

## Appendix I

Seasonal cycles from monthly and high frequency stations sampled in 2023.

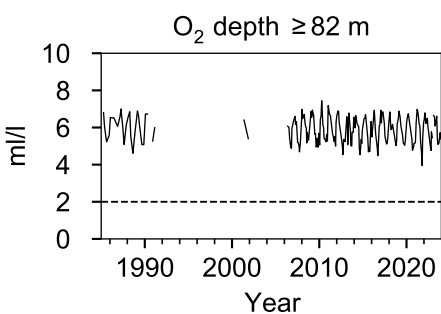
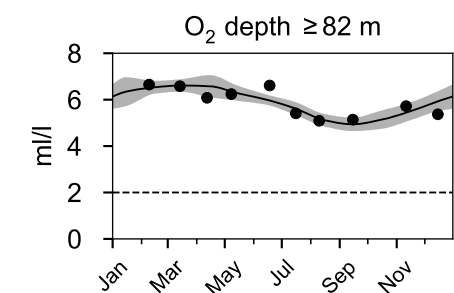
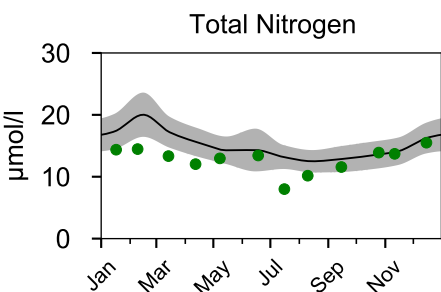
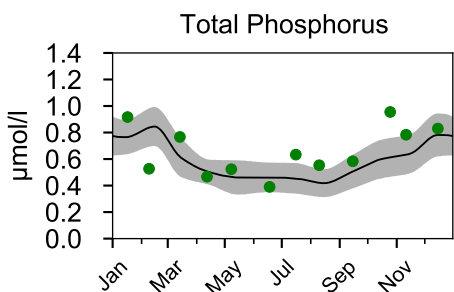
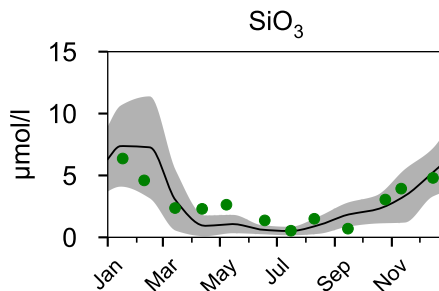
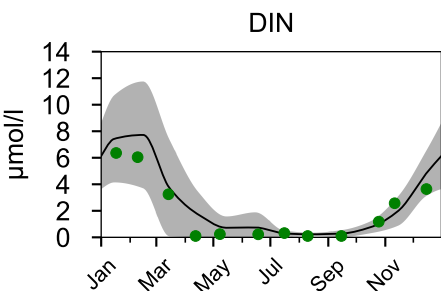
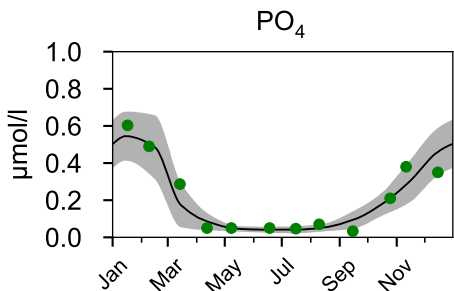
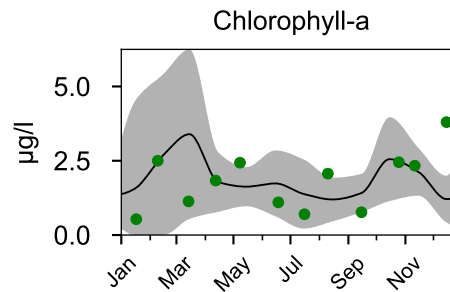
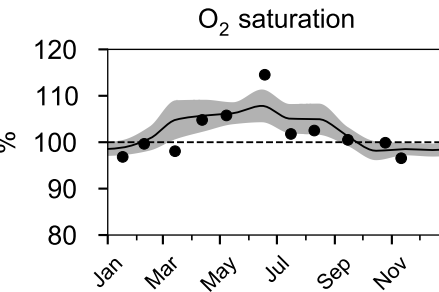
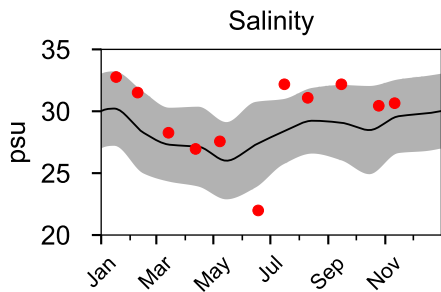
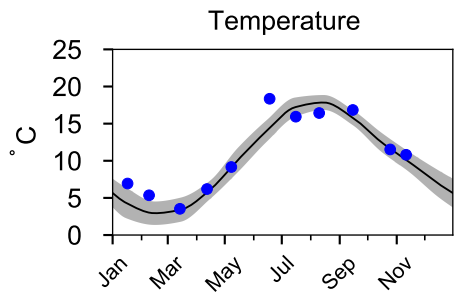
Surface water (0-10 m): Monthly measurements (dots) during 2023 are shown in relation to average value for the period 1991-2020 (black line) and +/- 1 standard deviation (grey area). Missing black line and grey area indicates that there are too few data in the period 1991-2020 to calculate statistics.

Included parameters are salinity, temperature, dissolved inorganic phosphorus (DIP), dissolved inorganic nitrogen (DIN; sum of ammonium, nitrate and nitrite), dissolved silica, total nitrogen, total phosphorus, chlorophyll, pH, alkalinity, humic substances, dissolved oxygen and oxygen saturation. Dissolved oxygen (including hydrogen sulphide expressed as negative oxygen) is presented for the bottom water.

Data for salinity and temperature is primarily from sensors on the CTD. Data for oxygen is only from water samples.

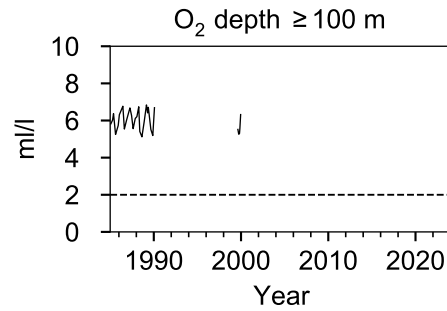
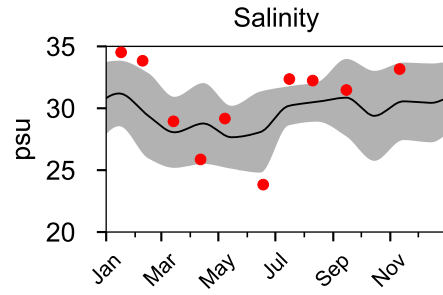
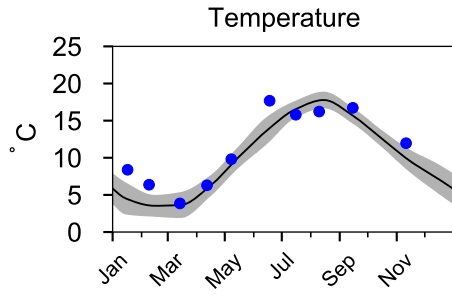
# STATION Å13 SURFACE WATER (0-10 m)

— Mean 1991-2020    St.Dev.    ● 2023



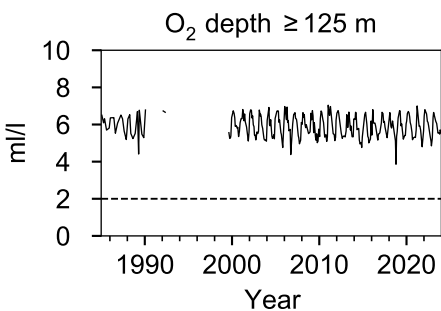
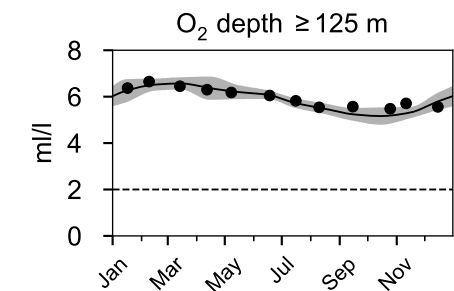
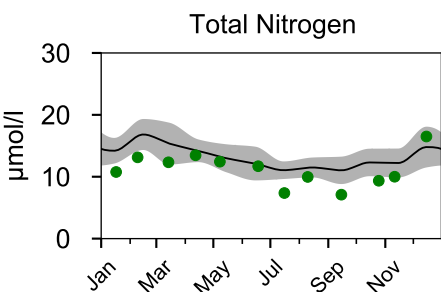
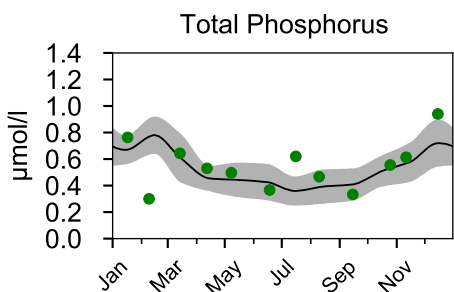
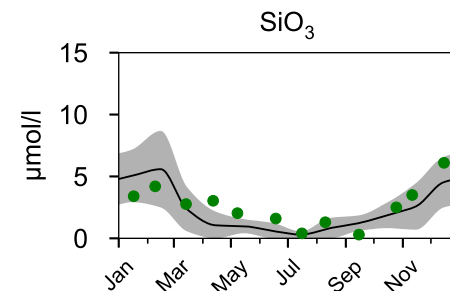
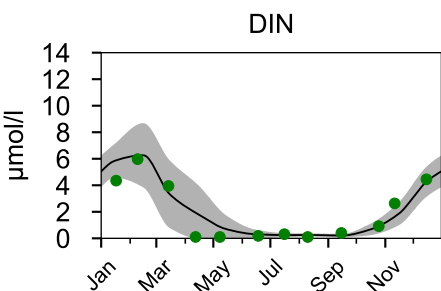
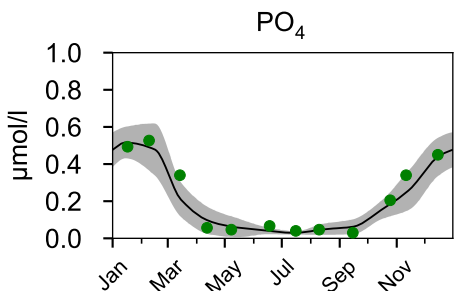
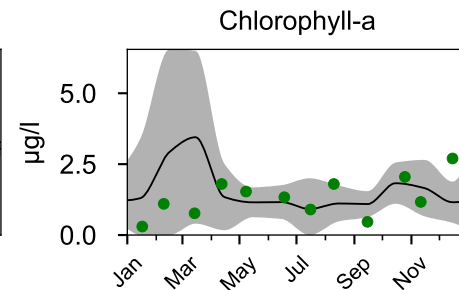
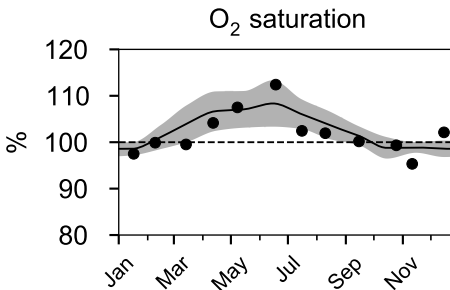
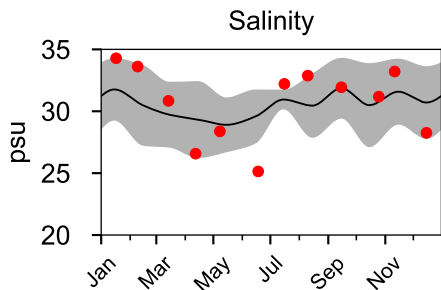
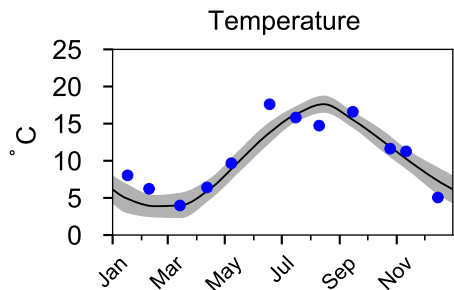
# STATION Å14 SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023



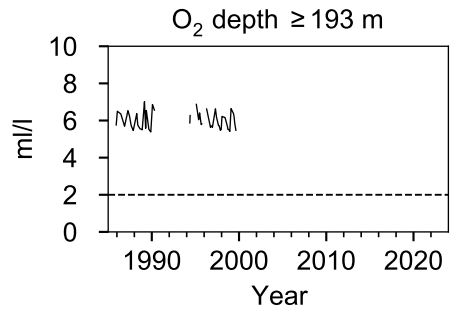
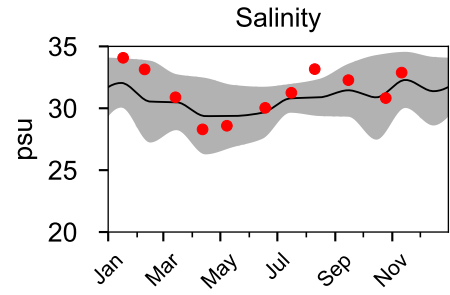
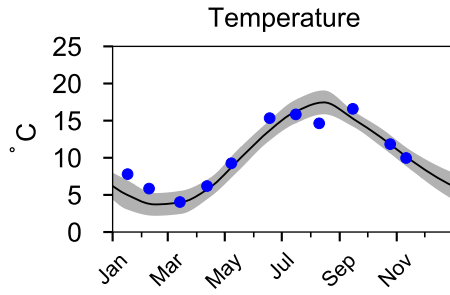
# STATION Å15 SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023



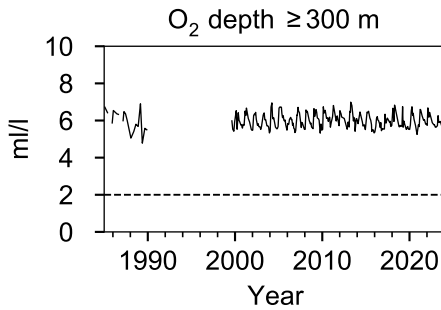
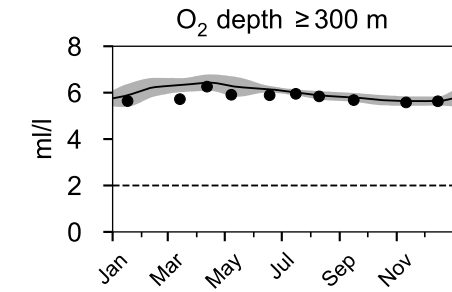
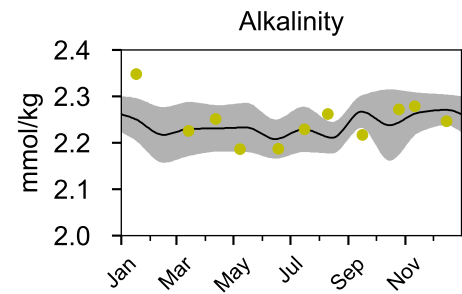
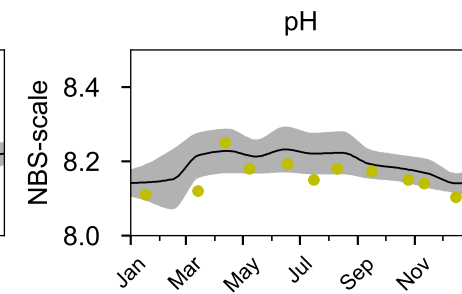
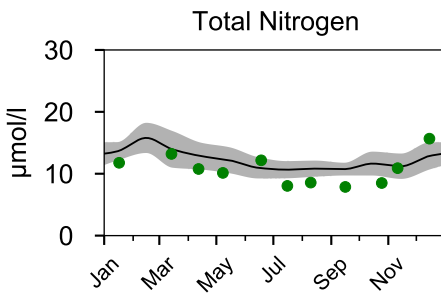
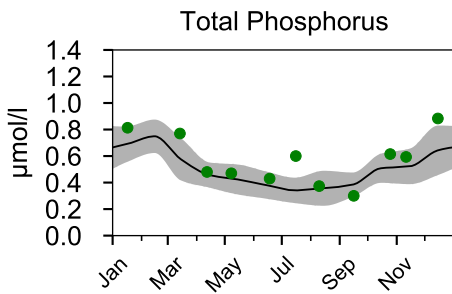
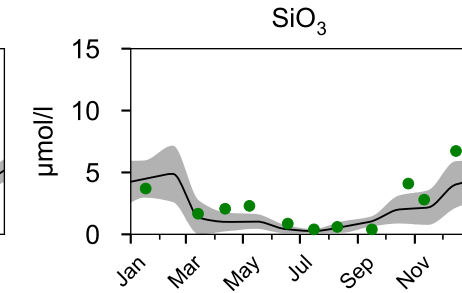
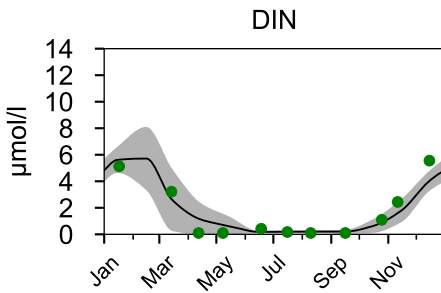
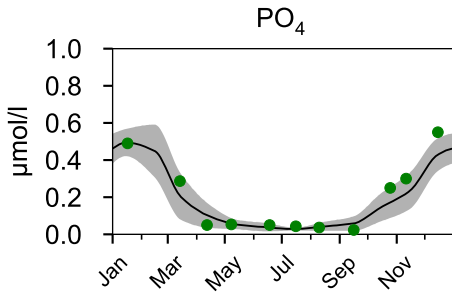
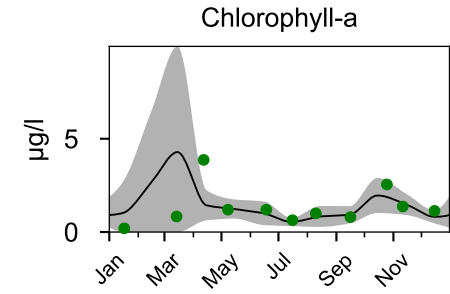
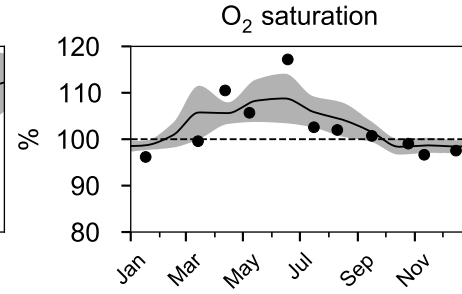
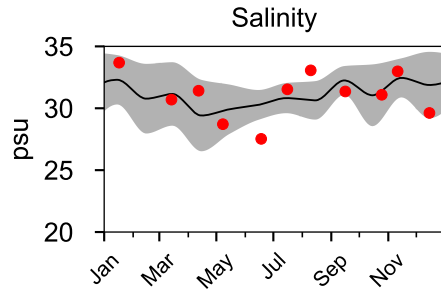
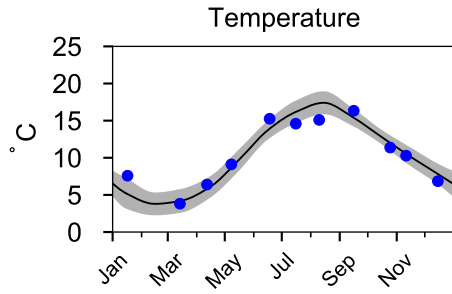
# STATION Å16 SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023



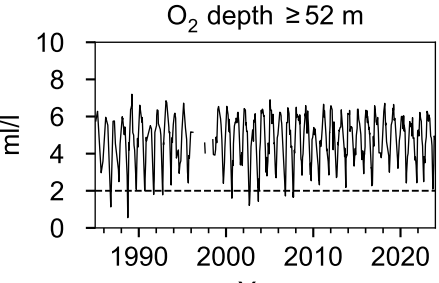
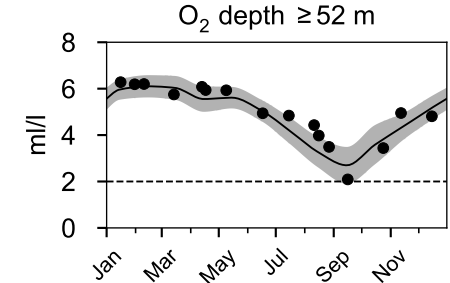
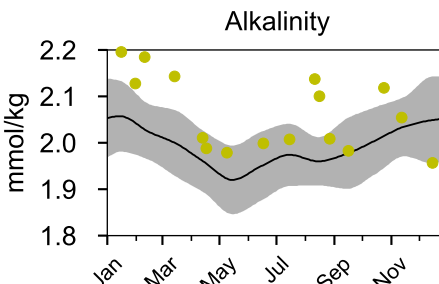
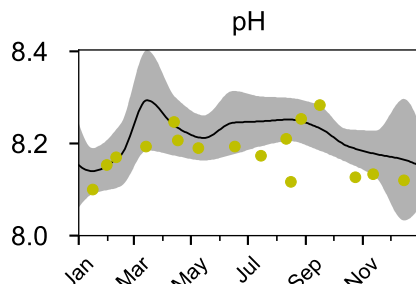
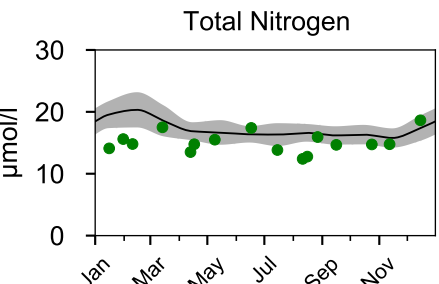
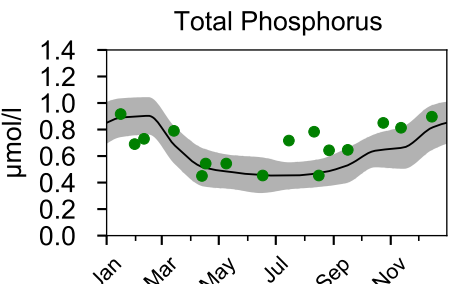
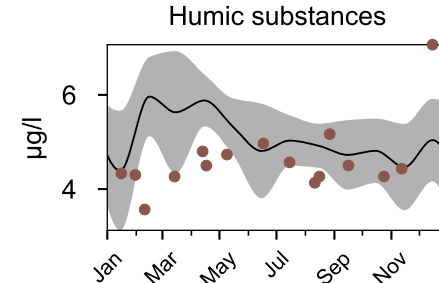
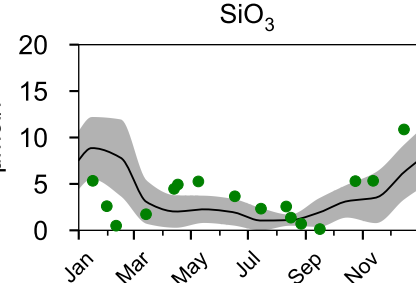
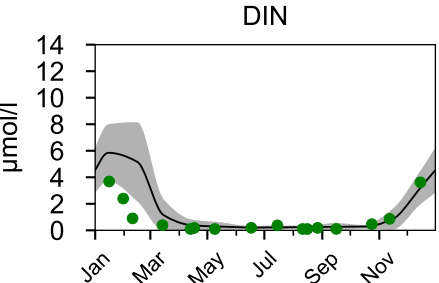
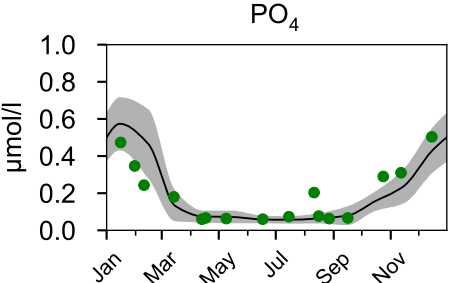
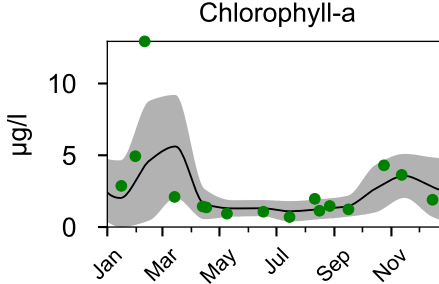
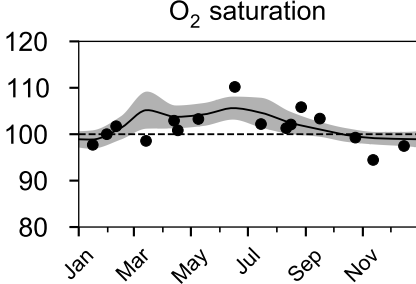
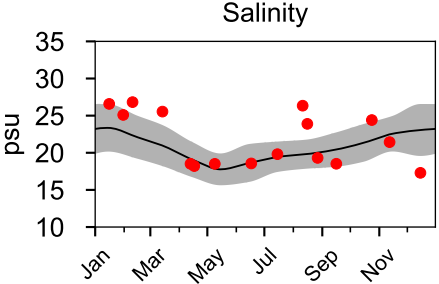
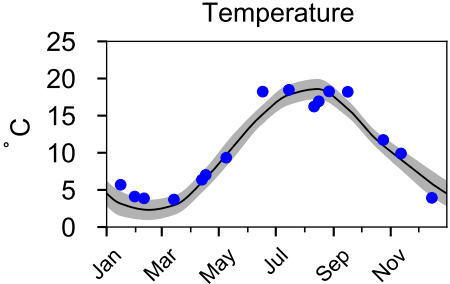
# STATION Å17 SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023



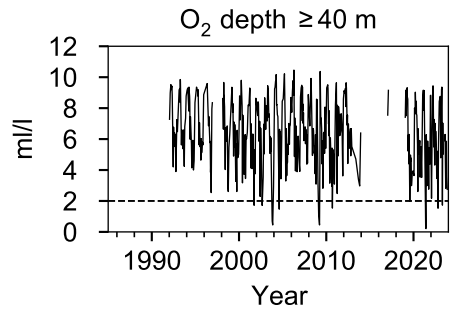
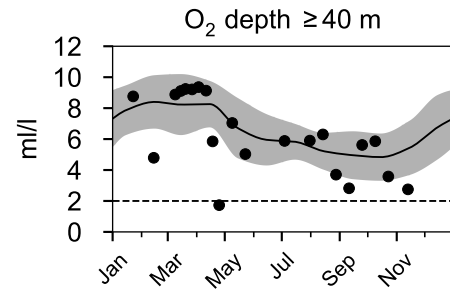
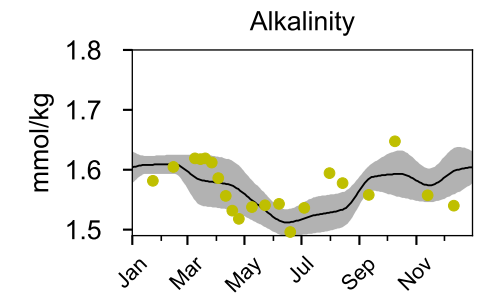
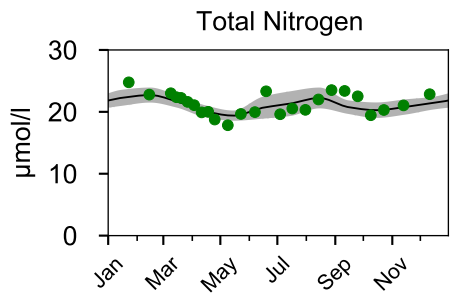
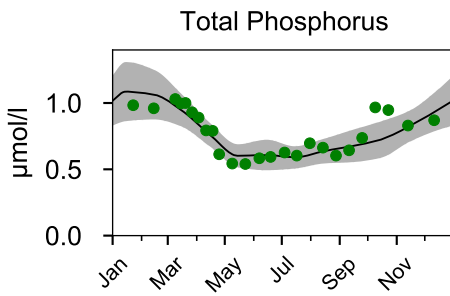
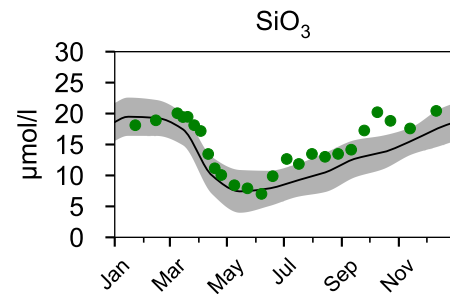
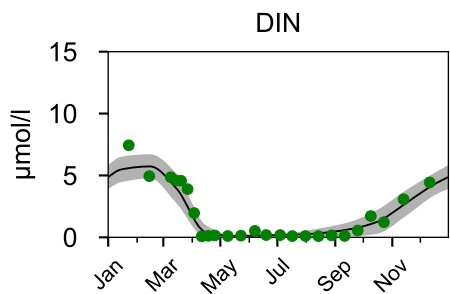
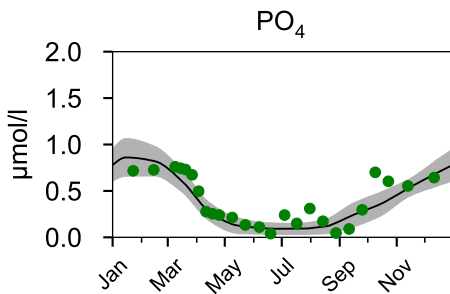
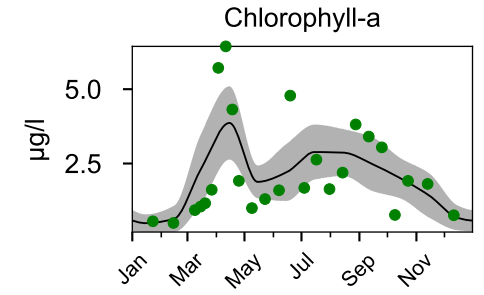
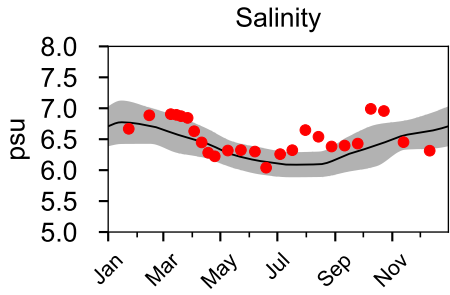
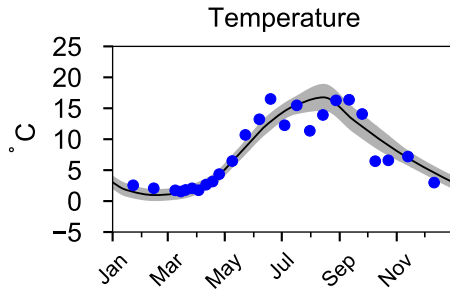
# STATION ANHOLT E SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023



# STATION B1 SURFACE WATER (0-10 m)

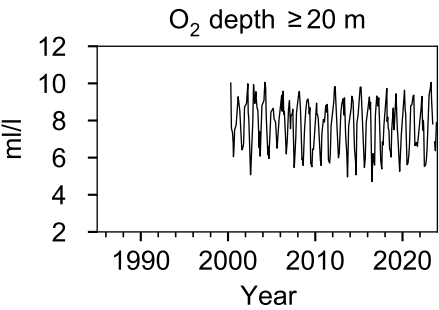
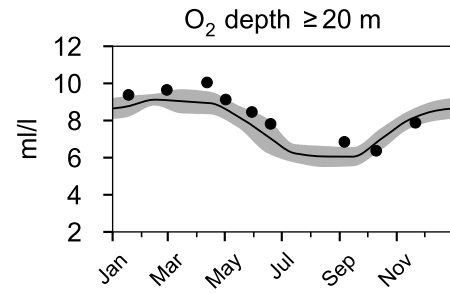
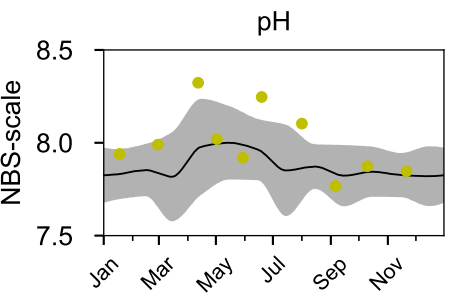
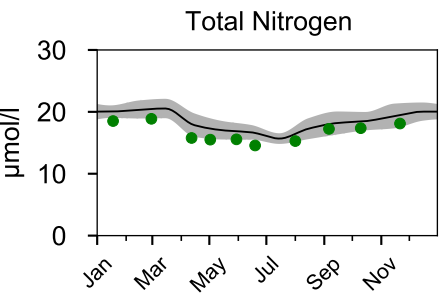
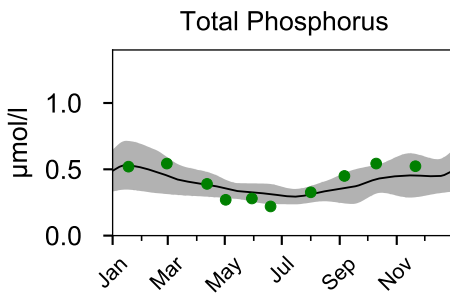
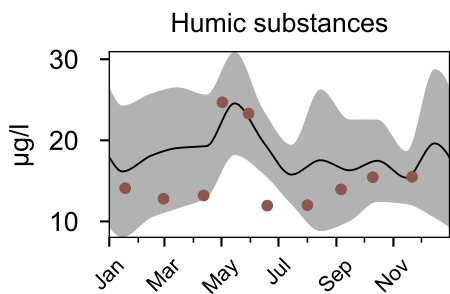
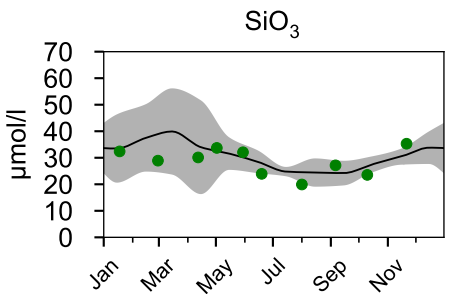
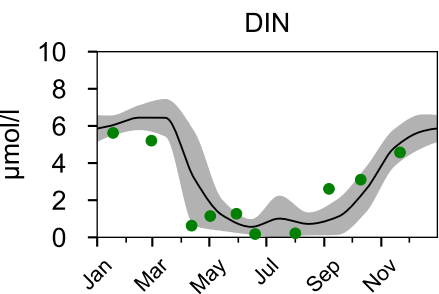
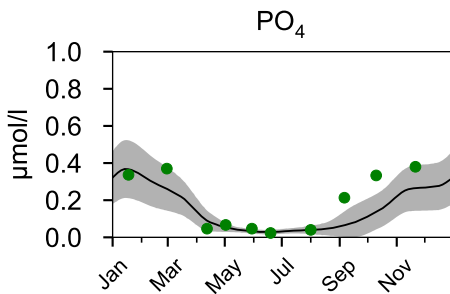
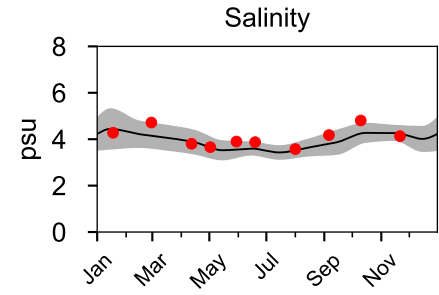
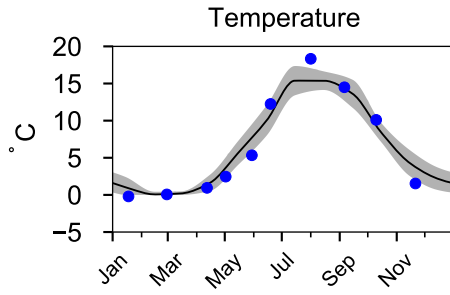
— Mean 1991-2020    ■ St.Dev.    ● 2023





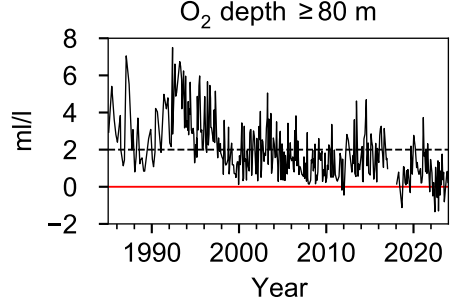
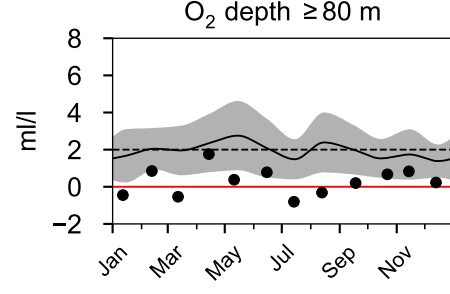
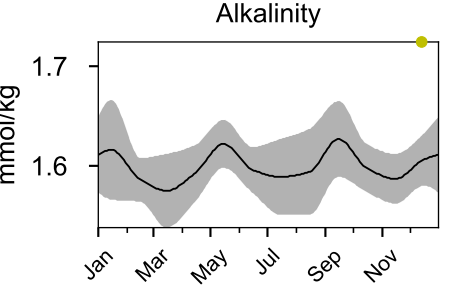
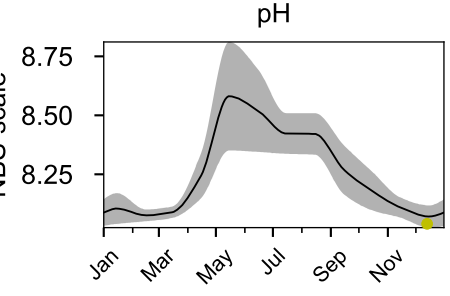
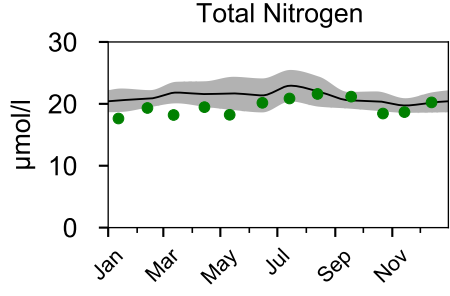
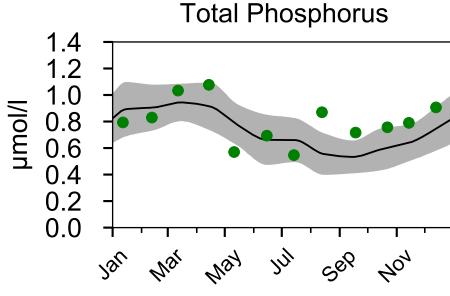
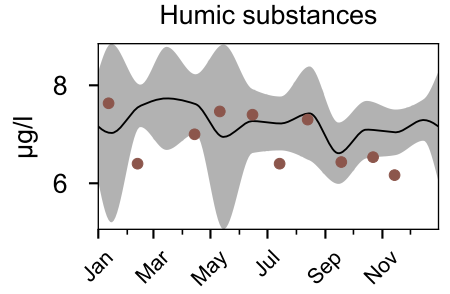
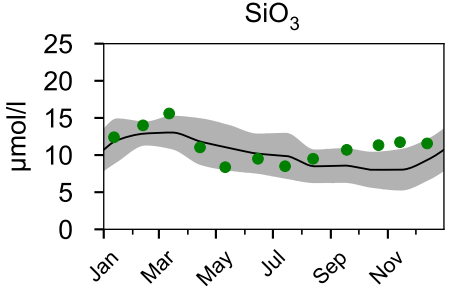
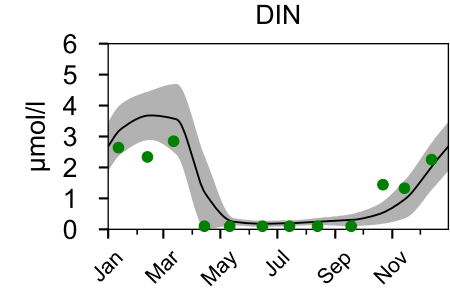
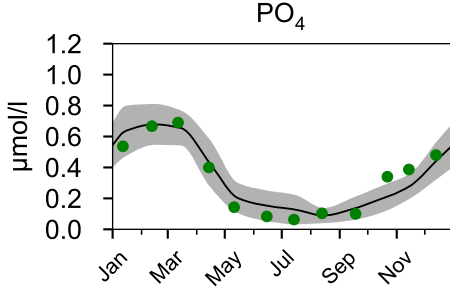
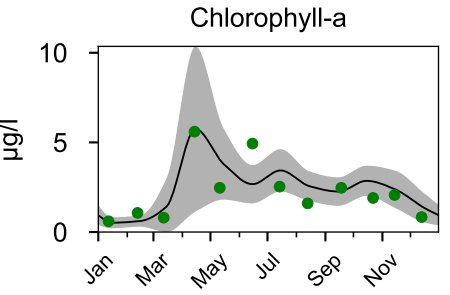
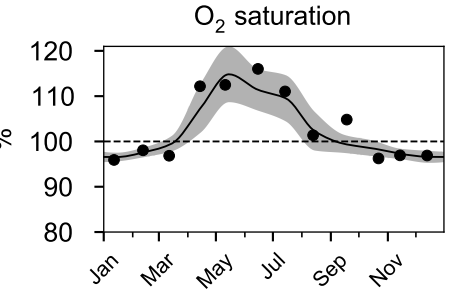
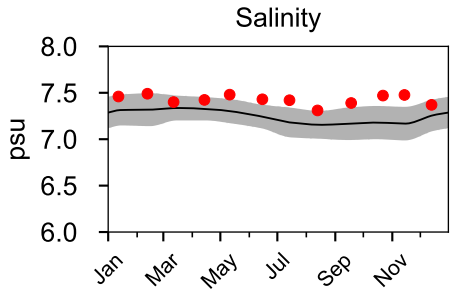
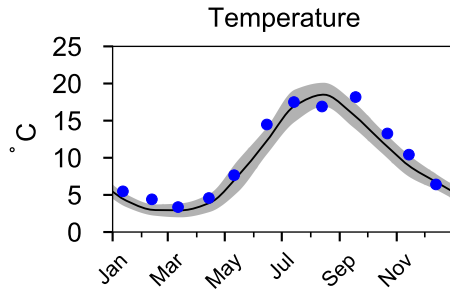
# STATION B7 SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023



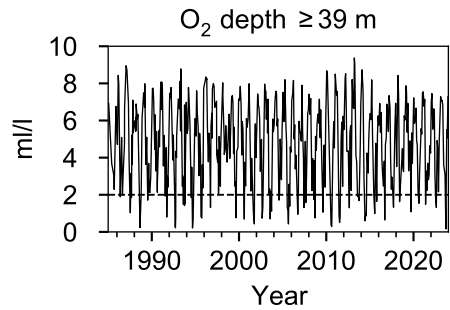
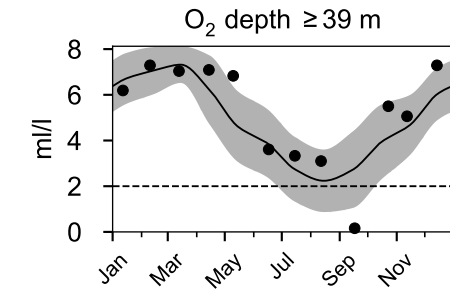
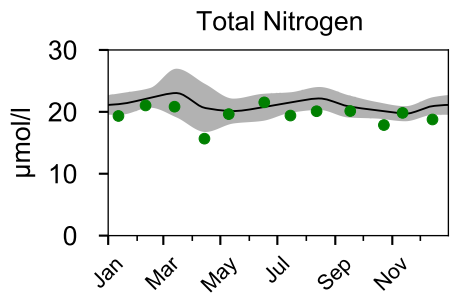
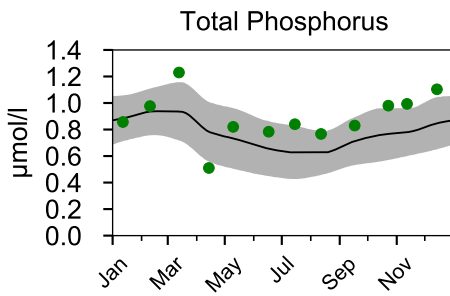
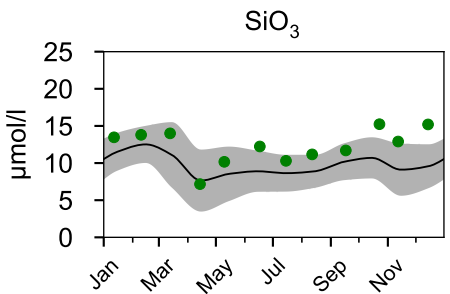
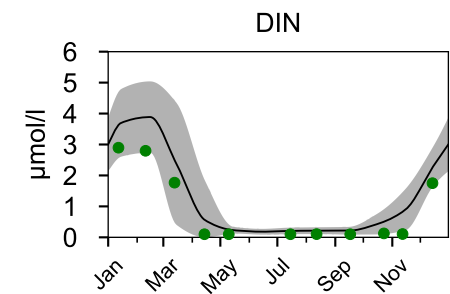
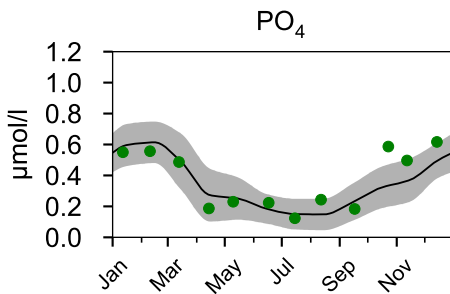
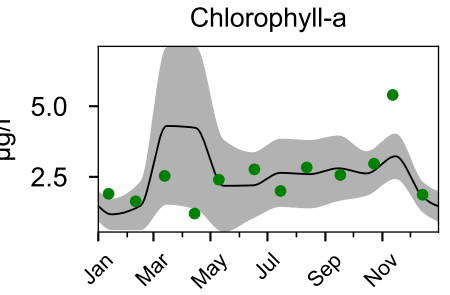
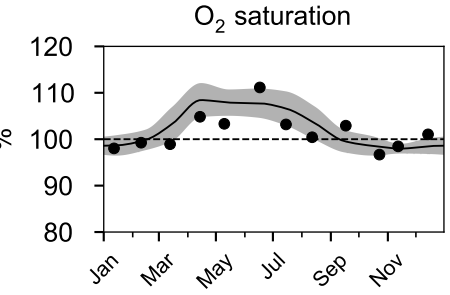
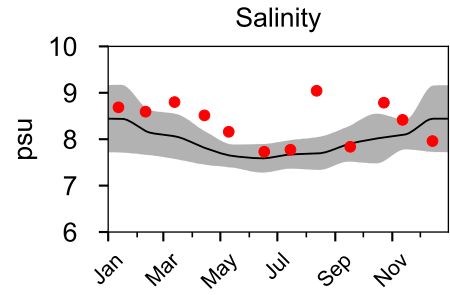
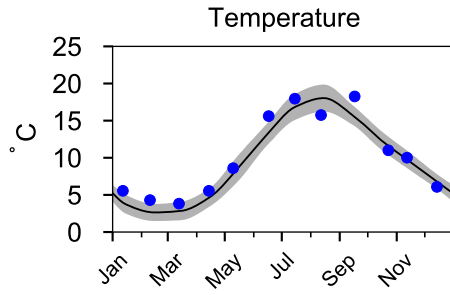
# STATION BCS III-10 SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023



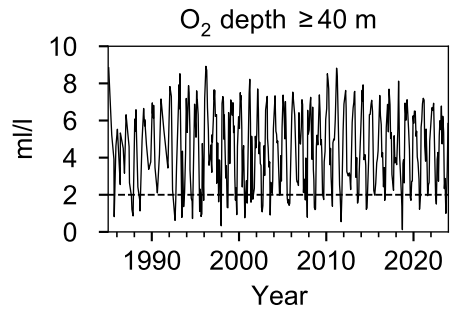
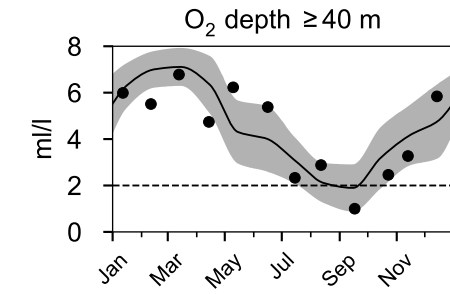
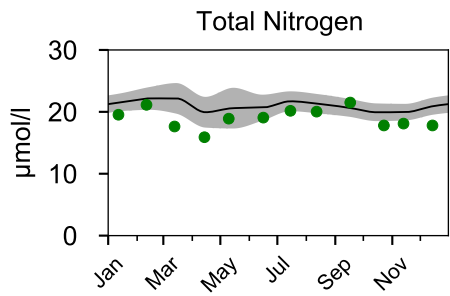
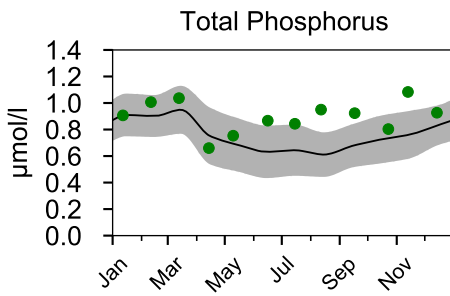
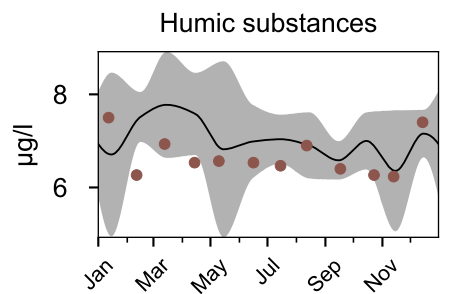
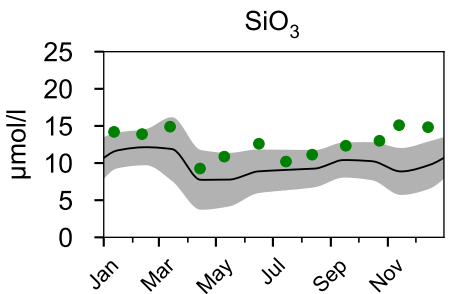
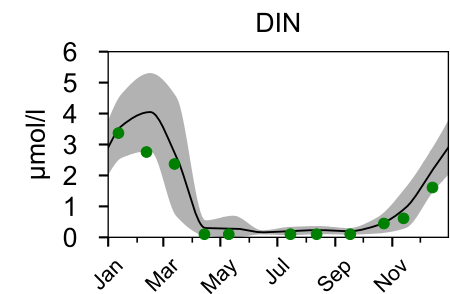
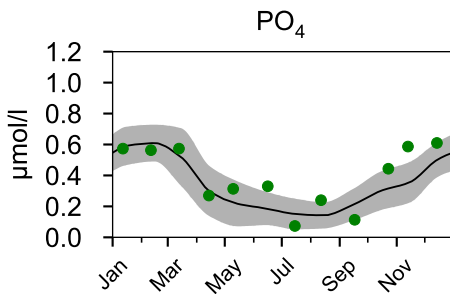
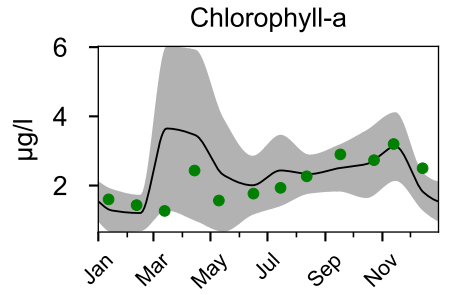
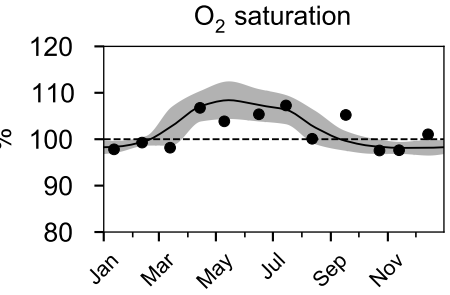
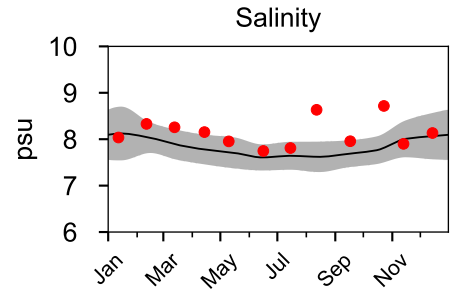
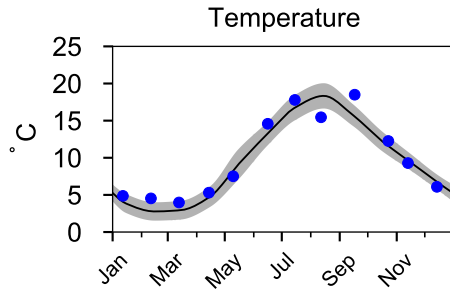
# STATION BY1 SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023



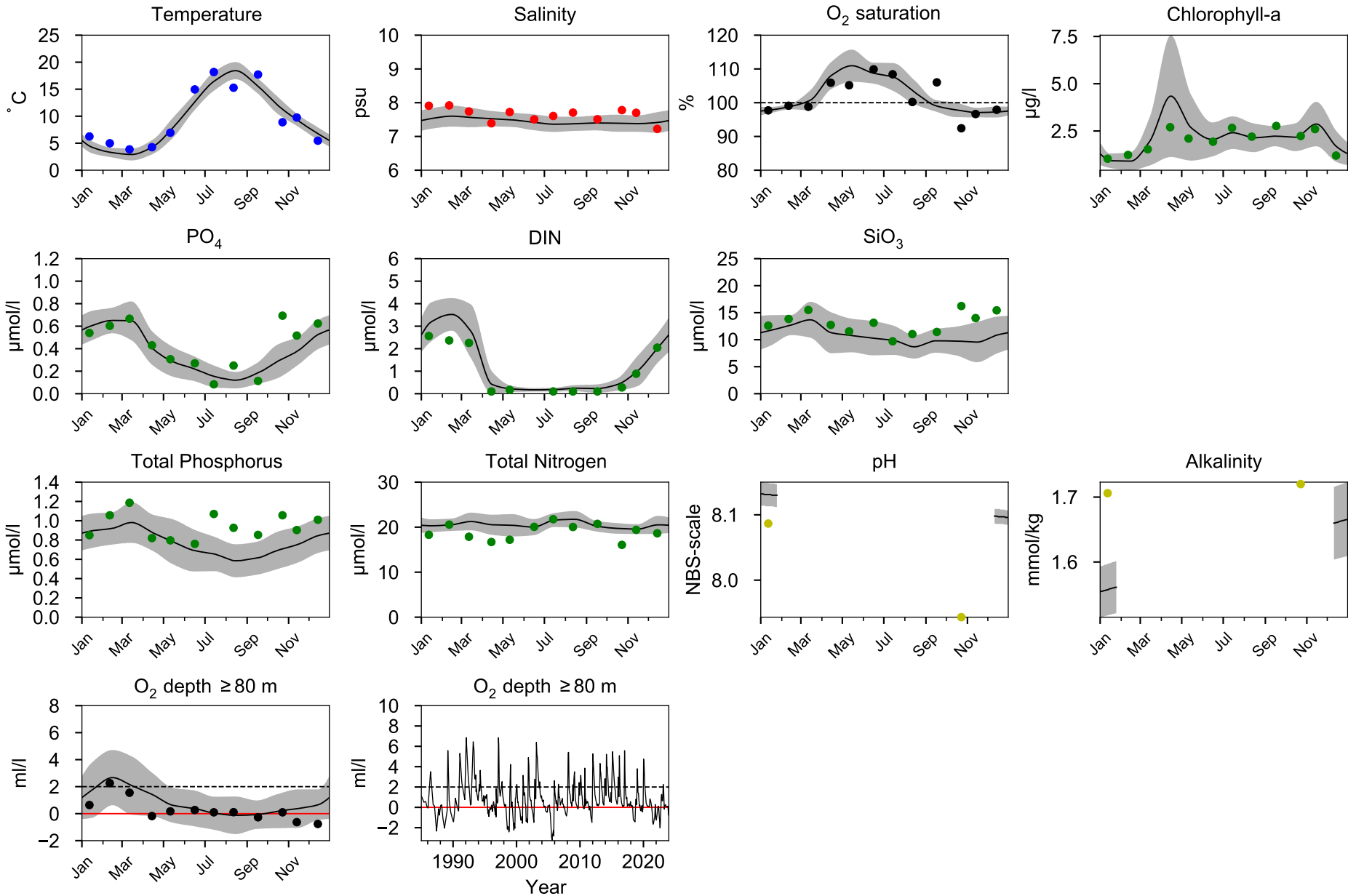
# STATION BY2 ARKONA SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023



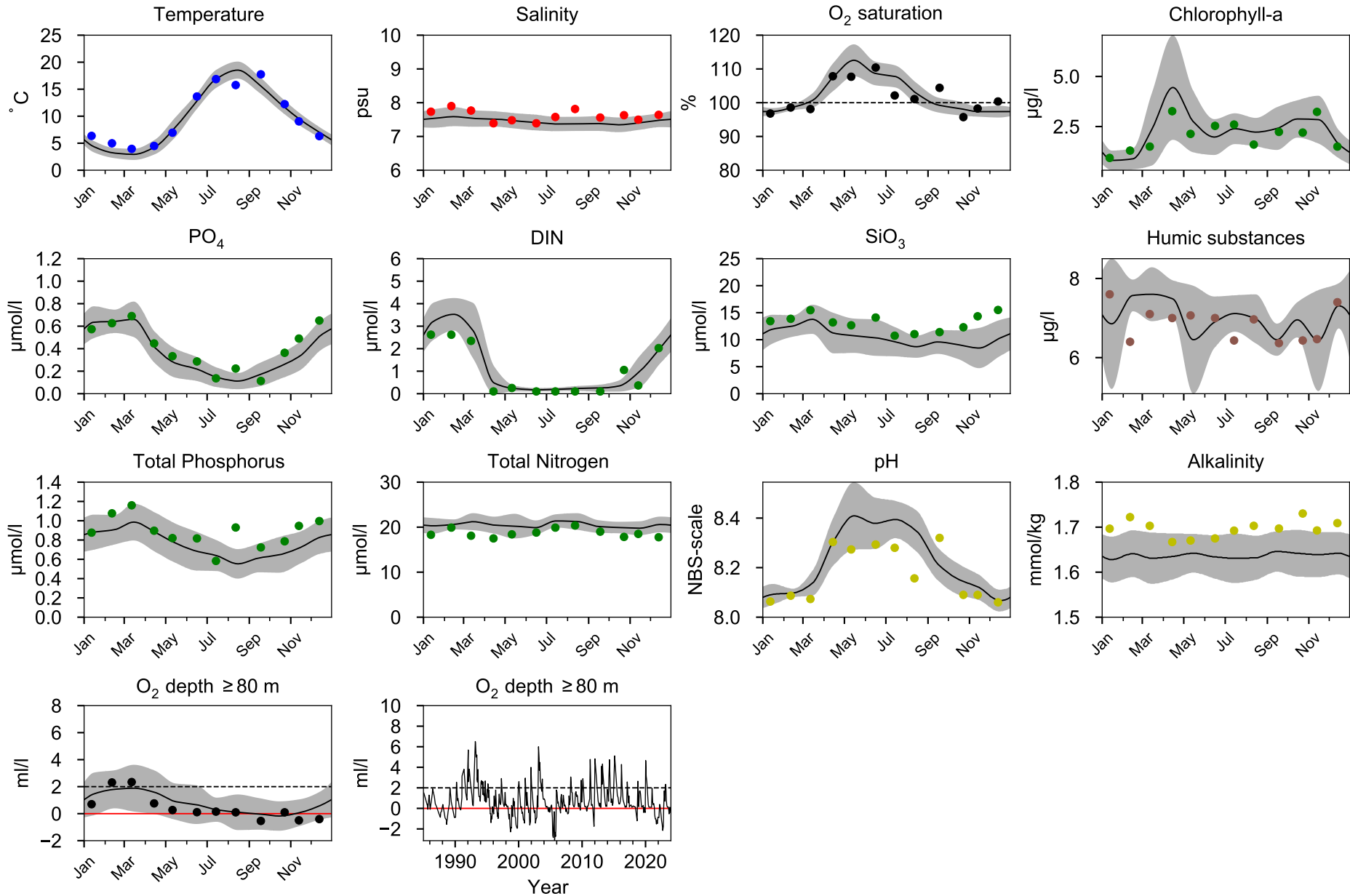
# STATION BY4 CHRISTIANSÖ SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023



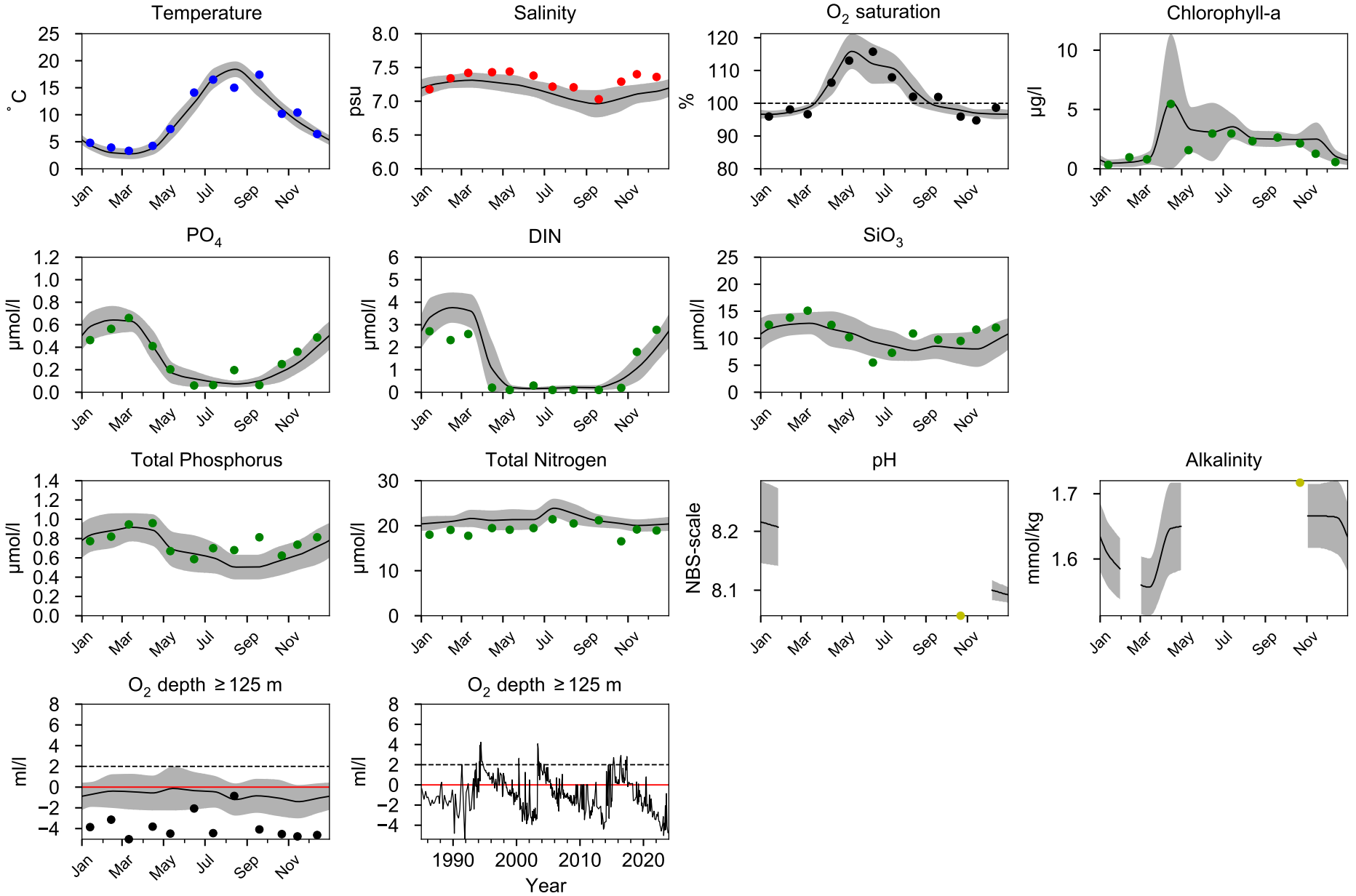
# STATION BY5 BORNHOLMSDJ SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023



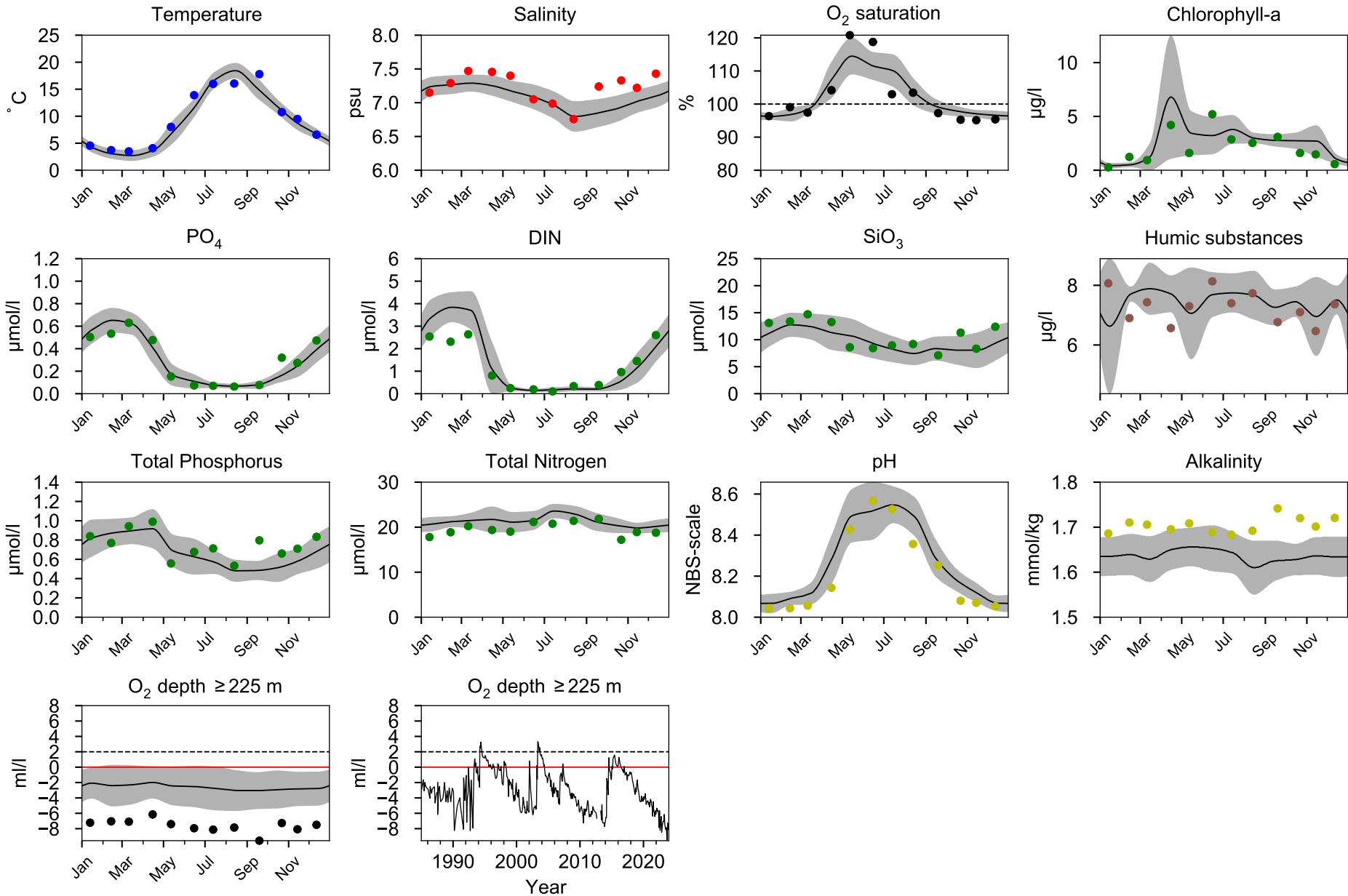
# STATION BY10 SURFACE WATER (0-10 m)

— Mean 1991-2020    St.Dev.    ● 2023



# STATION BY15 GOTLANDSDJ SURFACE WATER (0-10 m)

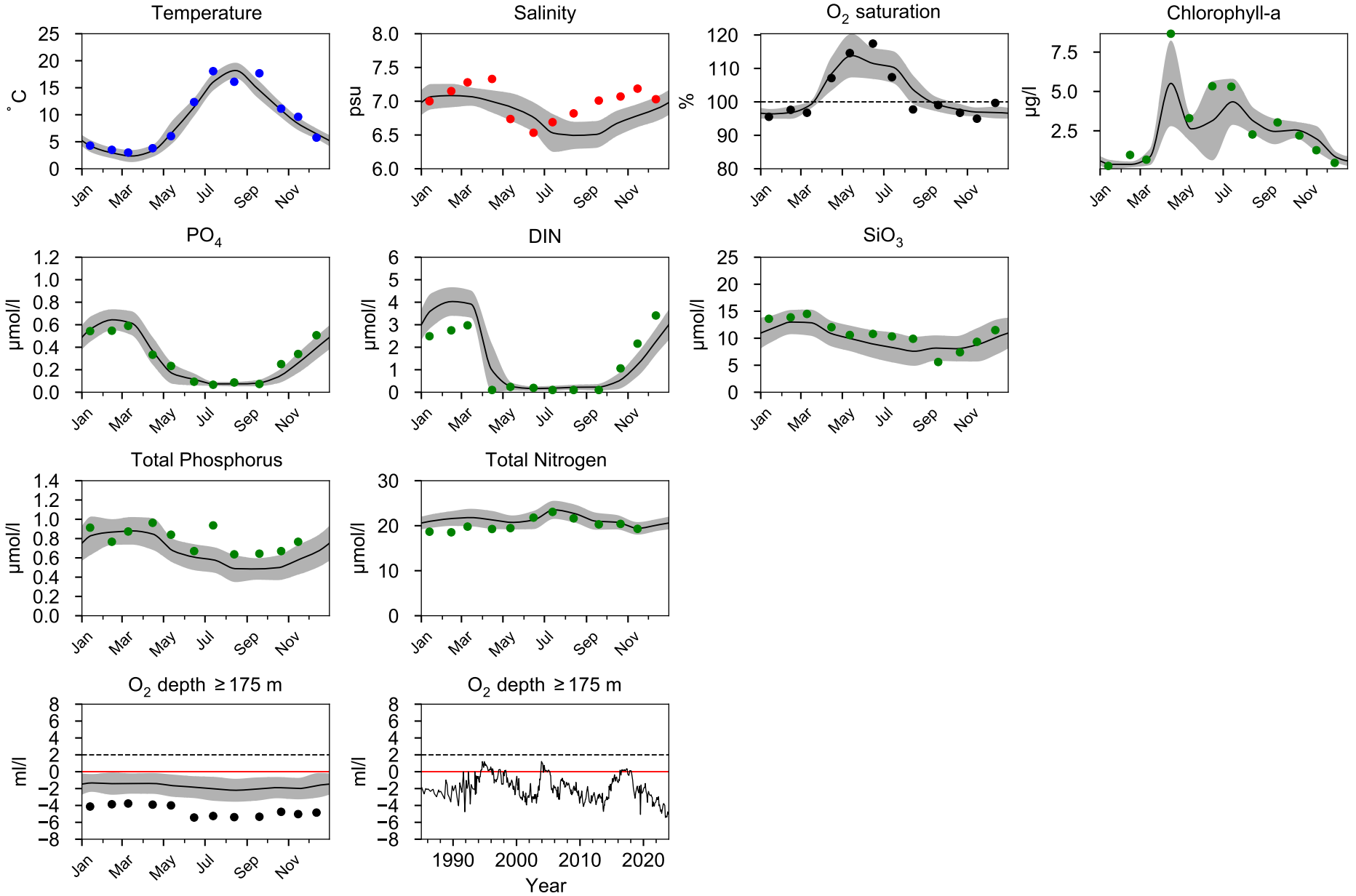
— Mean 1991-2020    ■ St.Dev.    ● 2023





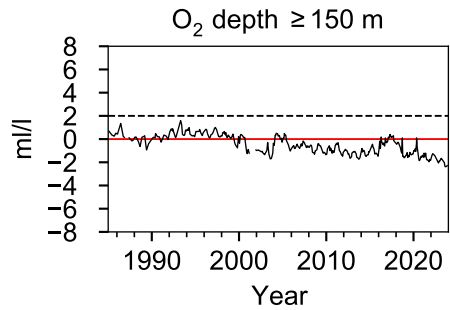
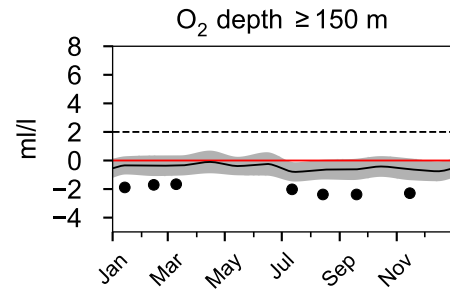
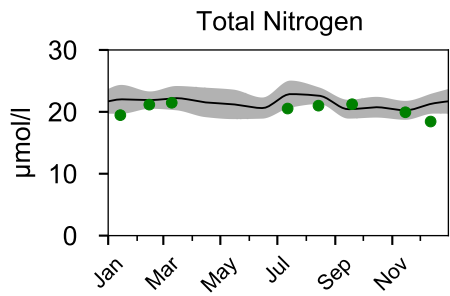
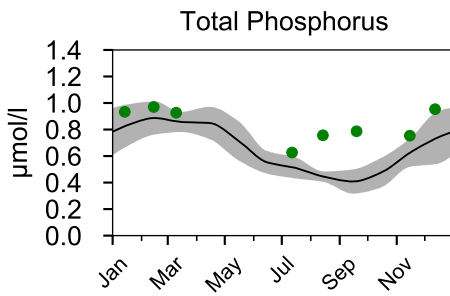
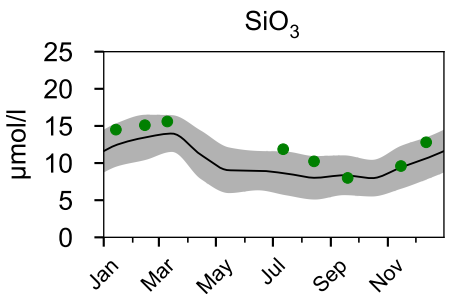
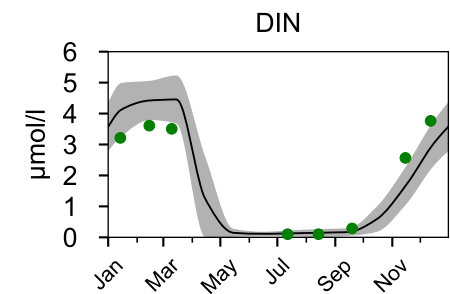
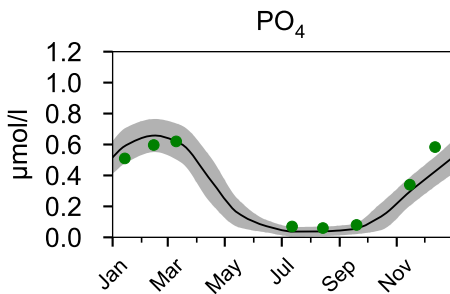
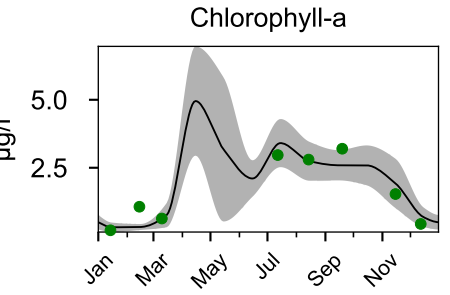
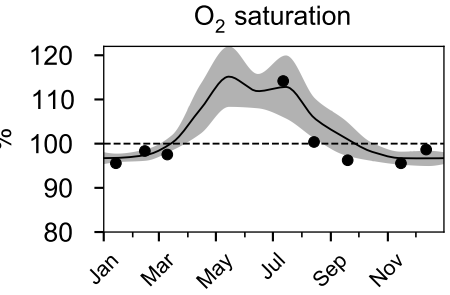
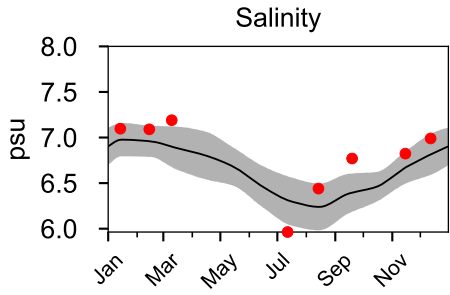
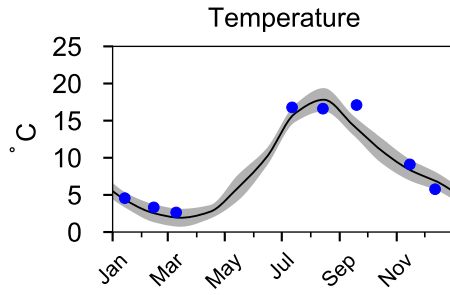
# STATION BY20 FÄRÖDJ SURFACE WATER (0-10 m)

— Mean 1991-2020    St.Dev.    ● 2023



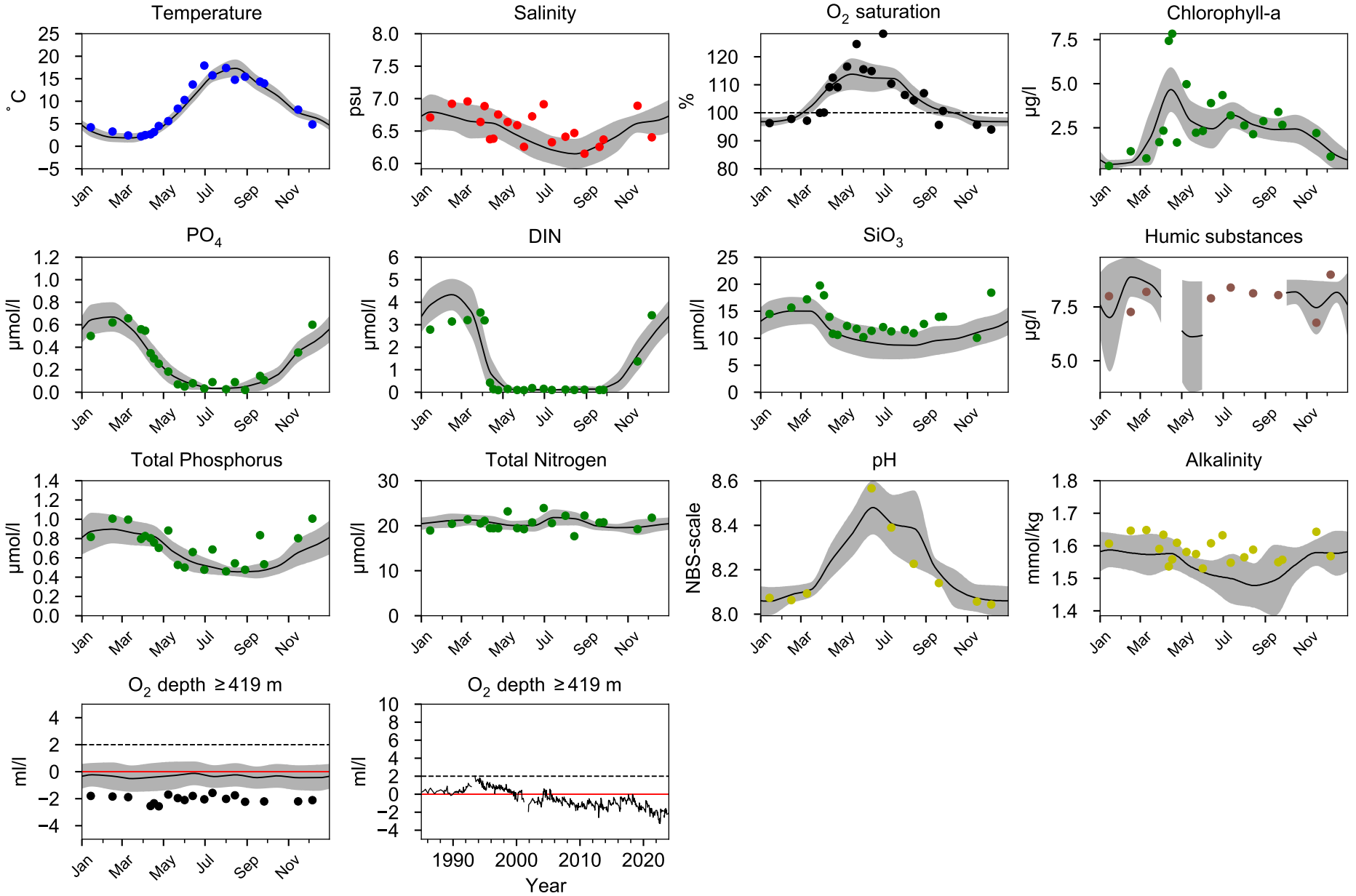
# STATION BY29 / LL19 SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023



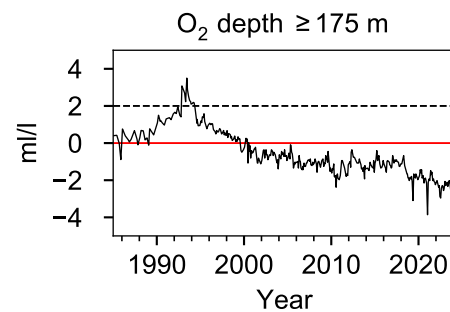
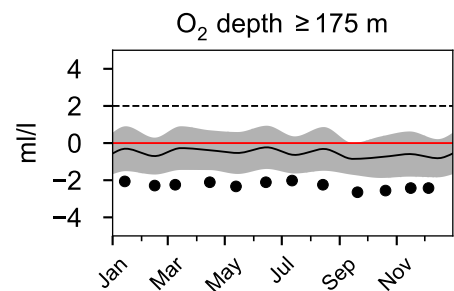
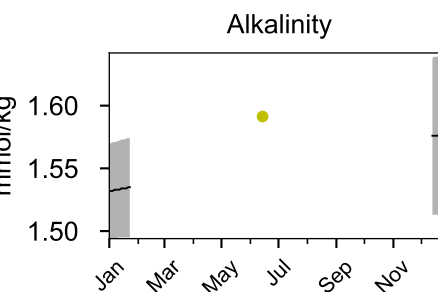
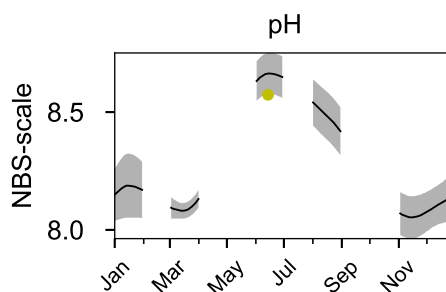
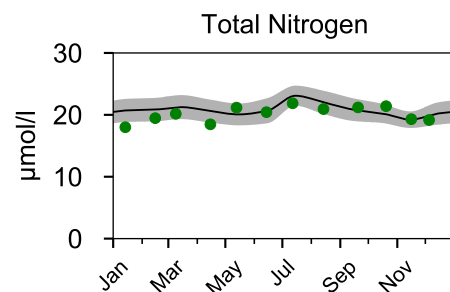
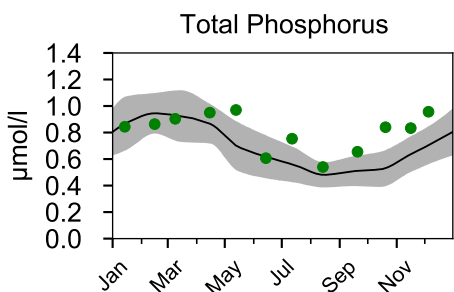
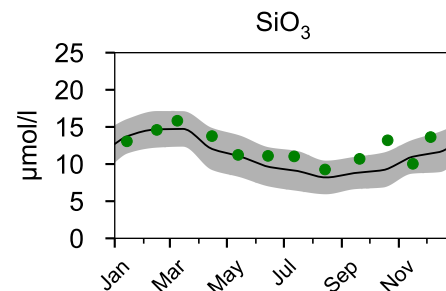
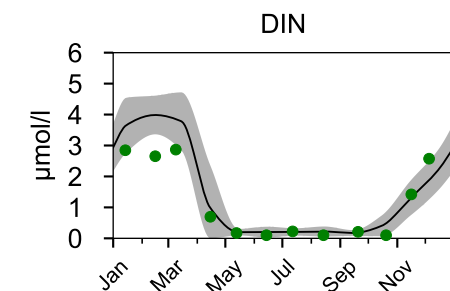
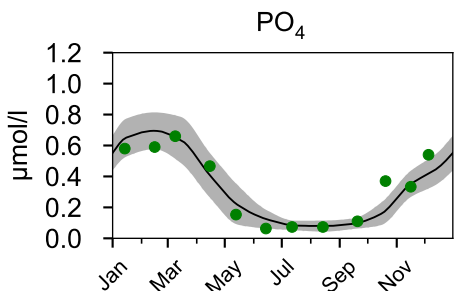
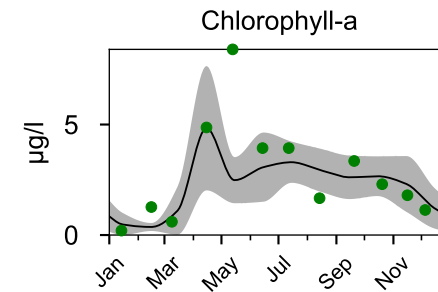
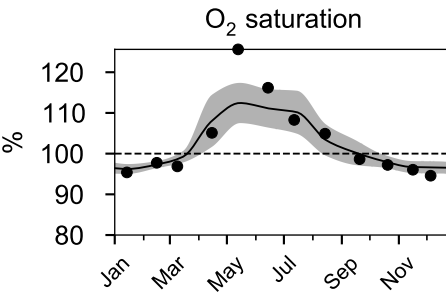
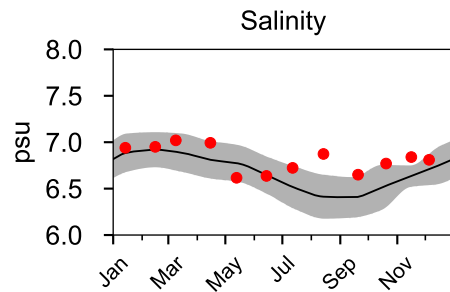
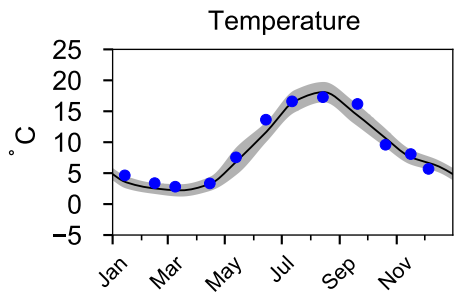
# STATION BY31 LANDSORTSDJ SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023



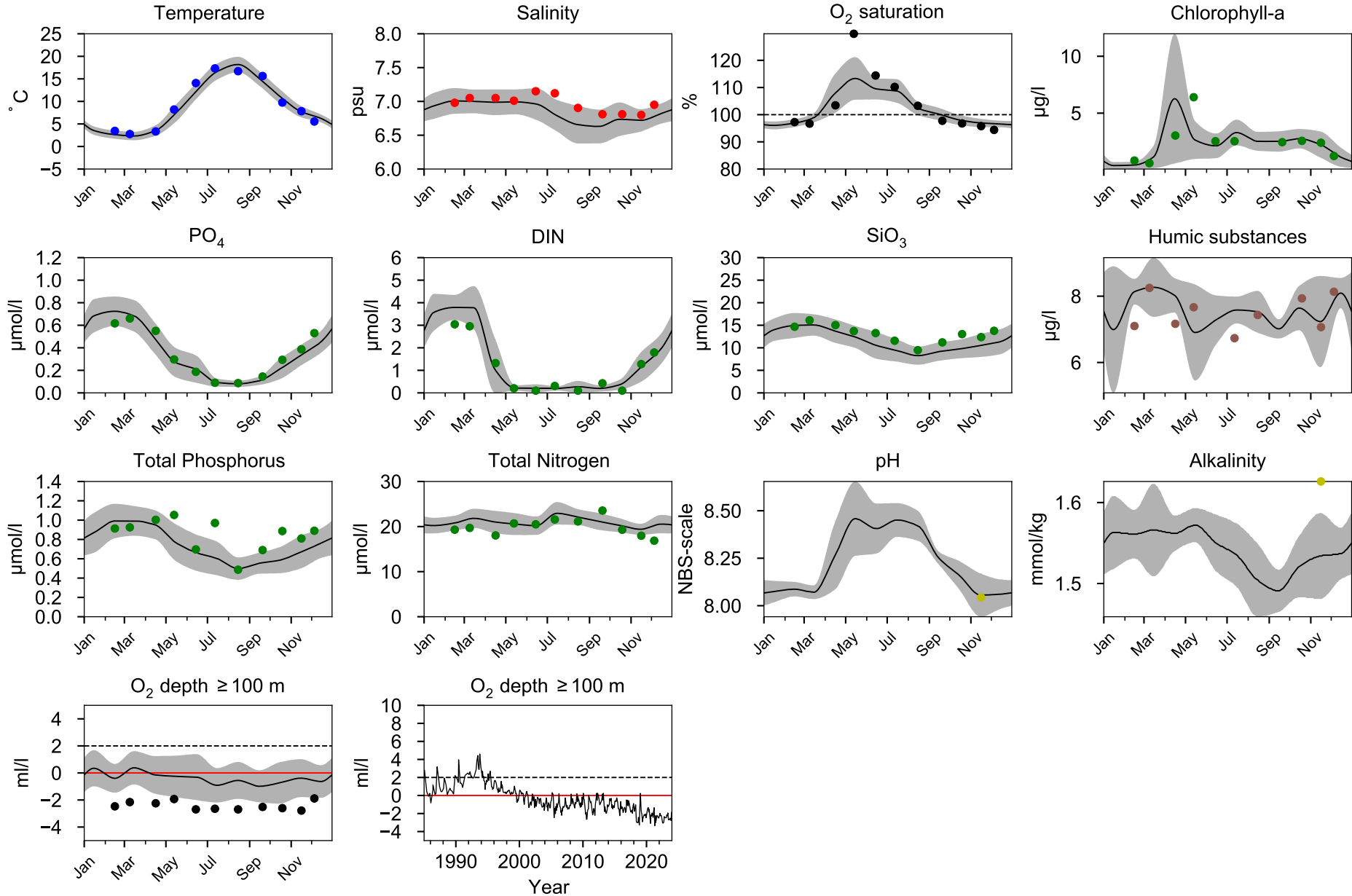
# STATION BY32 NORRKÖPINGSDJ SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023



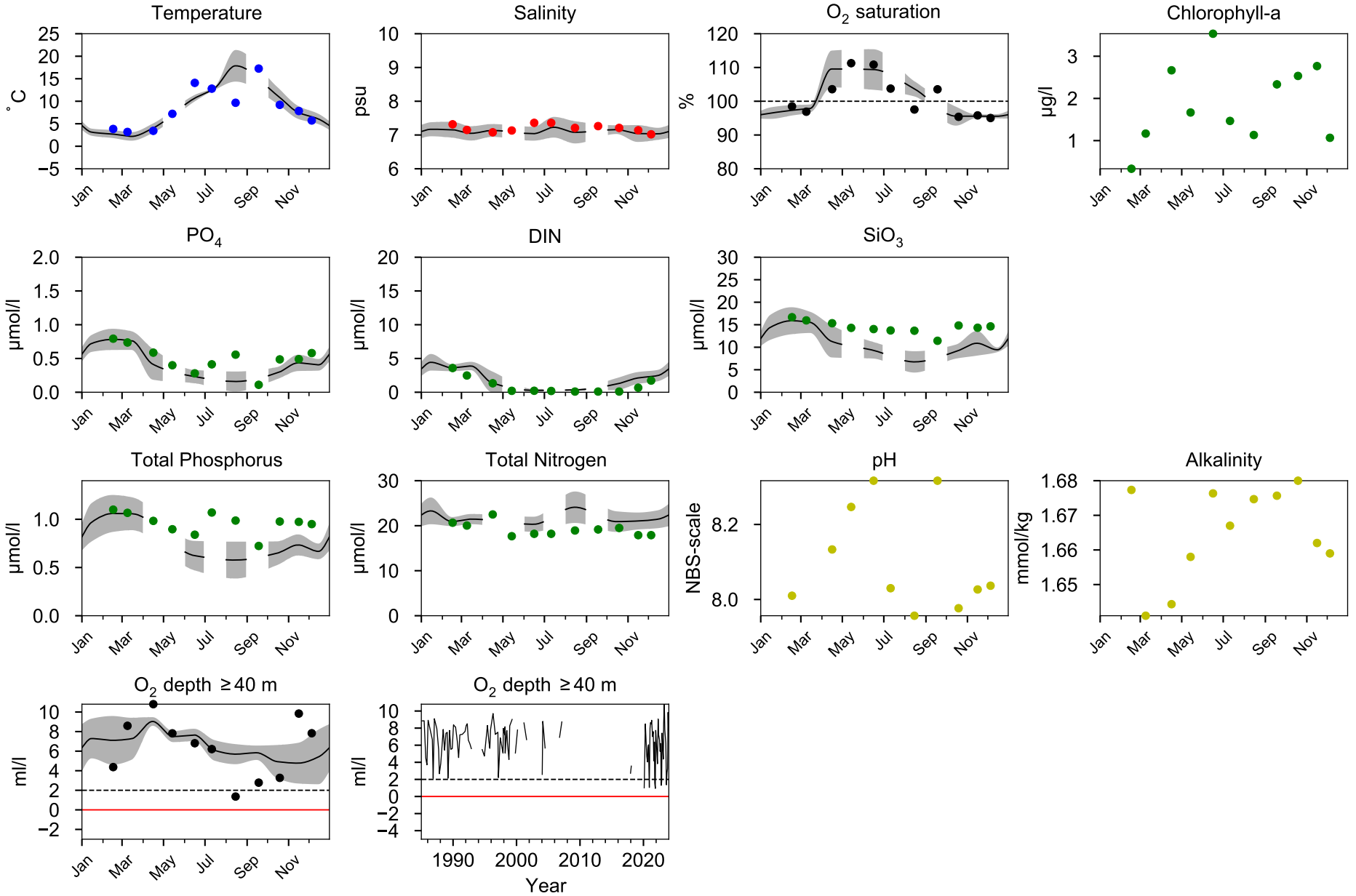
# STATION BY38 KARLSÖDJ SURFACE WATER (0-10 m)

— Mean 1991-2020    St.Dev.    ● 2023



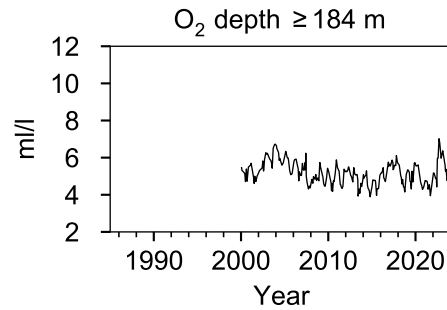
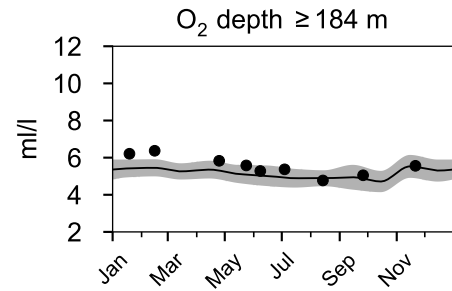
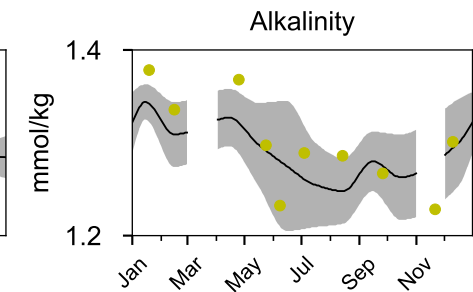
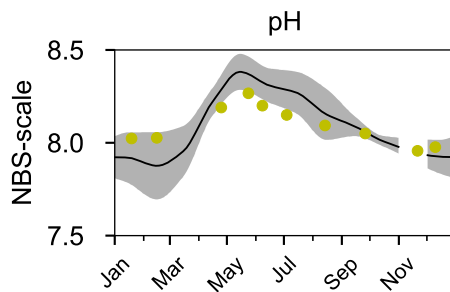
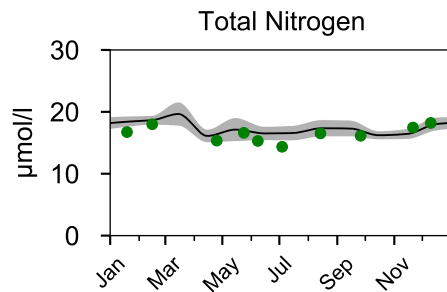
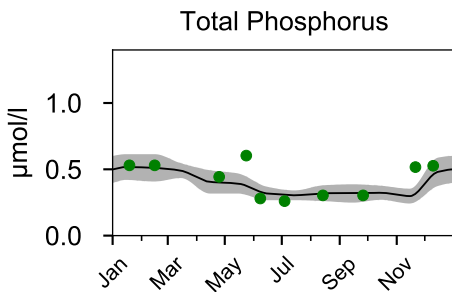
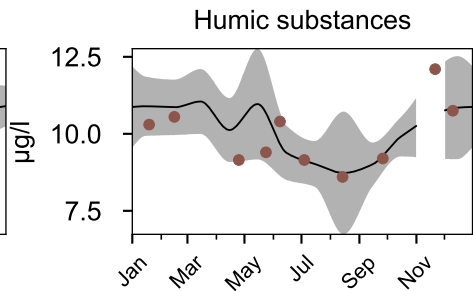
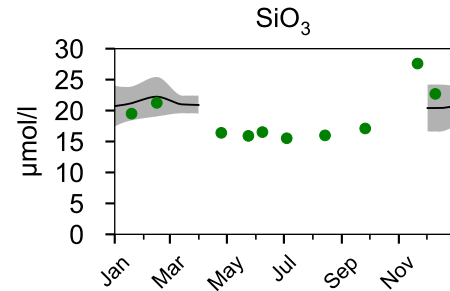
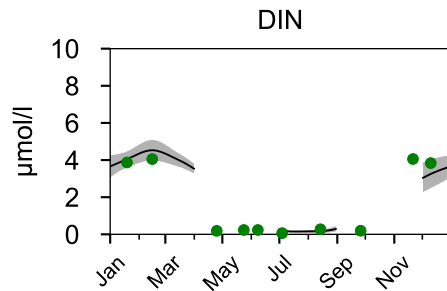
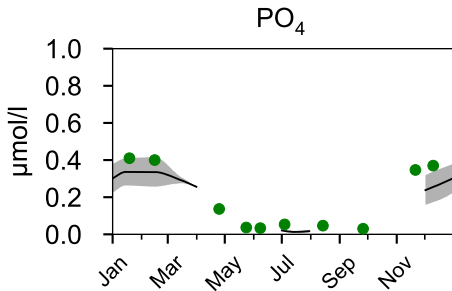
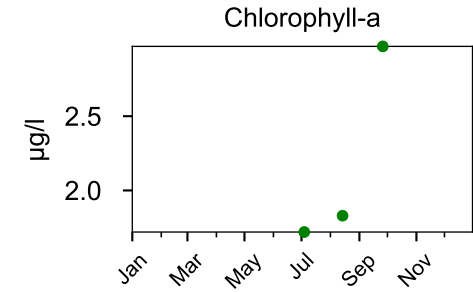
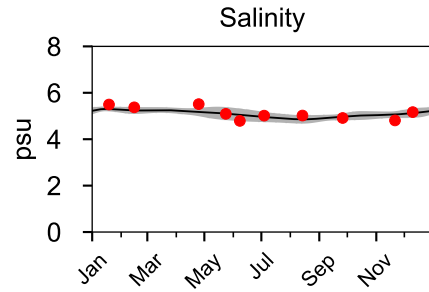
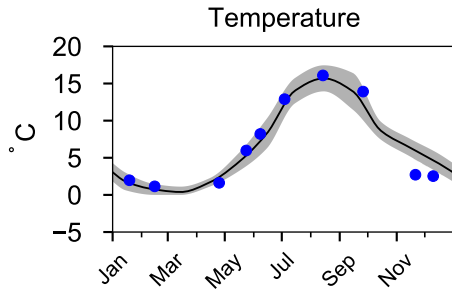
# STATION BY39 ÖLANDS S UDDE SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023



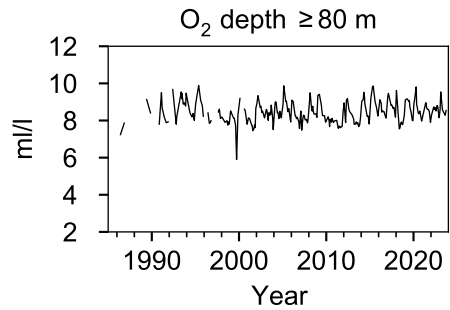
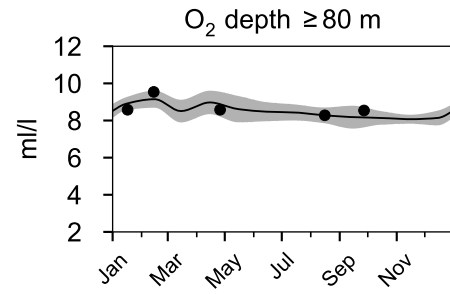
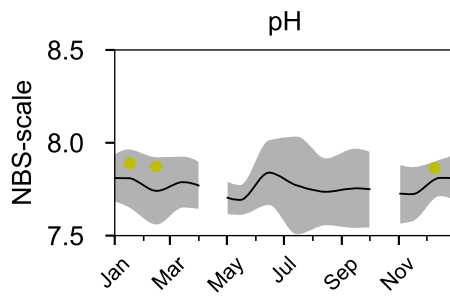
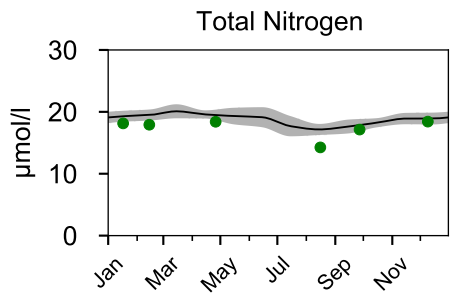
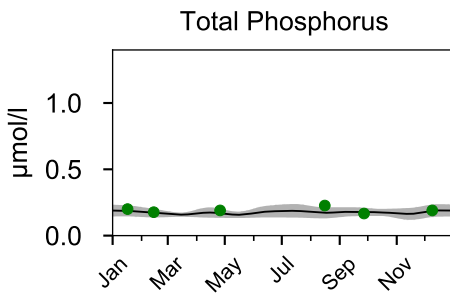
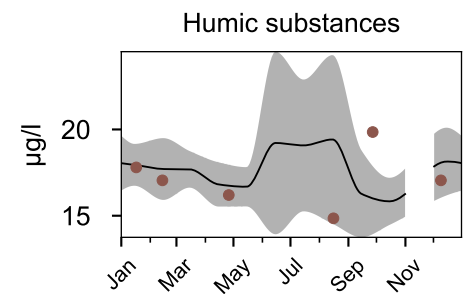
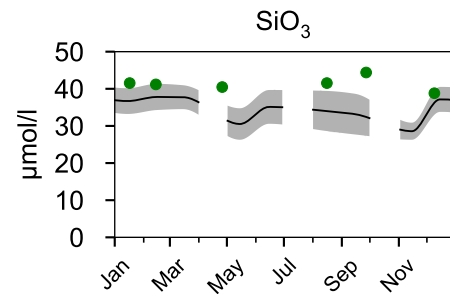
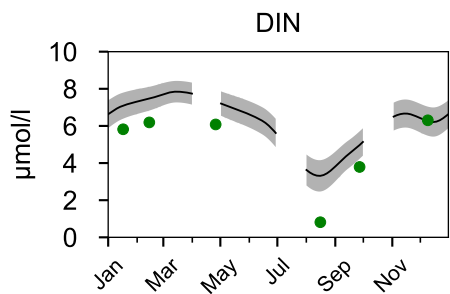
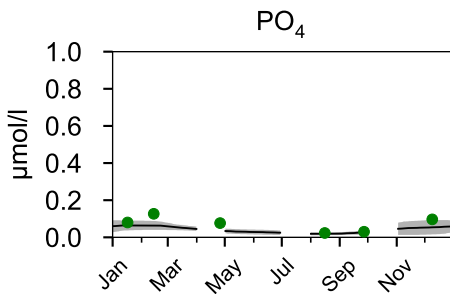
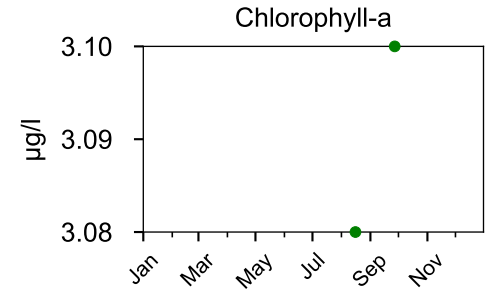
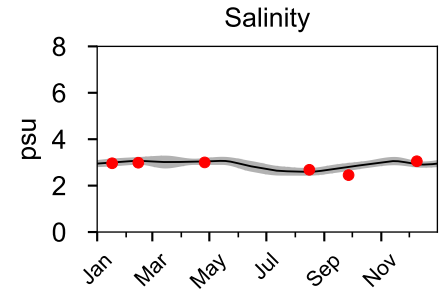
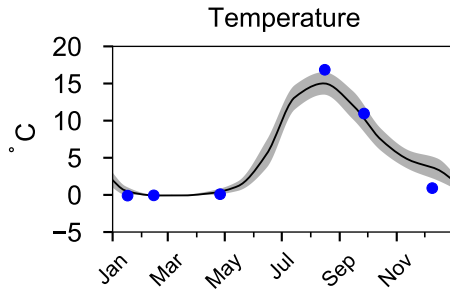
# STATION C3 SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023



# STATION F3 / A5 SURFACE WATER (0-10 m)

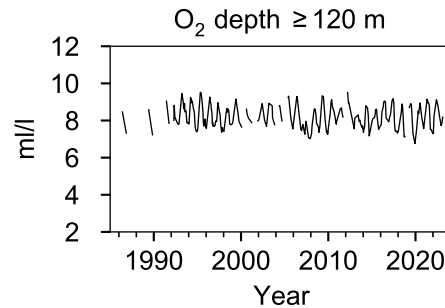
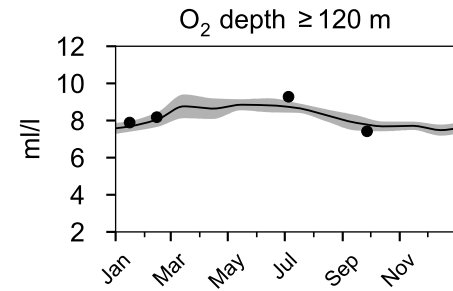
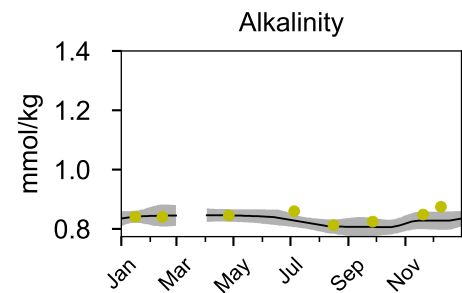
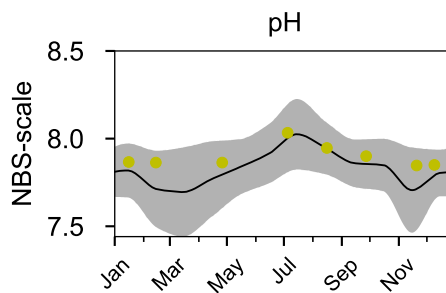
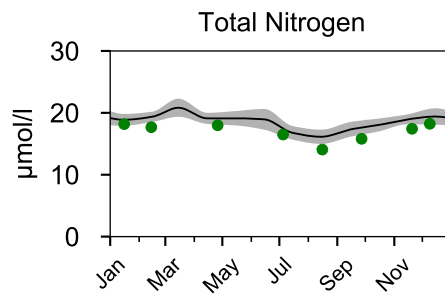
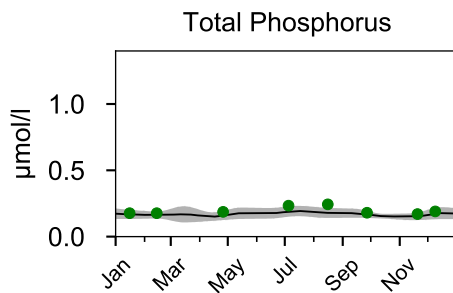
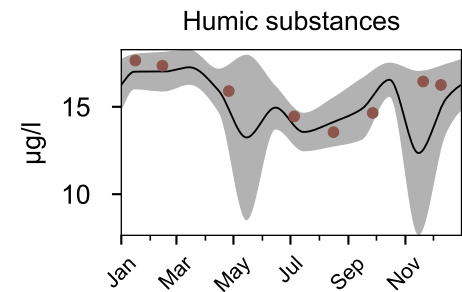
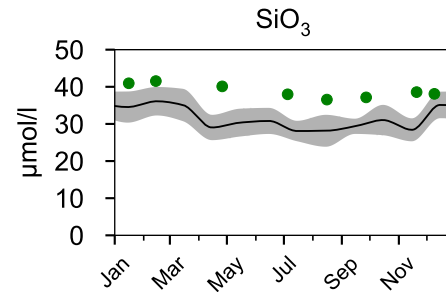
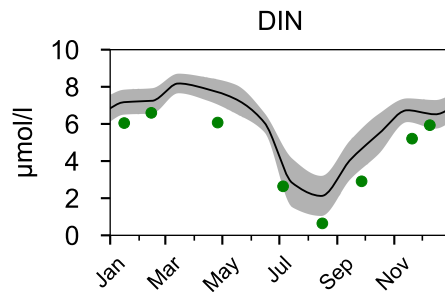
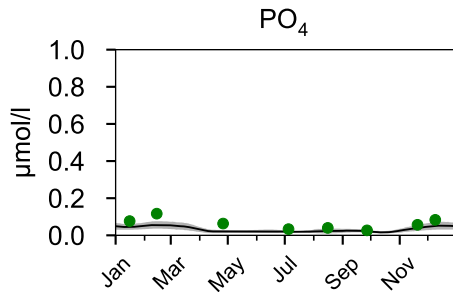
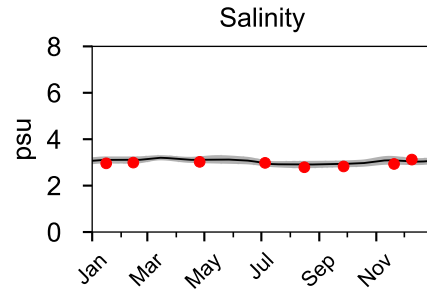
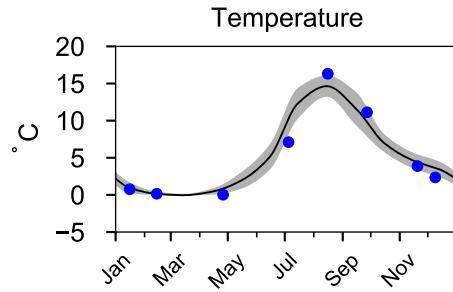
— Mean 1991-2020    ■ St.Dev.    ● 2023





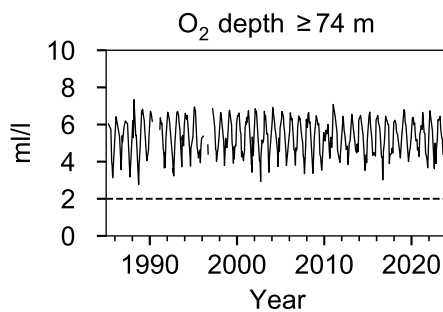
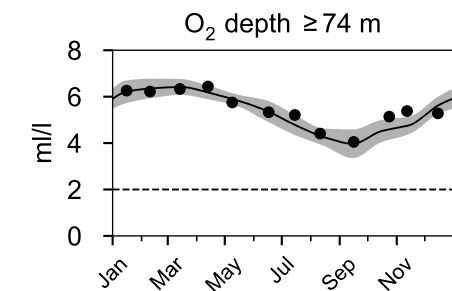
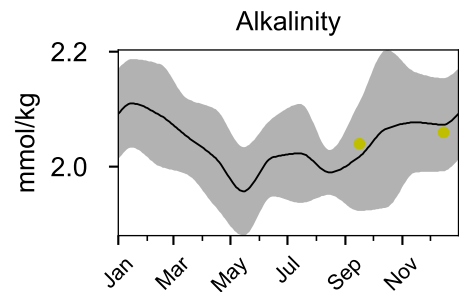
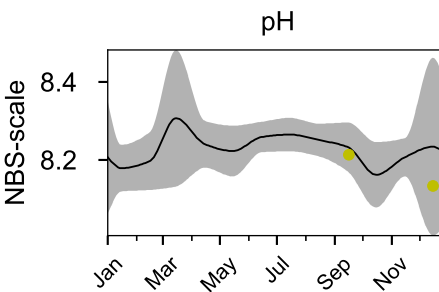
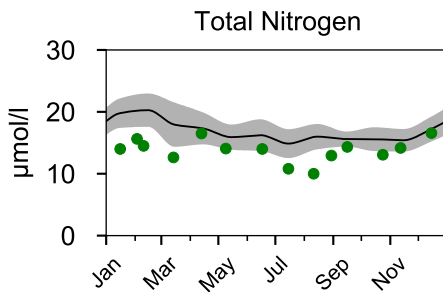
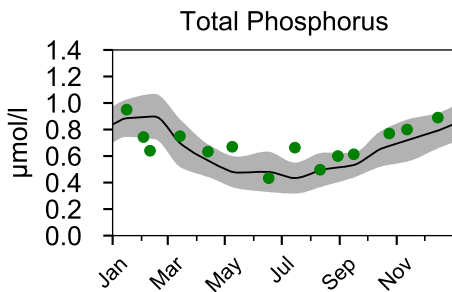
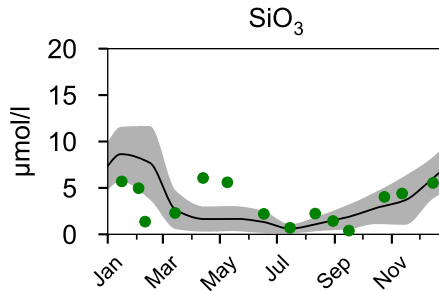
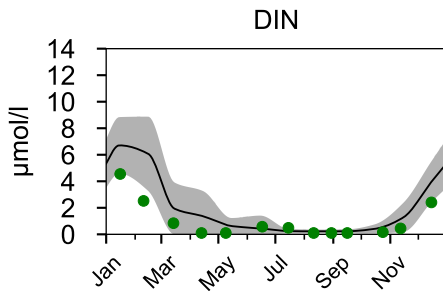
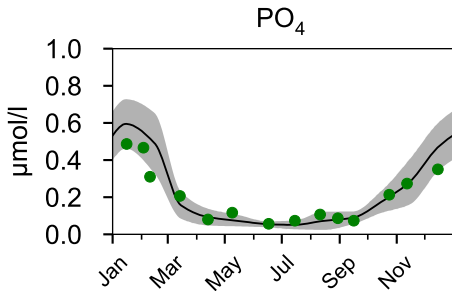
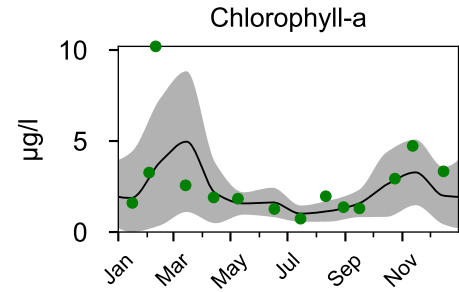
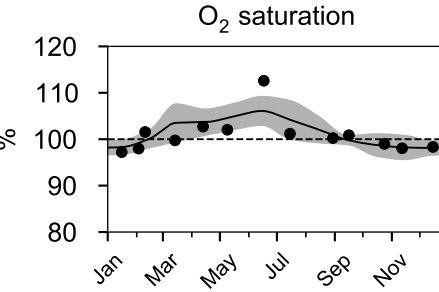
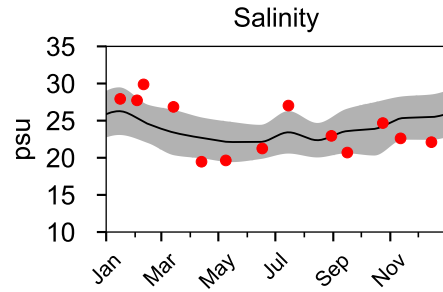
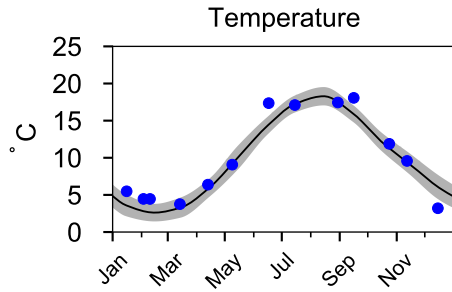
# STATION F9 / A13 SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023



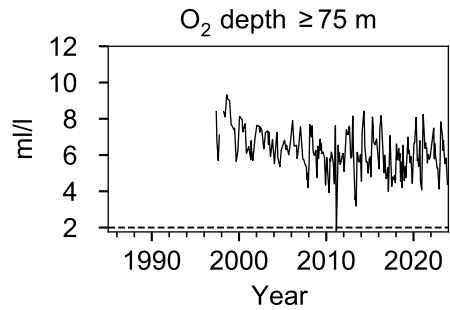
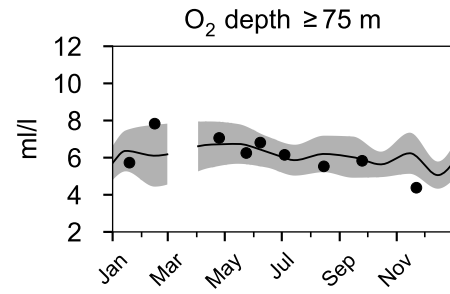
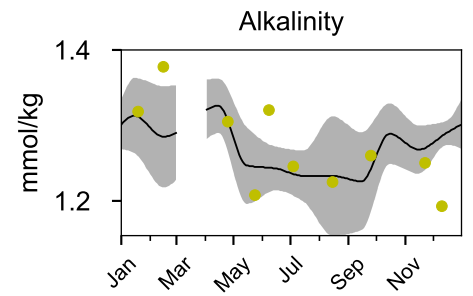
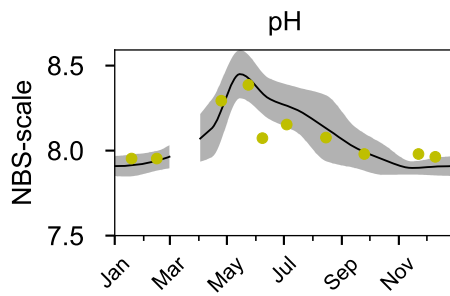
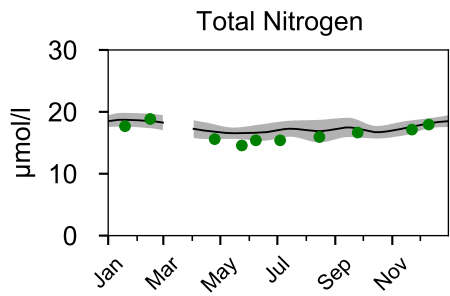
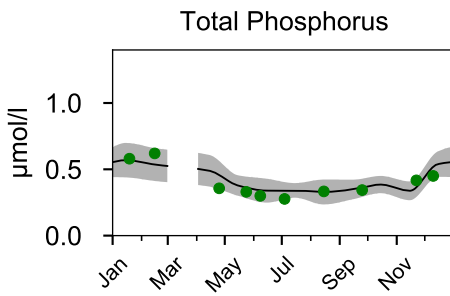
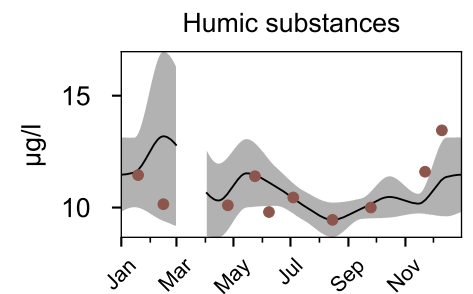
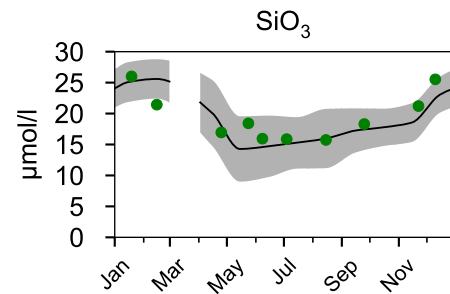
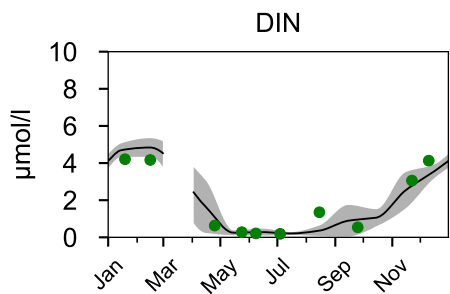
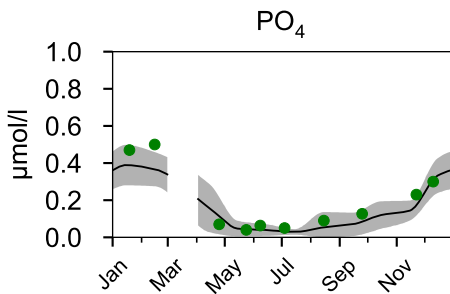
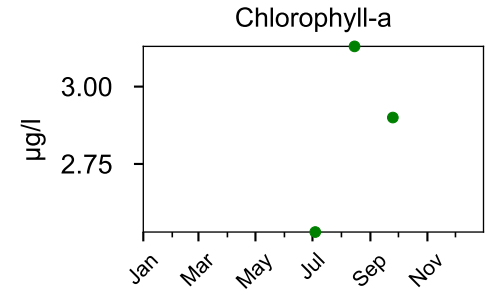
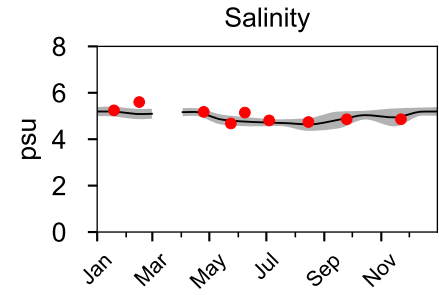
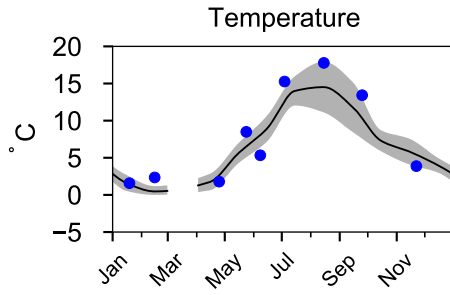
# STATION FLADEN SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023



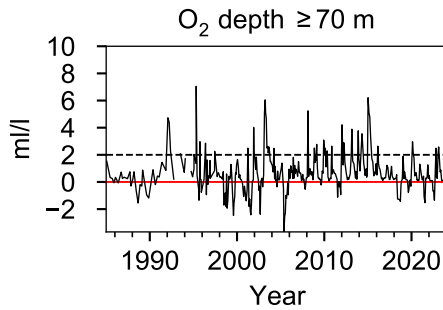
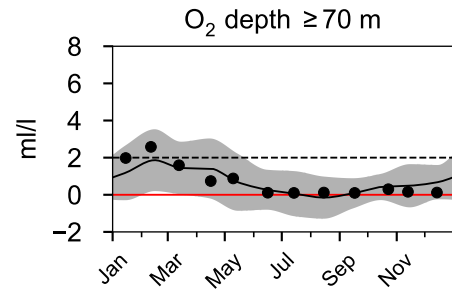
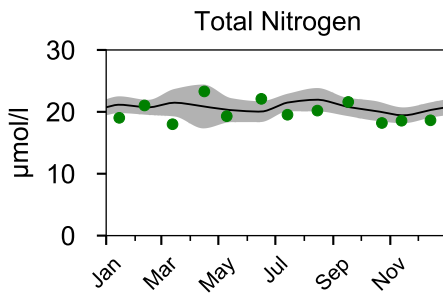
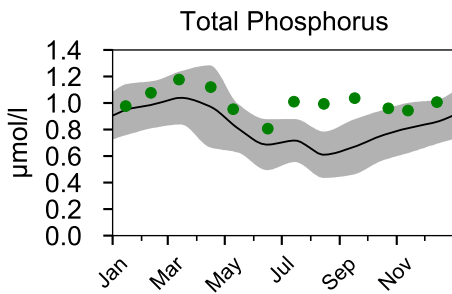
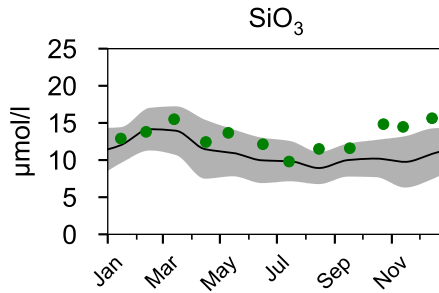
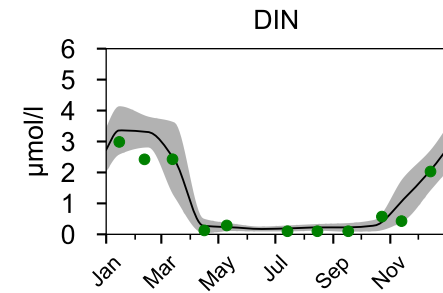
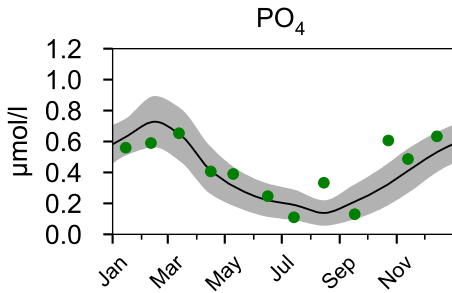
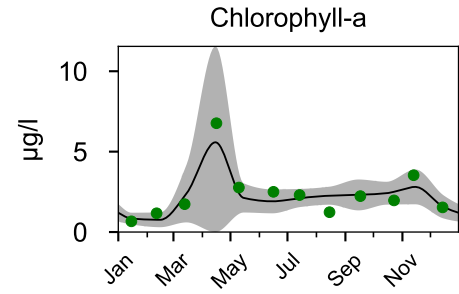
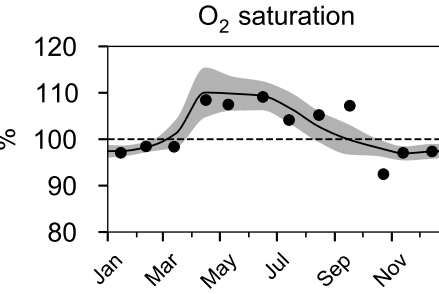
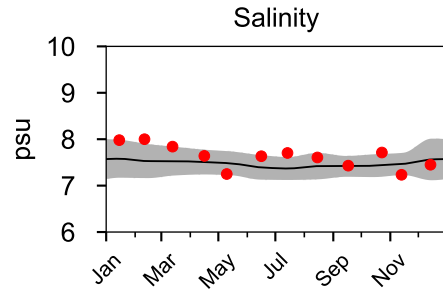
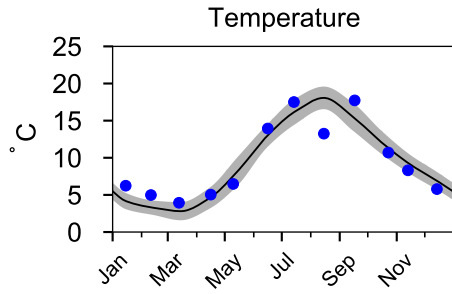
# STATION GAVIK-1 SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023



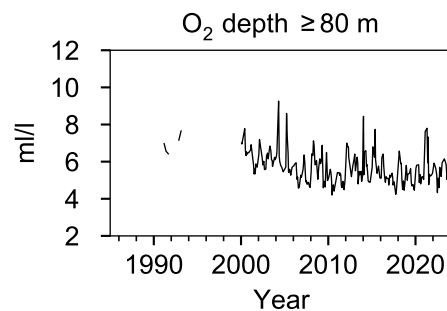
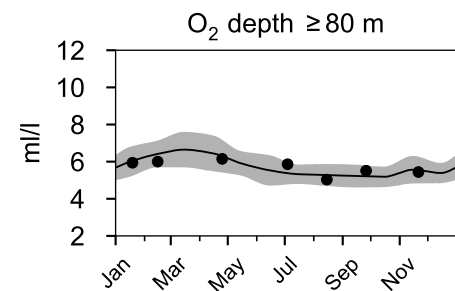
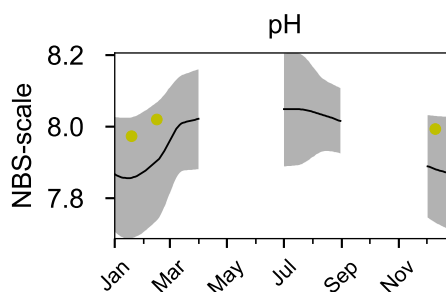
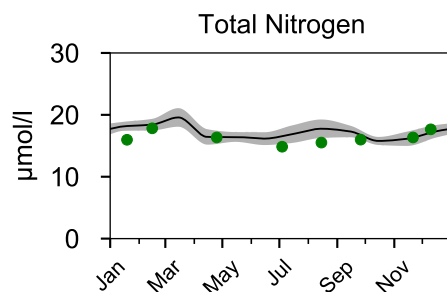
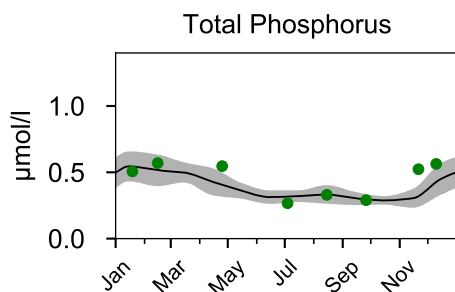
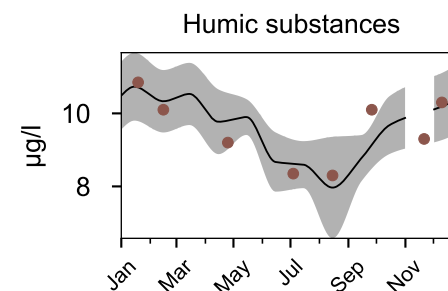
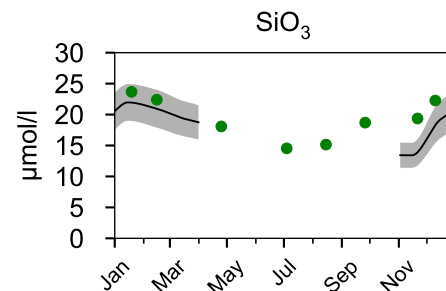
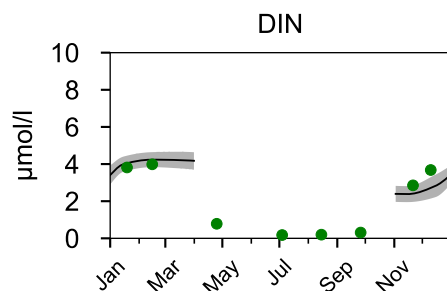
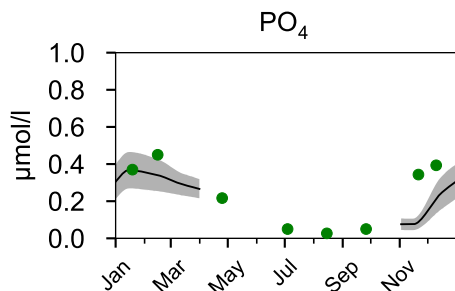
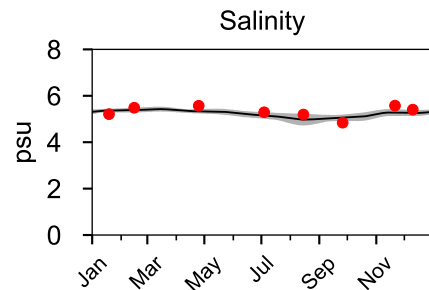
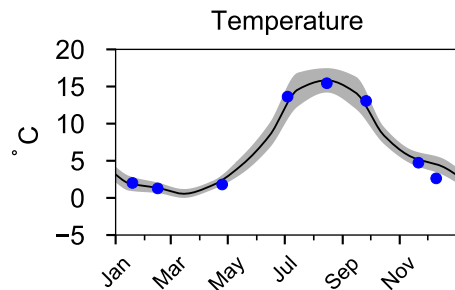
# STATION HANÖBUKTEN SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023



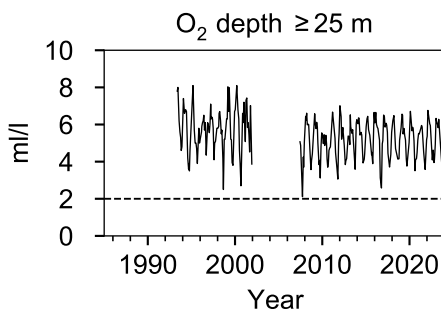
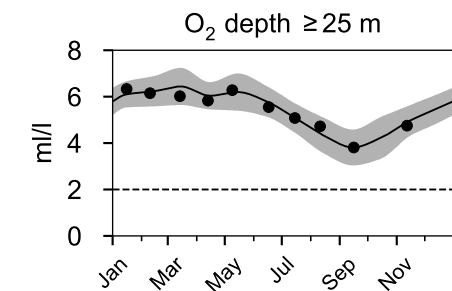
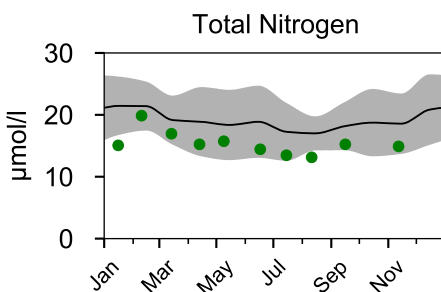
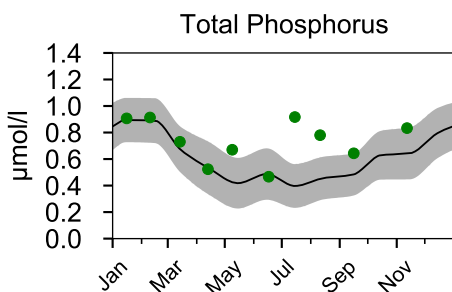
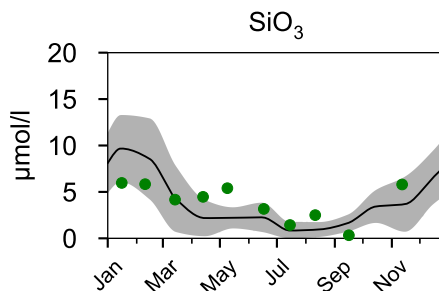
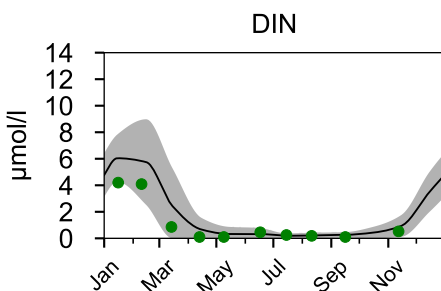
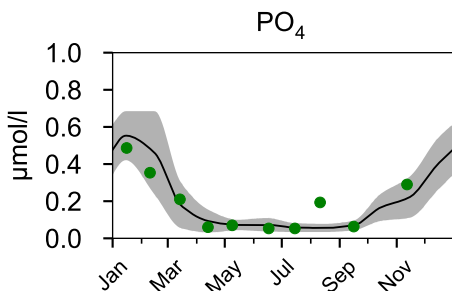
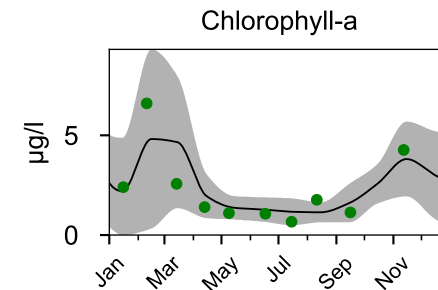
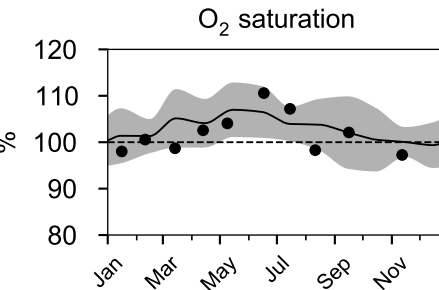
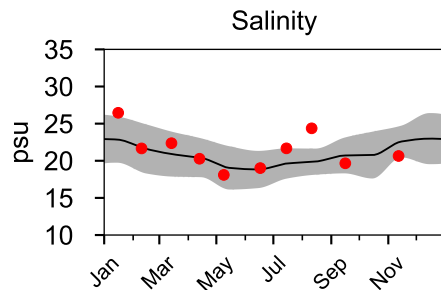
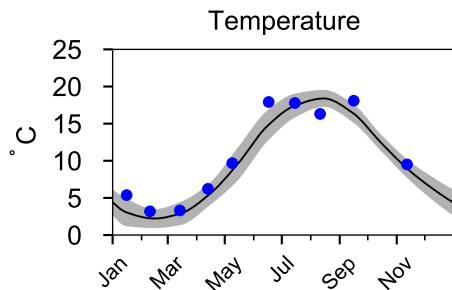
# STATION MS4 / C14 SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023



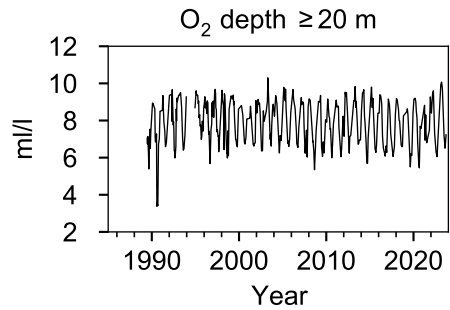
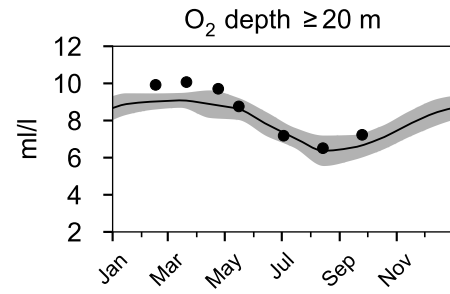
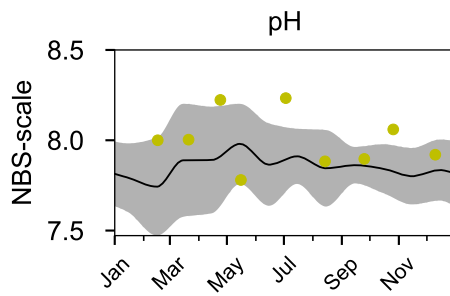
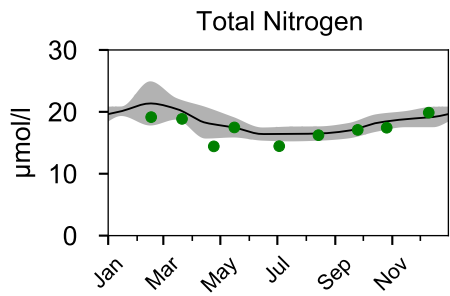
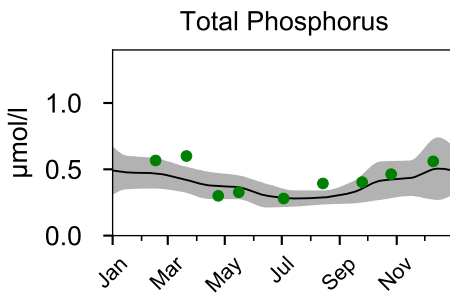
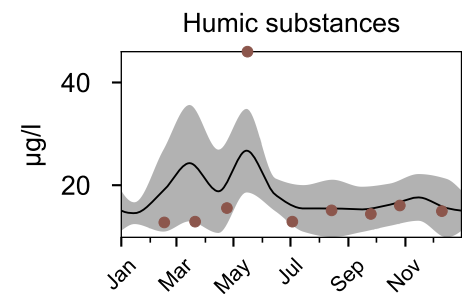
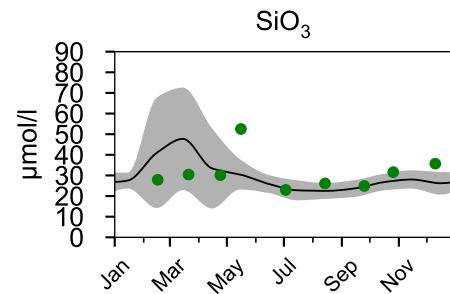
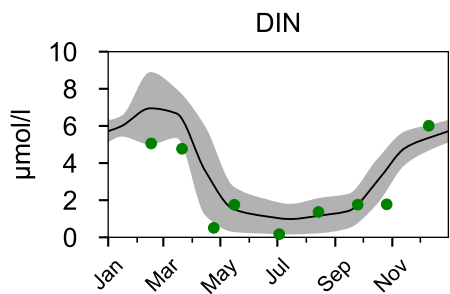
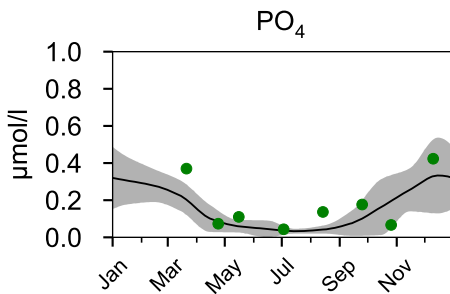
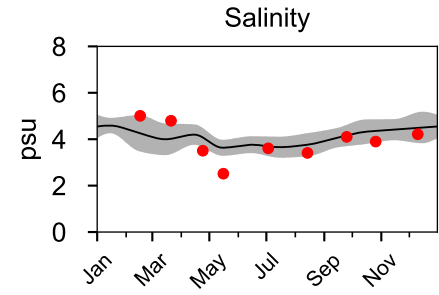
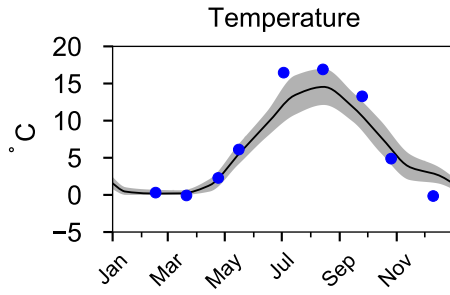
# STATION N14 FALKENBERG SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023



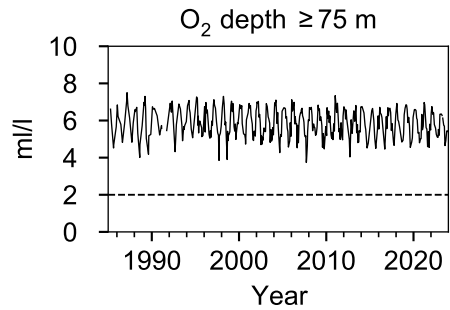
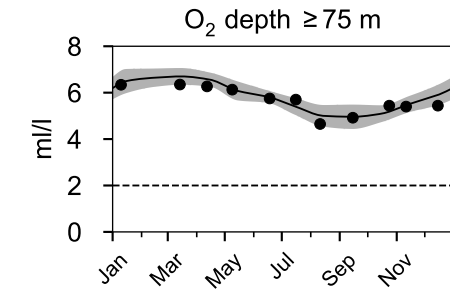
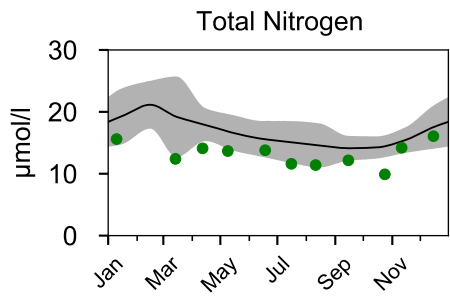
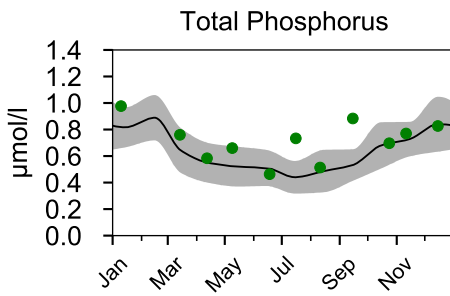
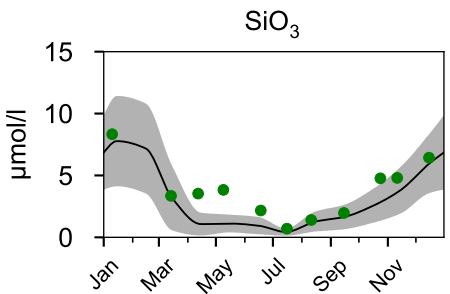
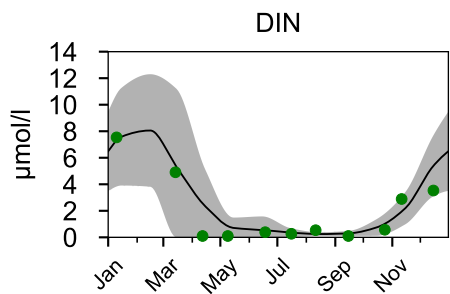
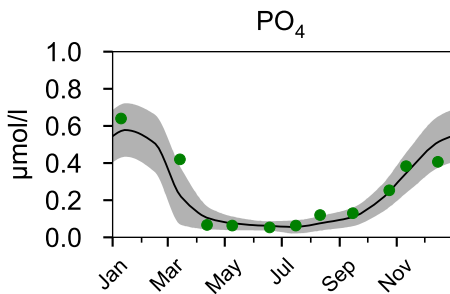
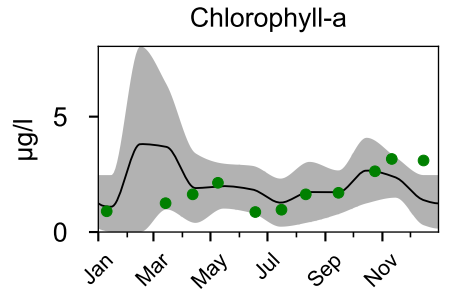
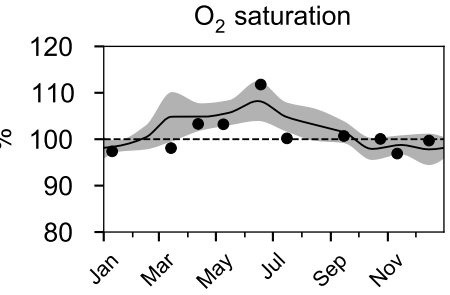
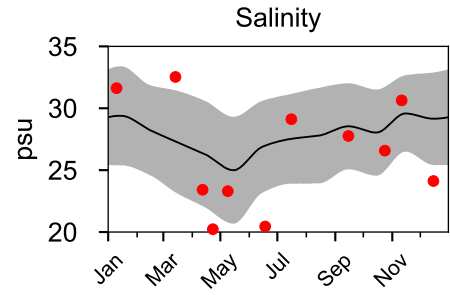
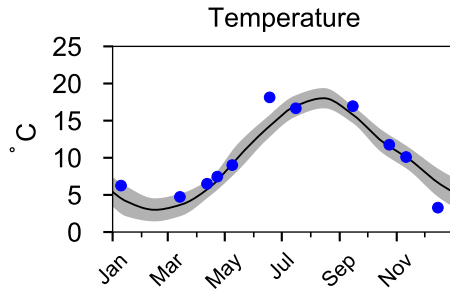
# STATION NB1 / B3 SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023



# STATION P2 SURFACE WATER (0-10 m)

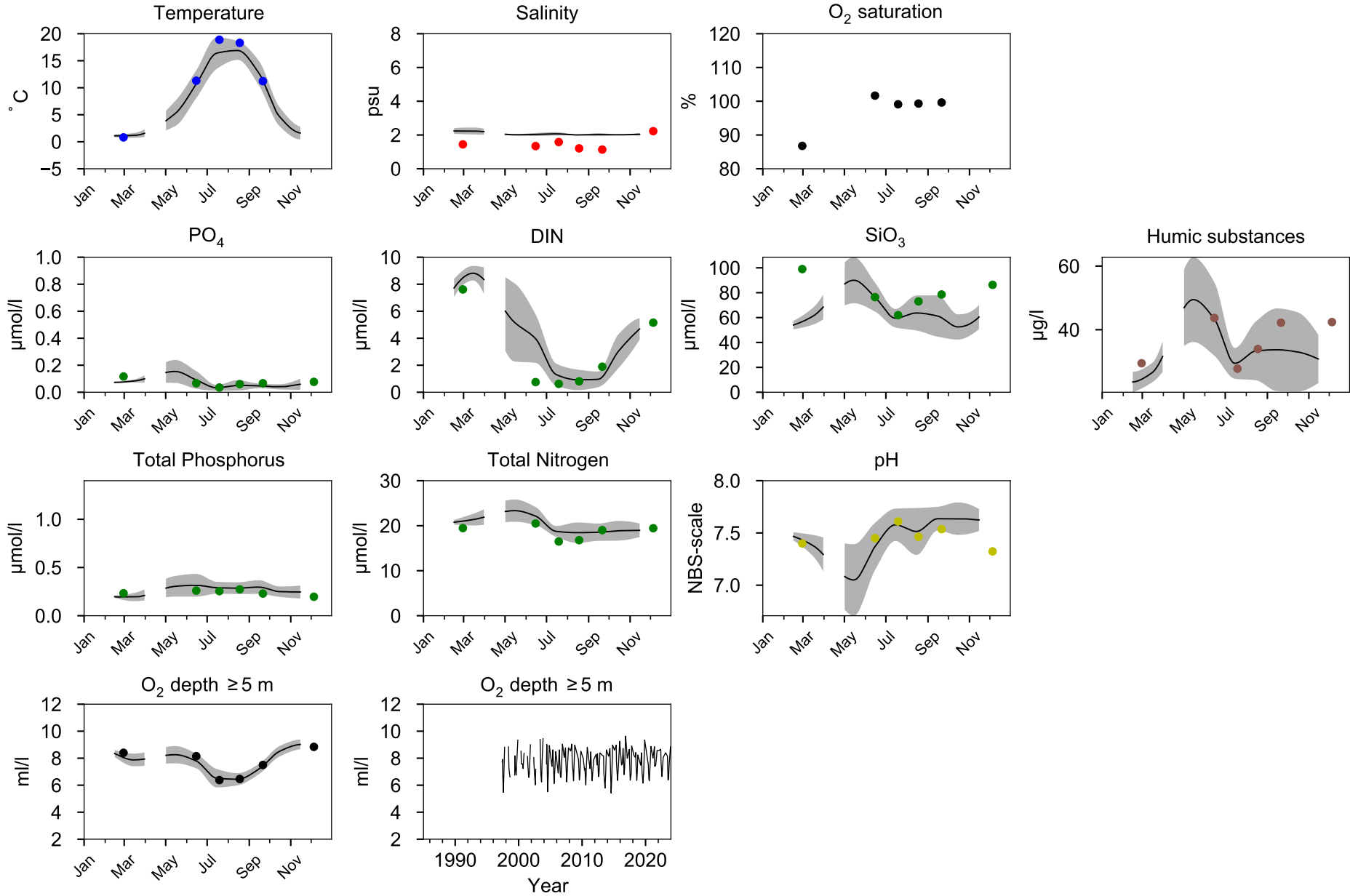
— Mean 1991-2020    St.Dev.    ● 2023





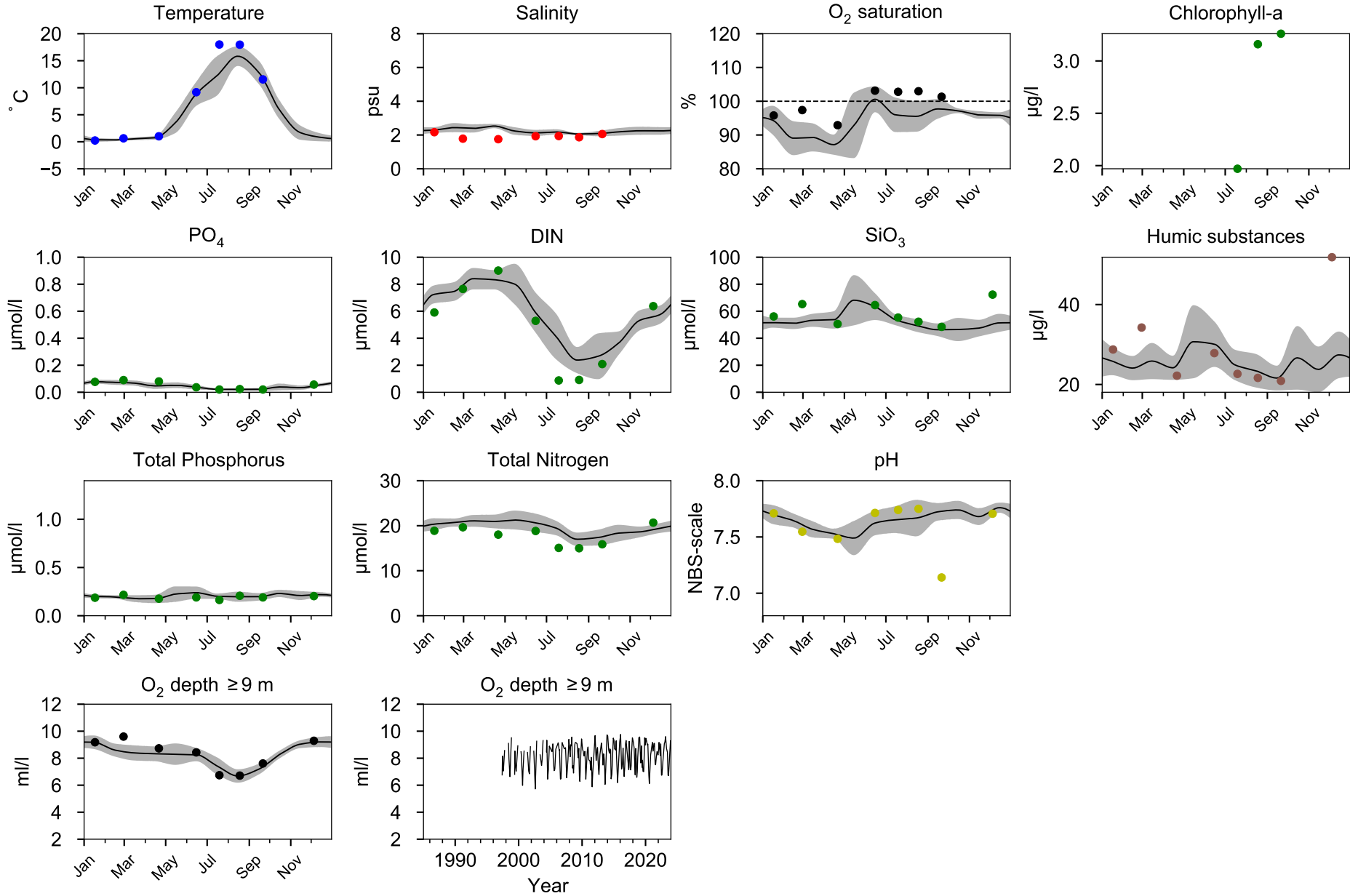
# STATION RÂNEA-1 SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023



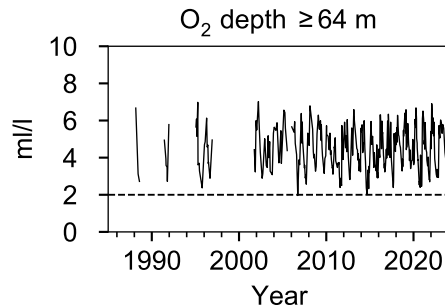
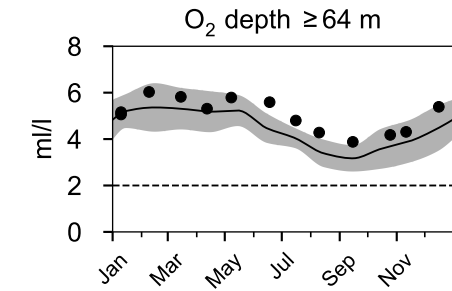
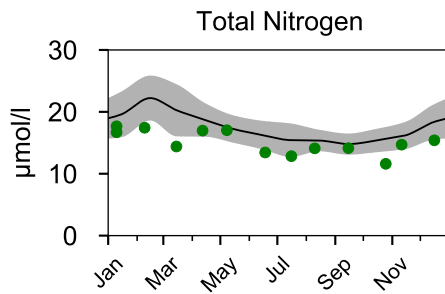
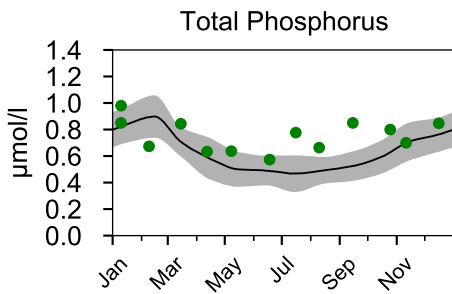
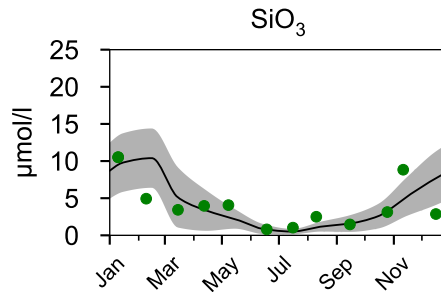
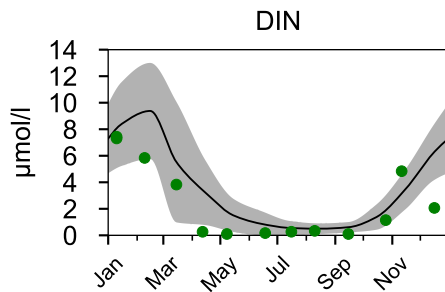
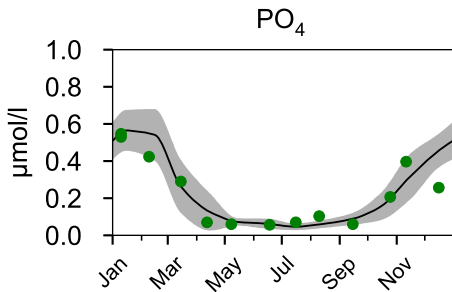
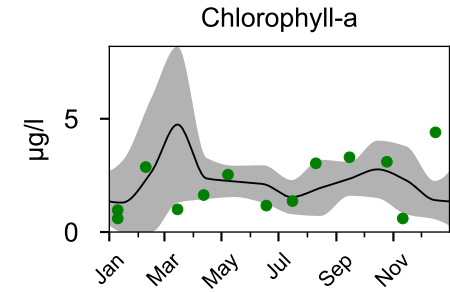
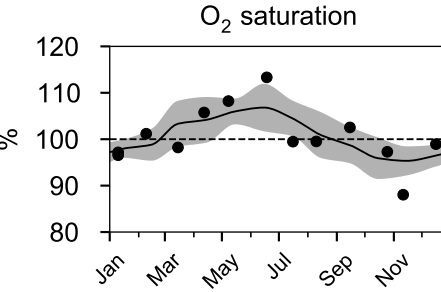
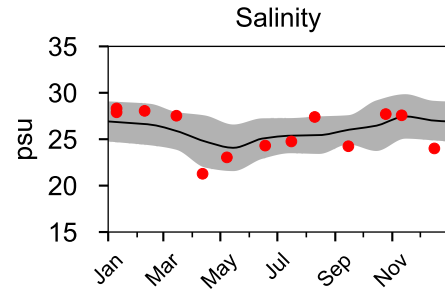
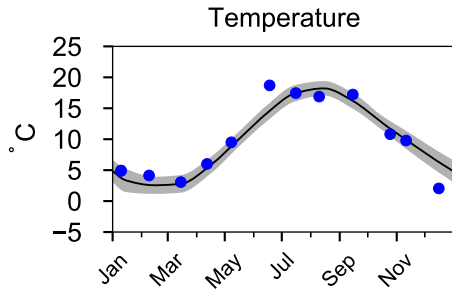
# STATION RÂNEA-2 SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023



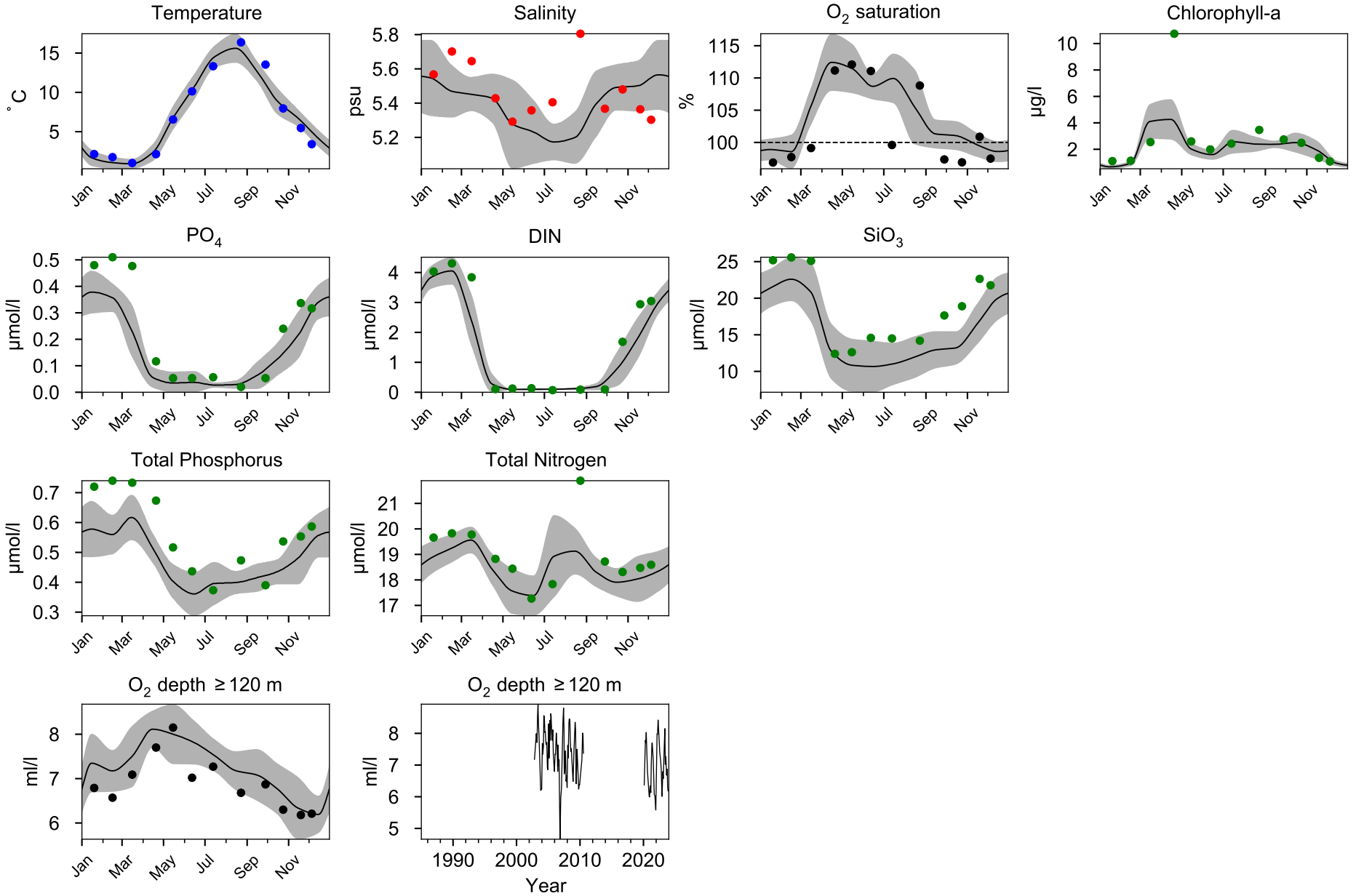
# STATION SLÄGGÖ SURFACE WATER (0-10 m)

— Mean 1991-2020    St.Dev.    ● 2023



# STATION U19 NORRA RANDEN SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023



# STATION W LANDSKRONA SURFACE WATER (0-10 m)

— Mean 1991-2020    ■ St.Dev.    ● 2023

