

Contribution to NEMO v4.2-RC

Top interface modules within v4.2-RC code (*after IMMERSE Task 5.3*)

- Generalized scheme to treat sinking of oceanic tracers
- Shared scheme to determine vertical light for BGC processes

Work-plan 2021 on-going activities

- Comparison of different high-order vertical sinking schemes
- Revision of light schemes to handle multiple bands
- Start working on an idealized TEST case for TOP interface (aiming toward unified benchmarking of shared schemes)

TOP evolution for NEMO Development Strategy

TOP interface developments foreseen on medium and long term horizons toward a comprehensive support of all oceanic BGC dynamics (pelagic, benthic, sea-ice):

- Address sea-ice biogeochemistry layer to couple with physical dynamics of SI3
- Develop a general interface for the benthic compartment
- Evaluate common procedures to handle exchanges at the interfaces between the different compartments
- Extend the treatment of light properties to better exploit present and future remote sensing data products