

Supplementary Information 2

Emodnet climatology

Temperature and salinity

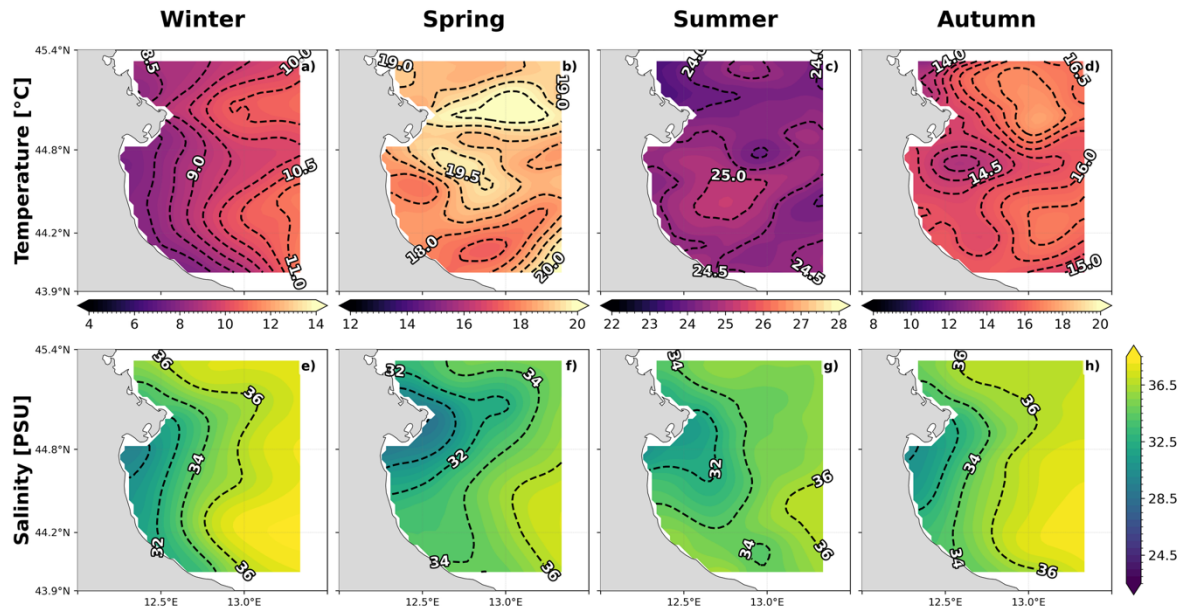


Figure SI2.1: Seasonal surface maps of temperature (a, b, c, d) and salinity (e, f, g, h) for EMODnet climatology.

Biogeochemical variables: Chlorophyll-a, DIN, phosphate and silicate

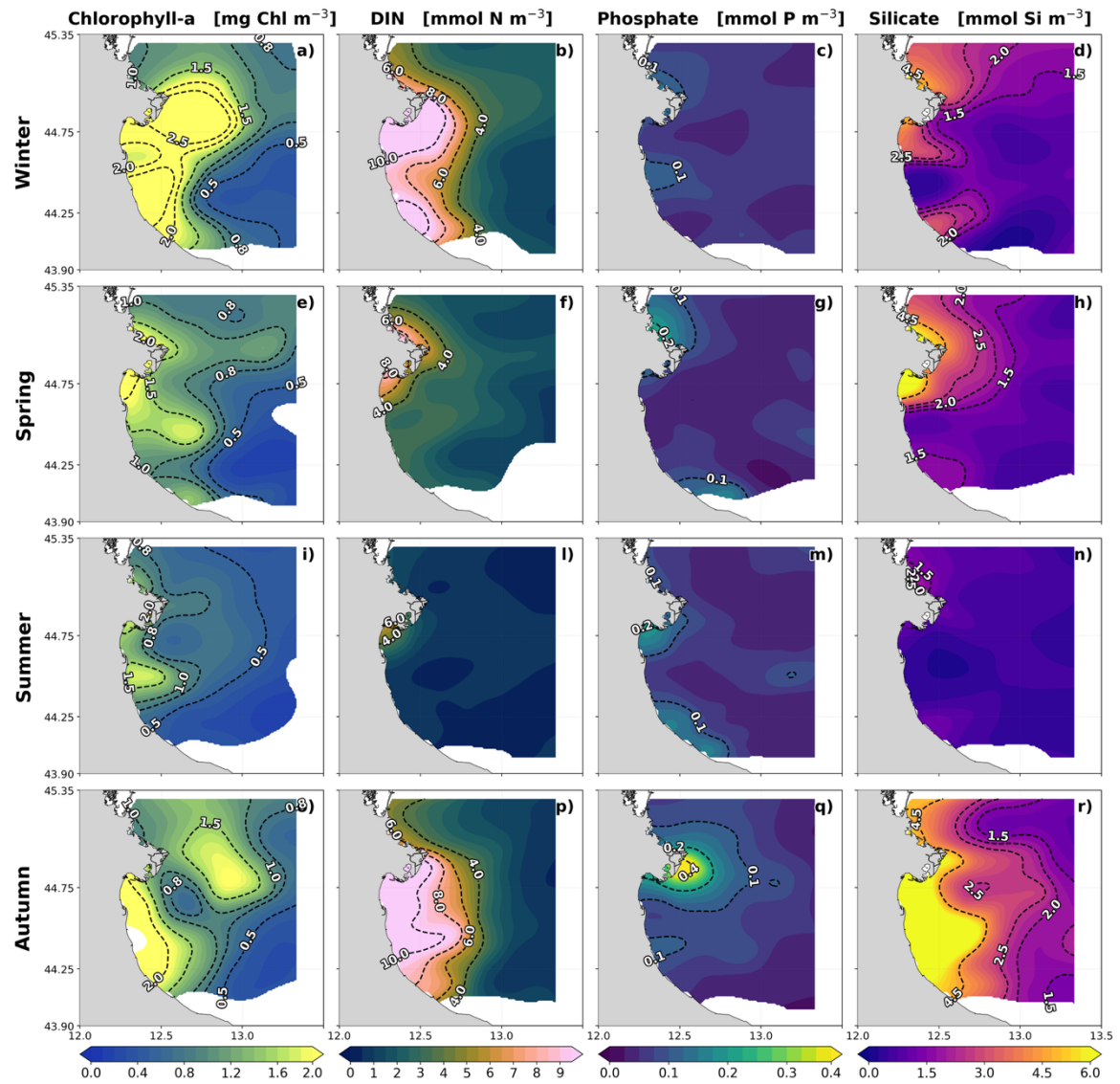


Figure SI2.2: Seasonal near-surface spatial distribution of chl-a (a, e, i, o), DIN (b, f, l, p), phosphate (c, g, m, q) and silicate (d, h, n, r) for EMODnet climatology.

NEMO-BFM seasonal maps and differences with climatology

Temperature, salinity and differences against EMODnet climatology

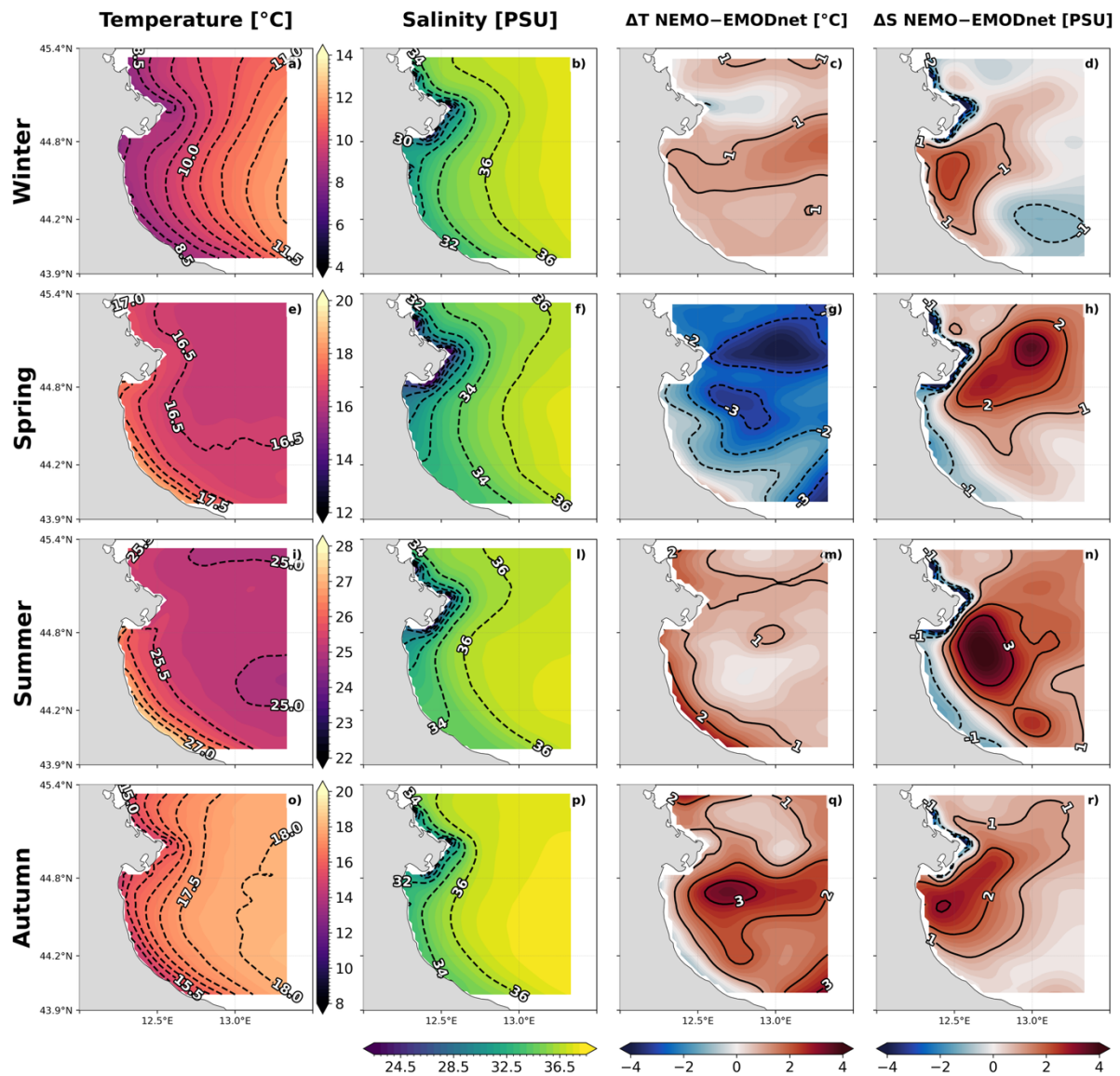


Figure SI2.3: Seasonal surface maps of temperature (a, e, i, o) and salinity (b, f, l, p) for NB and differences against EMODnet climatology for temperature (c, g, m, q) and salinity (d, h, n, r).

NEMO-BFM biogeochemical variables

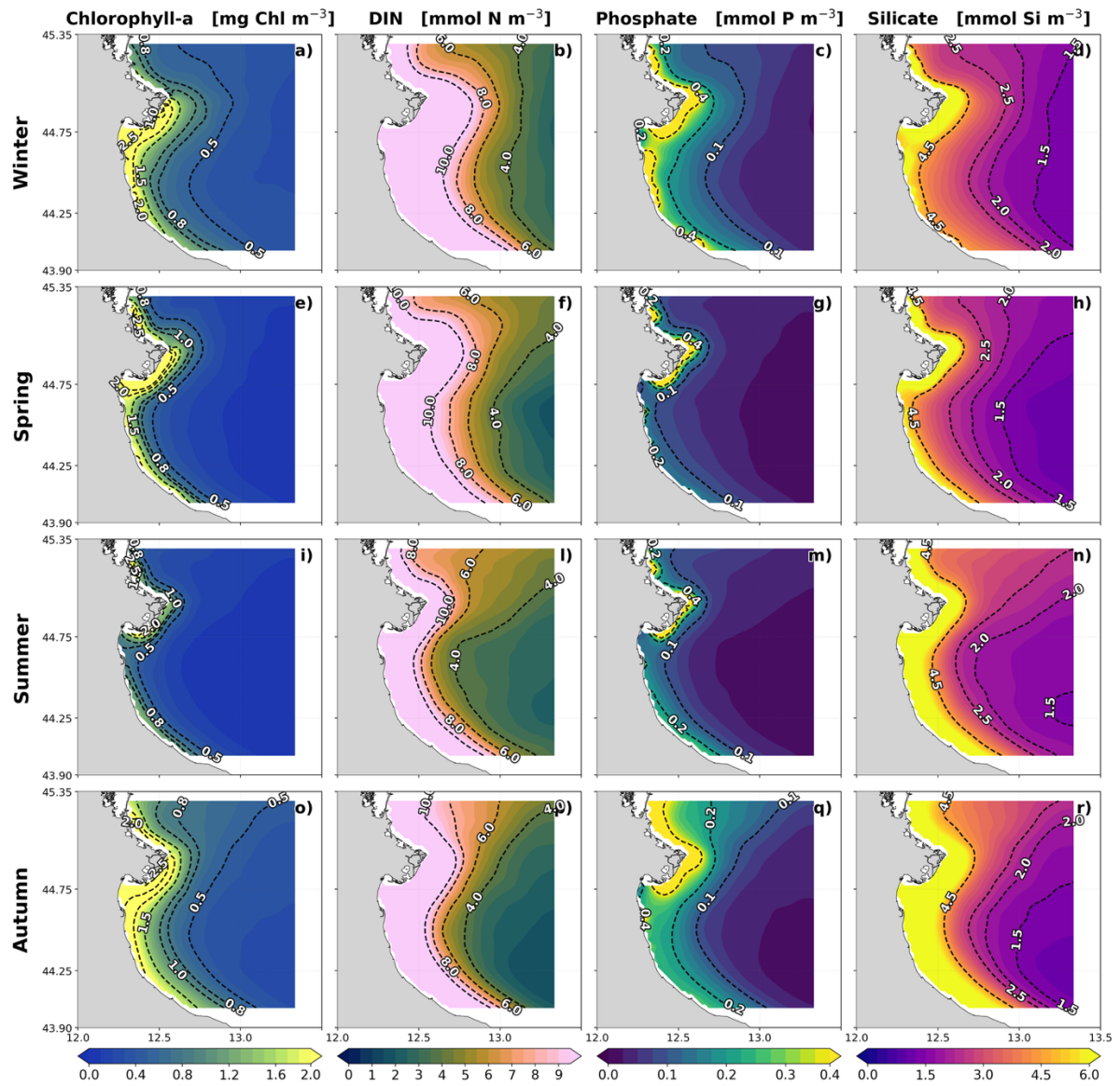


Figure SI2.4: Seasonal near-surface spatial distribution of chl-a (a, e, i, o), DIN (b, f, l, p), phosphate (c, g, m, q) and silicate (d, h, n, r) for NB.

Differences against EMODnet climatology

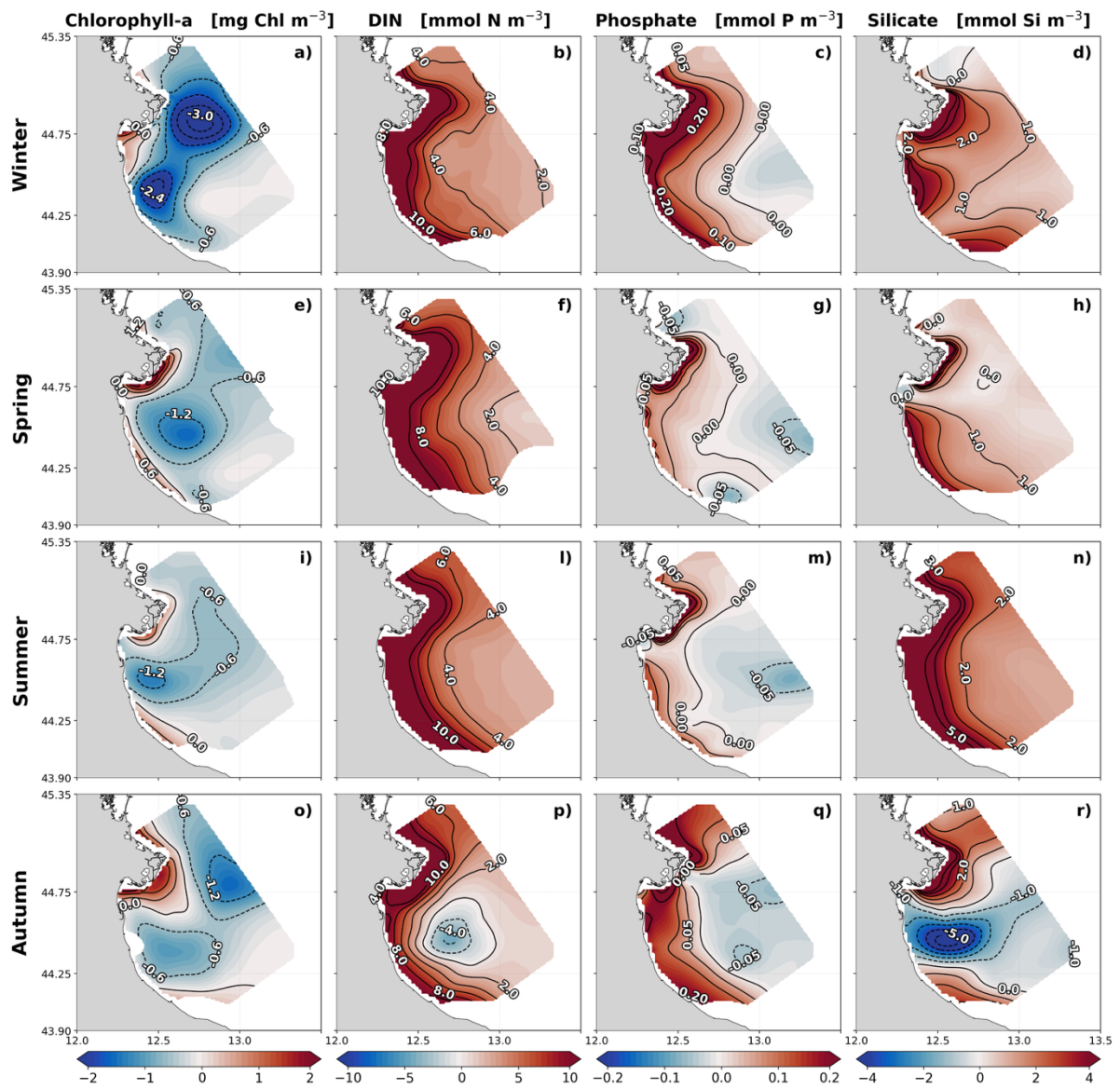


Figure SI2.5: Seasonal near-surface differences between NB and EMODnet of chl-a (a, e, i, o), DIN (b, f, l, p), phosphate (c, g, m, q) and silicate (d, h, n, r).

Seasonal circulation for SB and NB and speed difference (SB-NB)

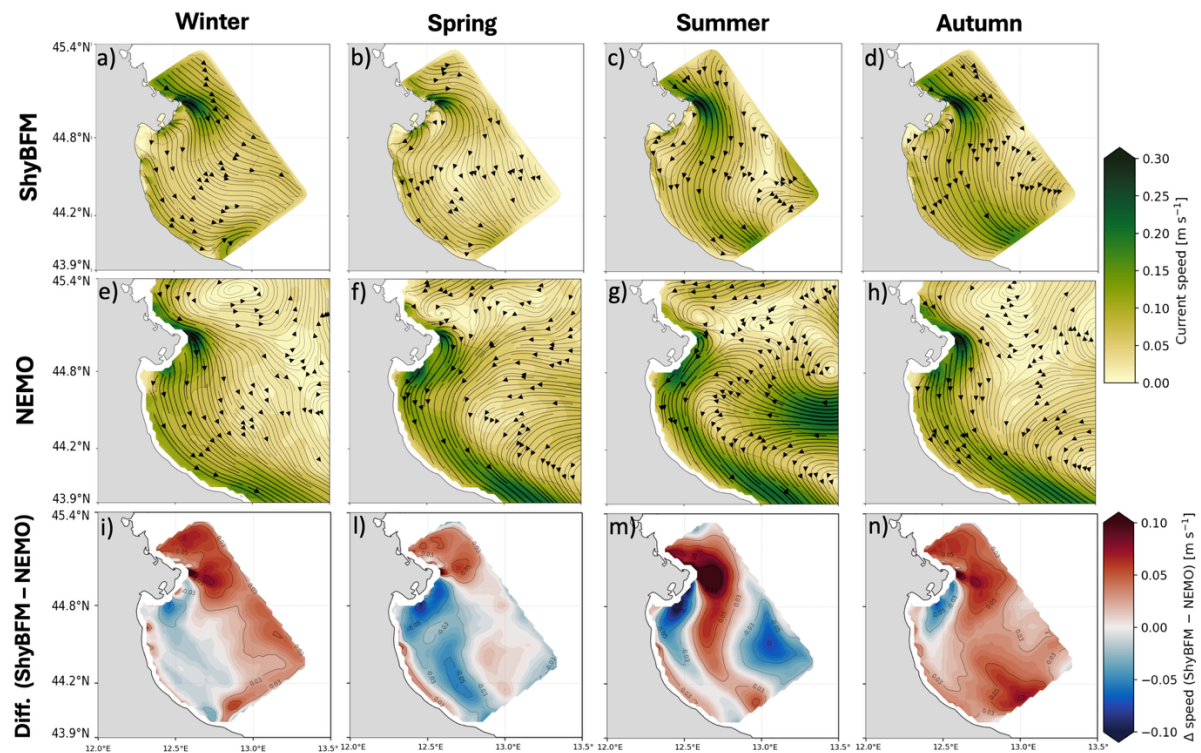


Figure SI2.6: Seasonal near-surface circulation for SB (a, b, c, d), NB (e, f, g, h) and speed difference (SB-NB; i, l, m, n).