Bottom water column relative dissolved concentration

Location of benthic biogeochemical processes

Influence of external drivers on benthic processes

Fluxes at the sediment-water interface

Bottom water column relative dissolved concentration

O₂ sat.

PO₄³⁻, NH₄⁺

Fe, Mn, TE

NO₃⁻

Aerobic respiration

Denitrification

Mn-Fe oxyhydroxides reduction

SO₄²⁻ reduction

Oxygent influence on bioturbation contribution to reactions and fluxes

Temperature influence on kinetic of reactions and diffusive fluxes

Light radiation influence on surface sediment and microphytobenthos activity

Flux to the water column

Flux to the sediment

Time (1 day)