## BAltic sea Long-Term large-Scale Eutrophication Model

Main characteristics:

- 13 sub-basins
- High vertical resolution
- Full air-sea exchange including sea ice
- Water exchange from well-founded steady state dynamics
- Wind and buoyancy forced mixed-layer dynamics and wind-forced deep-water mixing
- Dense gravity current mixing sub-models
- Forced by meteorology, river runoff, sea level in Kattegat and stratification in Skagerrak
- Typical simulation times on 8 core MacPro: physics only 1.6 sec/year with BGC 14 sec/year





