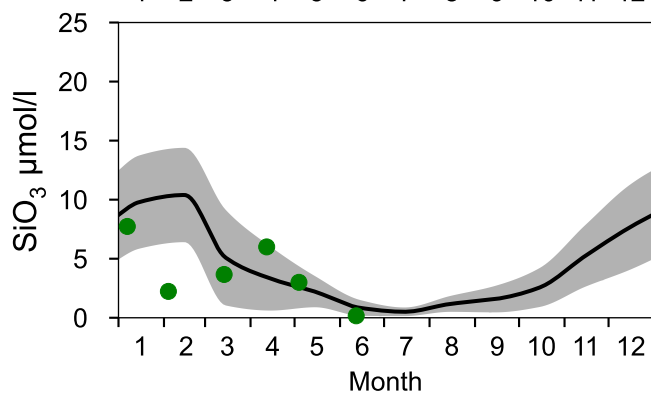
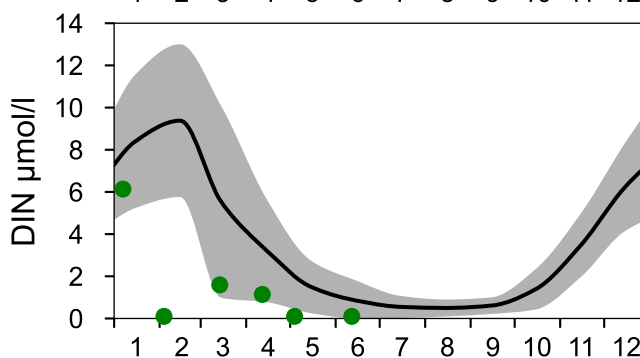
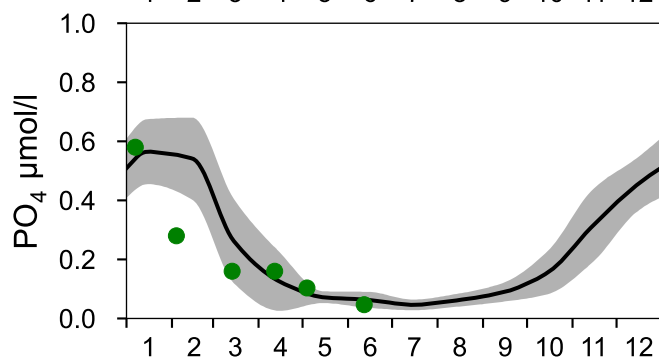
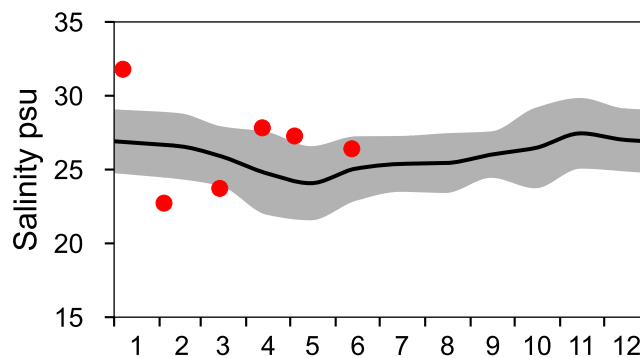
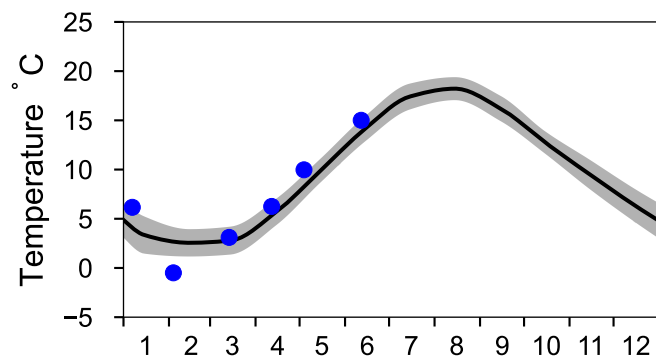
STATION SLÄGGÖ SURFACE WATER (0-10 m)

Annual Cycles

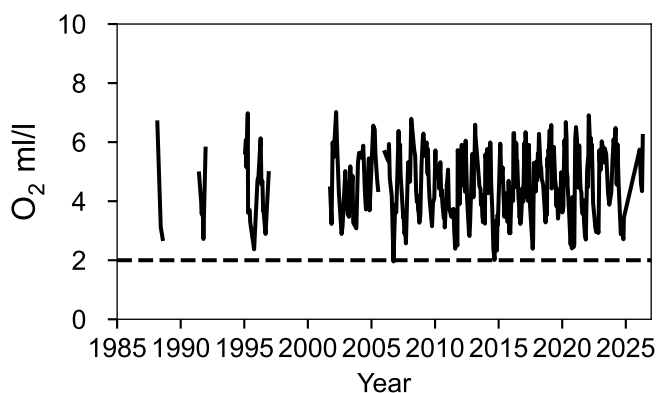
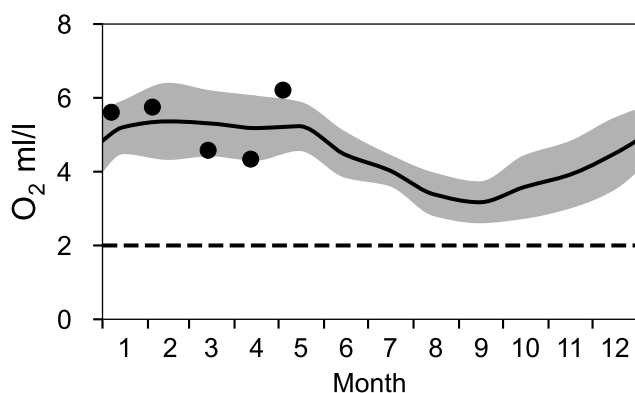
— Mean 1991-2020

■ St.Dev.

● 2026

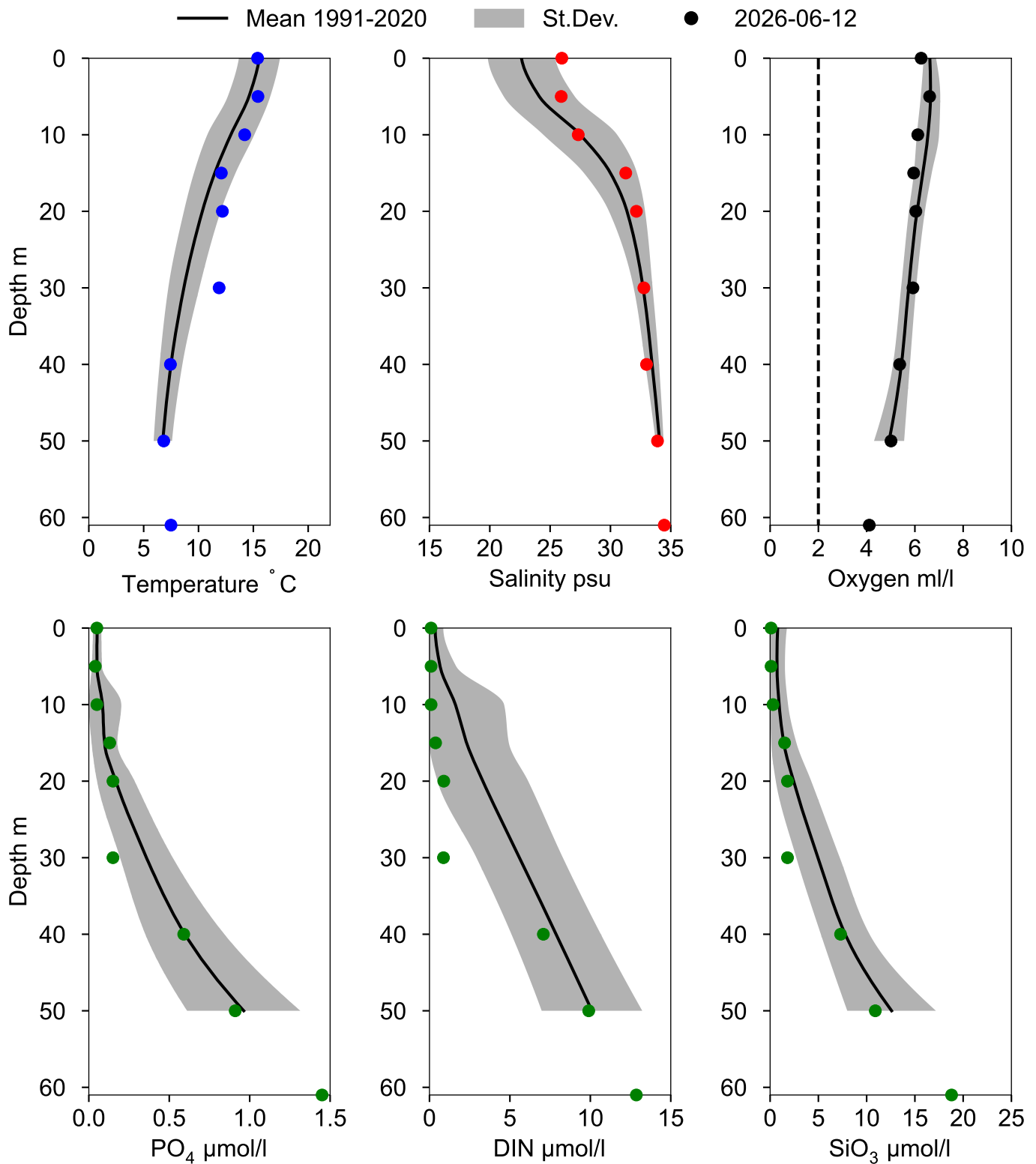


OXYGEN IN BOTTOM WATER (depth >= 64 m)



Vertical profiles SLÄGGÖ

June



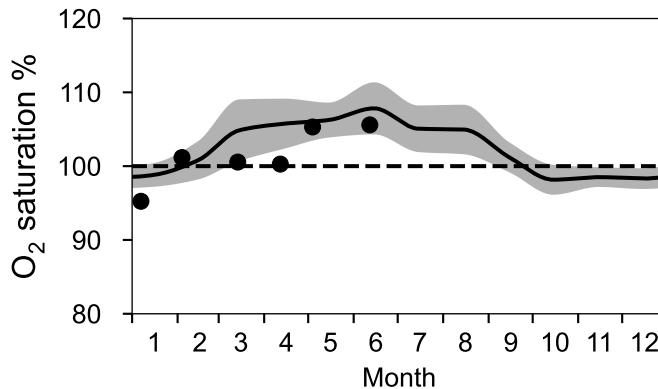
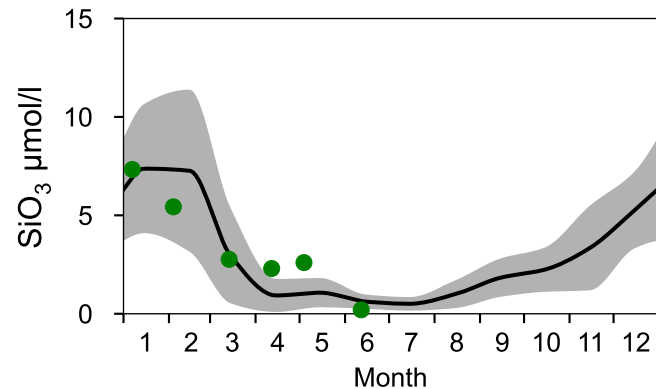
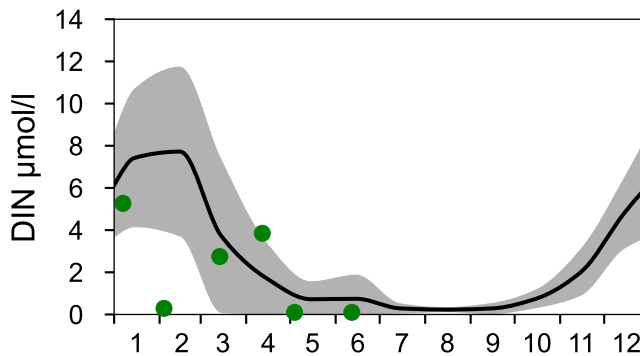
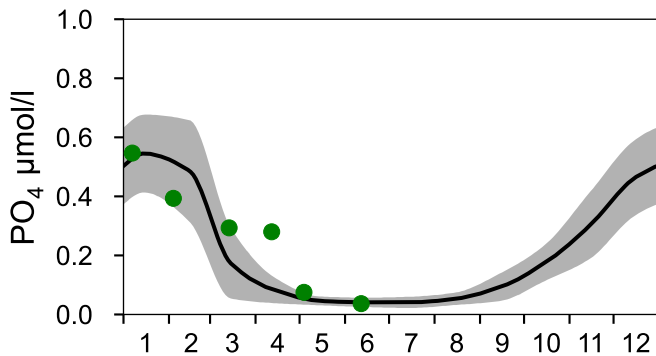
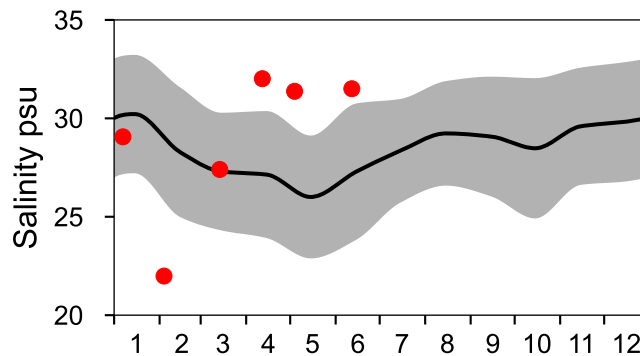
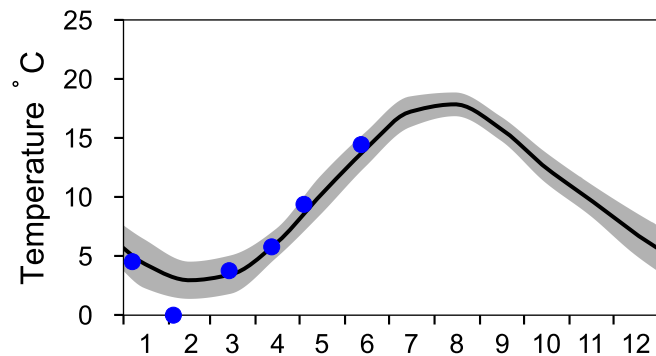
STATION Å13 SURFACE WATER (0-10 m)

Annual Cycles

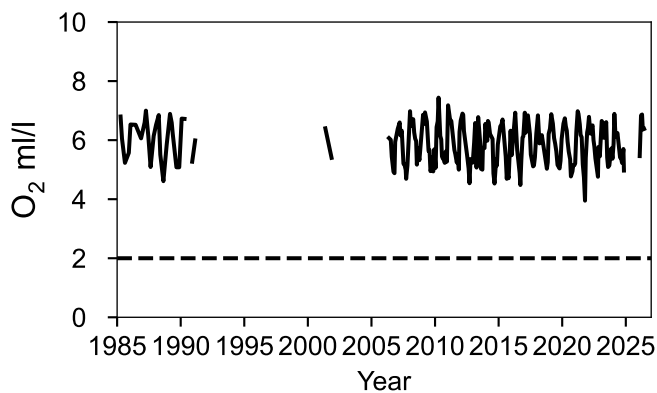
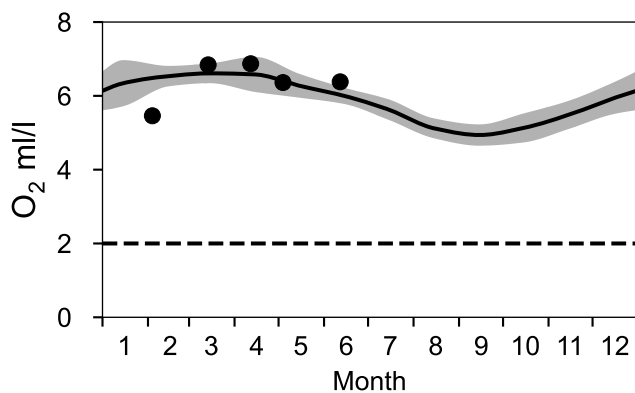
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■ St.Dev.

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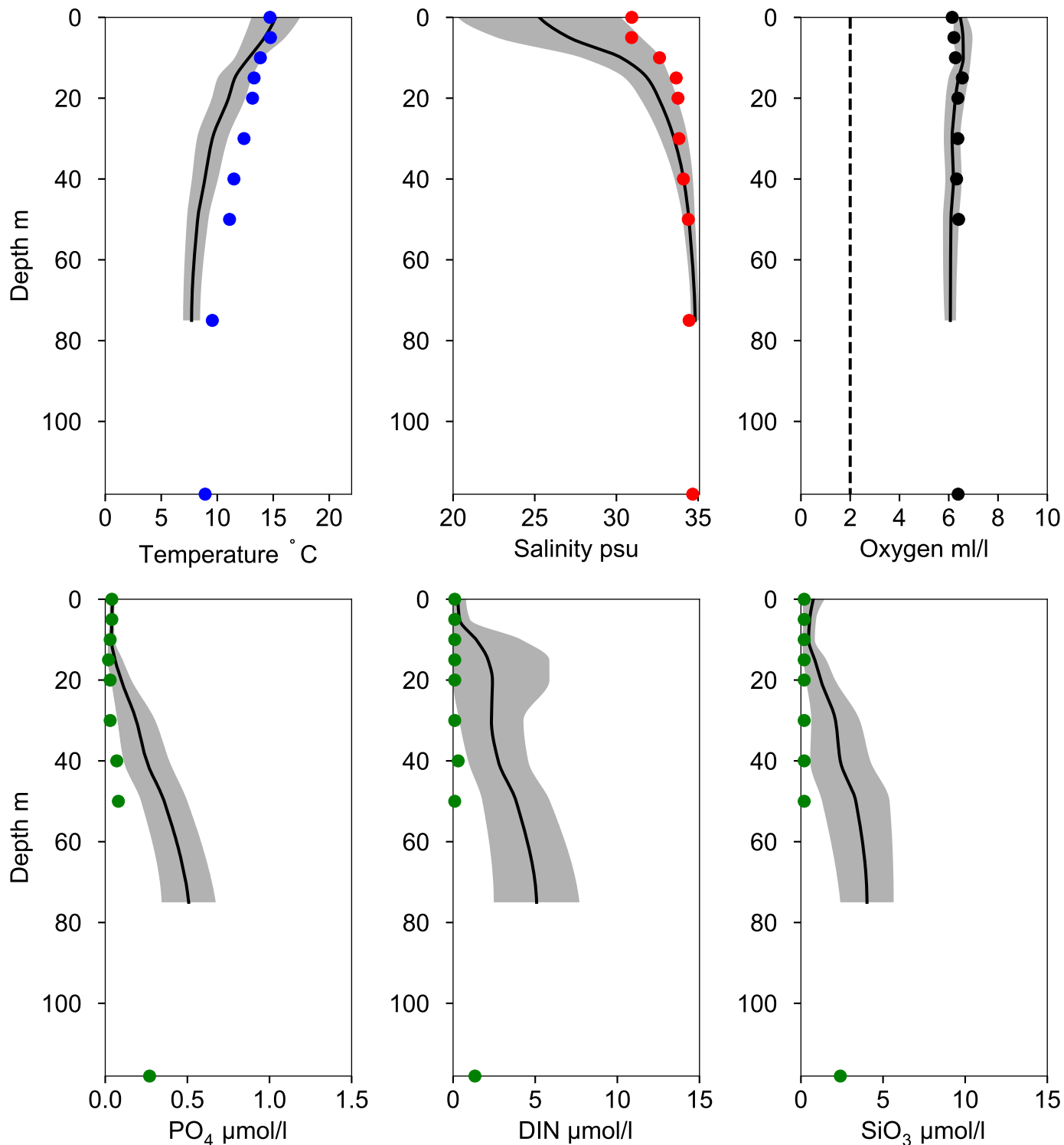


OXYGEN IN BOTTOM WATER (depth >= 82 m)



Vertical profiles A13 June

— Mean 1991-2020 St.Dev. ● 2026-06-12



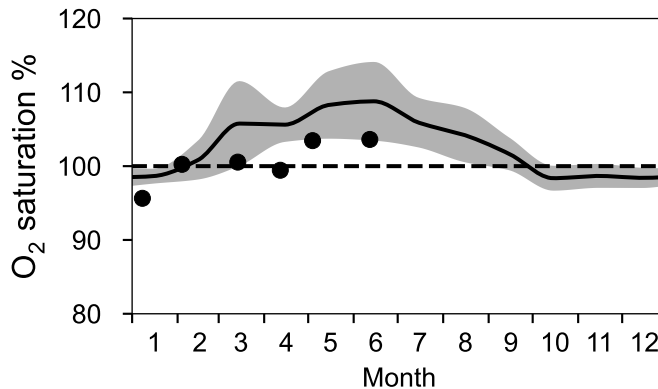
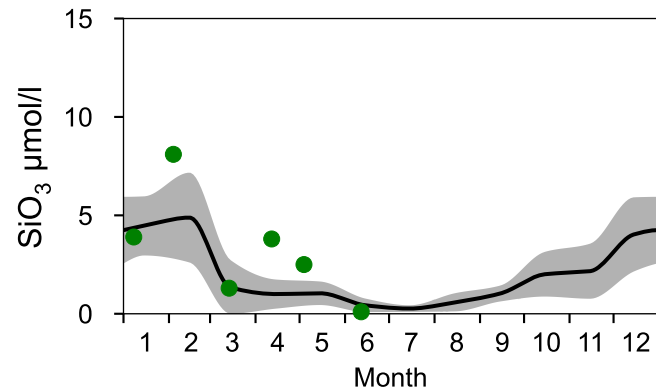
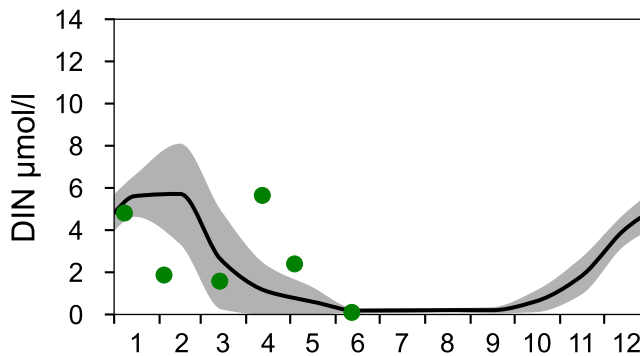
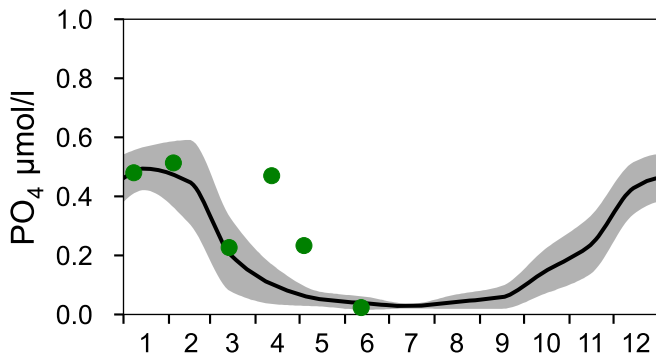
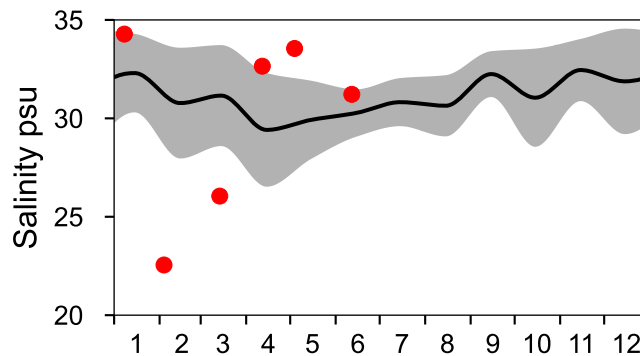
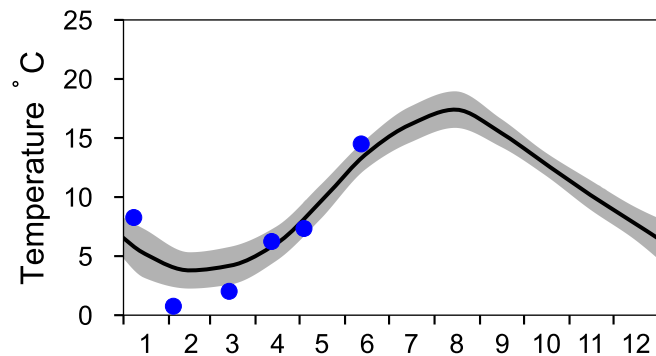
STATION Å17 SURFACE WATER (0-10 m)

Annual Cycles

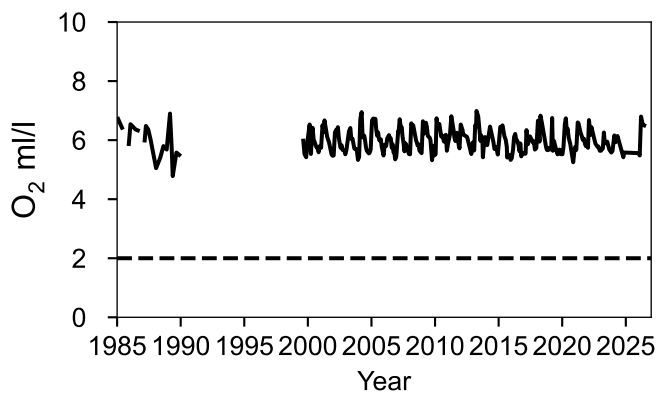
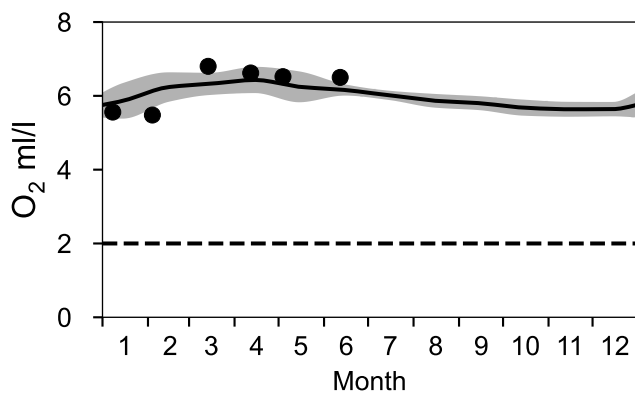
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■ St.Dev.

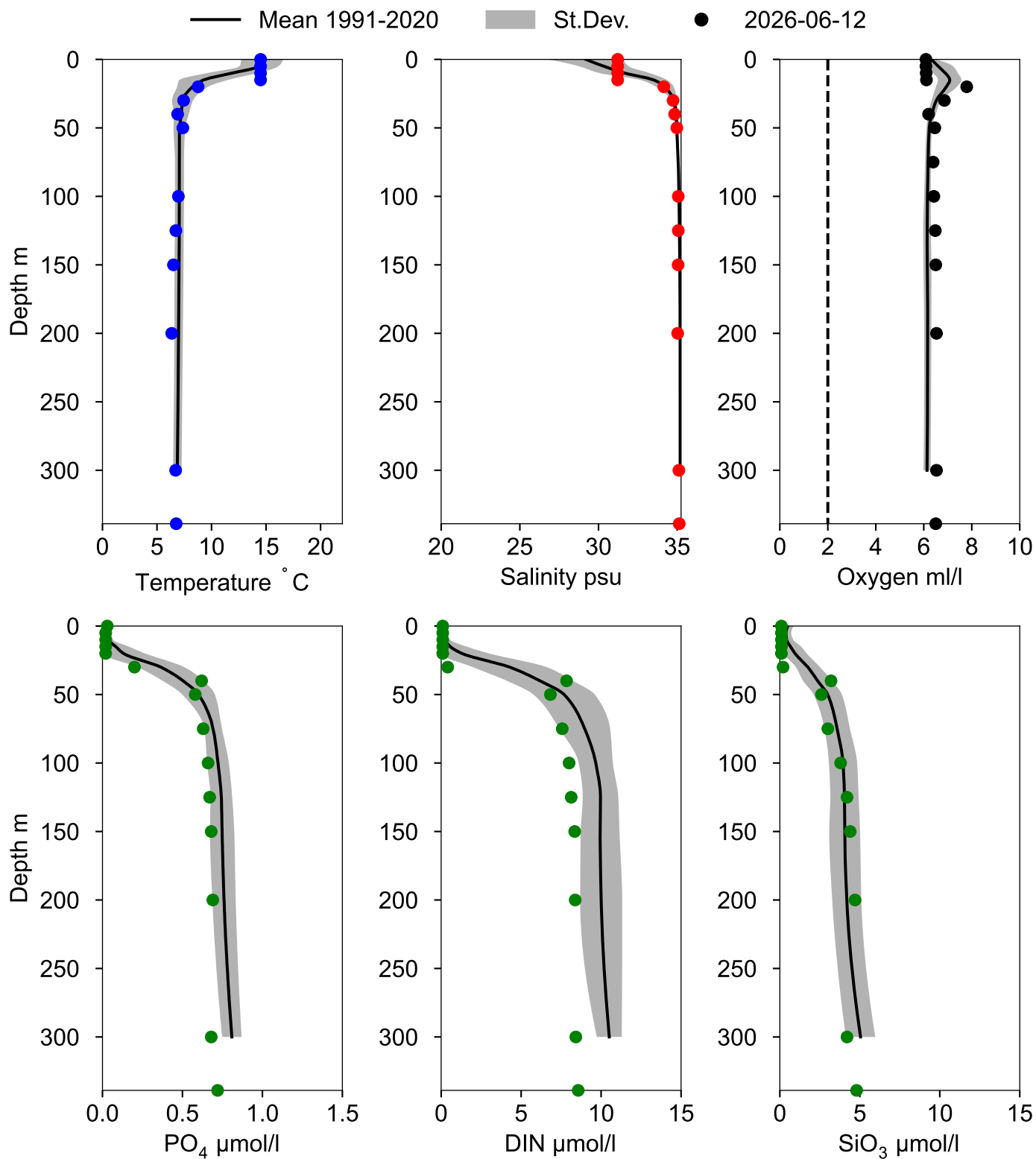
● 2026



OXYGEN IN BOTTOM WATER (depth >= 300 m)



Vertical profiles Å17 June



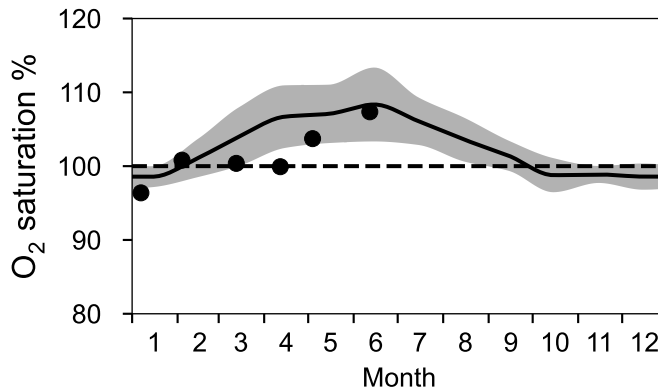
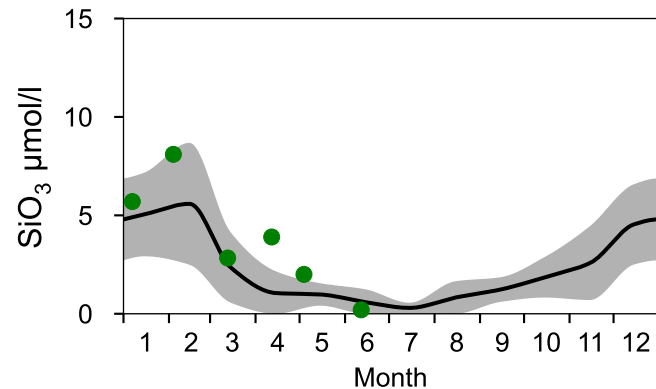
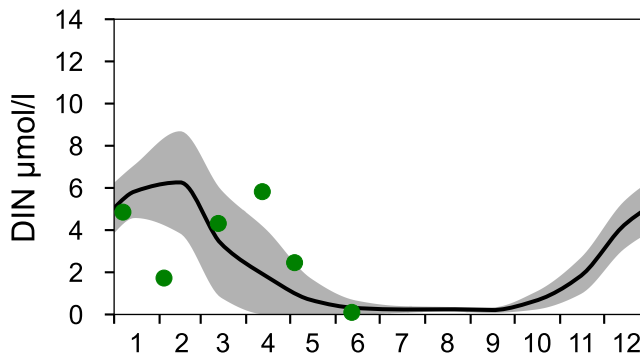
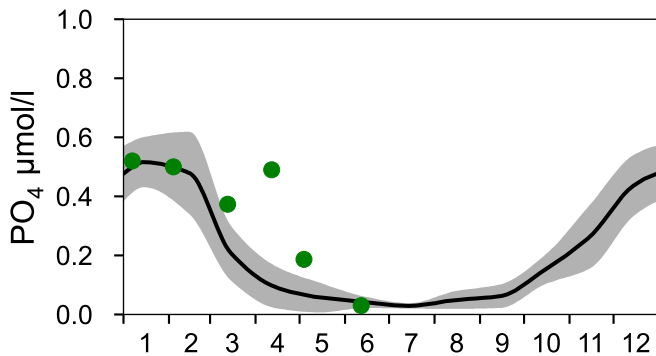
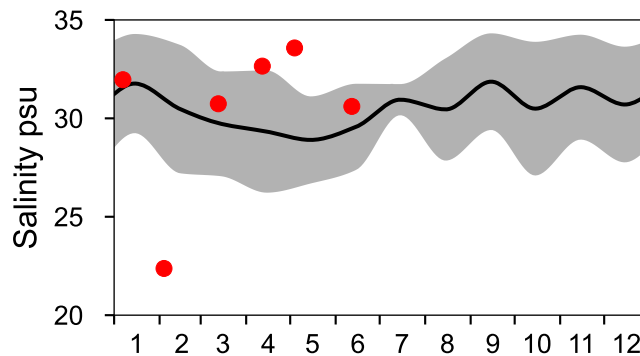
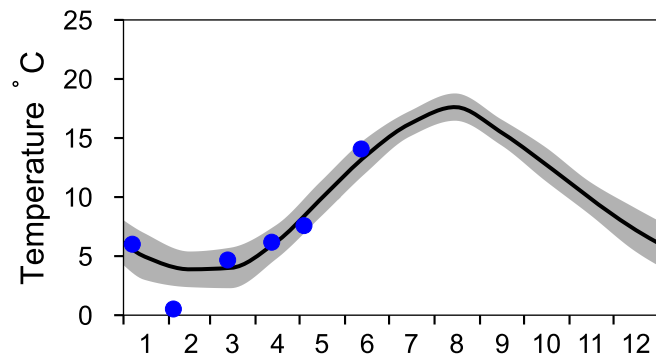
STATION Å15 SURFACE WATER (0-10 m)

Annual Cycles

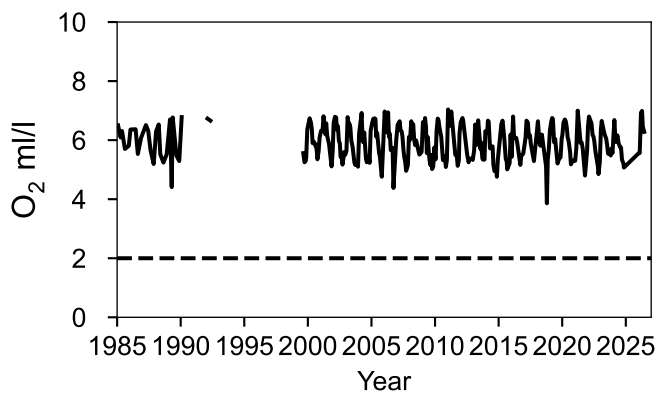
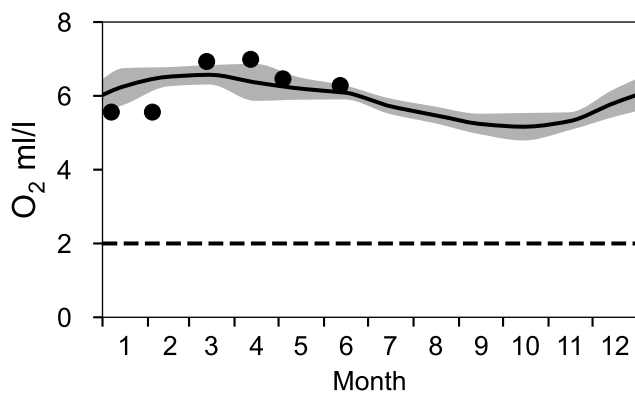
— Mean 1991-2020

■ St.Dev.

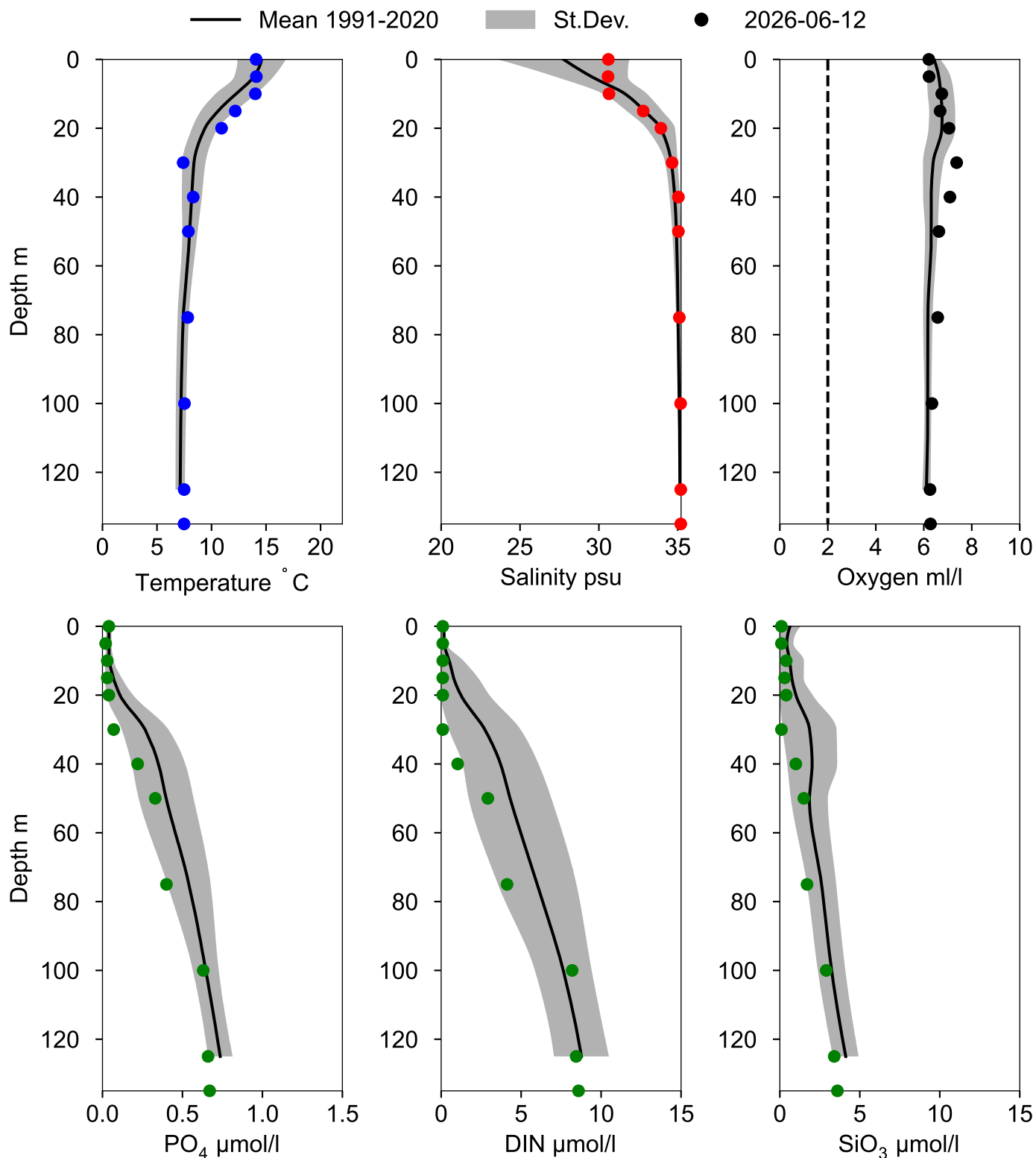
● 2026



OXYGEN IN BOTTOM WATER (depth >= 125 m)



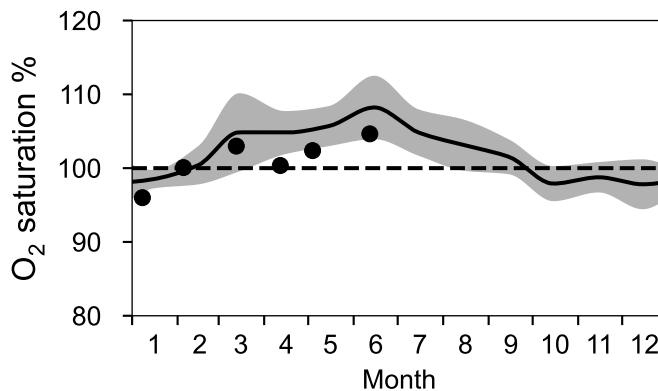
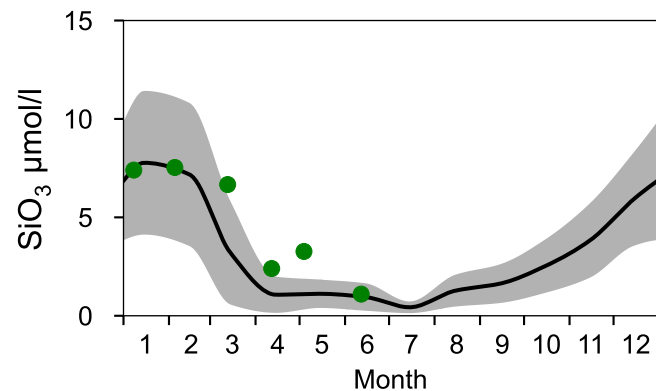
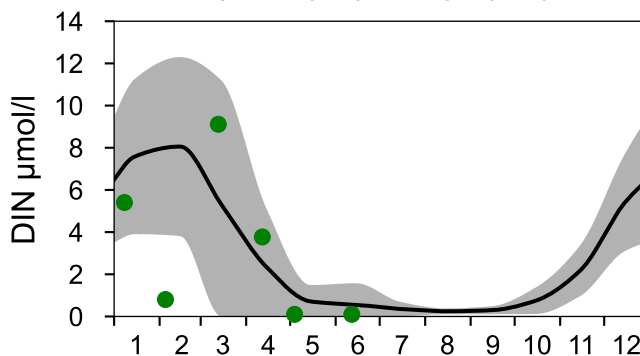
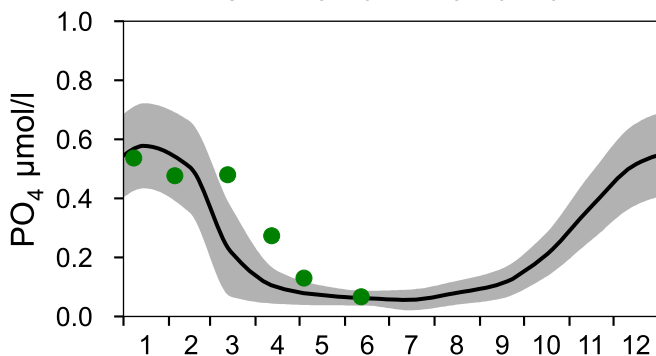
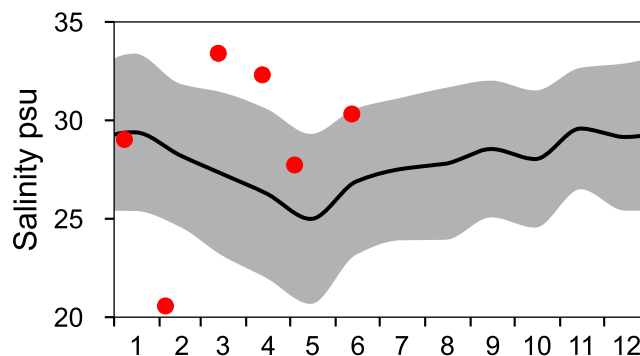
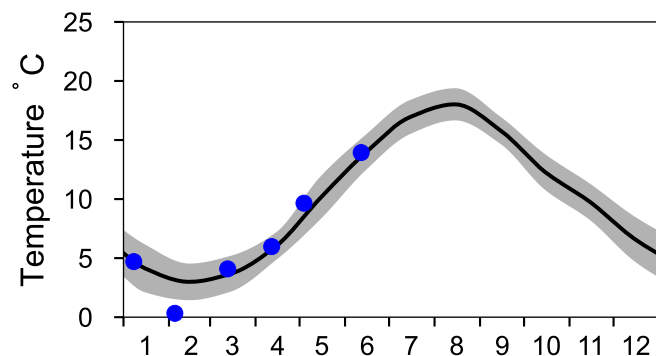
Vertical profiles Å15 June



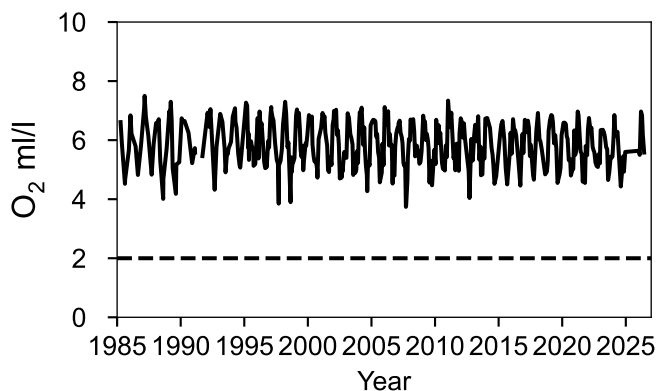
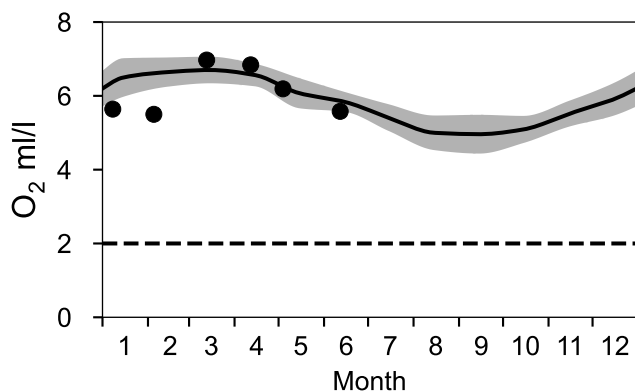
STATION P2 SURFACE WATER (0-10 m)

Annual Cycles

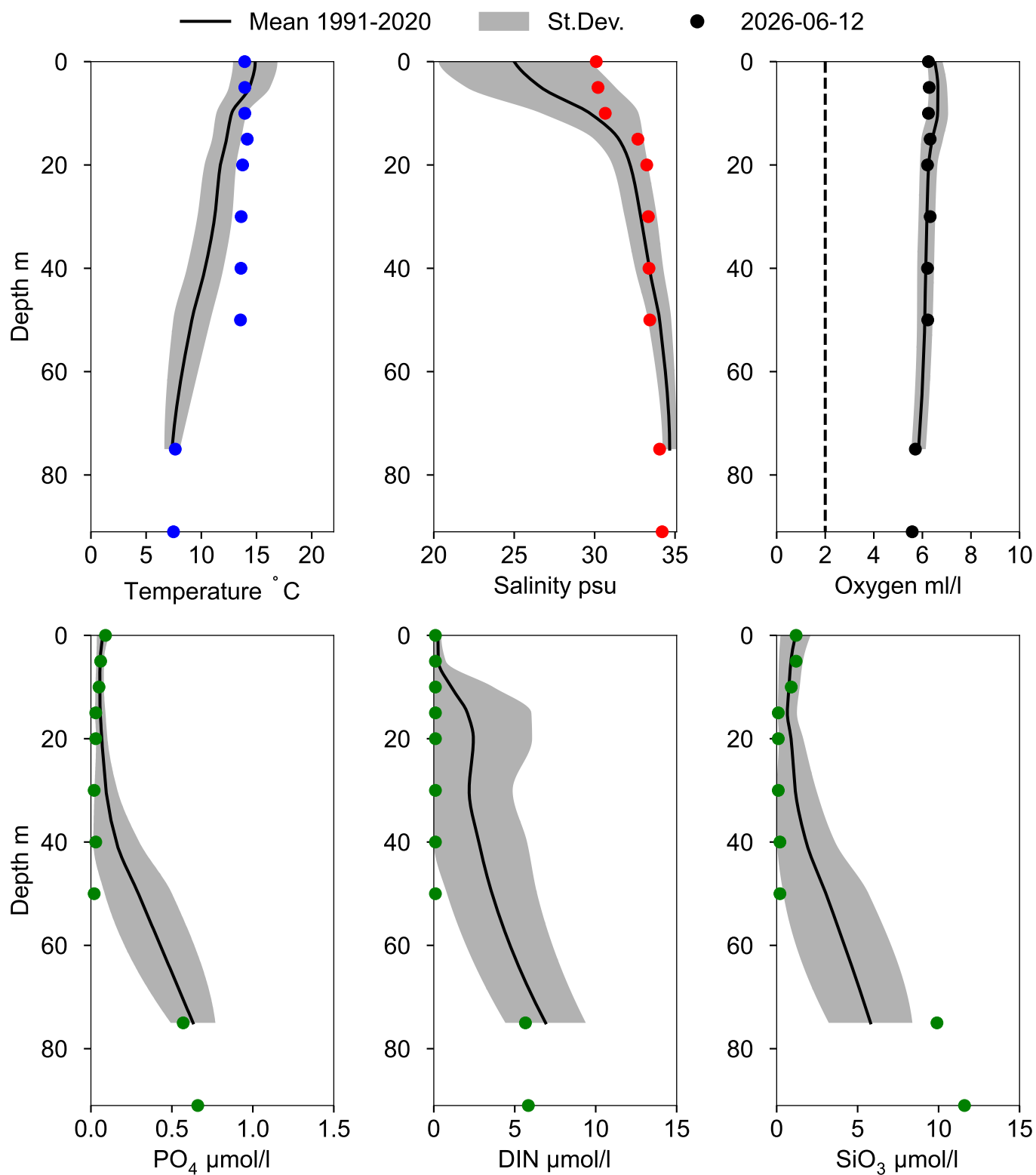
— Mean 1991-2020 St.Dev. ● 2026



OXYGEN IN BOTTOM WATER (depth >= 75 m)



Vertical profiles P2 June



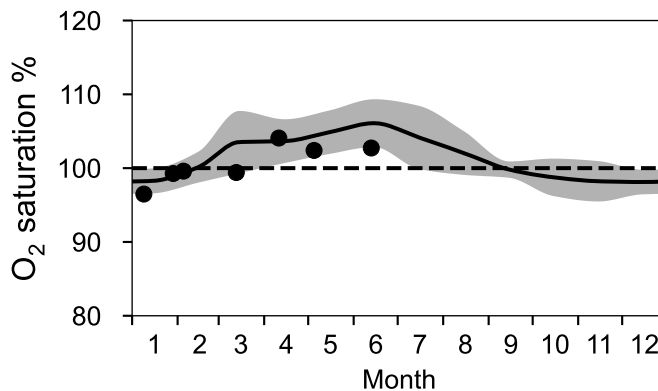
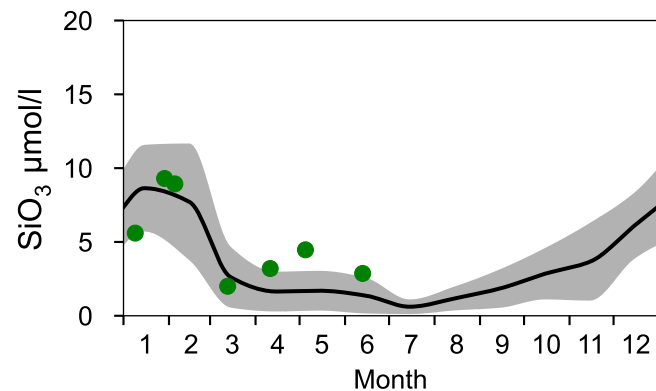
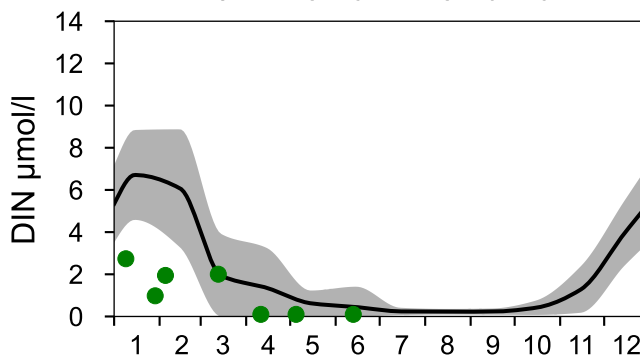
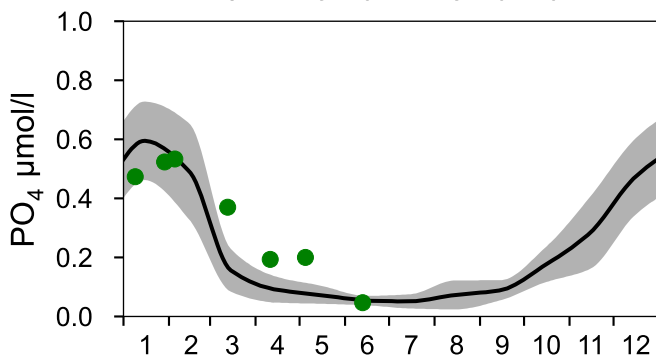
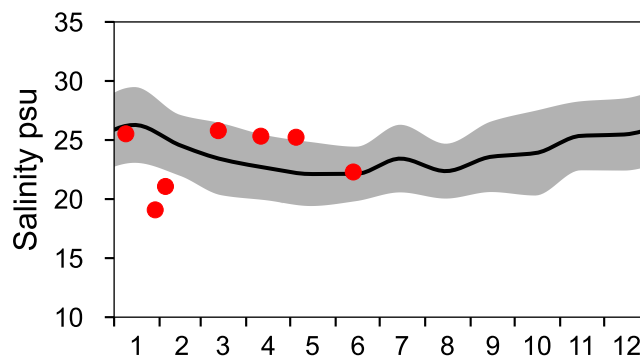
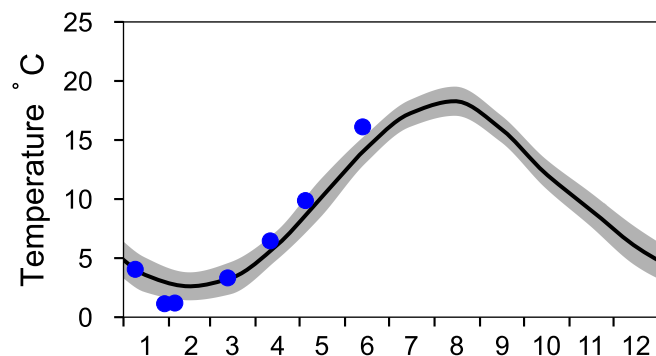
STATION FLADEN SURFACE WATER (0-10 m)

Annual Cycles

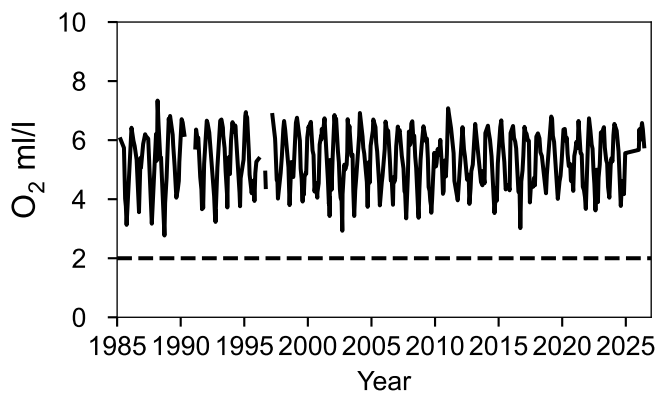
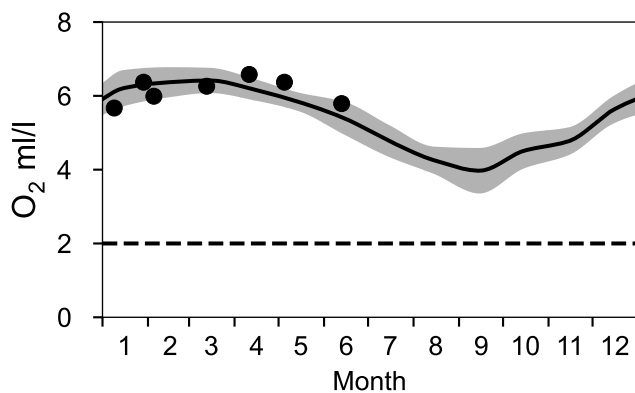
— Mean 1991-2020

■ St.Dev.

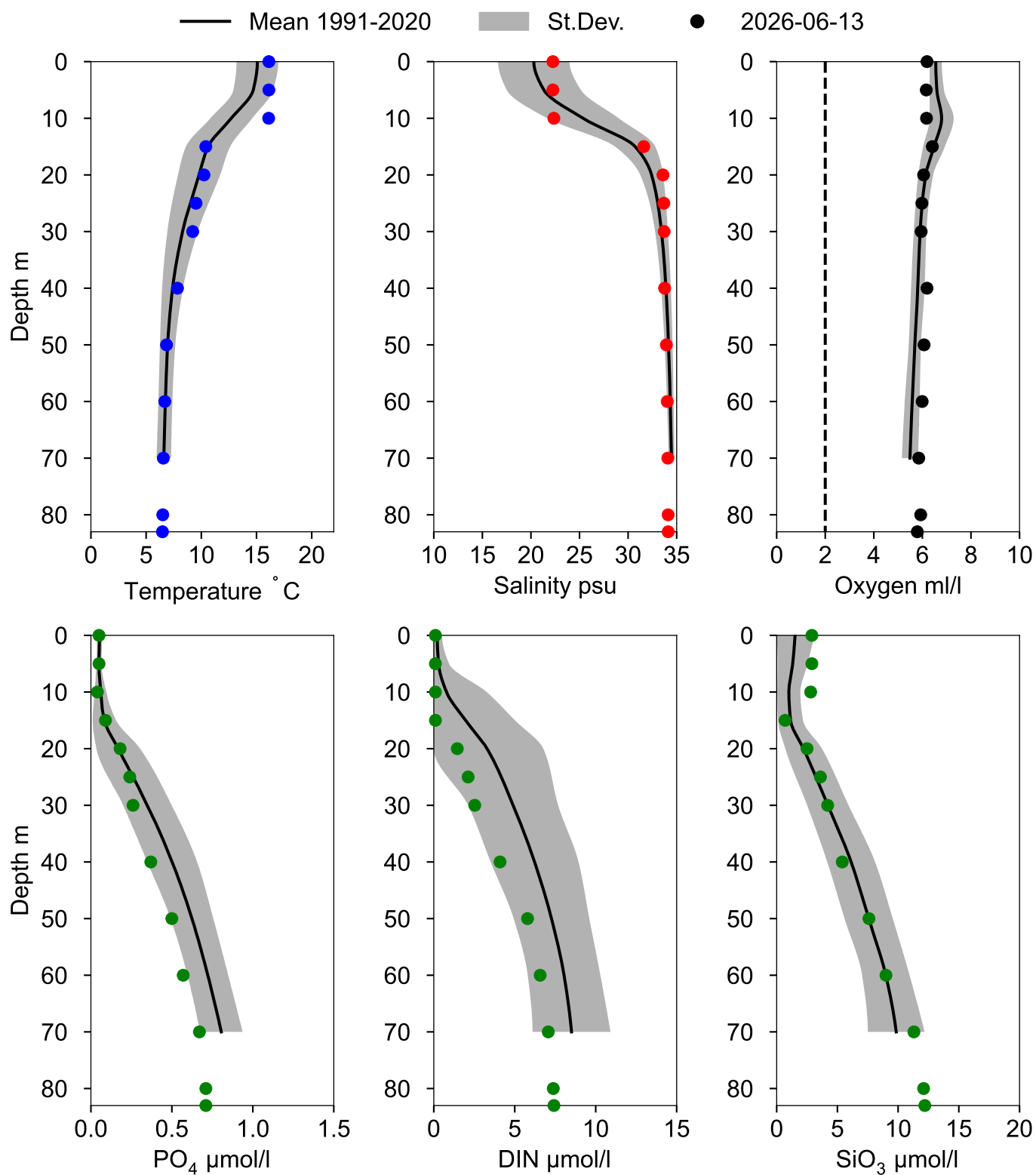
● 2026



OXYGEN IN BOTTOM WATER (depth >= 74 m)



Vertical profiles FLADEN June



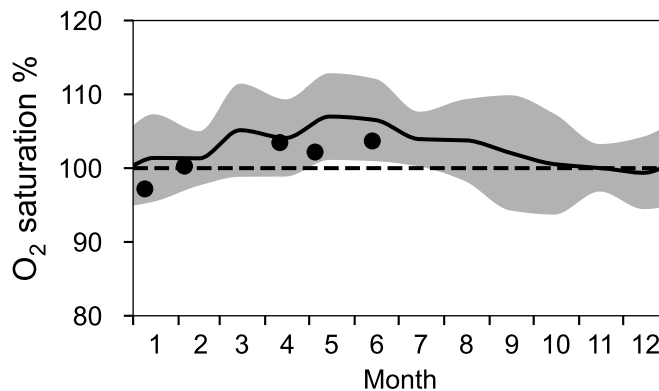
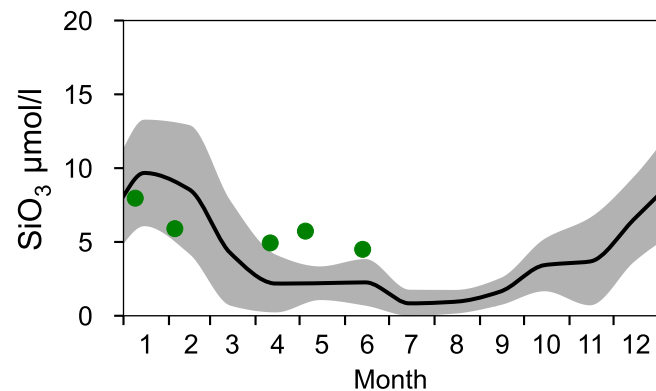
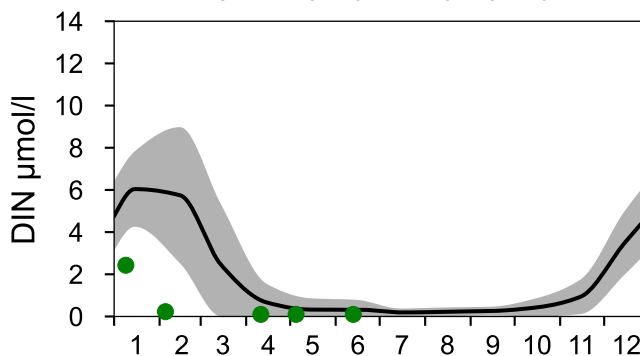
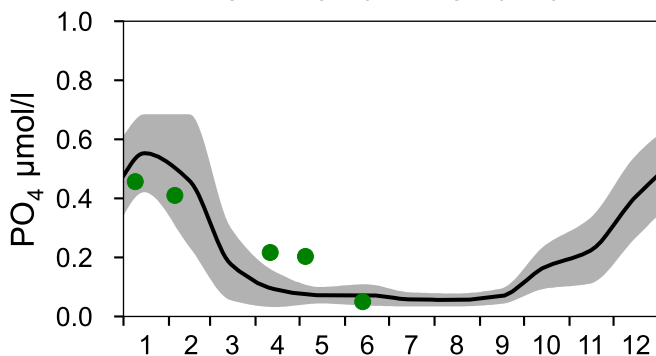
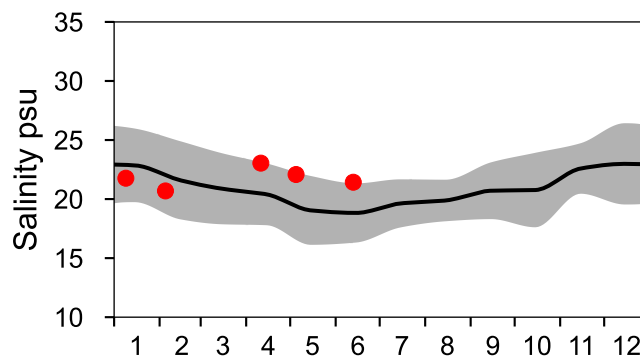
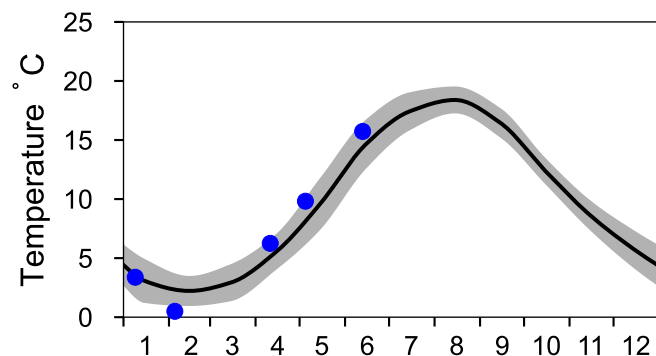
STATION N14 FALKENBERG SURFACE WATER (0-10 m)

Annual Cycles

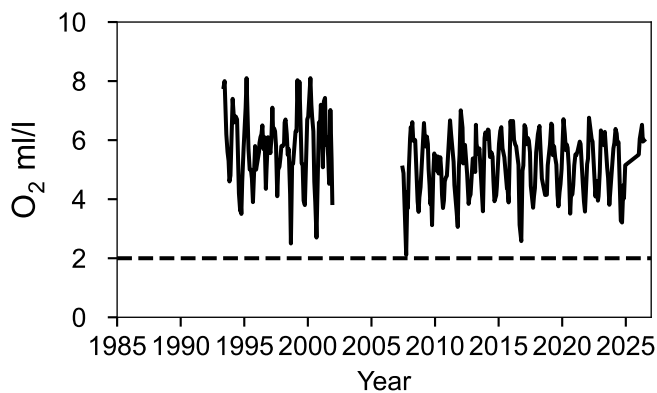
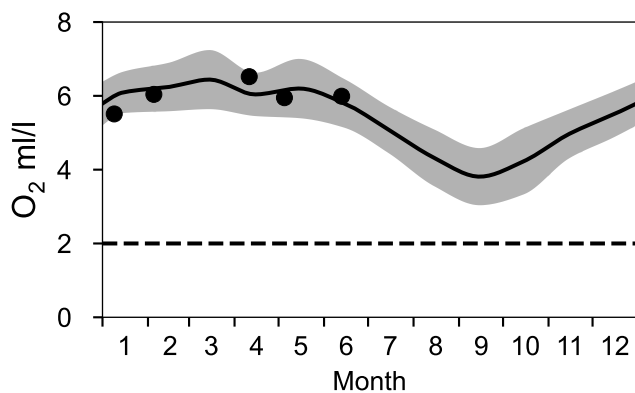
— Mean 1991-2020

■ St.Dev.

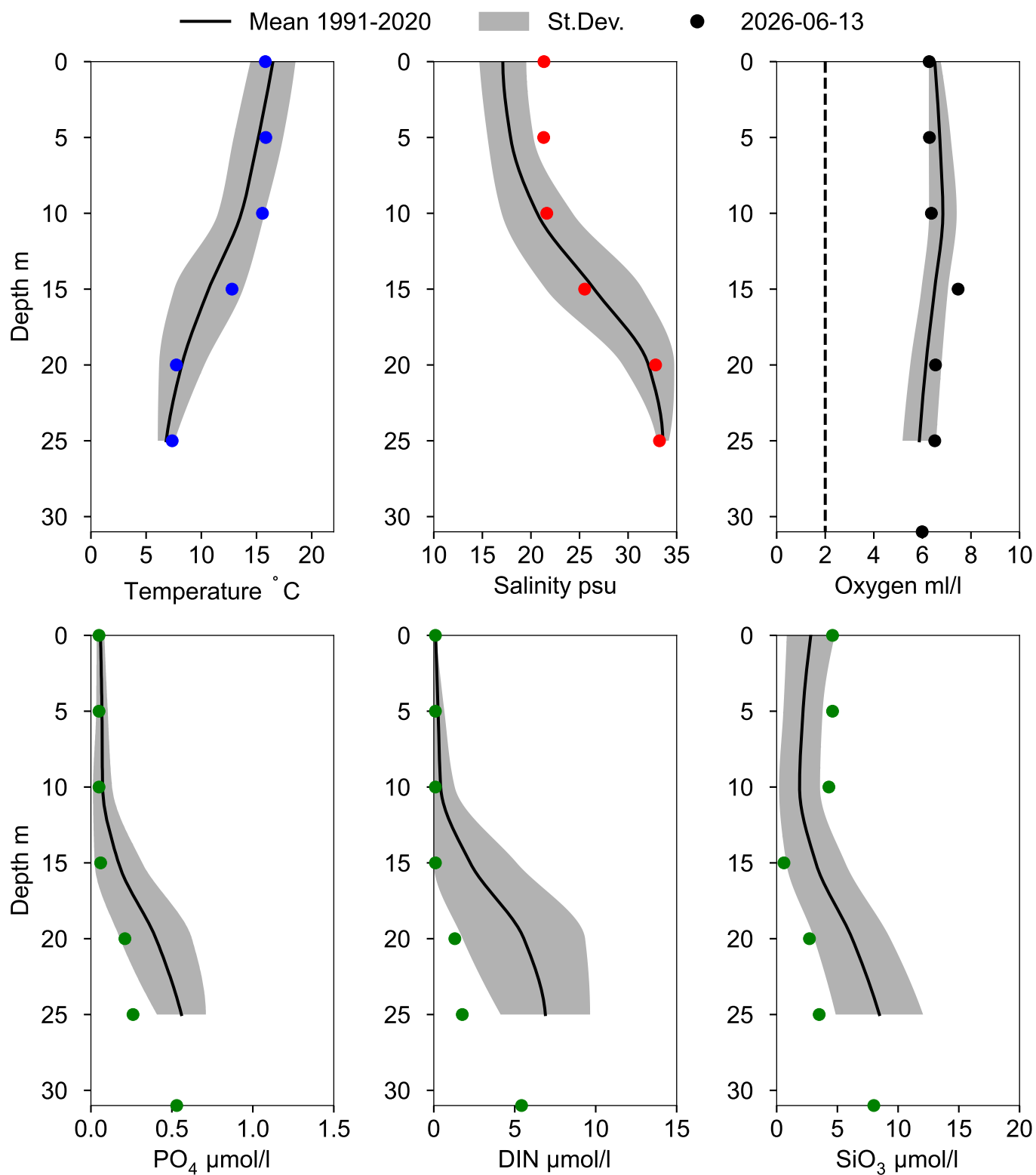
● 2026



OXYGEN IN BOTTOM WATER (depth >= 25 m)



Vertical profiles N14 FALKENBERG June



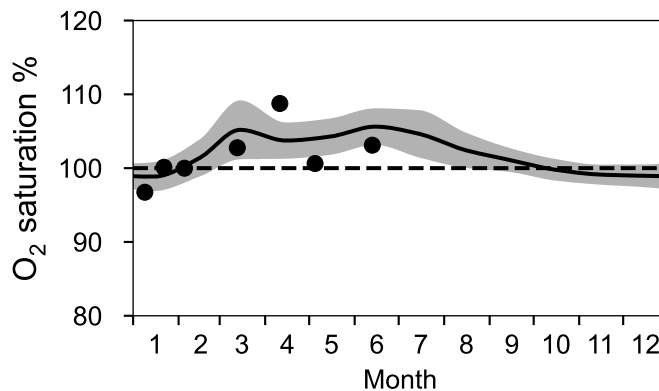
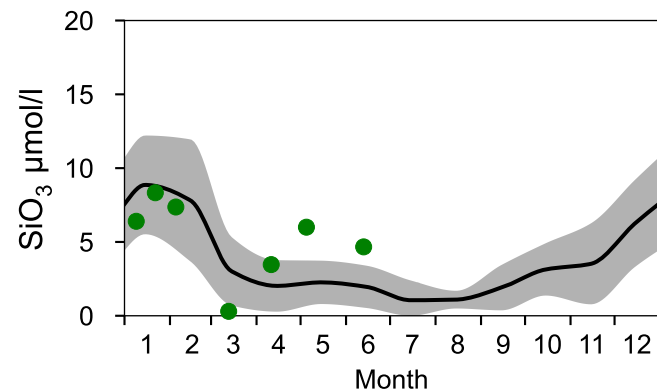
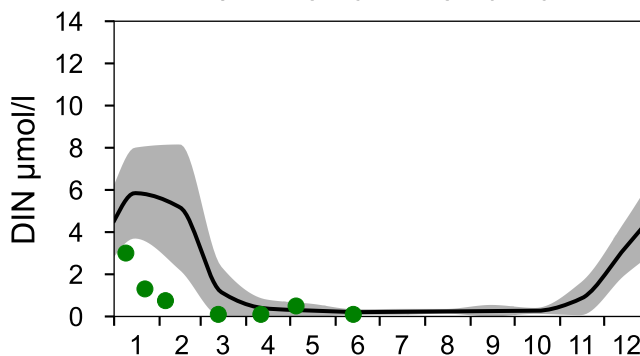
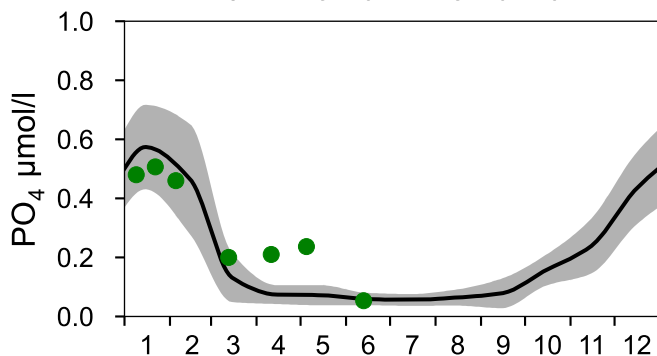
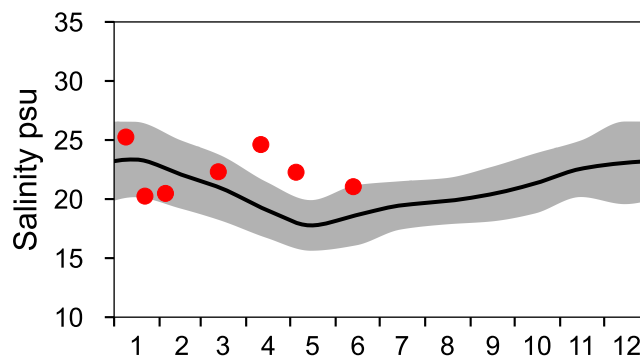
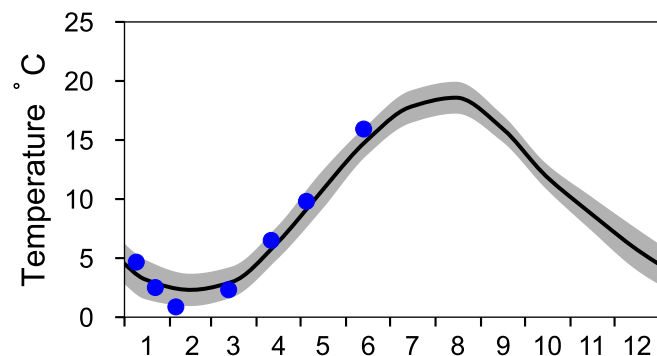
STATION ANHOLT E SURFACE WATER (0-10 m)

Annual Cycles

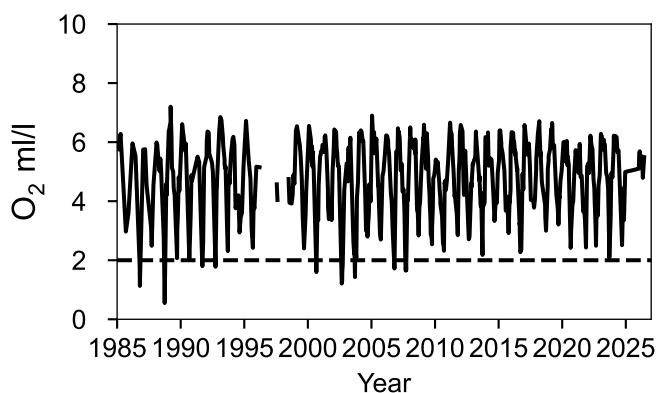
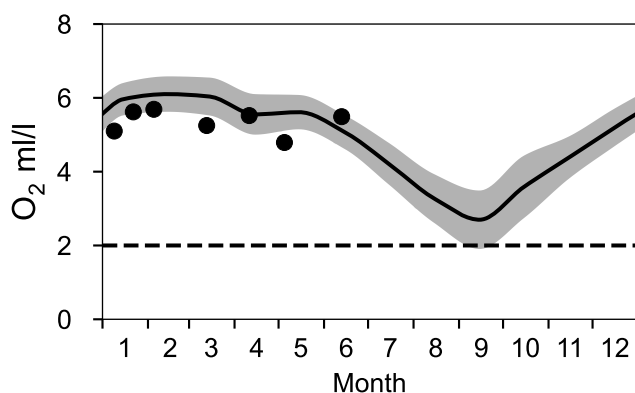
— Mean 1991-2020

■ St.Dev.

● 2026

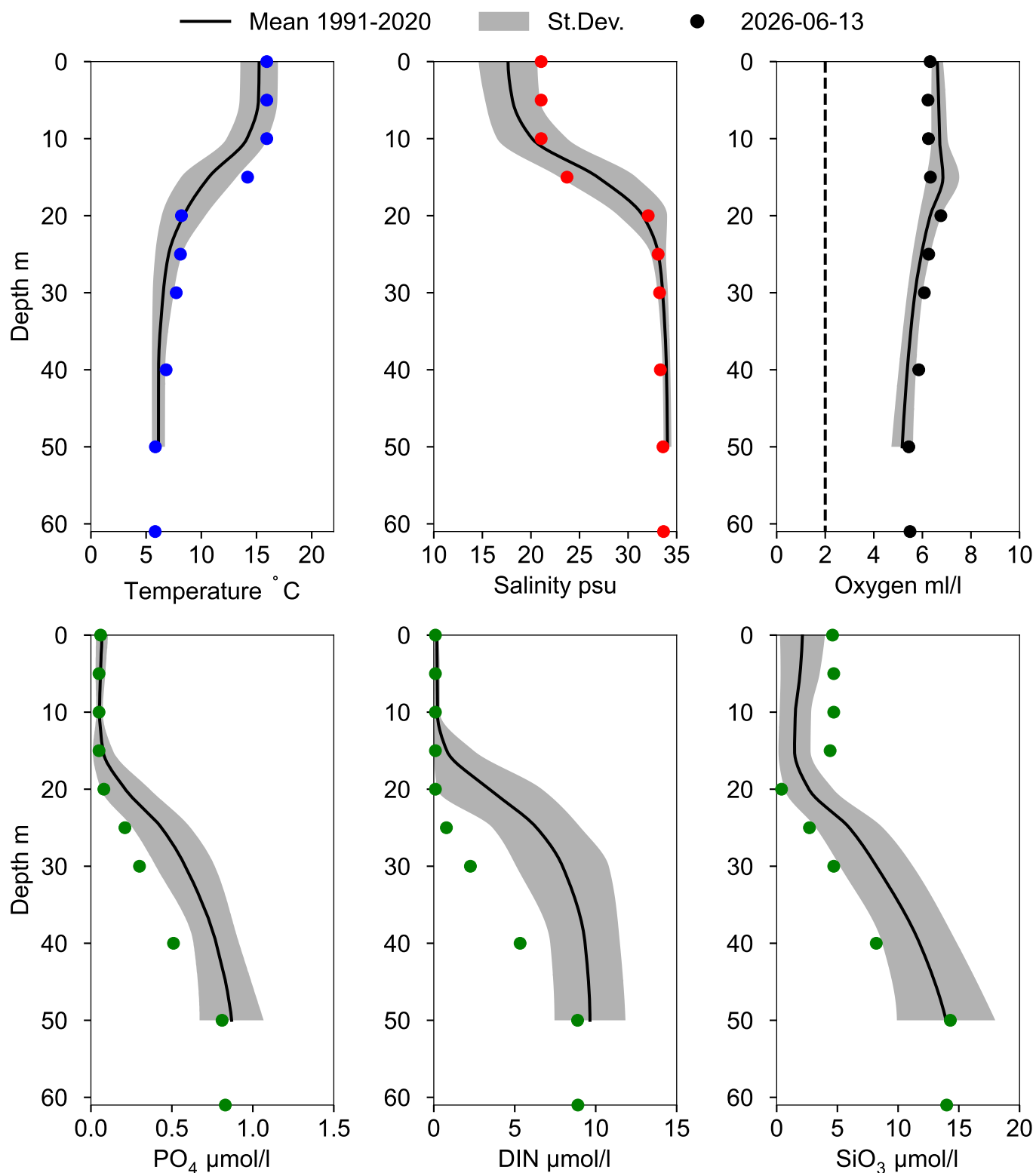


OXYGEN IN BOTTOM WATER (depth >= 52 m)



Vertical profiles ANHOLT E

June



STATION P22 SURFACE WATER (0-10 m)

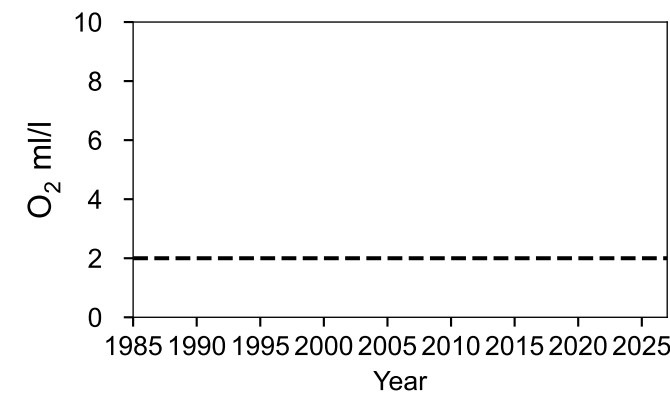
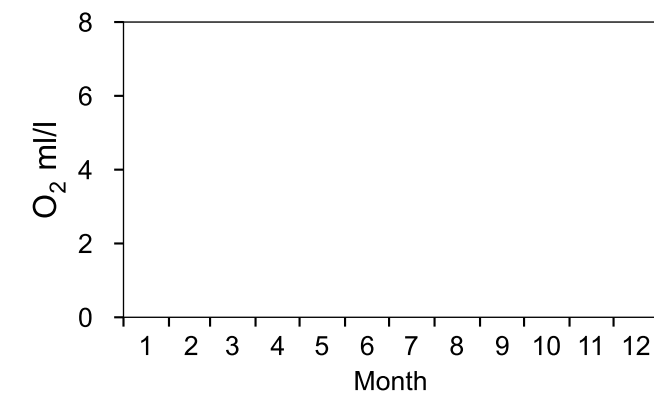
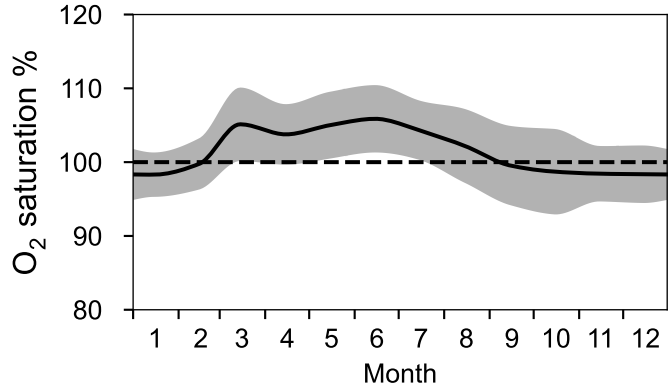
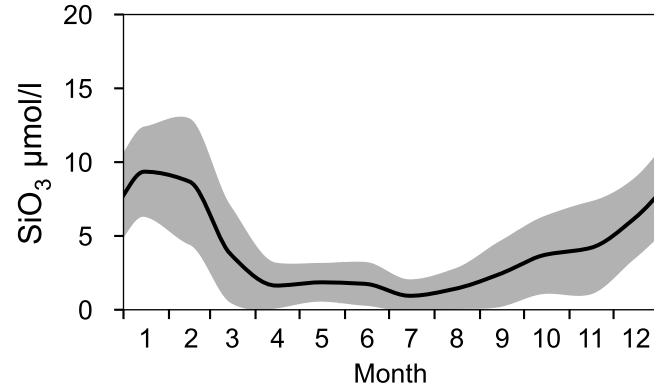
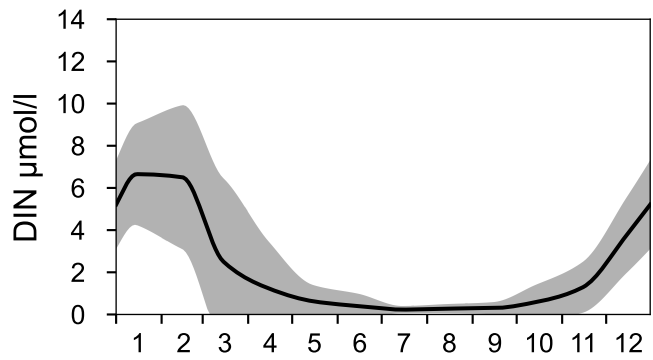
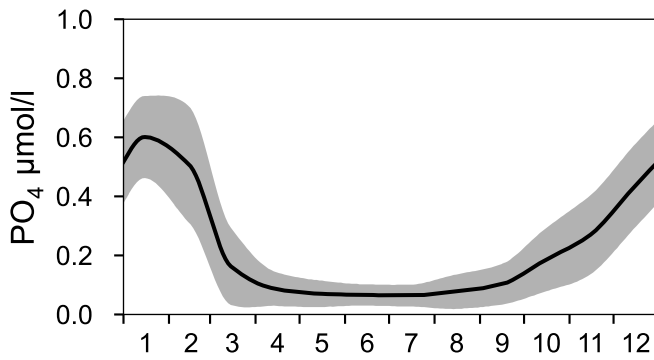
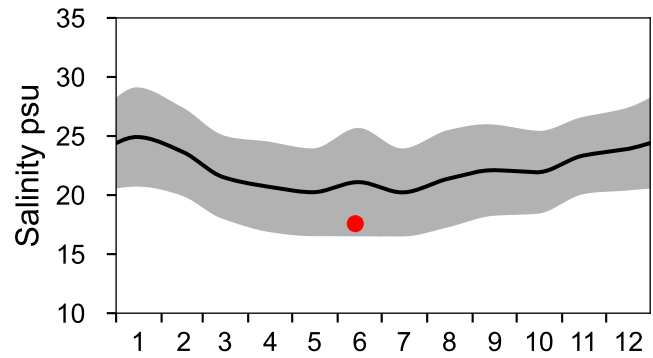
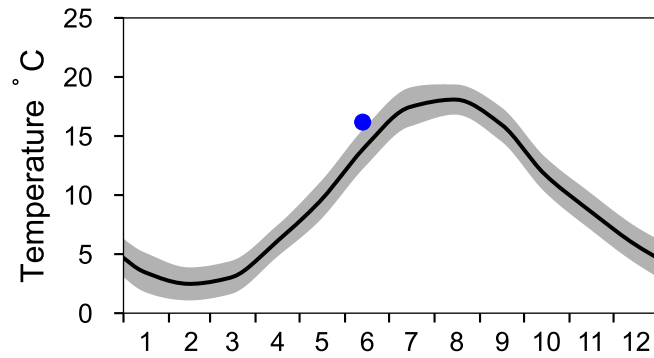
Annual Cycles

Statistics based on data from: Kattegatt

— Mean 1991-2020

■ St.Dev.

● 2026



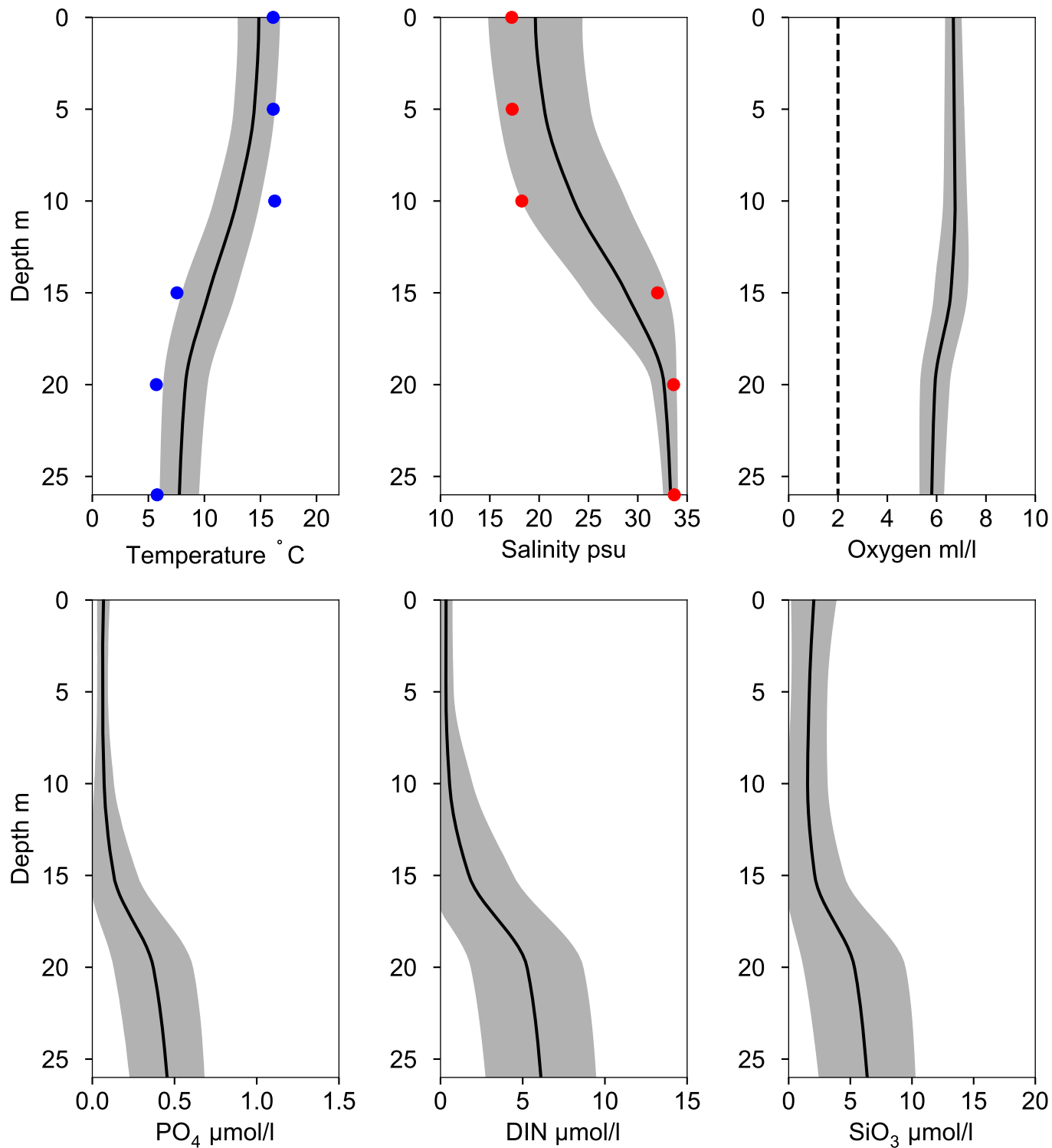
Vertical profiles P22 June

Statistics based on data from: Kattegatt

— Mean 1991-2020

■ St.Dev.

● 2026-06-13



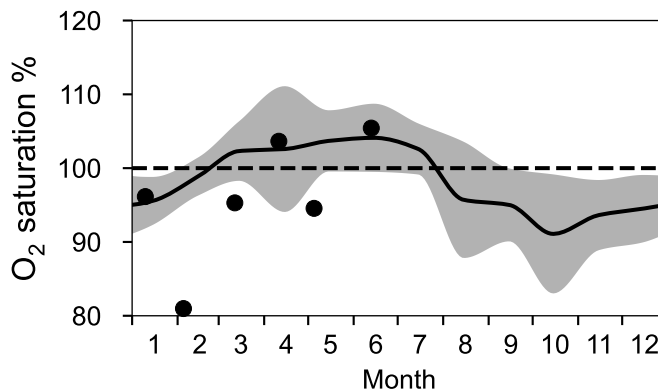
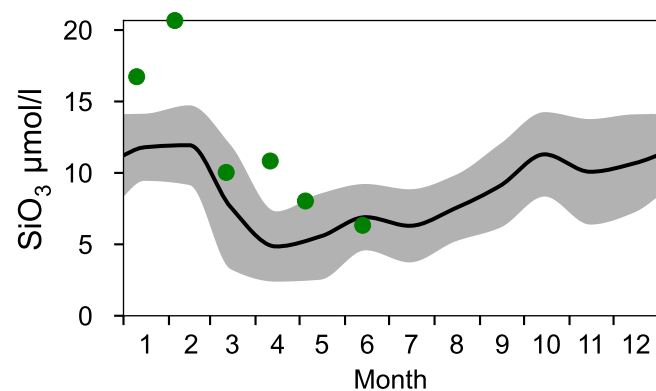
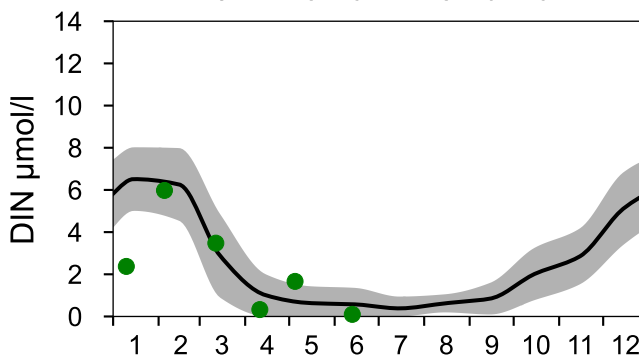
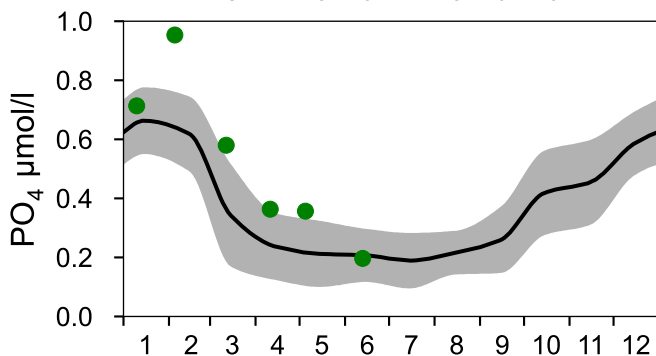
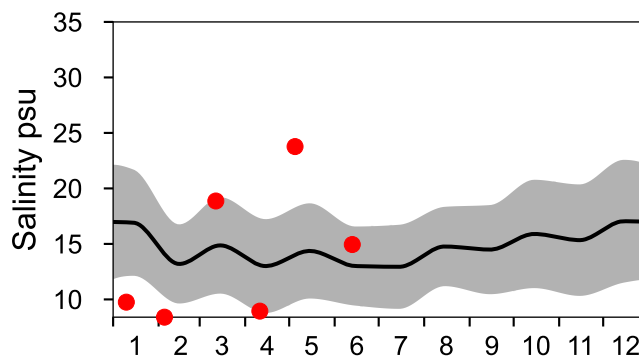
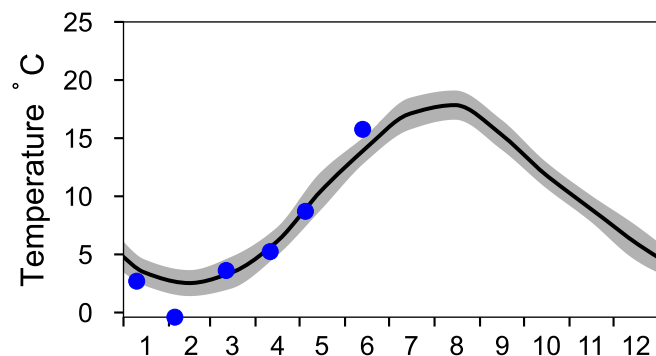
STATION W LANDSKRONA SURFACE WATER (0-10 m)

Annual Cycles

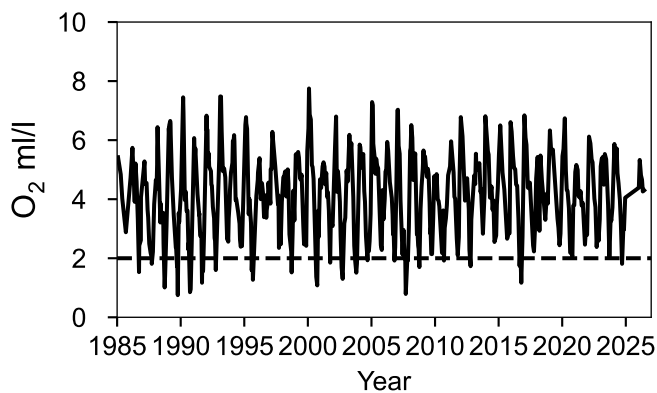
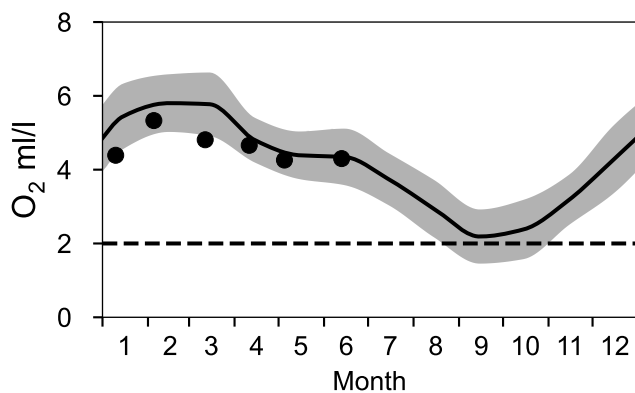
— Mean 1991-2020

■ St.Dev.

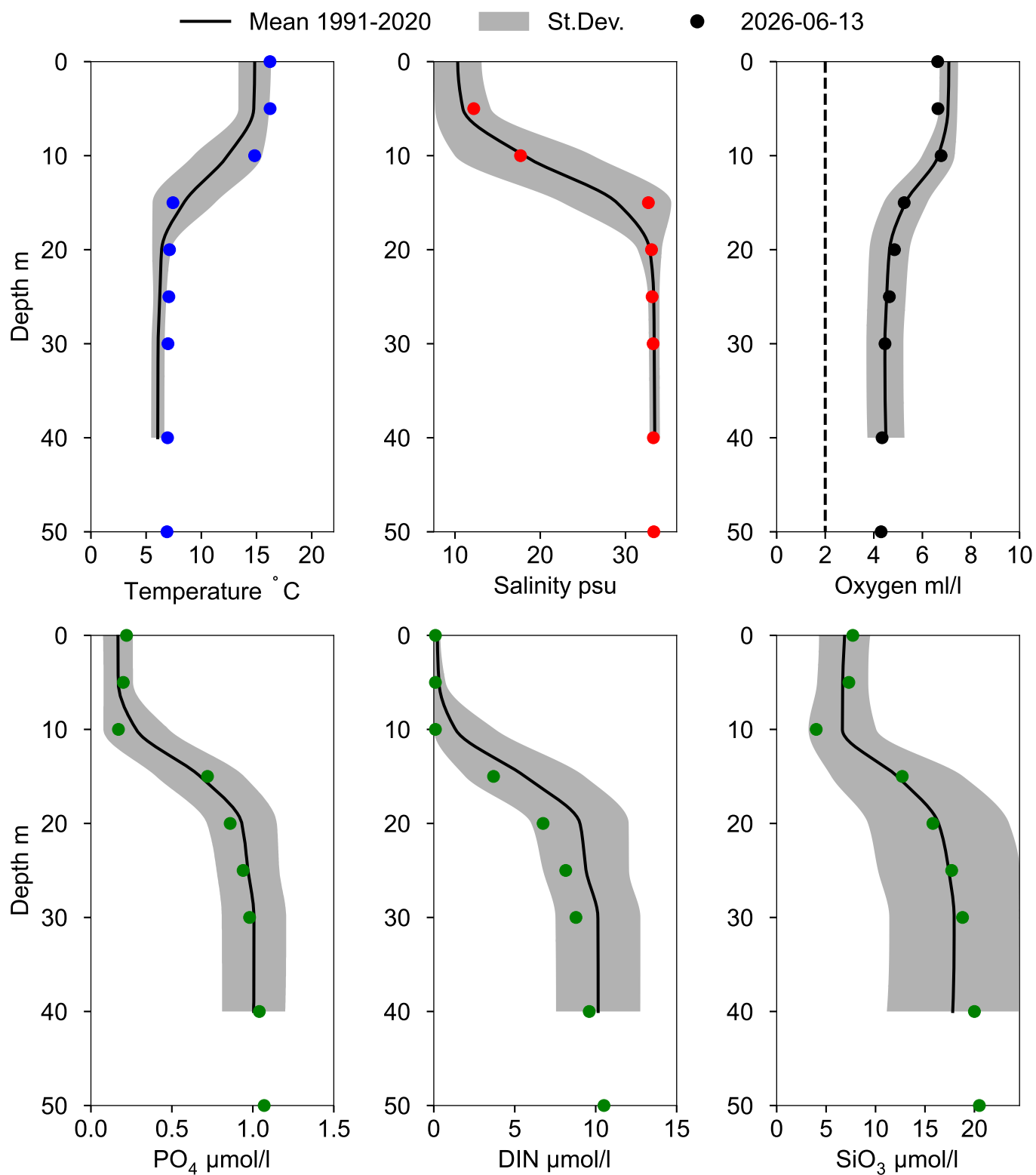
● 2026



OXYGEN IN BOTTOM WATER (depth >= 40 m)



Vertical profiles W LANDSKRONA June



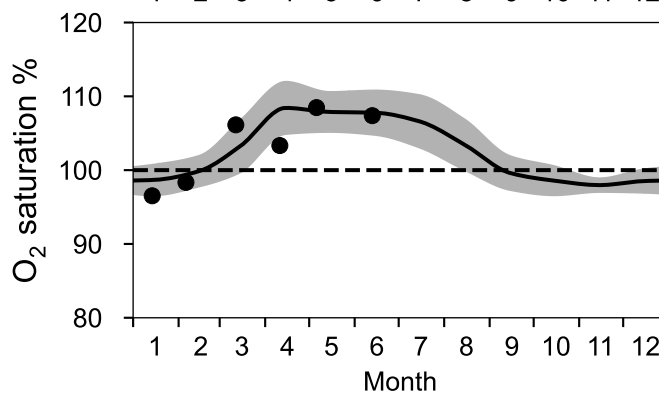
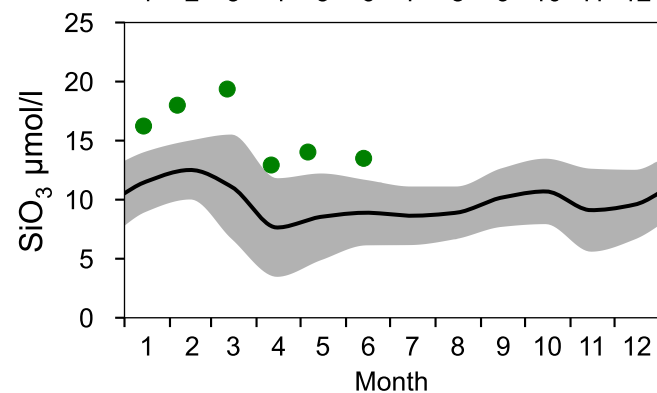
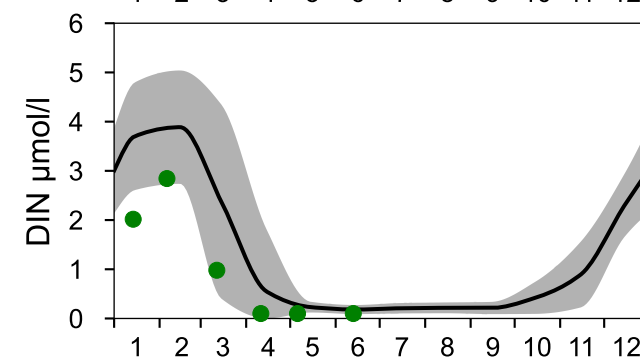
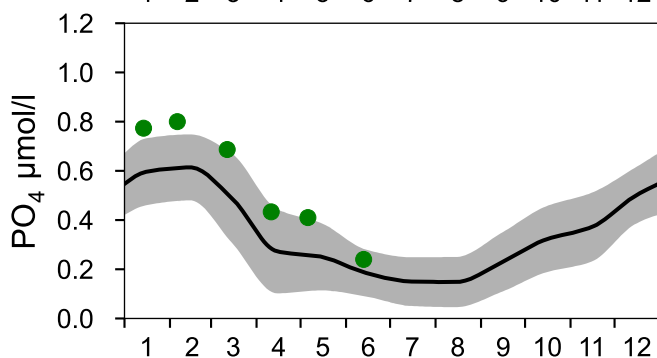
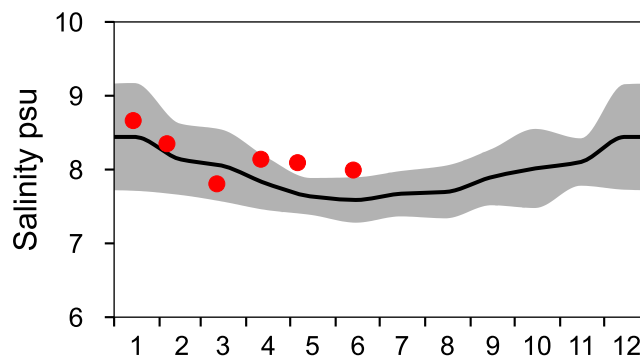
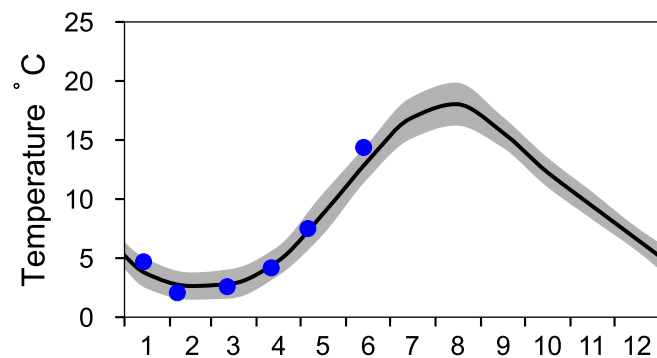
STATION BY1 SURFACE WATER (0-10 m)

Annual Cycles

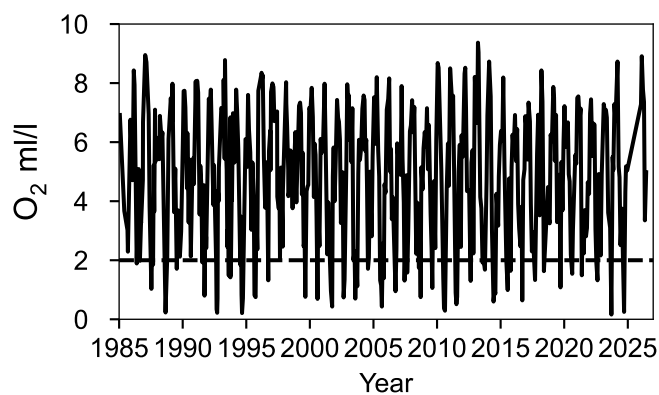
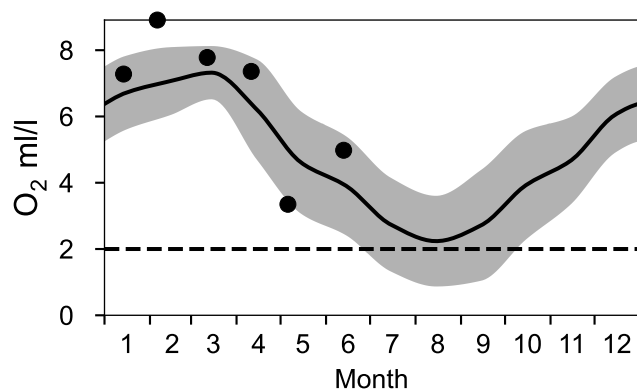
— Mean 1991-2020

■ St.Dev.

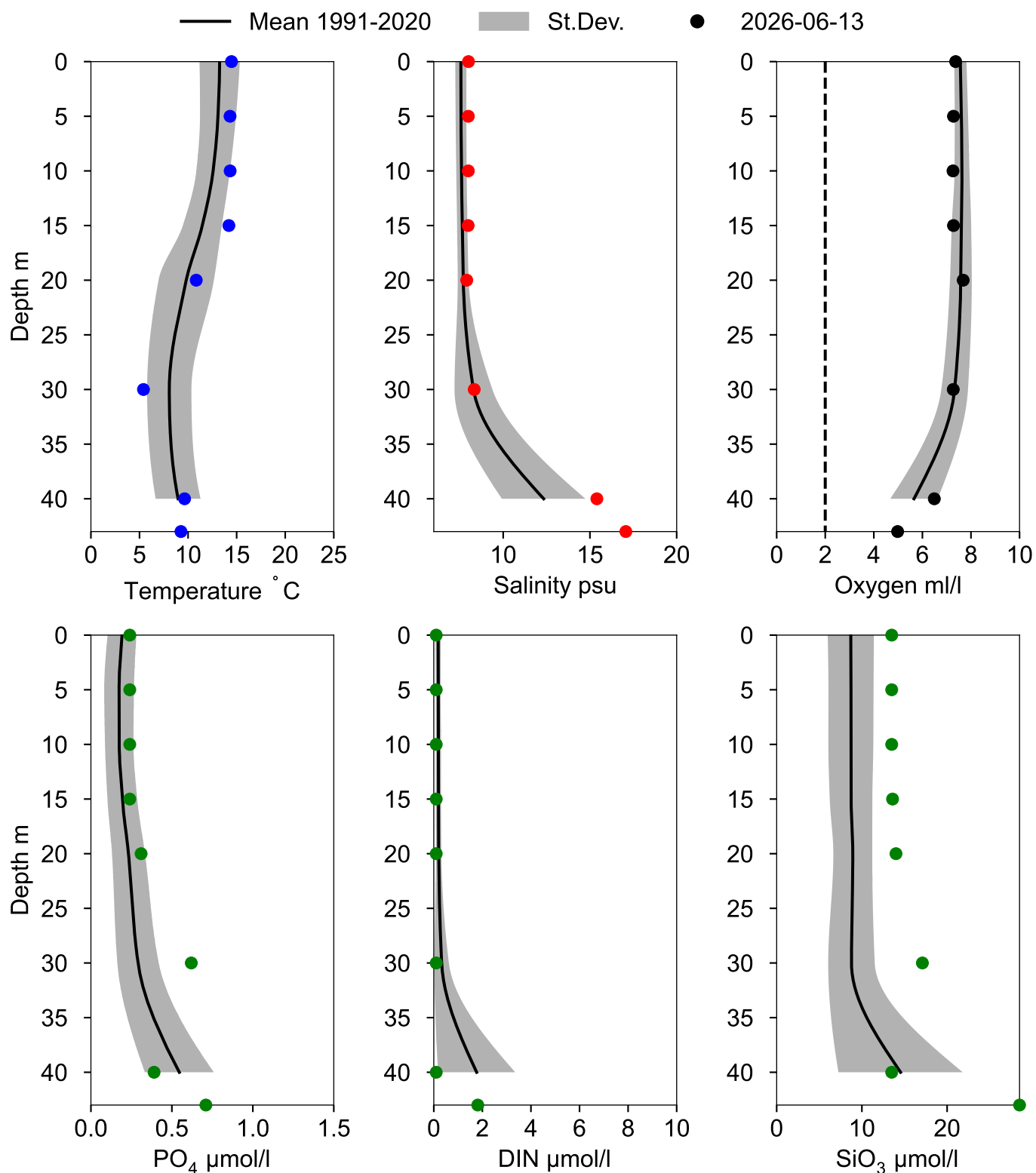
● 2026



OXYGEN IN BOTTOM WATER (depth >= 39 m)



Vertical profiles BY1 June



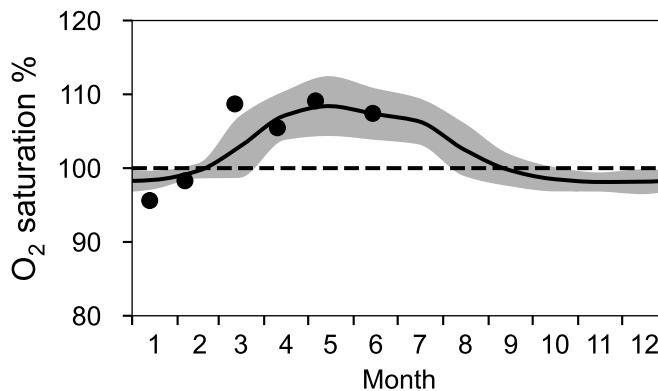
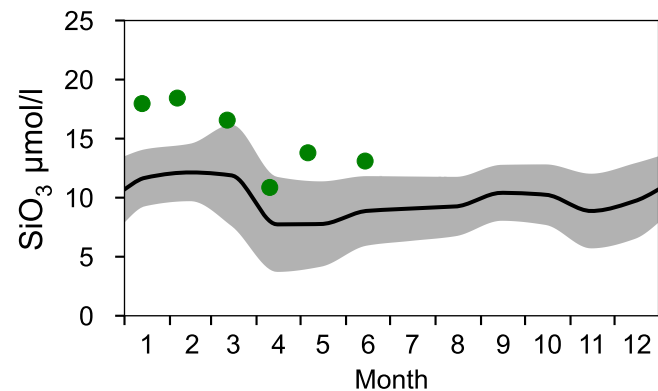
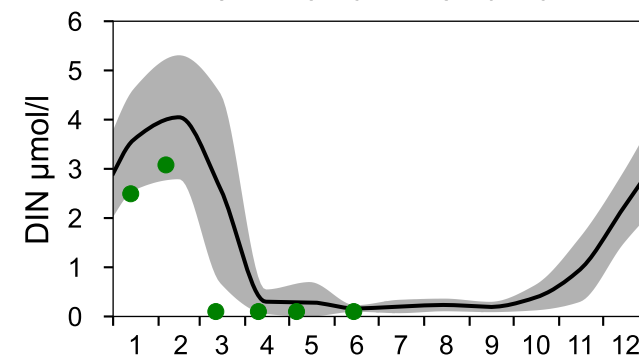
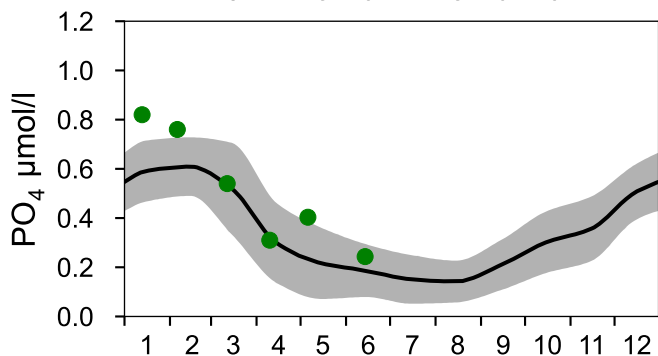
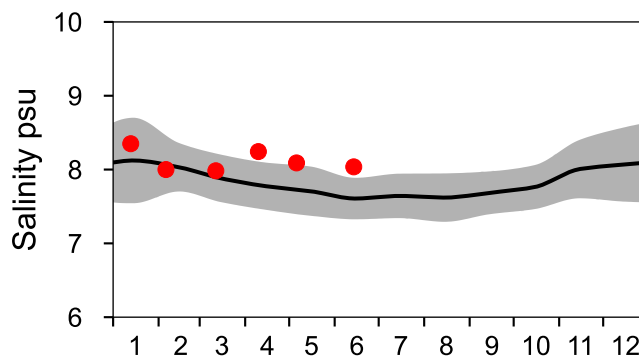
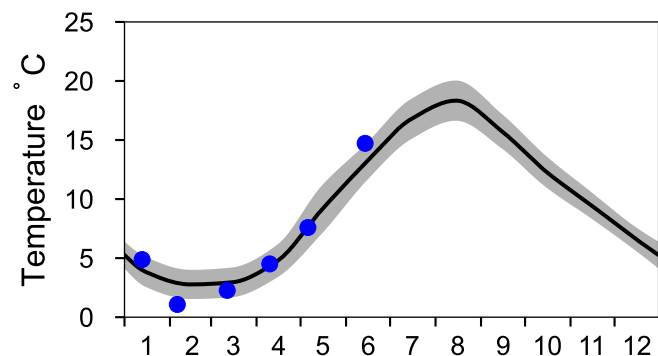
STATION BY2 ARKONA SURFACE WATER (0-10 m)

Annual Cycles

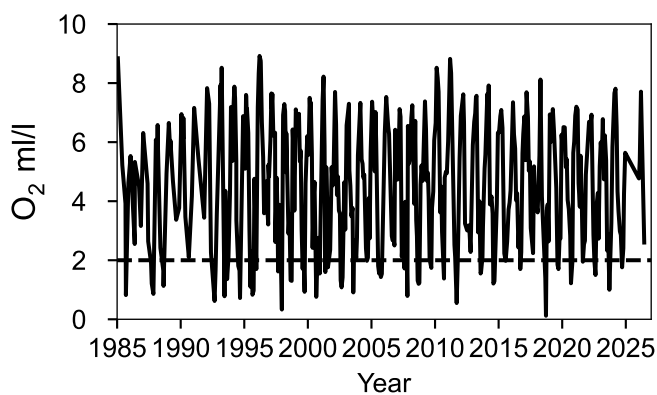
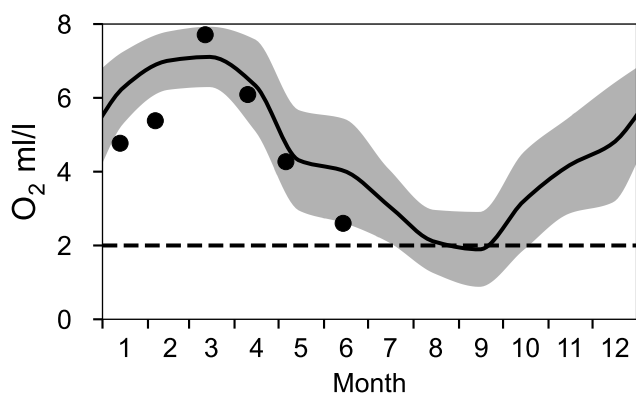
— Mean 1991-2020

■ St.Dev.

● 2026

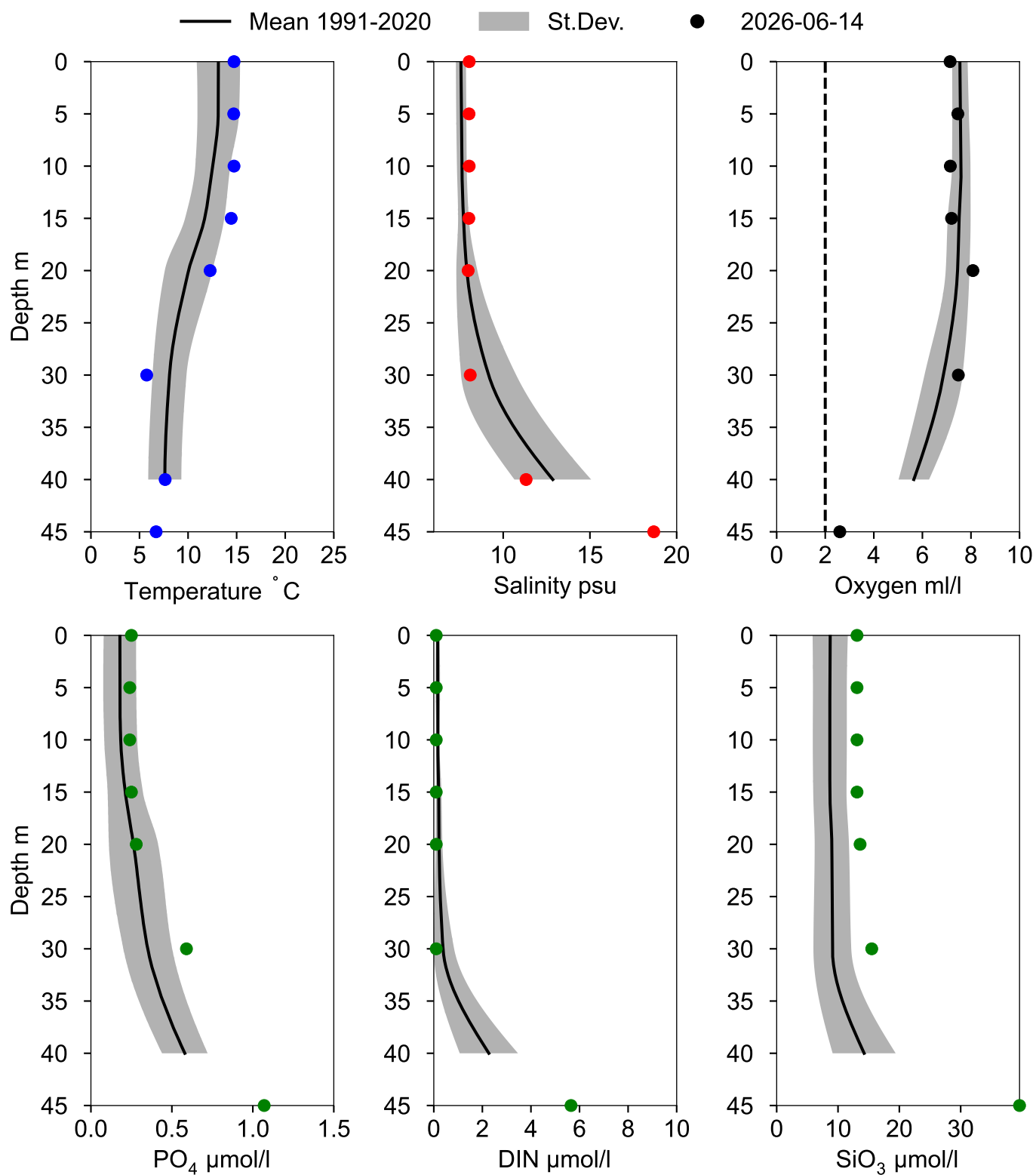


OXYGEN IN BOTTOM WATER (depth >= 40 m)



Vertical profiles BY2 ARKONA

June



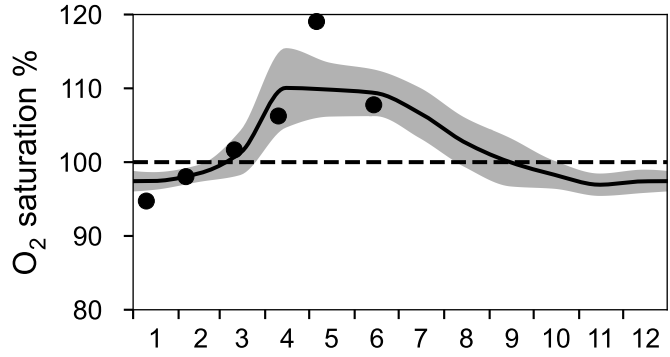
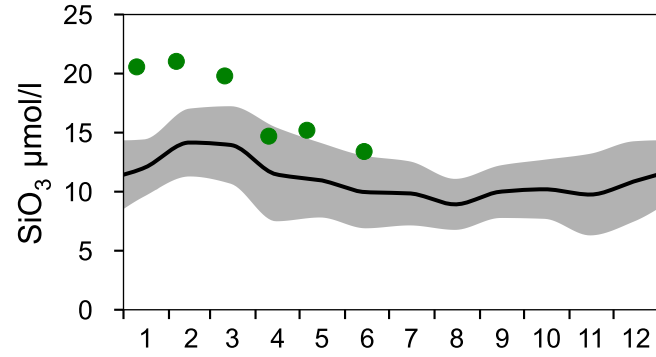
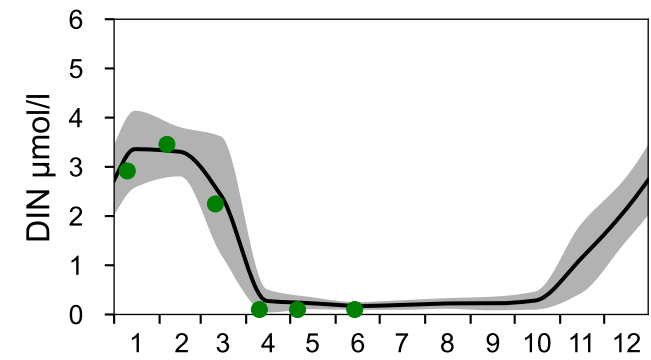
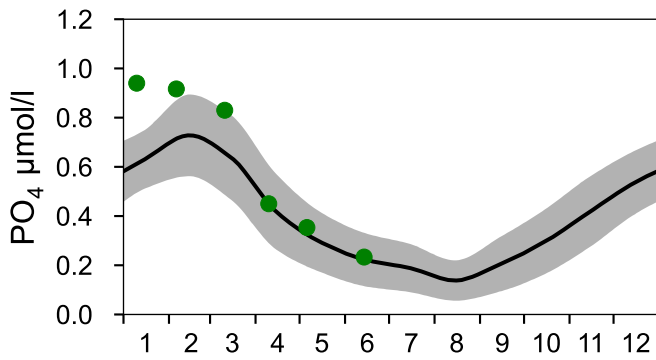
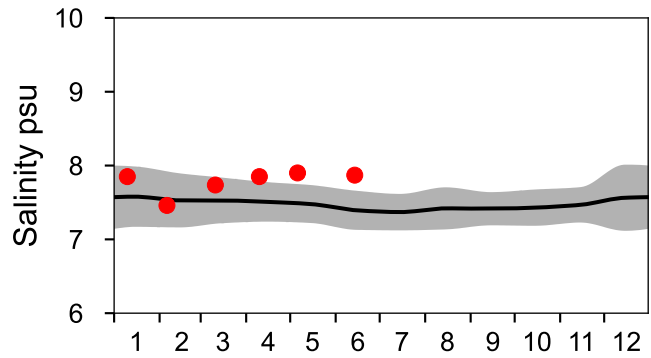
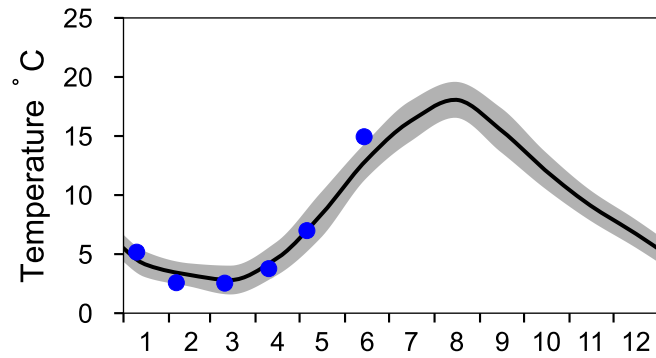
STATION HANÖBUKTEN SURFACE WATER (0-10 m)

Annual Cycles

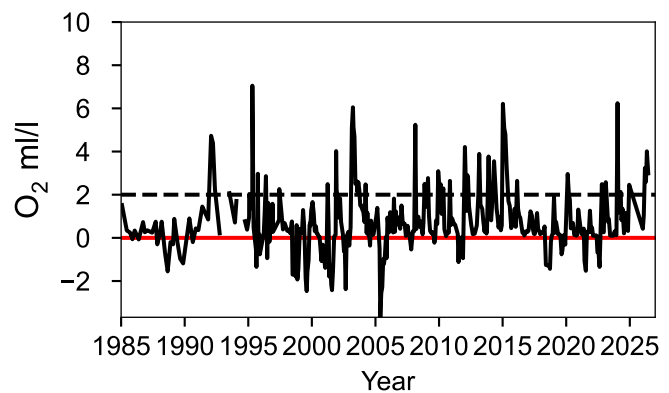
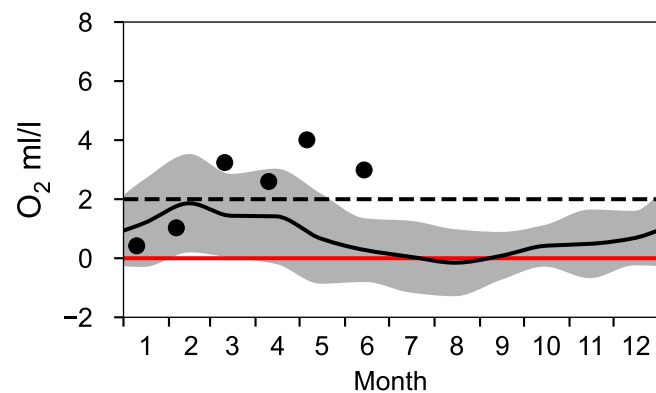
— Mean 1991-2020

■ St.Dev.

● 2026

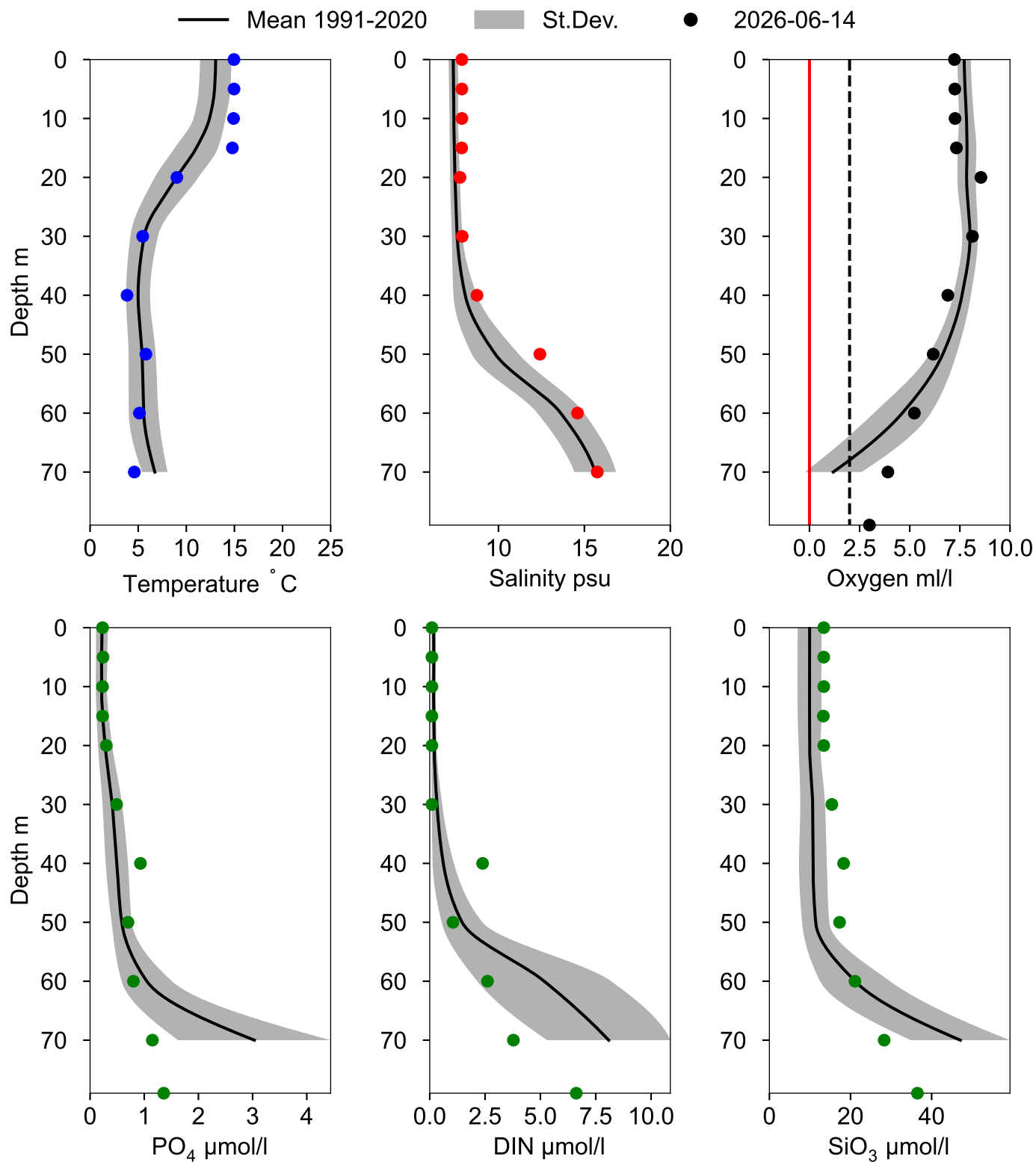


OXYGEN IN BOTTOM WATER (depth >= 70 m)



Vertical profiles HANÖBUKTEN

June



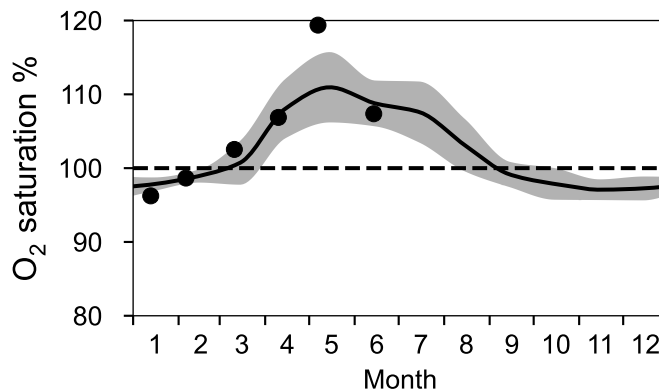
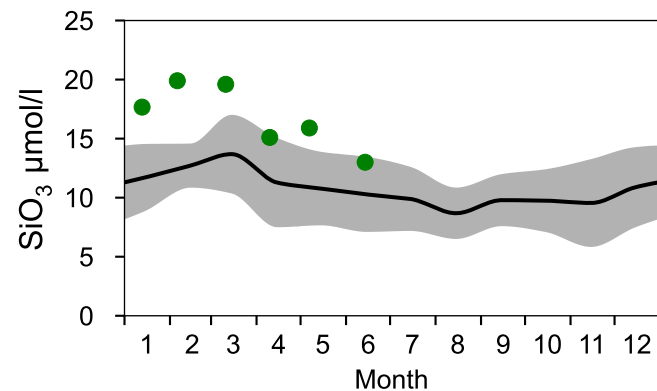
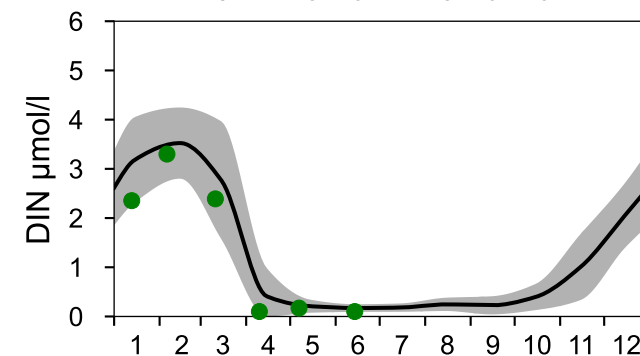
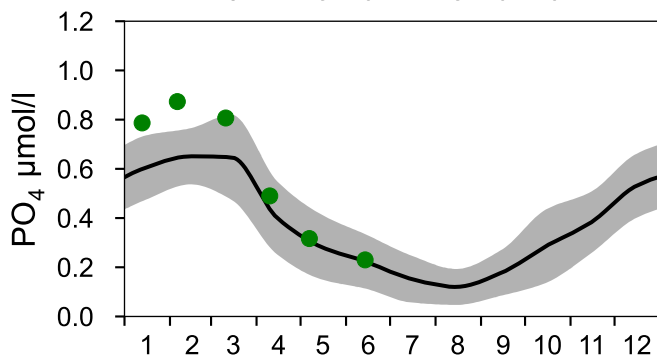
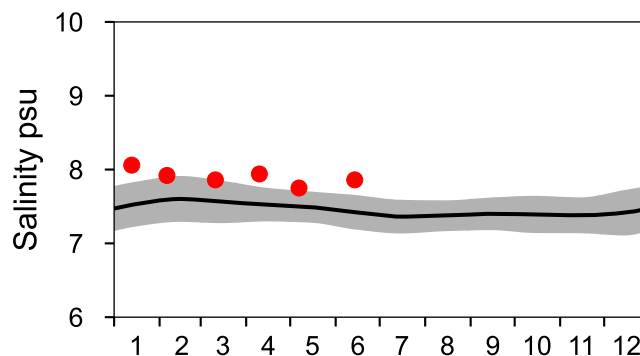
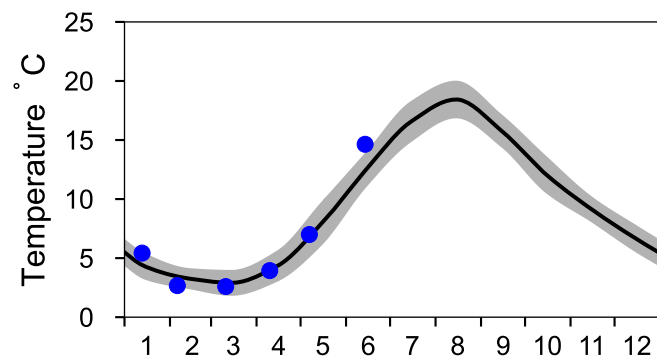
STATION BY4 CHRISTIANSÖ SURFACE WATER (0-10 m)

Annual Cycles

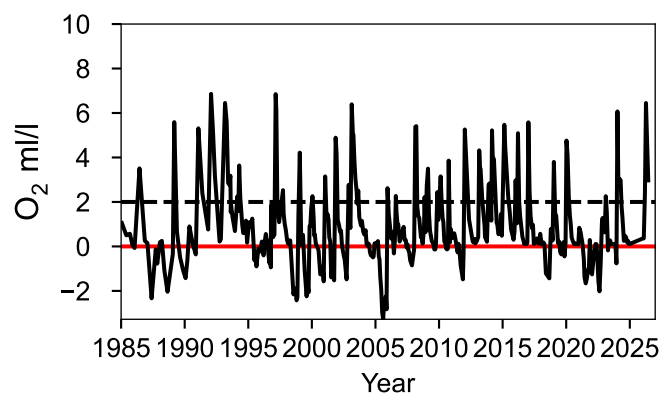
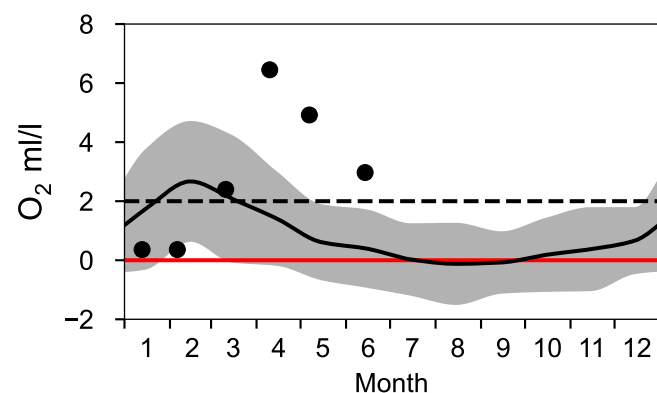
— Mean 1991-2020

■ St.Dev.

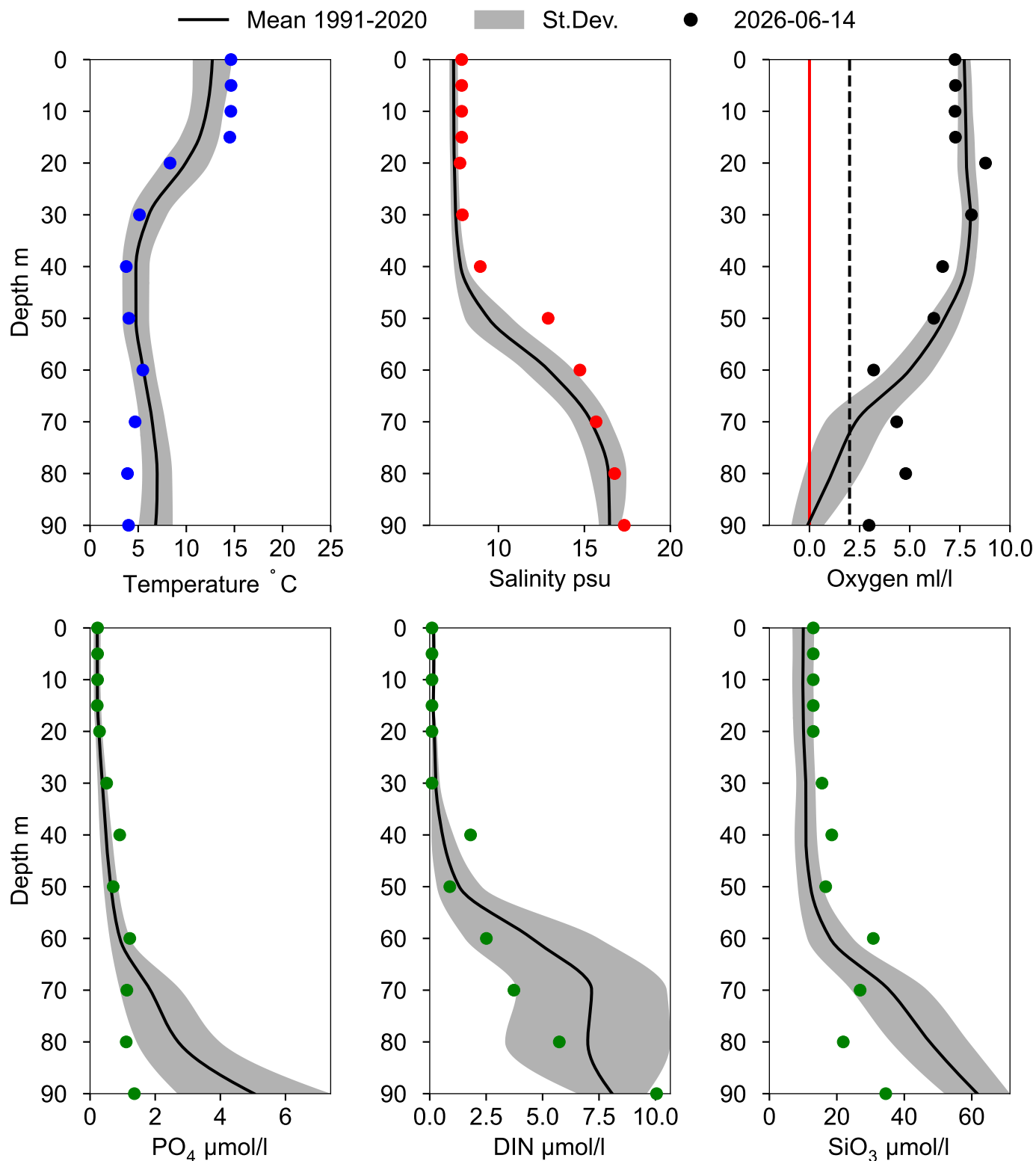
● 2026



OXYGEN IN BOTTOM WATER (depth >= 80 m)



Vertical profiles BY4 CHRISTIANSÖ June



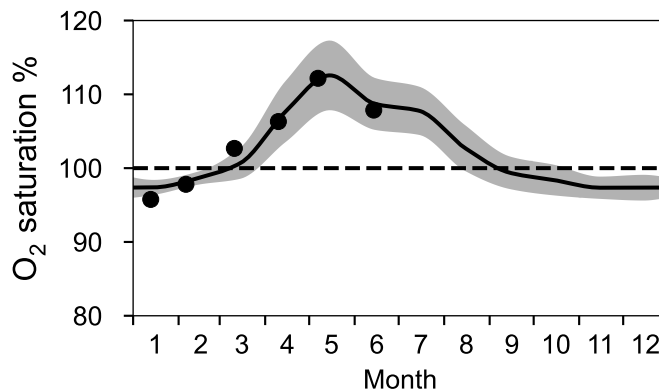
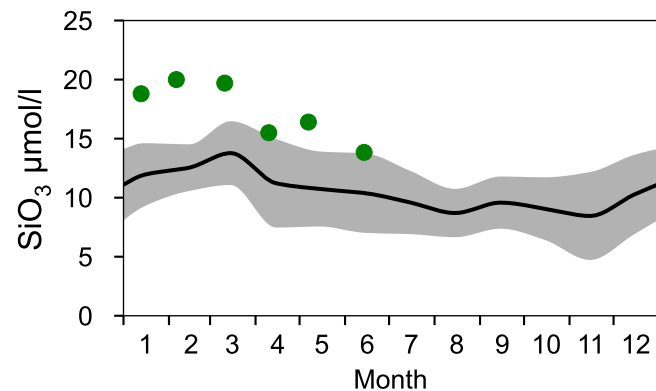
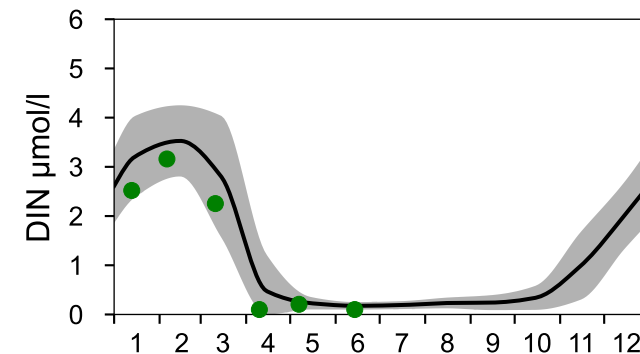
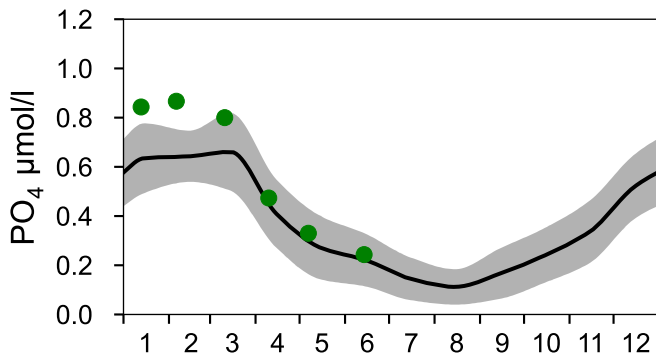
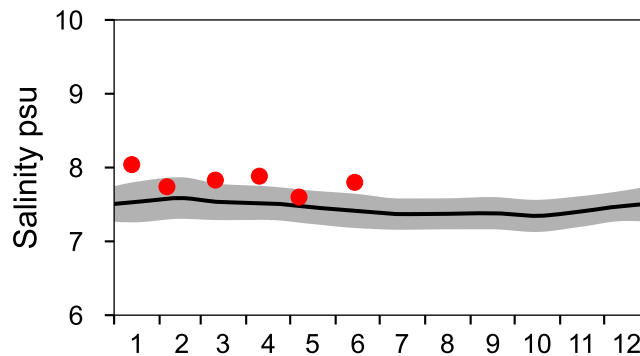
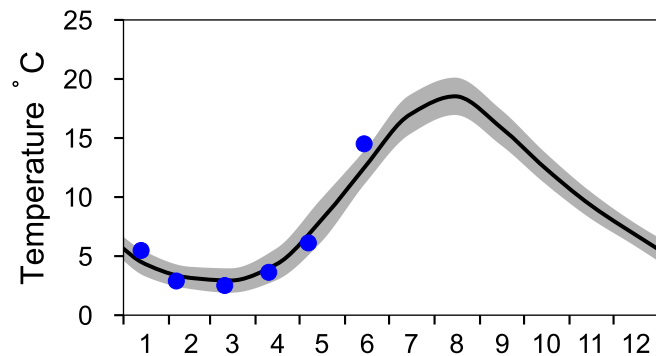
STATION BY5 BORNHOLMSDJ SURFACE WATER (0-10 m)

Annual Cycles

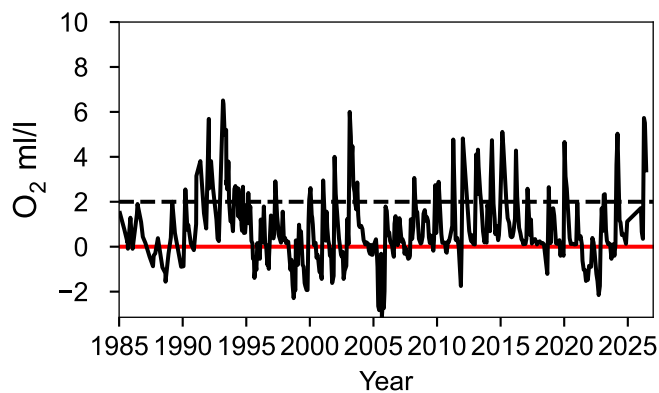
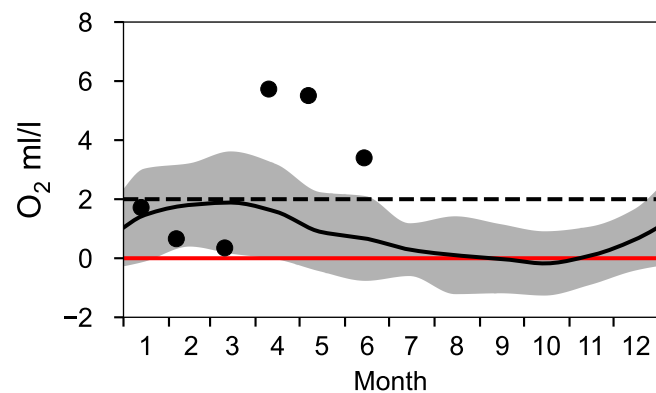
— Mean 1991-2020

■ St.Dev.

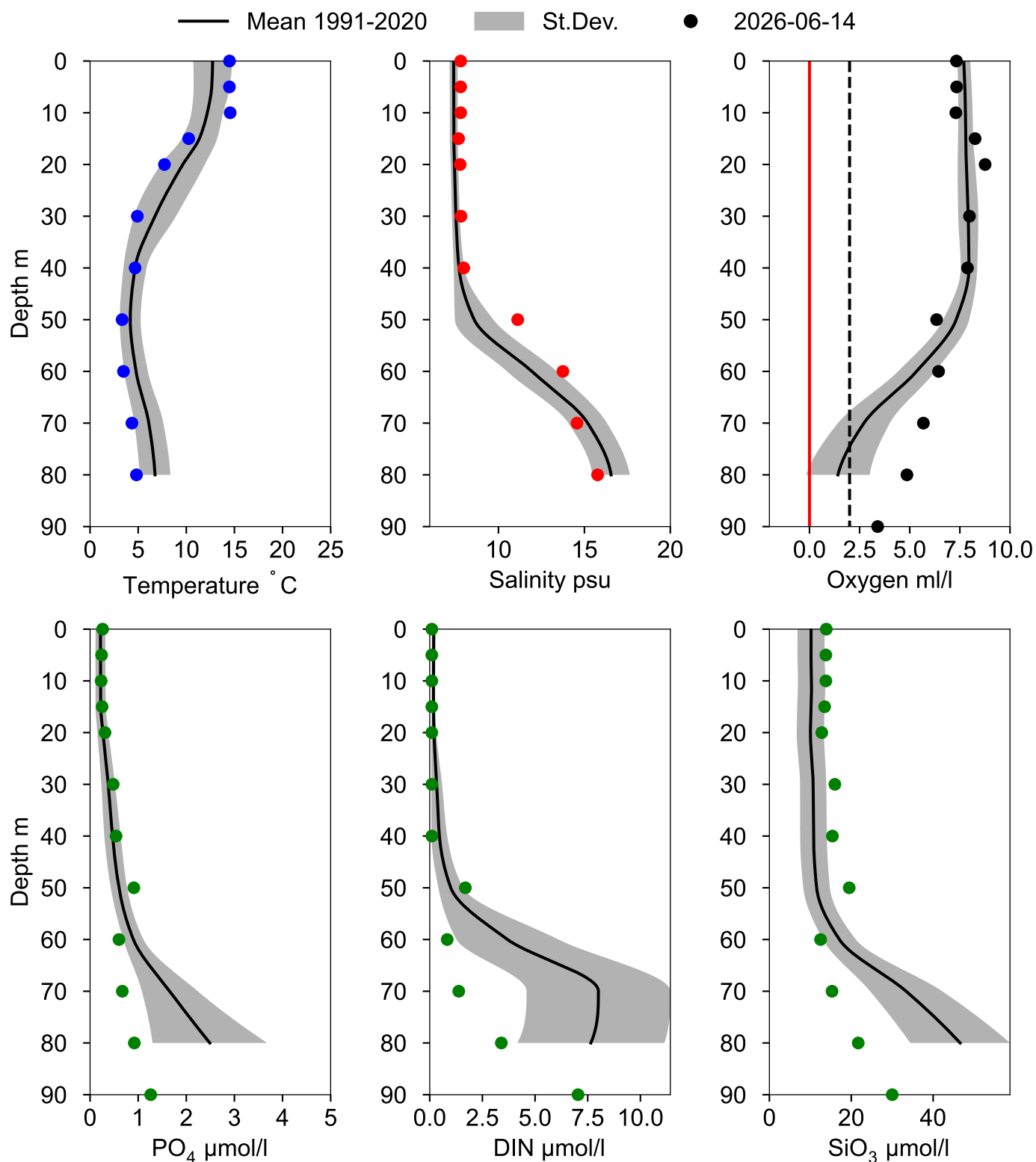
● 2026



OXYGEN IN BOTTOM WATER (depth >= 80 m)



Vertical profiles BY5 BORNHOLMSDJ June



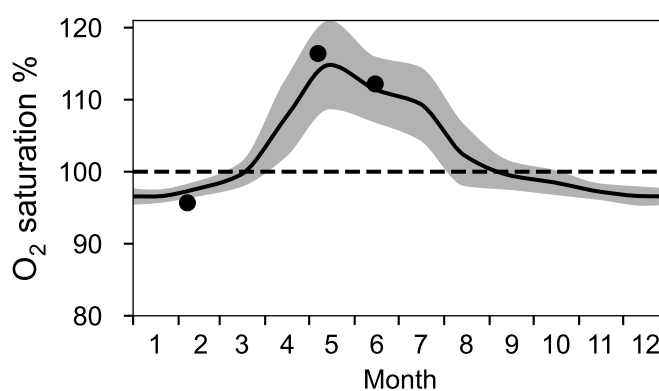
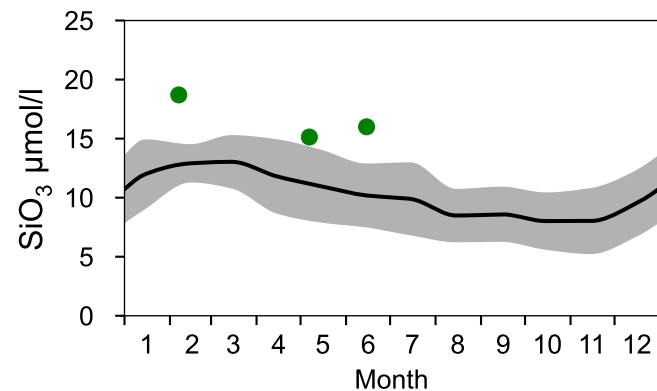
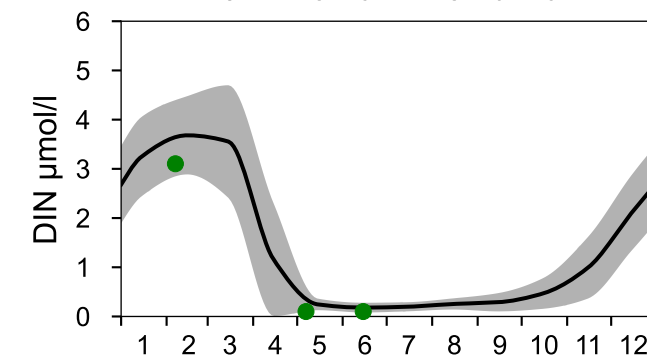
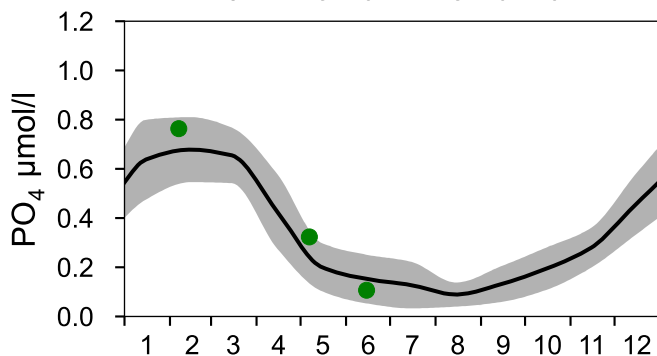
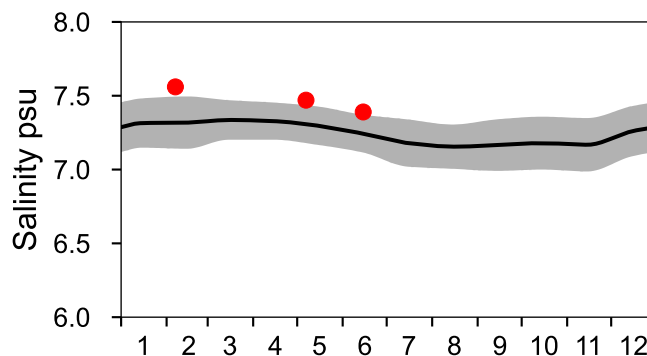
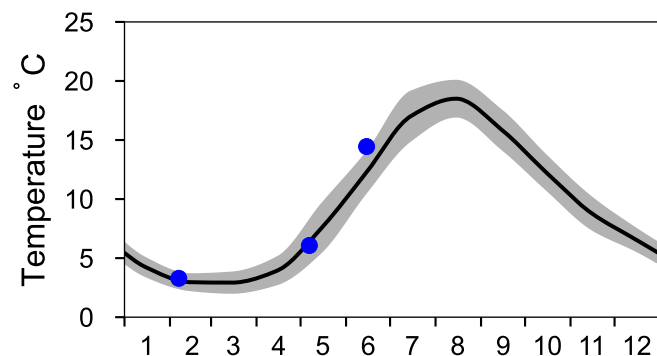
STATION BCS III-10 SURFACE WATER (0-10 m)

Annual Cycles

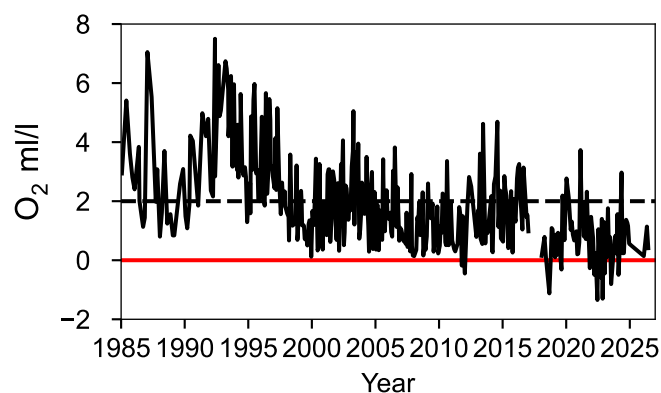
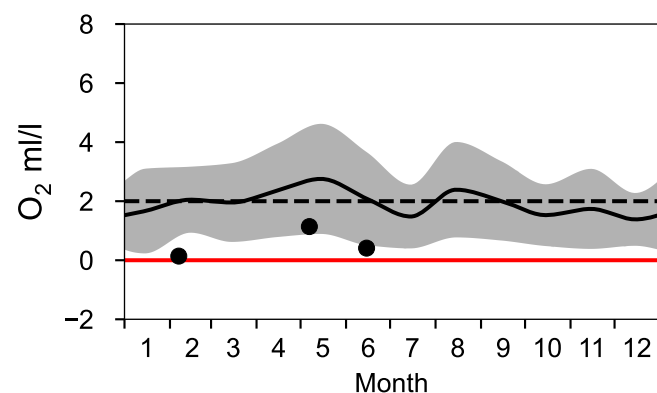
— Mean 1991-2020

■ St.Dev.

● 2026

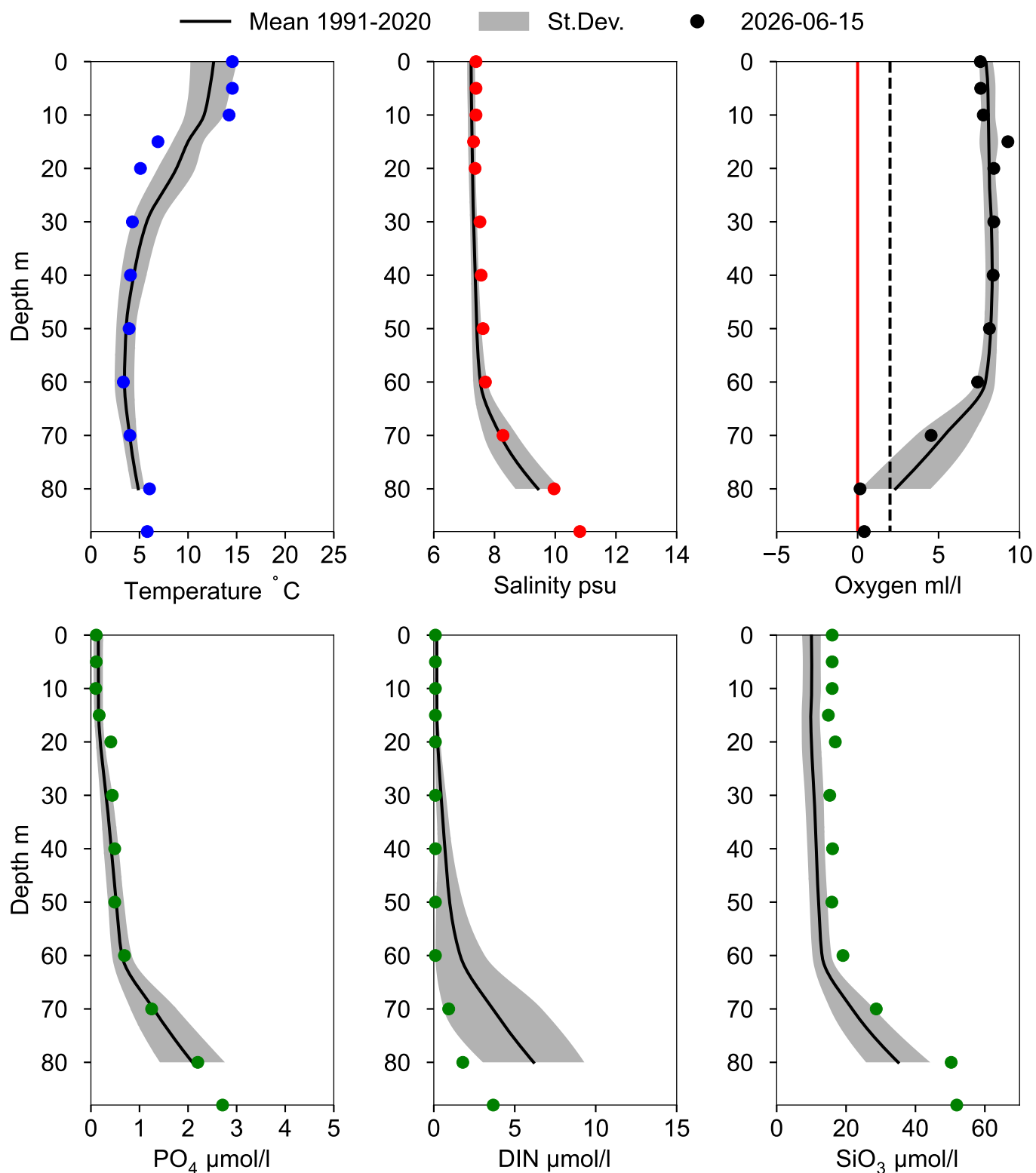


OXYGEN IN BOTTOM WATER (depth >= 80 m)



Vertical profiles BCS III-10

June



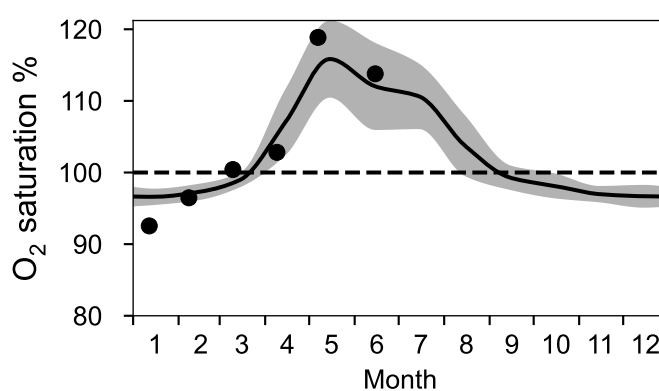
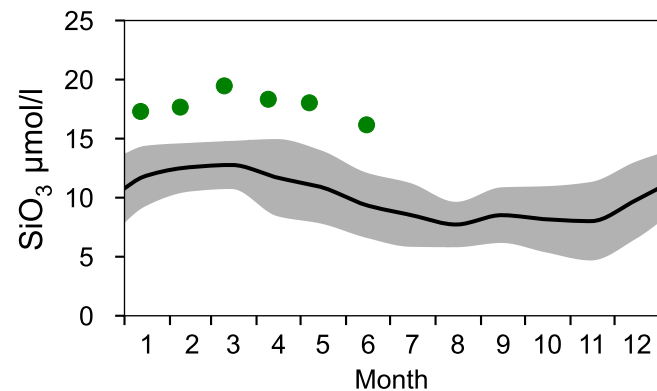
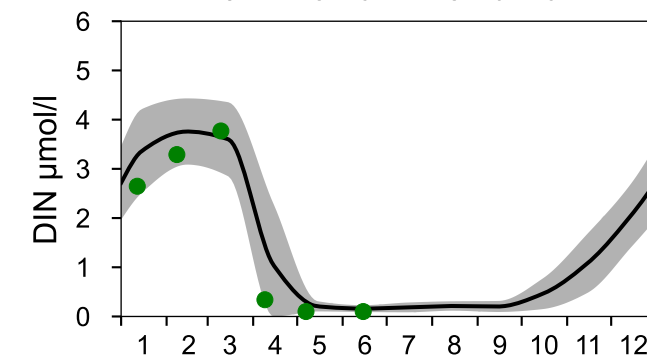
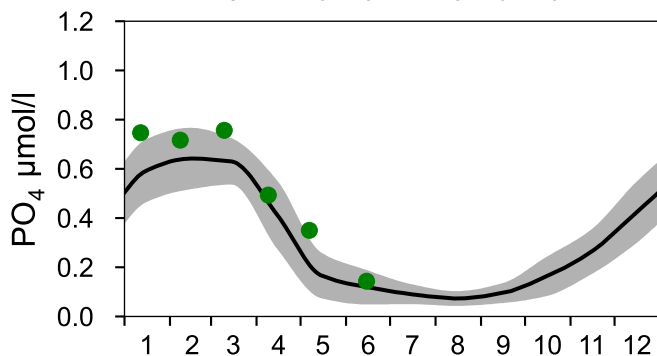
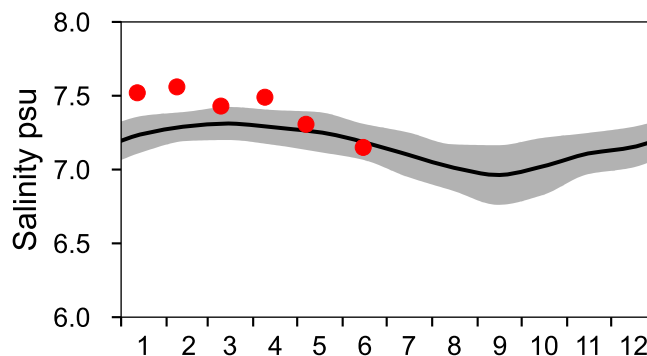
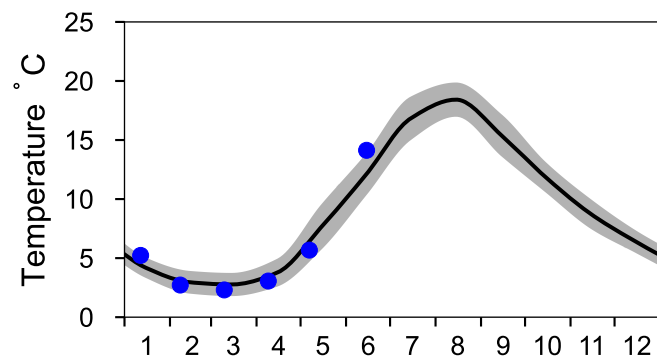
STATION BY10 SURFACE WATER (0-10 m)

Annual Cycles

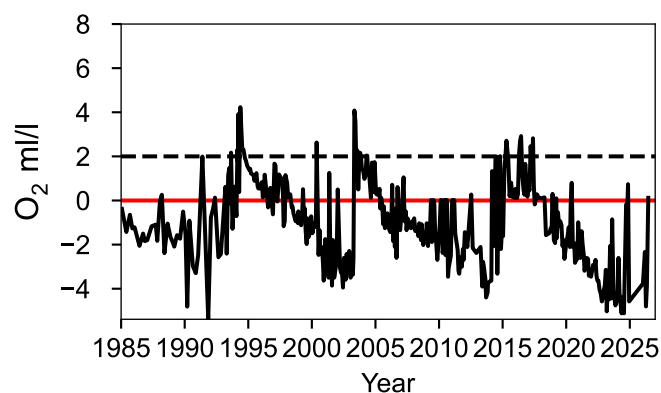
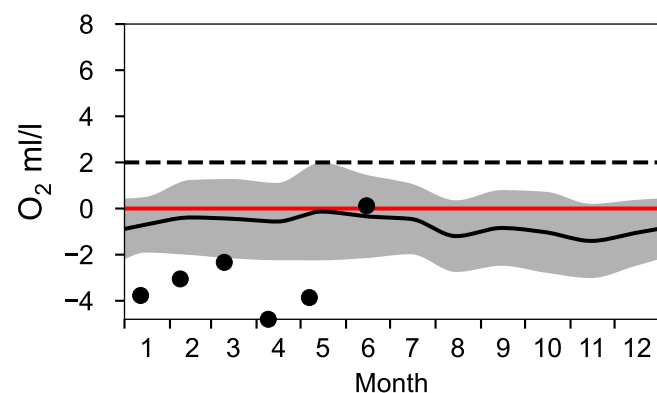
— Mean 1991-2020

■ St.Dev.

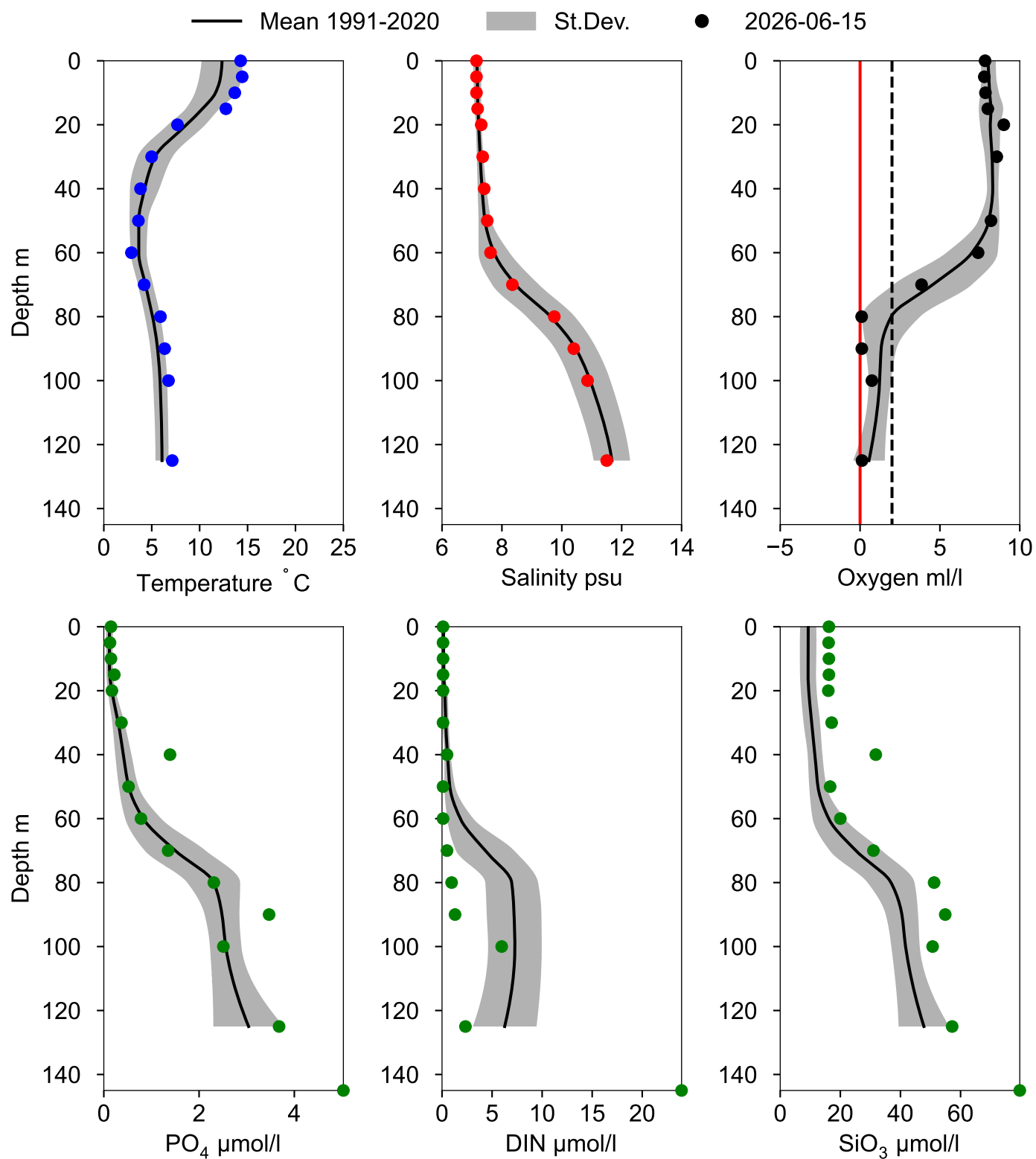
● 2026



OXYGEN IN BOTTOM WATER (depth >= 125 m)



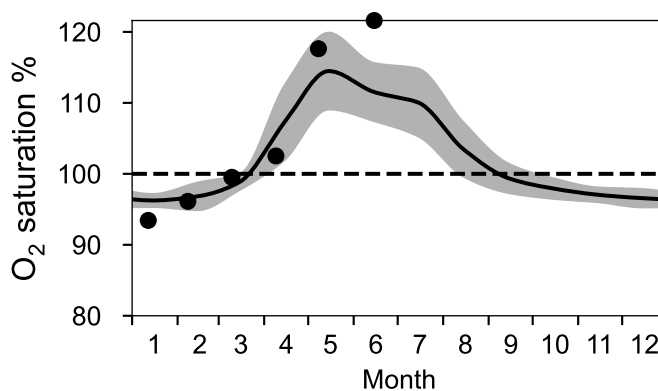
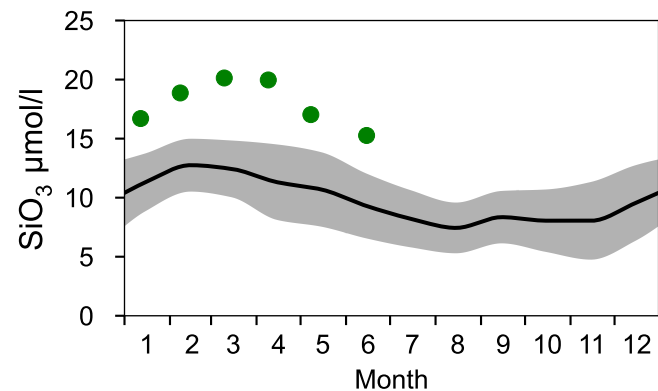
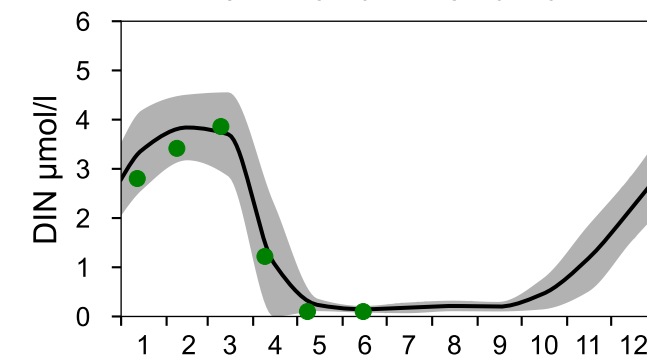
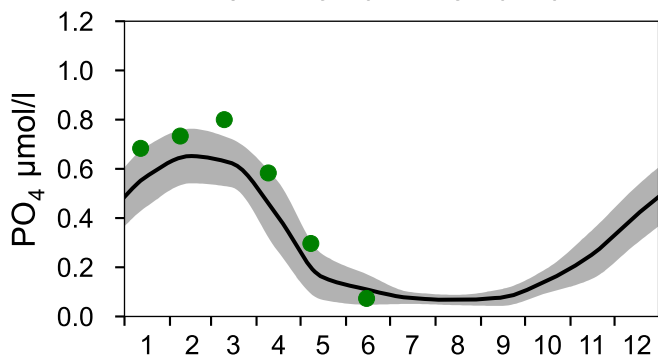
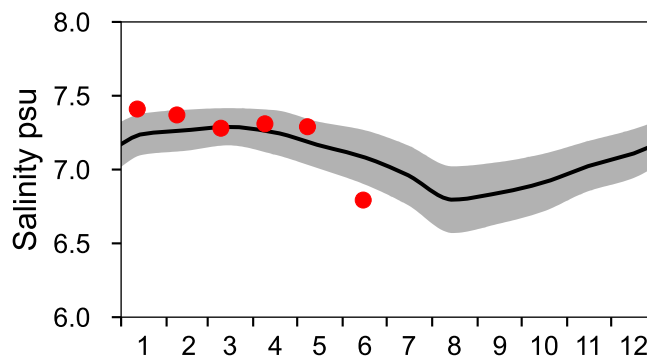
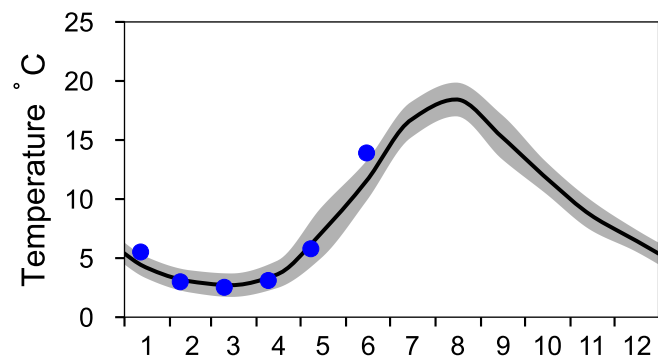
Vertical profiles BY10 June



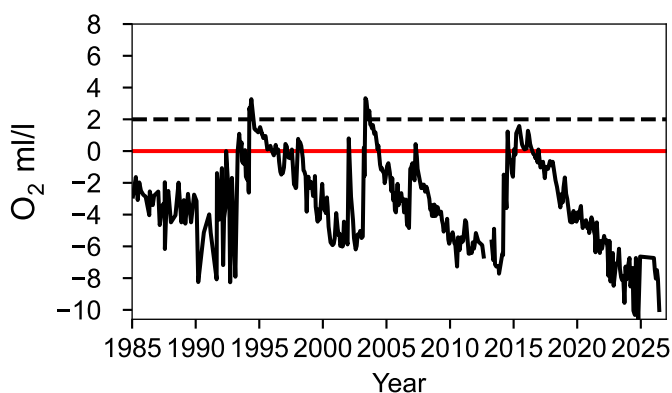
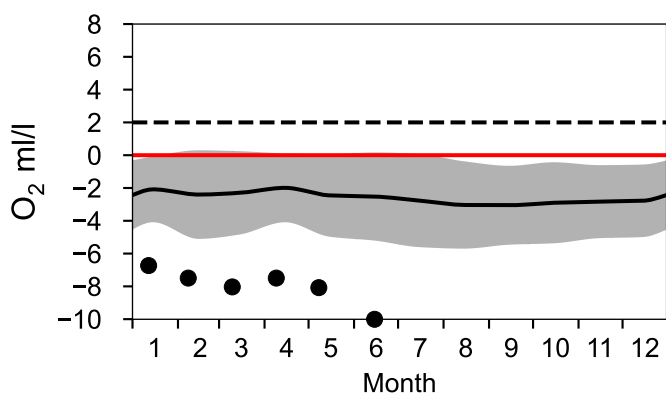
STATION BY15 GOTLANDSDJ SURFACE WATER (0-10 m)

Annual Cycles

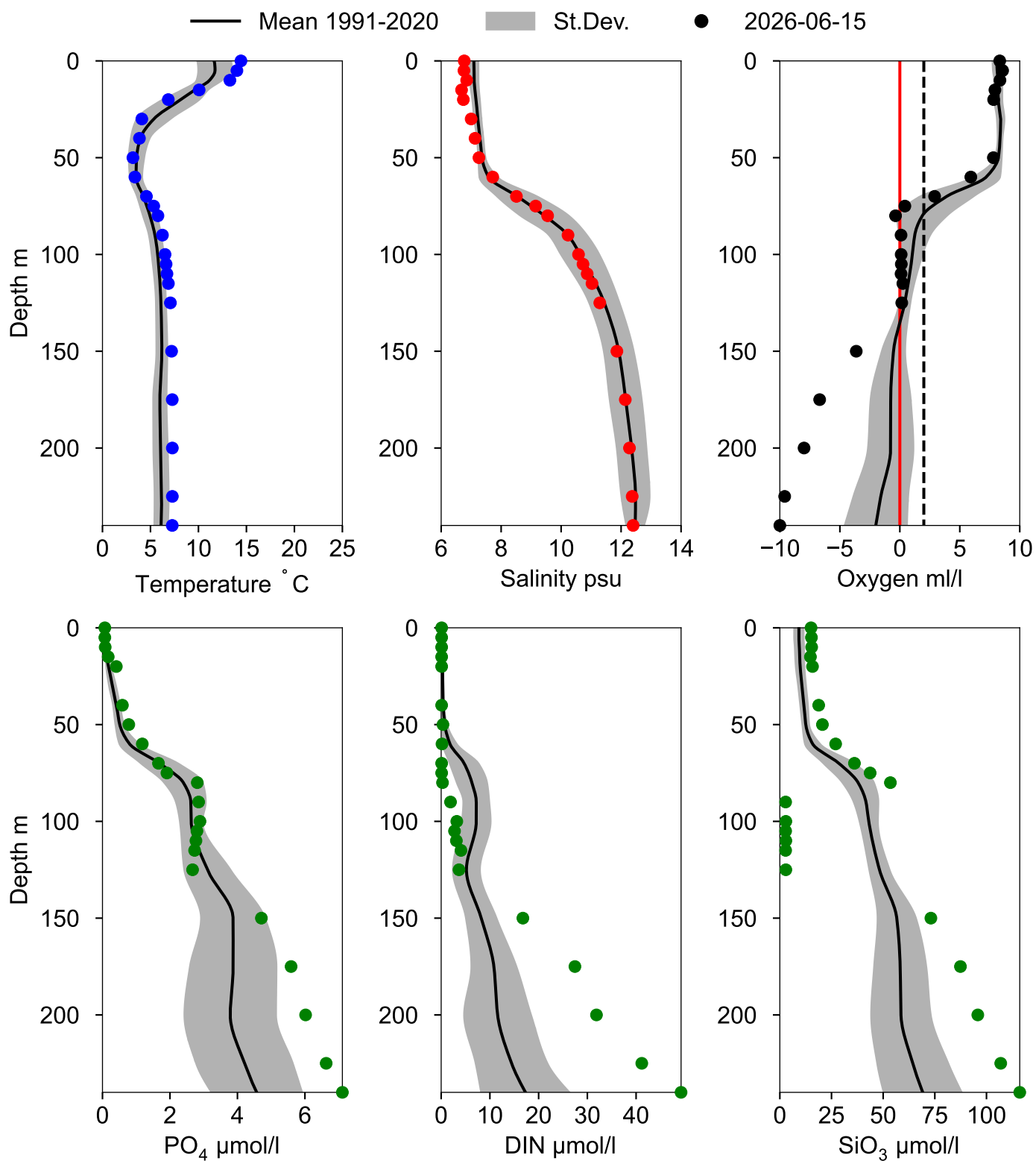
— Mean 1991-2020 St.Dev. ● 2026



OXYGEN IN BOTTOM WATER (depth >= 225 m)



Vertical profiles BY15 GOTLANDSDJ June



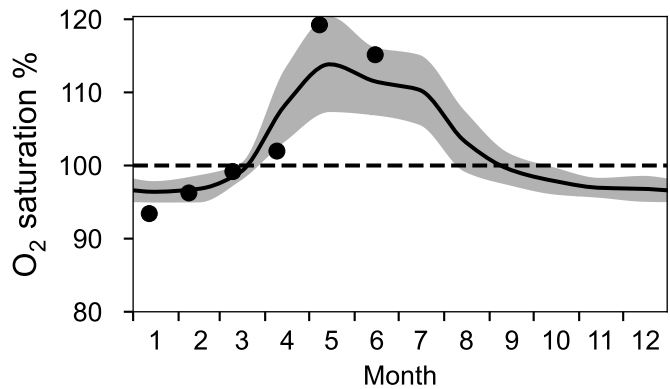
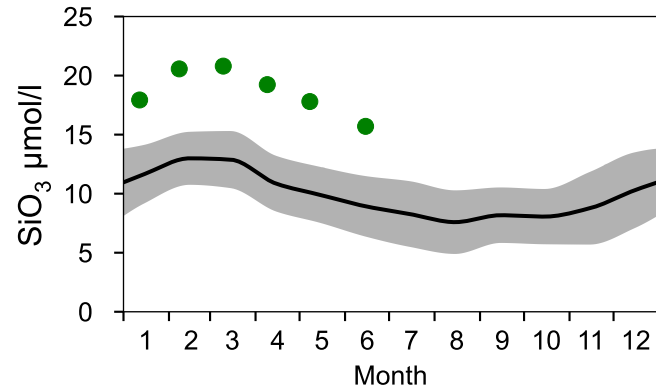
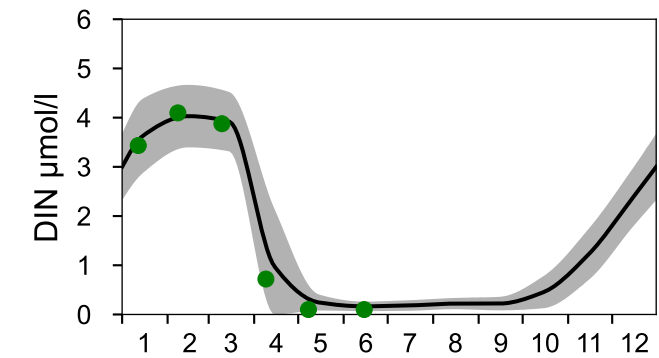
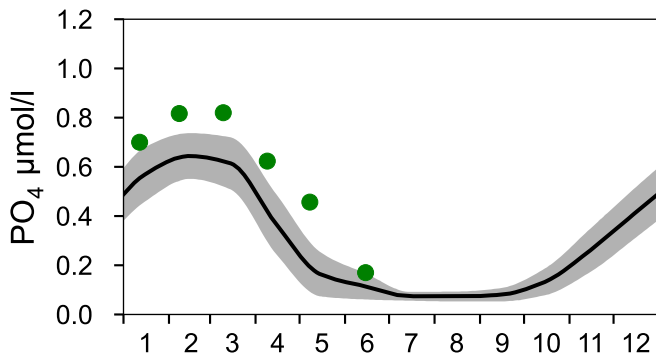
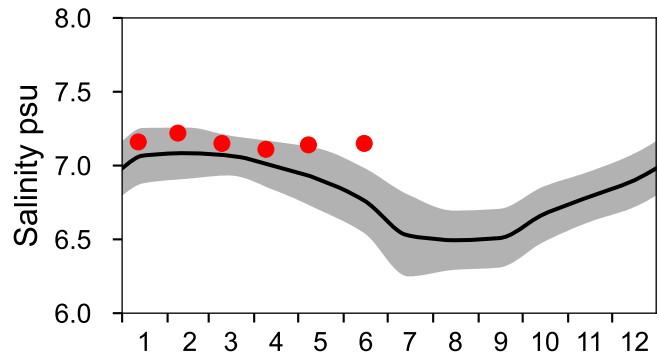
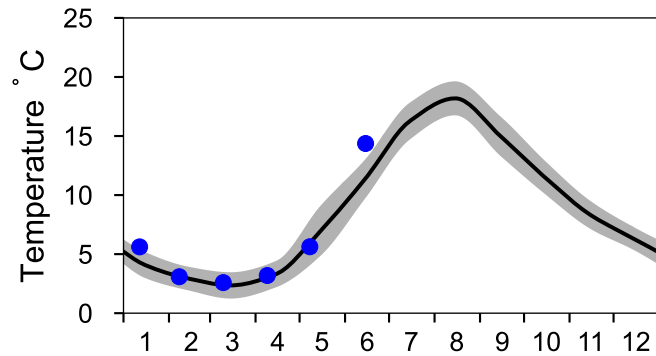
STATION BY20 FÄRÖDJ SURFACE WATER (0-10 m)

Annual Cycles

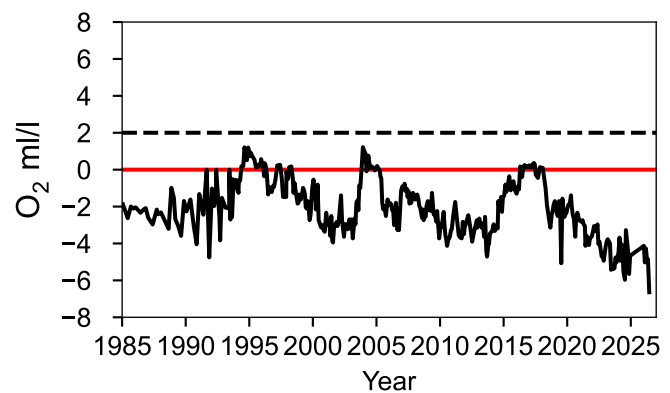
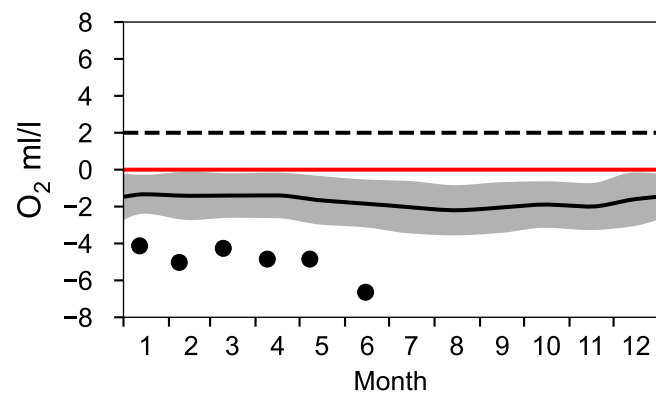
— Mean 1991-2020

■ St.Dev.

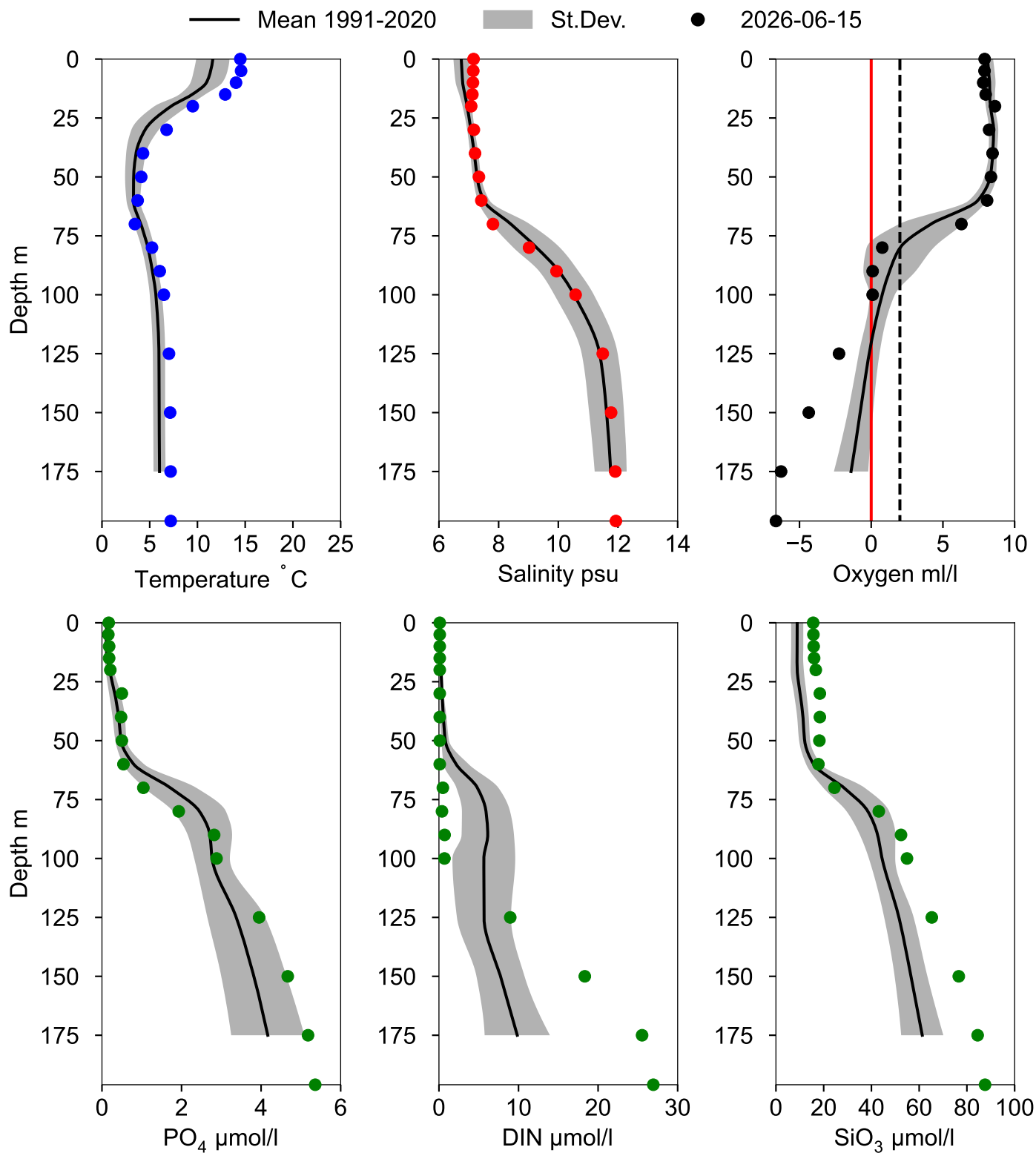
● 2026



OXYGEN IN BOTTOM WATER (depth >= 175 m)



Vertical profiles BY20 FÅRÖDJ June



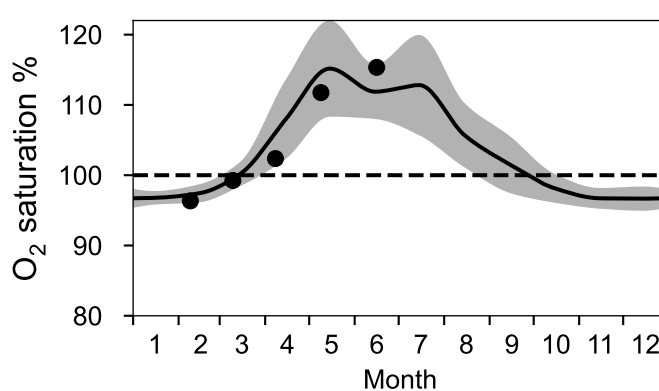
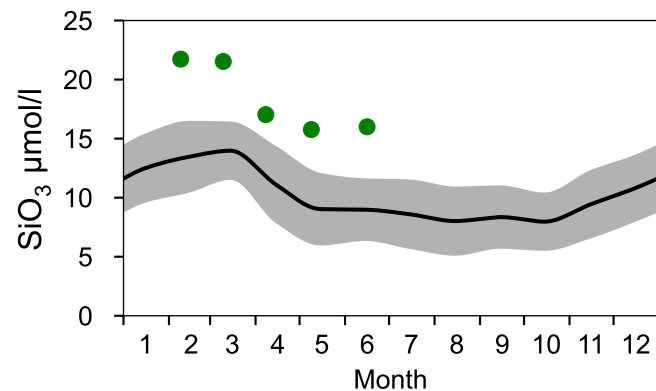
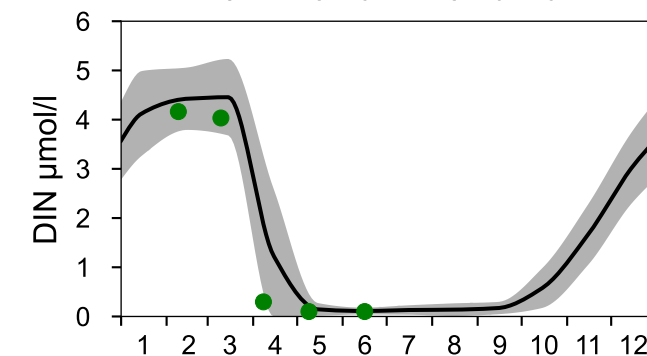
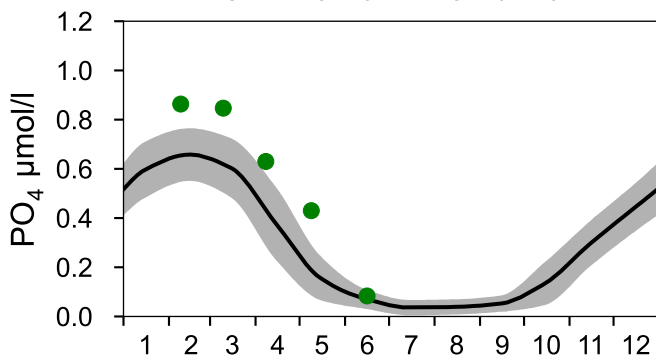
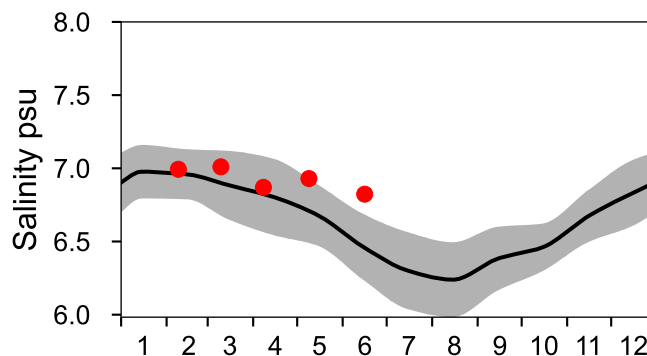
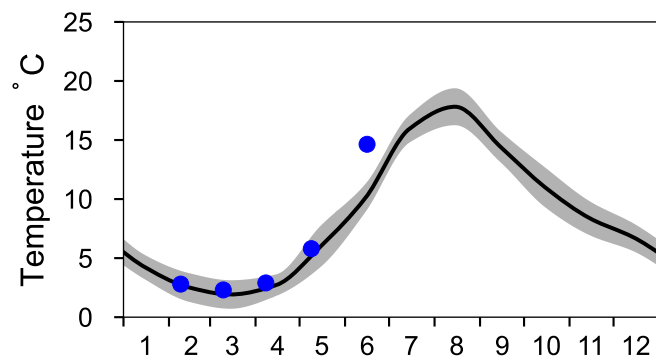
STATION BY29 / LL19 SURFACE WATER (0-10 m)

Annual Cycles

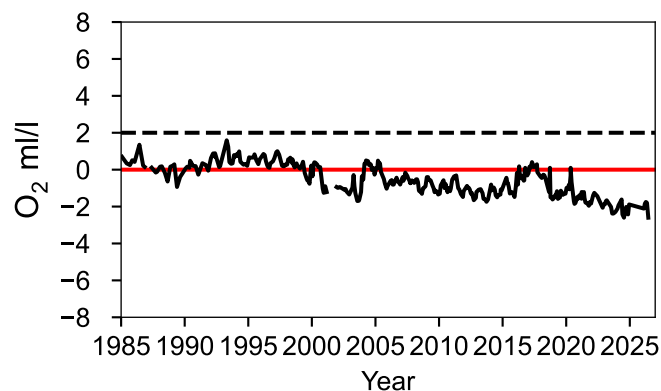
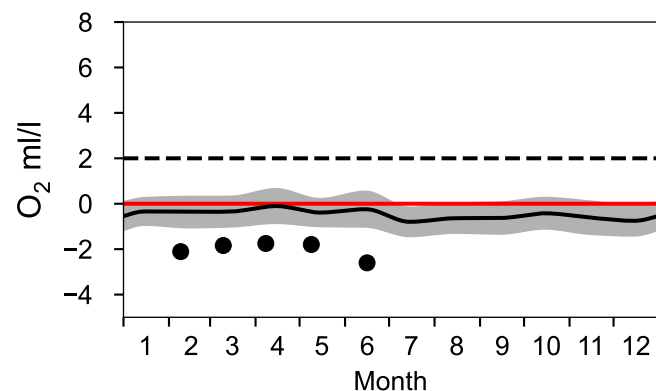
— Mean 1991-2020

■ St.Dev.

● 2026

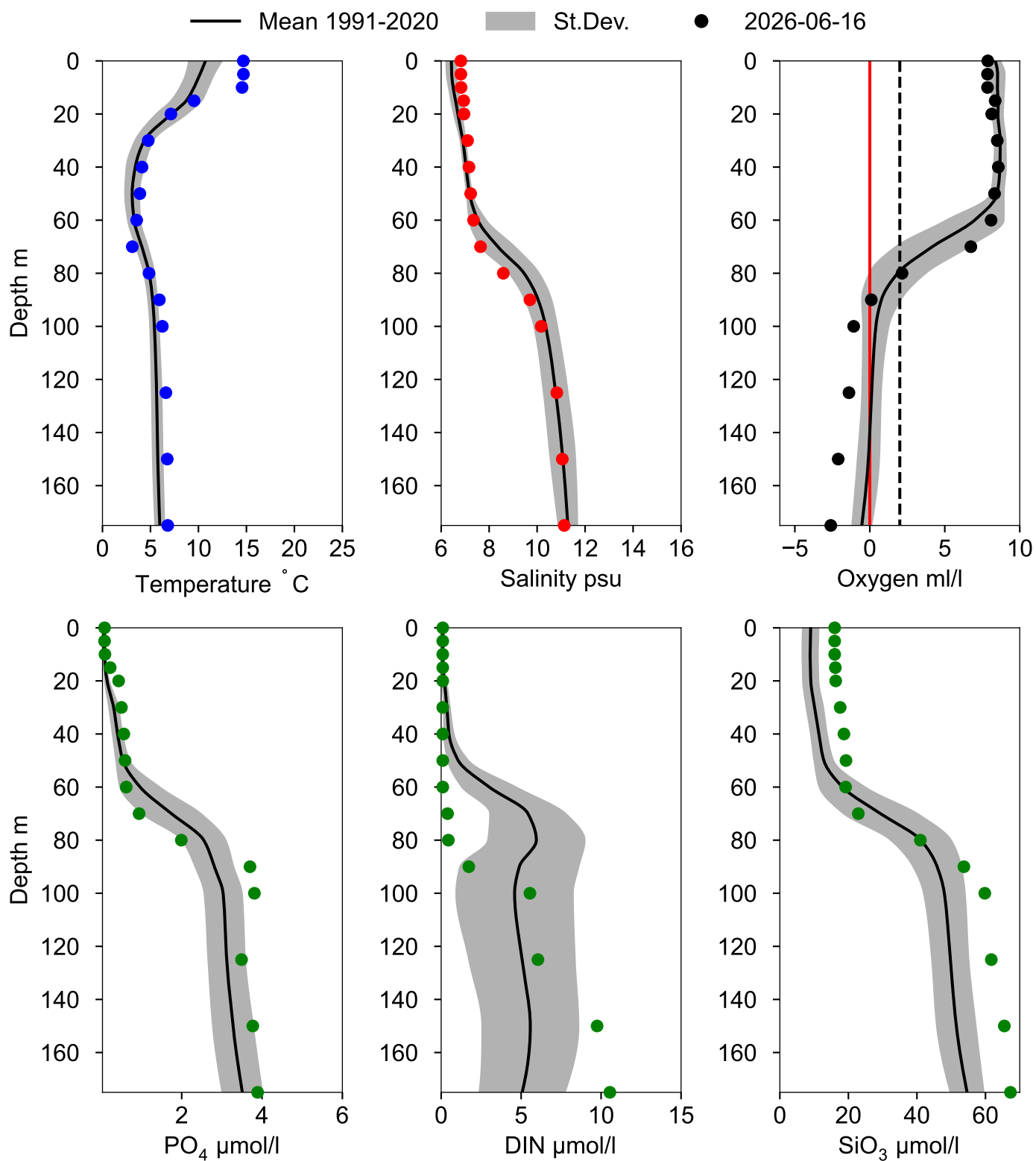


OXYGEN IN BOTTOM WATER (depth >= 150 m)



Vertical profiles BY29 / LL19

June

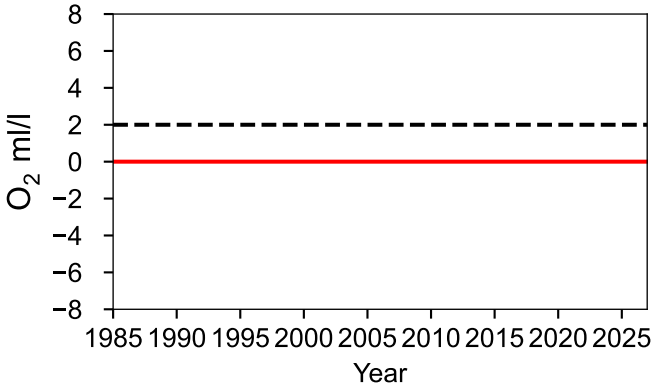
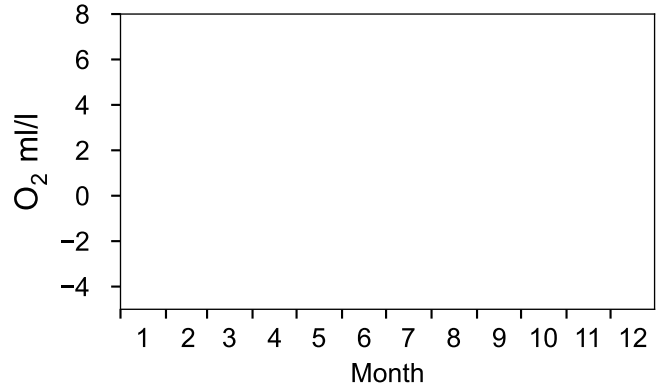
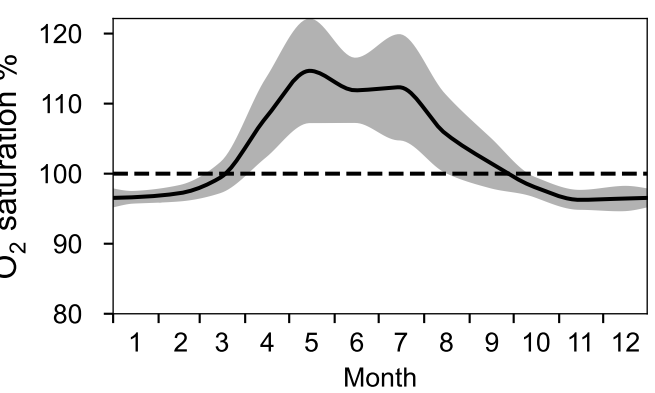
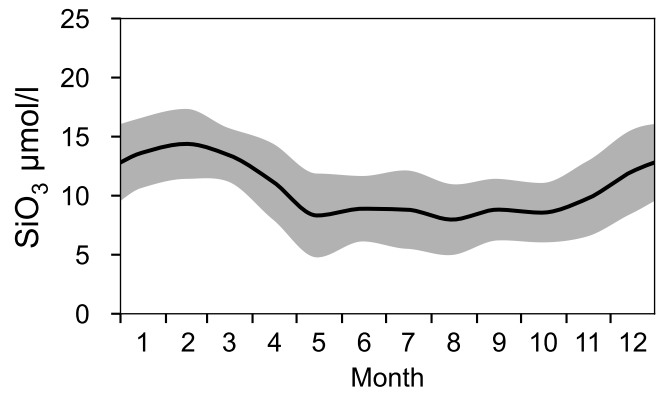
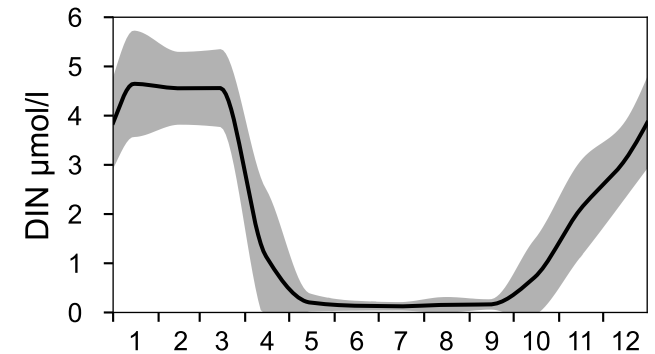
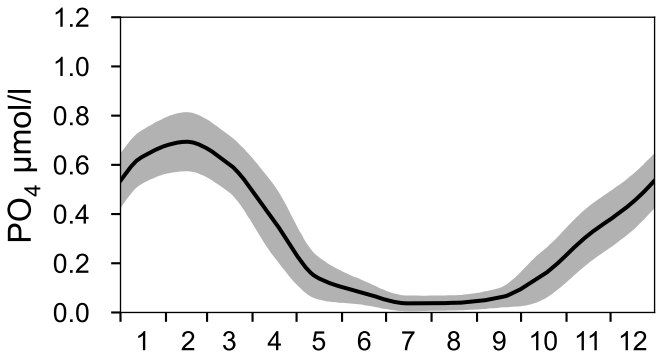
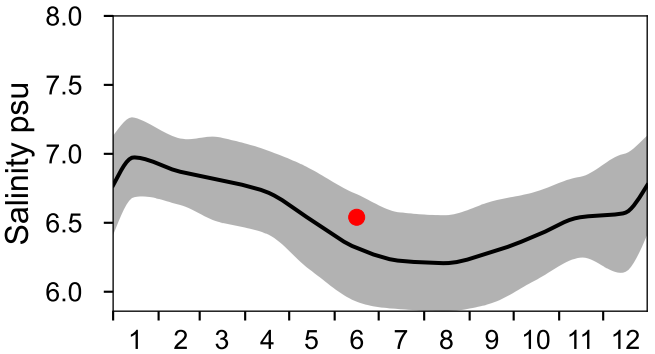
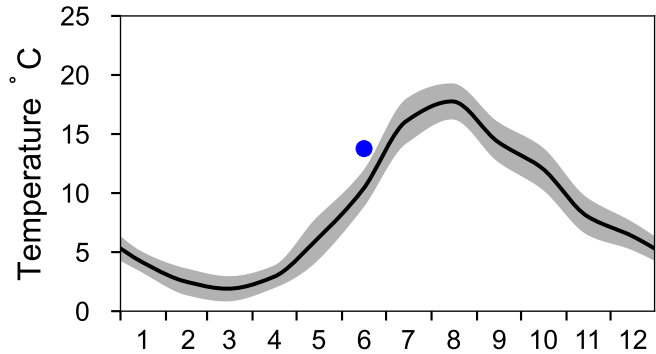


STATION HUVUDSKÄR BUOY SURFACE WATER (0-10 m)

Annual Cycles

Statistics based on data from: Norra Egentliga Östersjön

— Mean 1991-2020 St.Dev. ● 2026



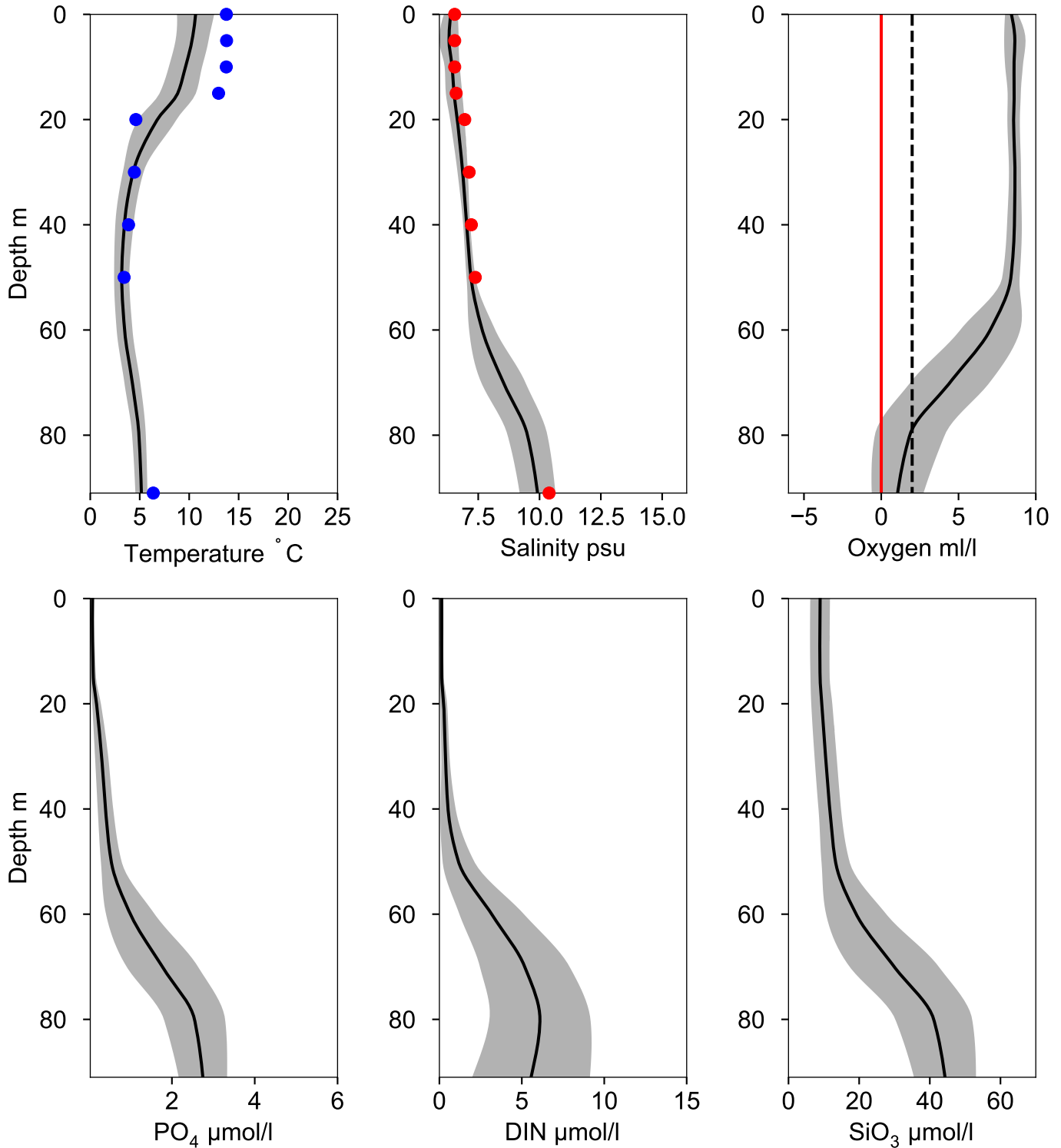
Vertical profiles HUVUDSKÄR BUOY June

Statistics based on data from: Norra Egentliga Östersjön

— Mean 1991-2020

■ St.Dev.

● 2026-06-16



STATION BY30 SURFACE WATER (0-10 m)

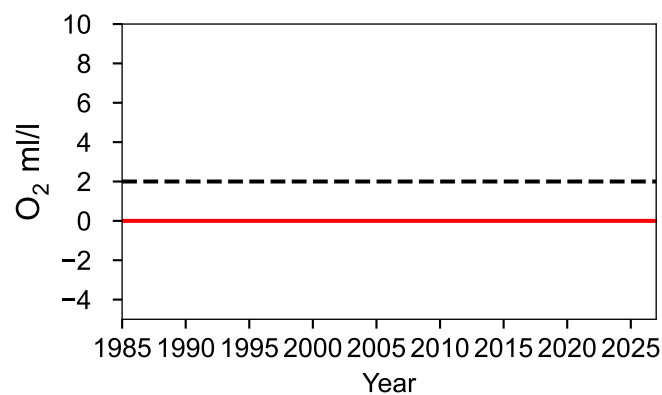
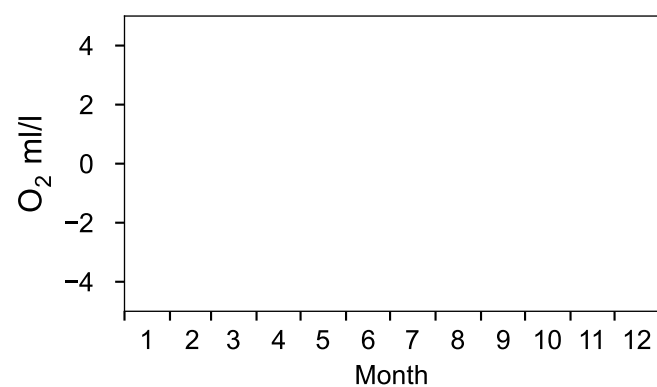
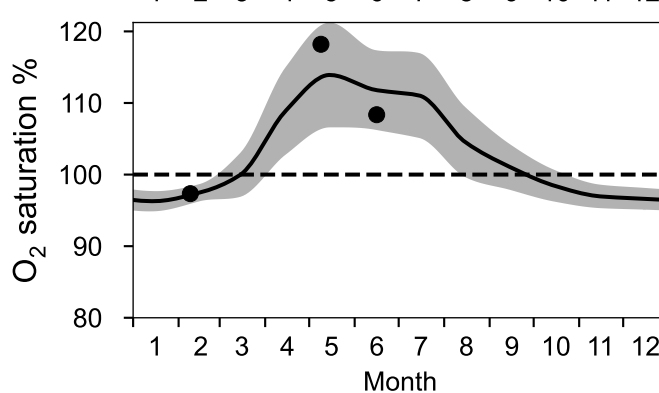
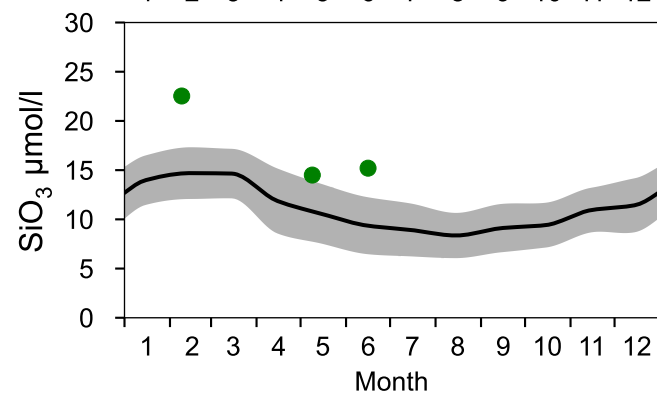
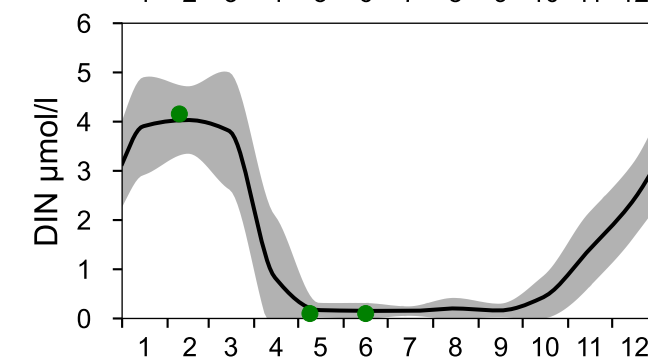
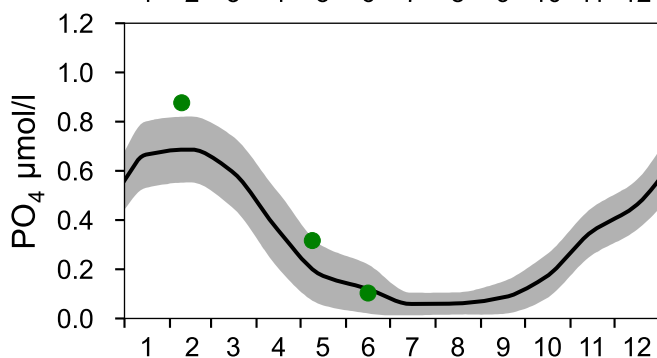
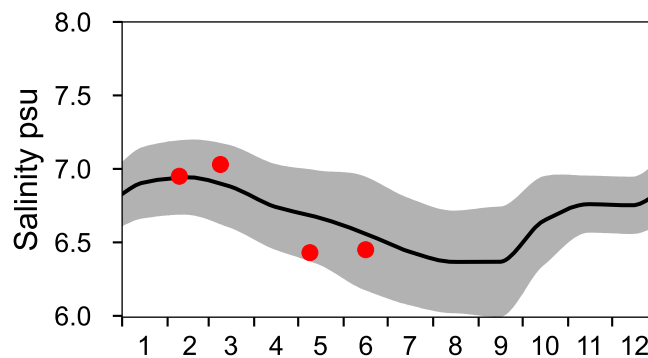
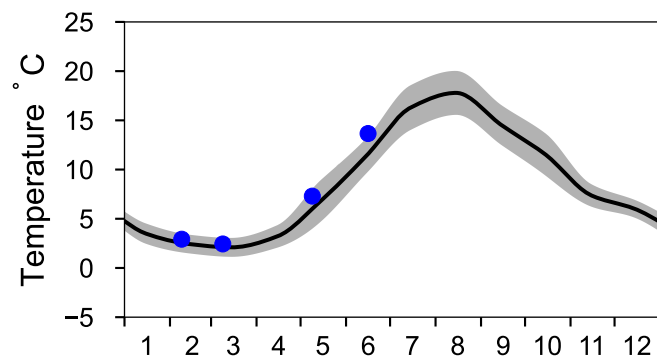
Annual Cycles

Statistics based on data from: Västra Gotlandshavet

— Mean 1991-2020

■ St.Dev.

● 2026



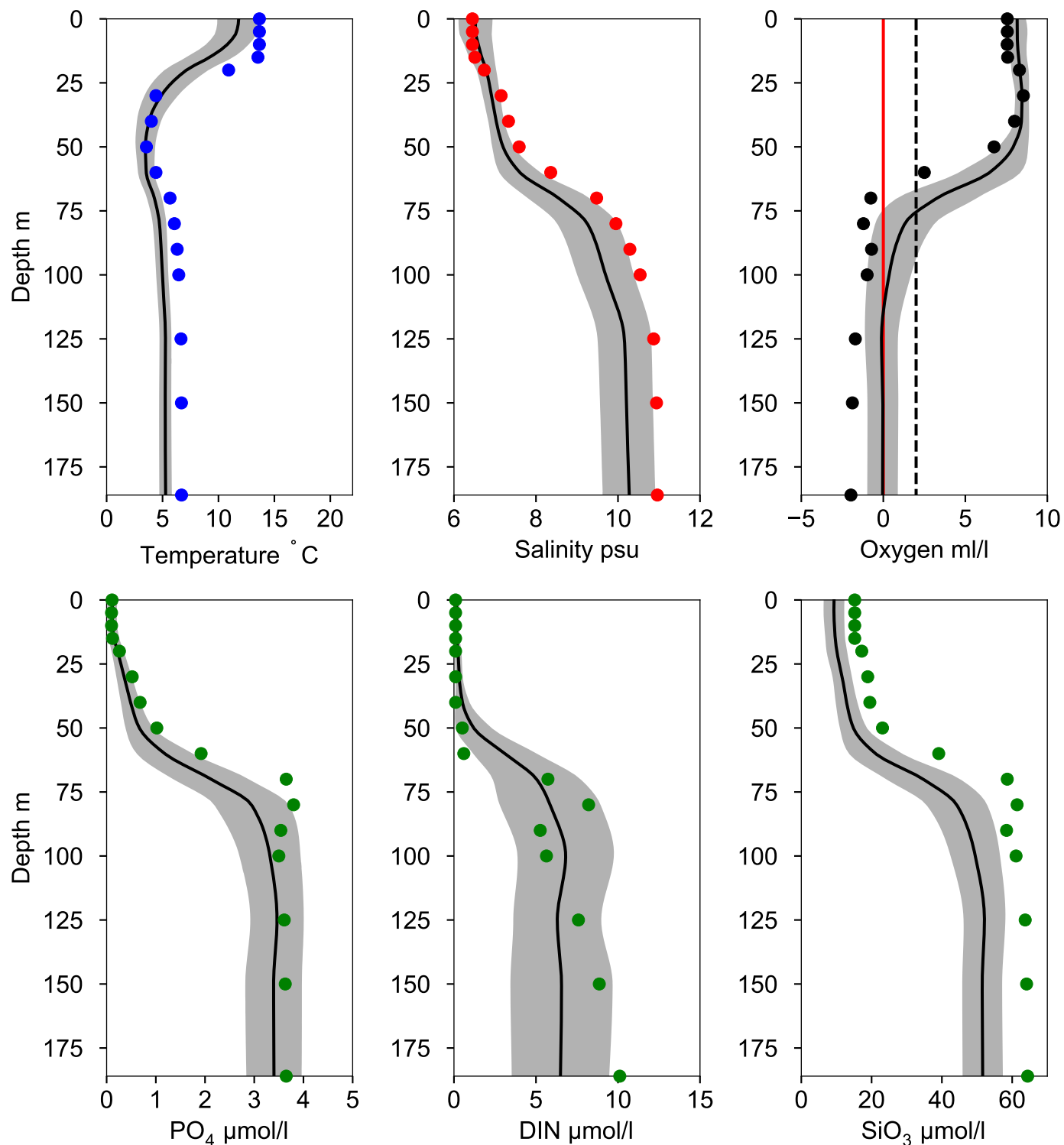
Vertical profiles BY30 June

Statistics based on data from: Västra Gotlandshavet

— Mean 1991-2020

■ St.Dev.

● 2026-06-16



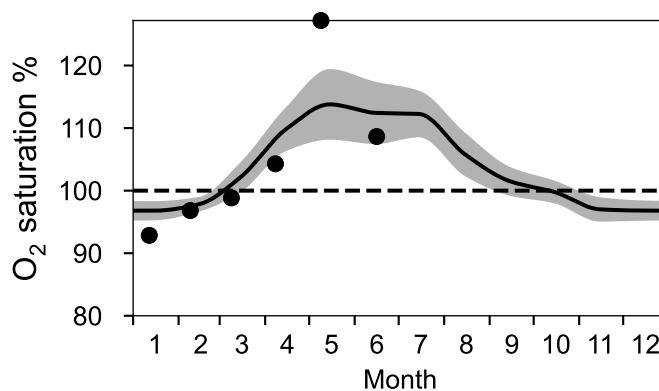
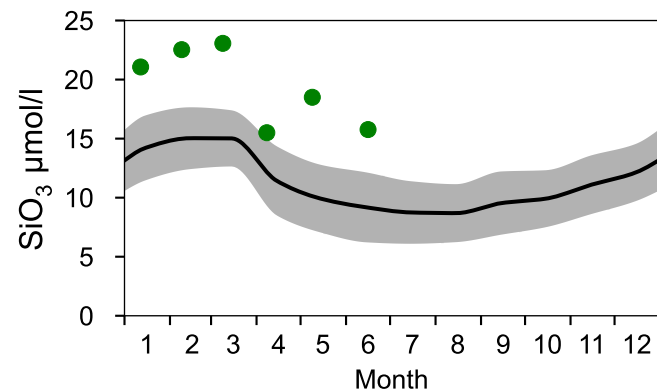
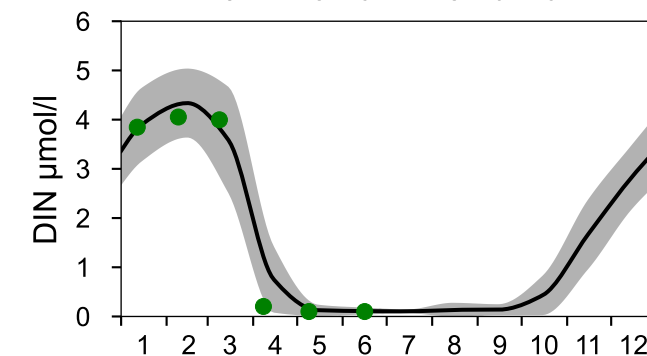
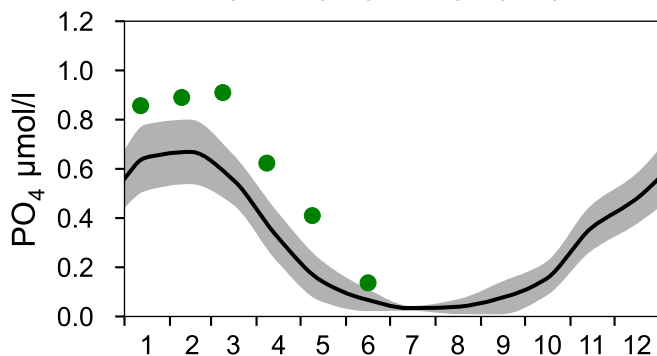
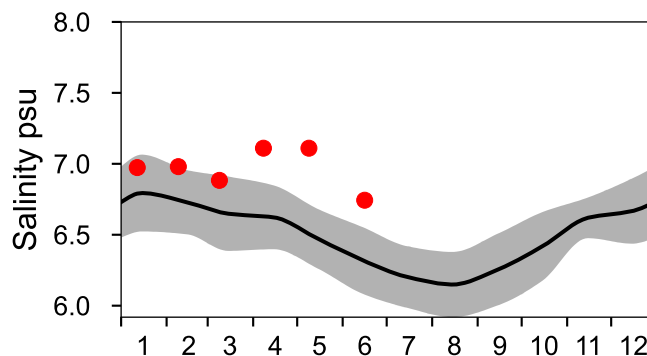
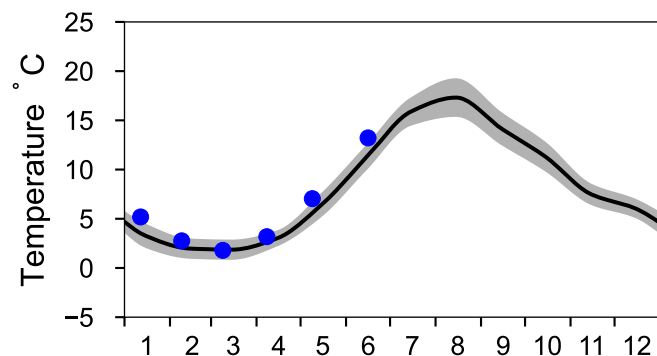
STATION BY31 LANDSORTSDJ SURFACE WATER (0-10 m)

Annual Cycles

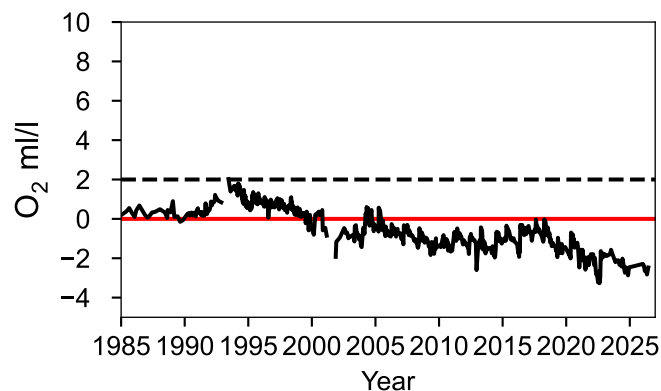
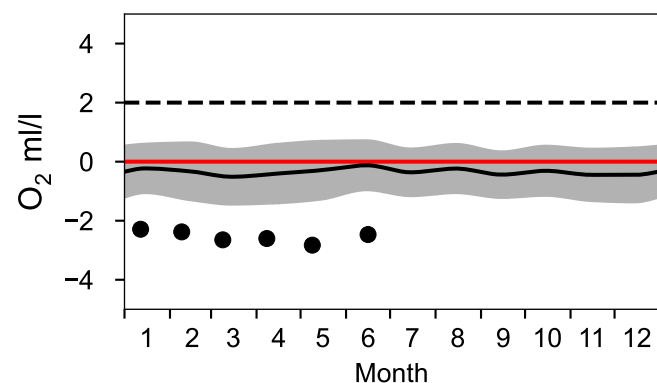
— Mean 1991-2020

■ St.Dev.

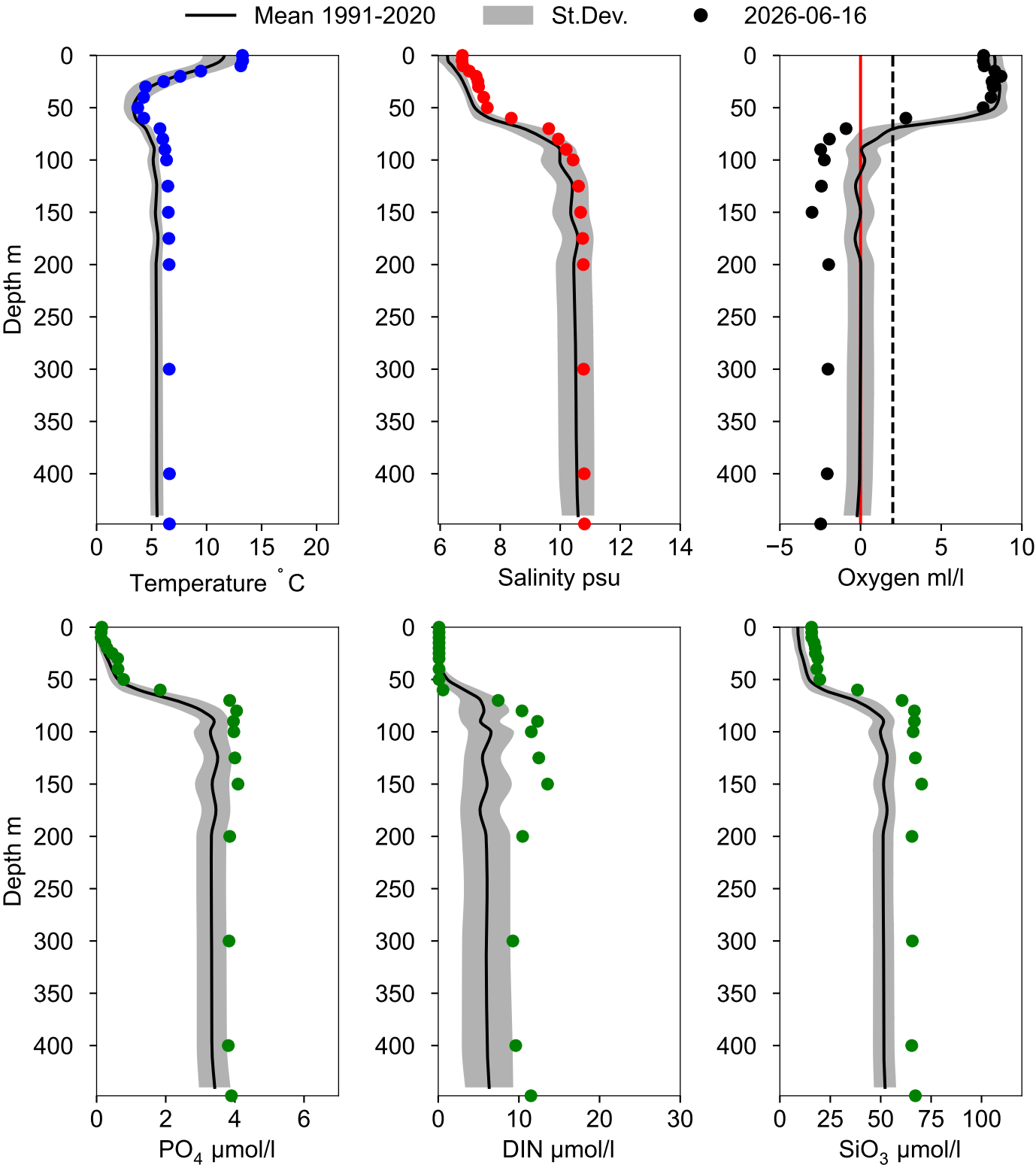
● 2026



OXYGEN IN BOTTOM WATER (depth >= 419 m)



Vertical profiles BY31 LANDSORTSDJ
June



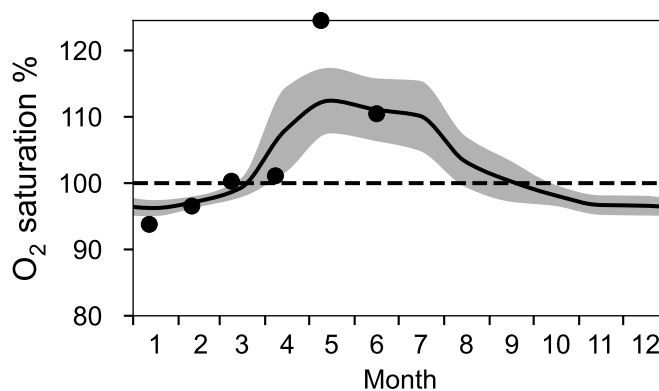
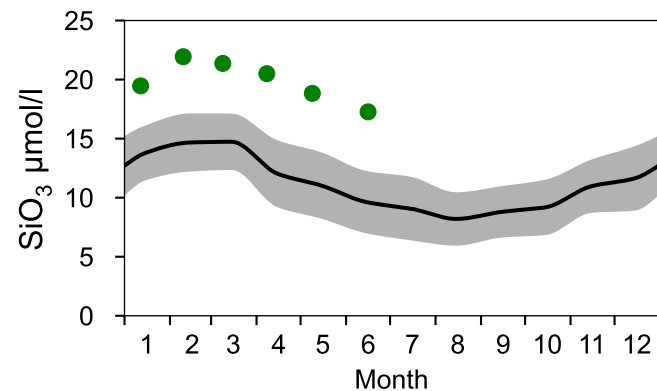
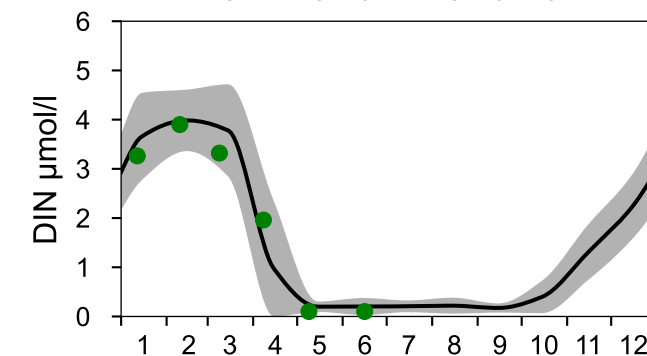
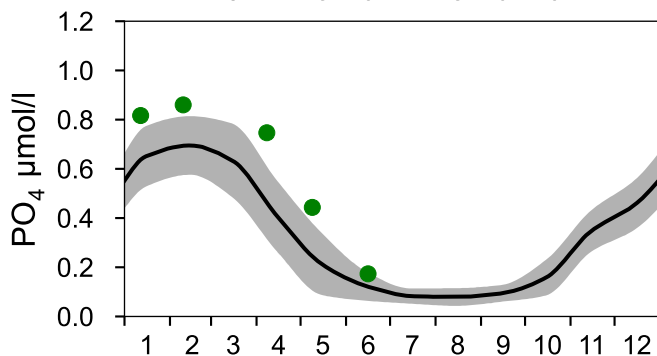
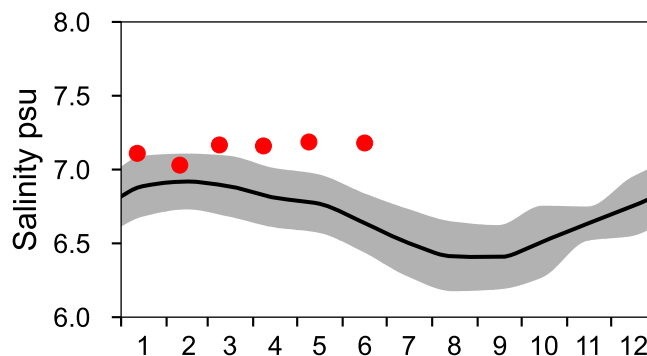
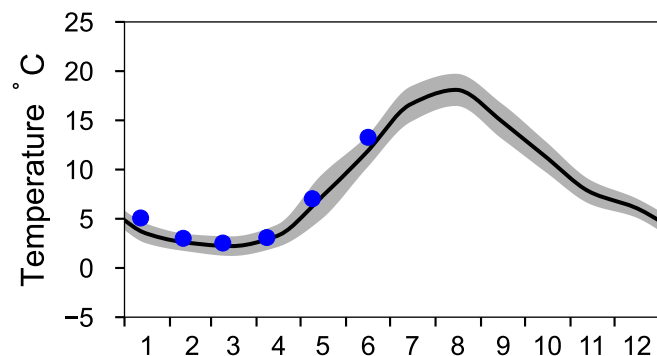
STATION BY32 NORRKÖPINGSDJ SURFACE WATER (0-10 m)

Annual Cycles

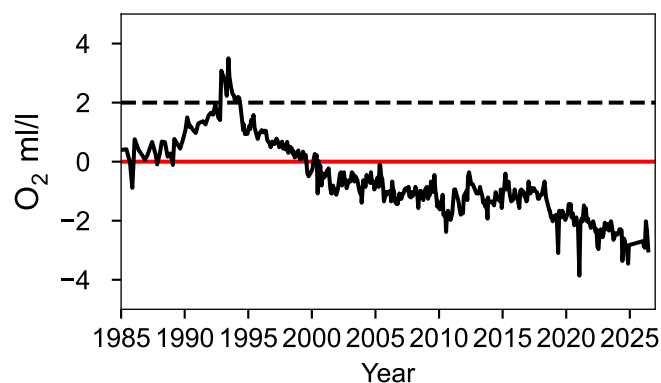
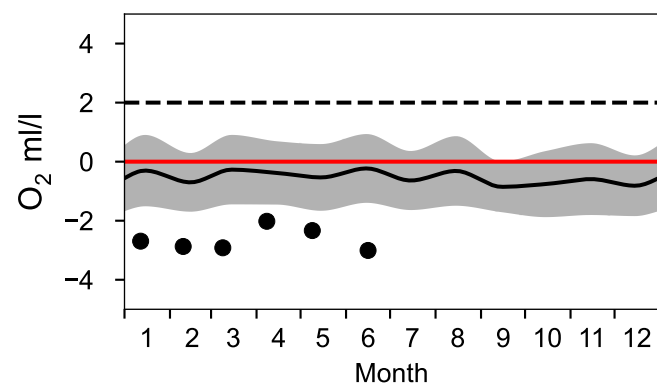
— Mean 1991-2020

■ St.Dev.

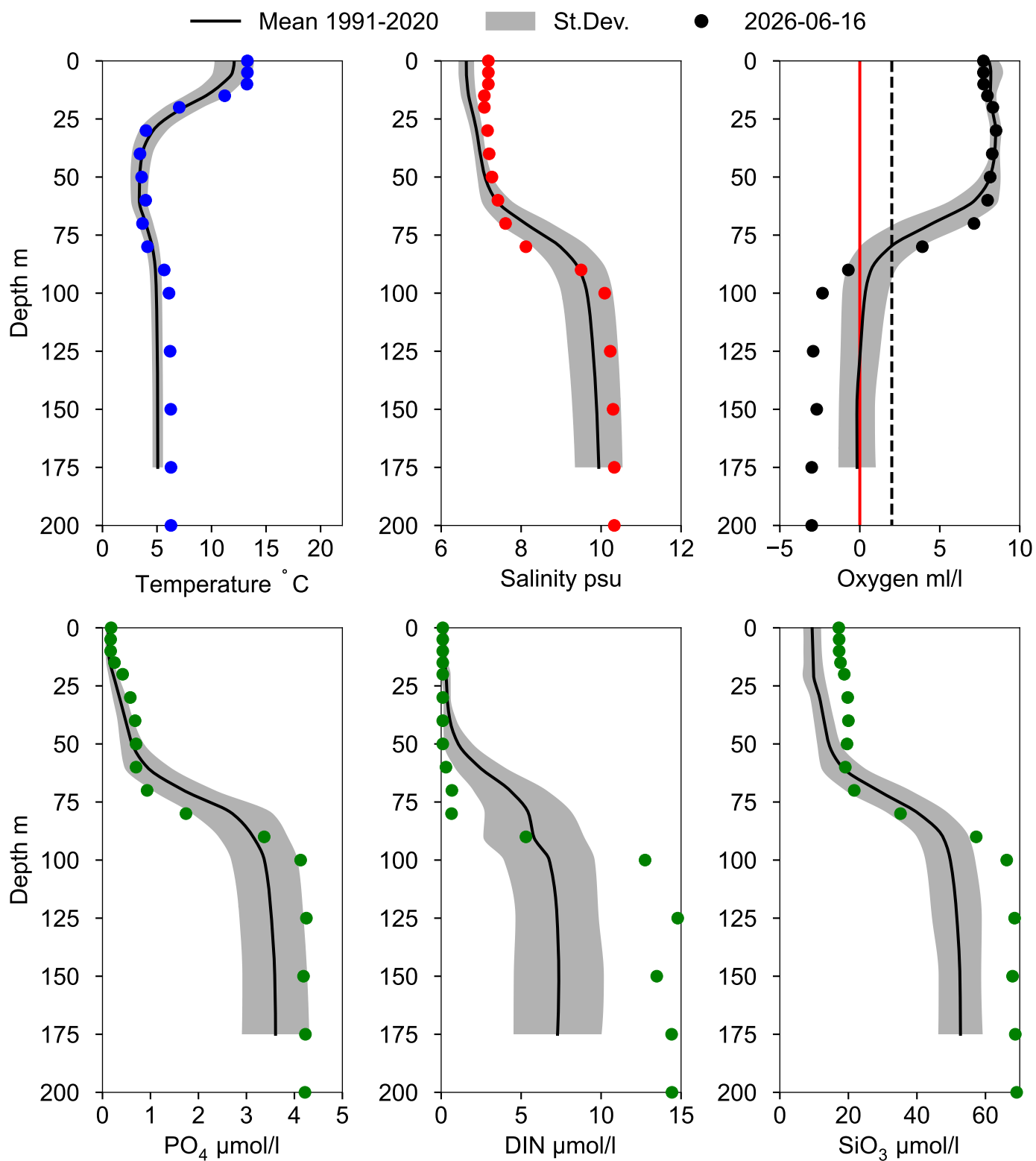
● 2026



OXYGEN IN BOTTOM WATER (depth >= 175 m)



Vertical profiles BY32 NORRKÖPINGSDJ June



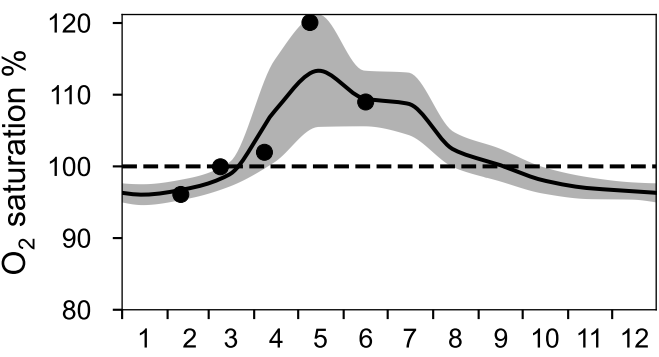
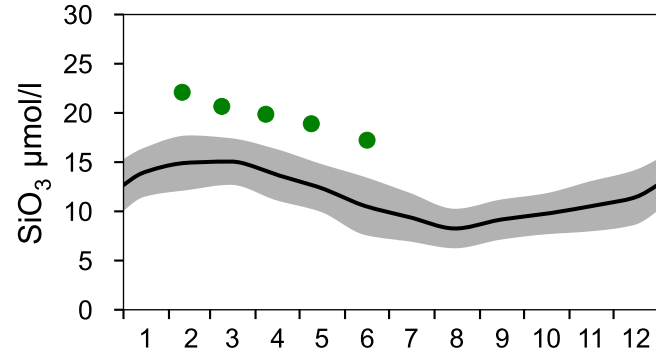
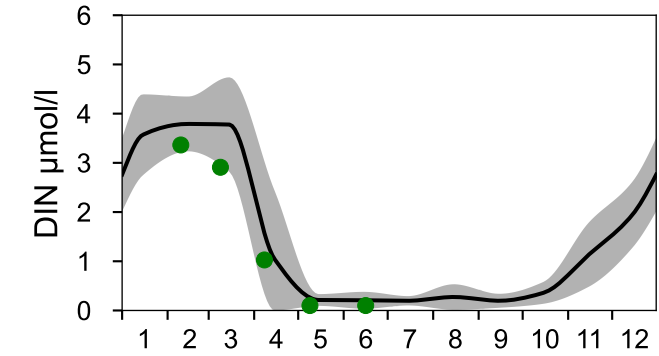
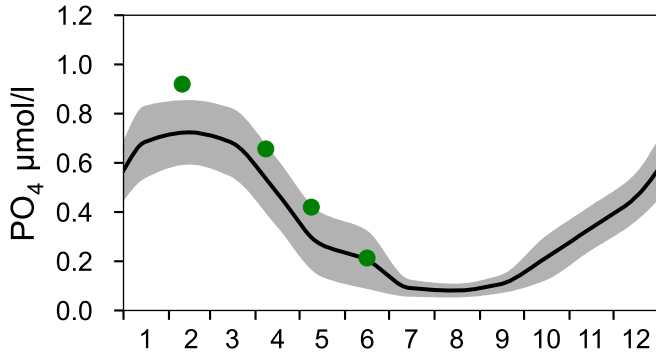
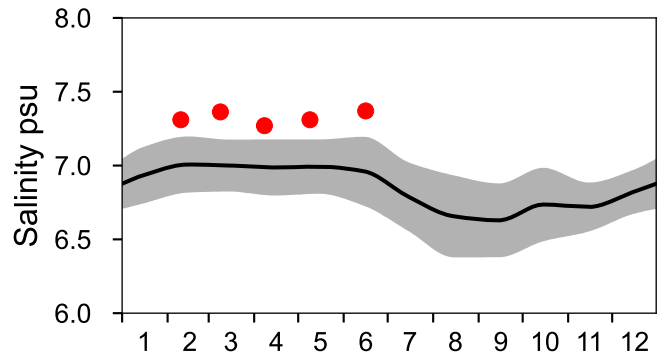
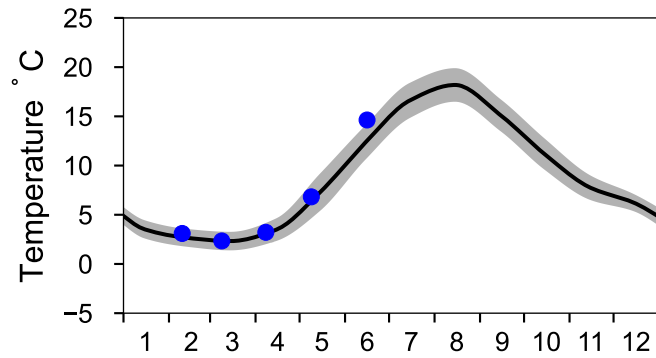
STATION BY38 KARLSÖDJ SURFACE WATER (0-10 m)

Annual Cycles

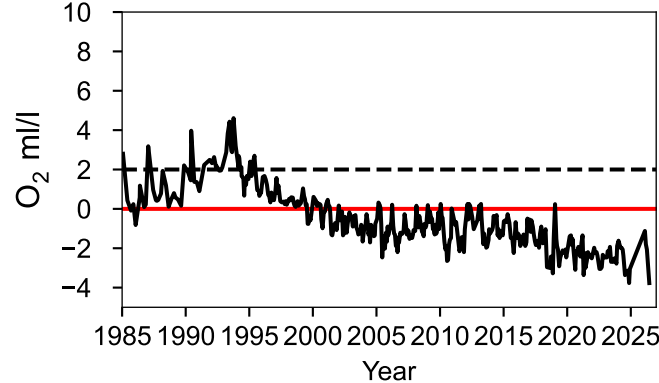
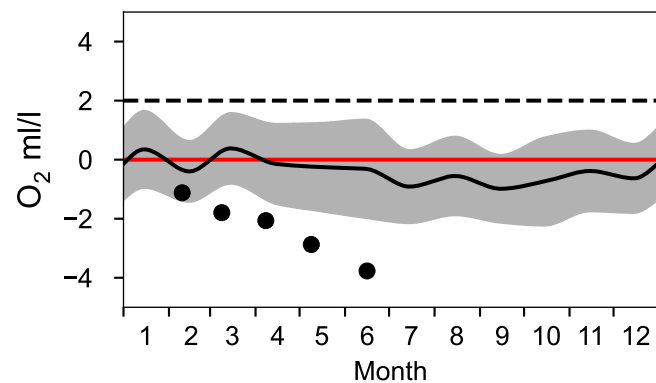
— Mean 1991-2020

■ St.Dev.

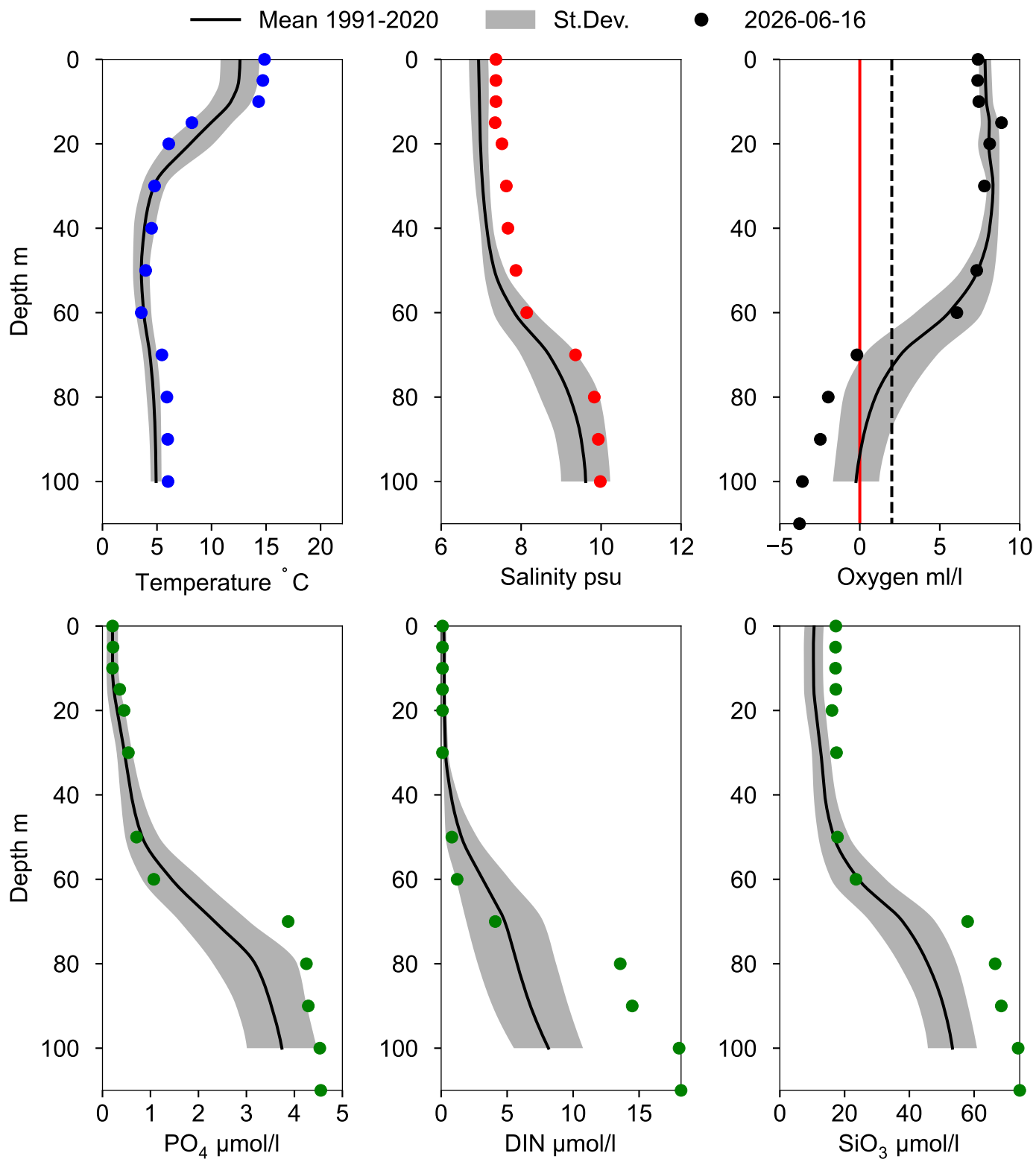
● 2026



OXYGEN IN BOTTOM WATER (depth >= 100 m)



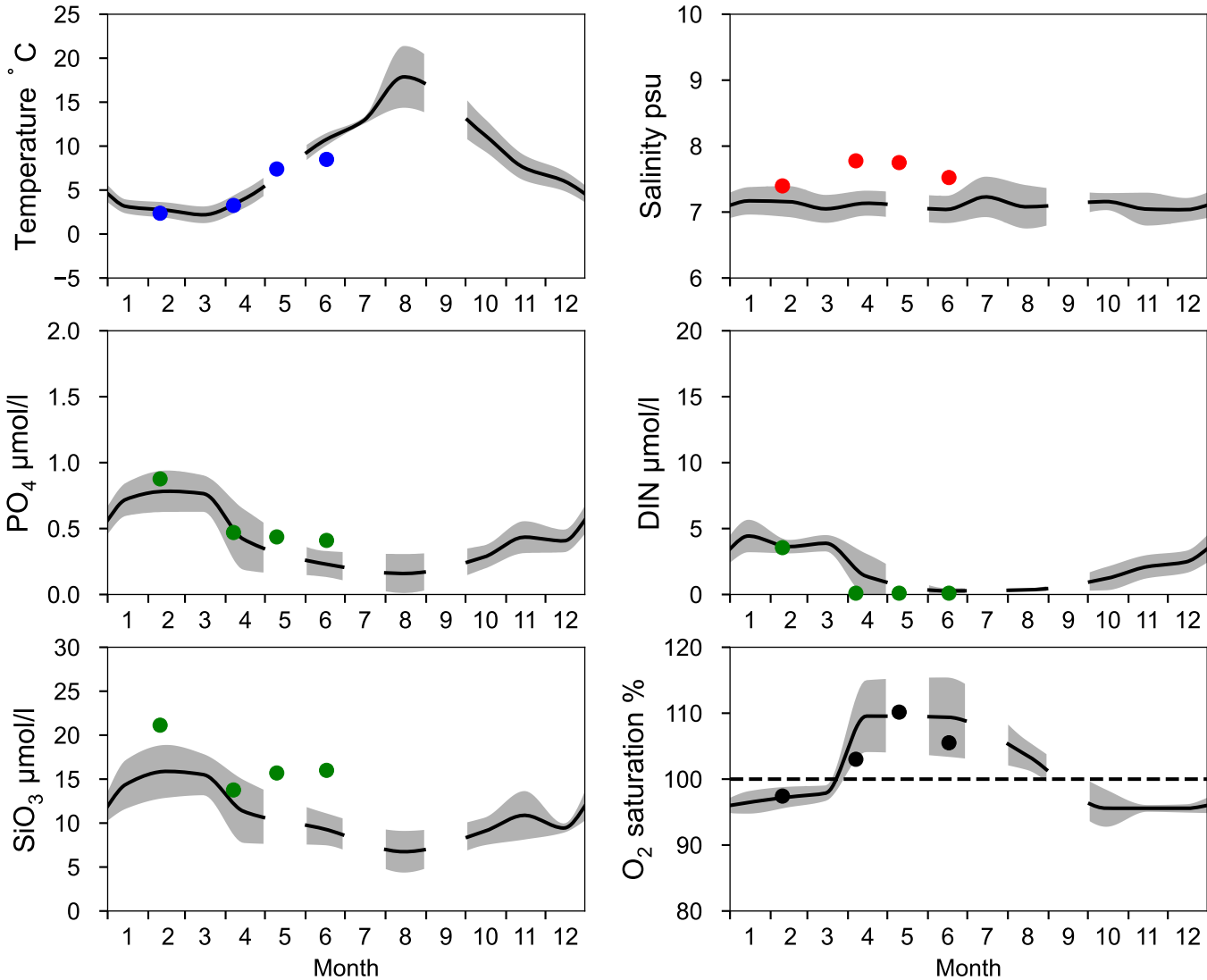
Vertical profiles BY38 KARLSÖDJ June



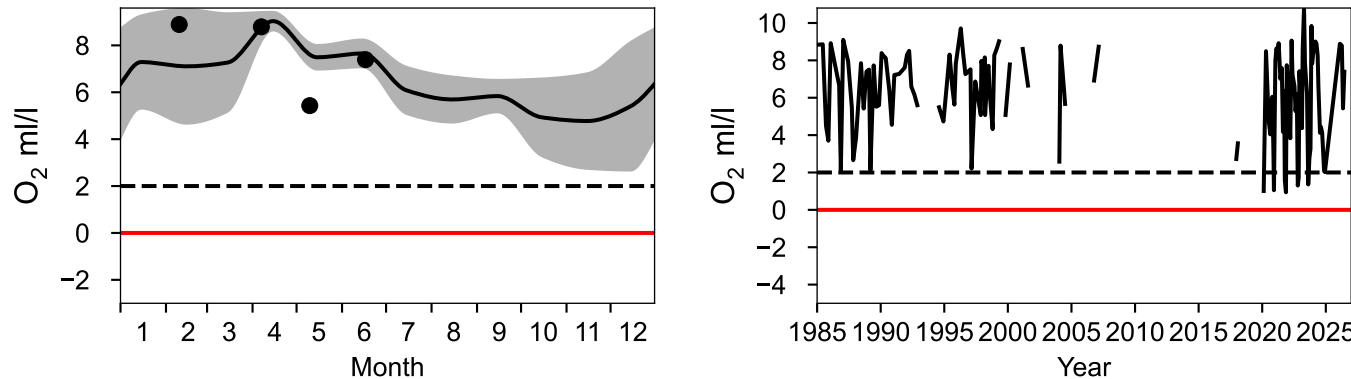
STATION BY39 ÖLANDS S UDDE SURFACE WATER (0-10 m)

Annual Cycles

— Mean 1991-2020 St.Dev. ● 2026



OXYGEN IN BOTTOM WATER (depth >= 40 m)



Vertical profiles BY39 ÖLANDS S UDDE June

