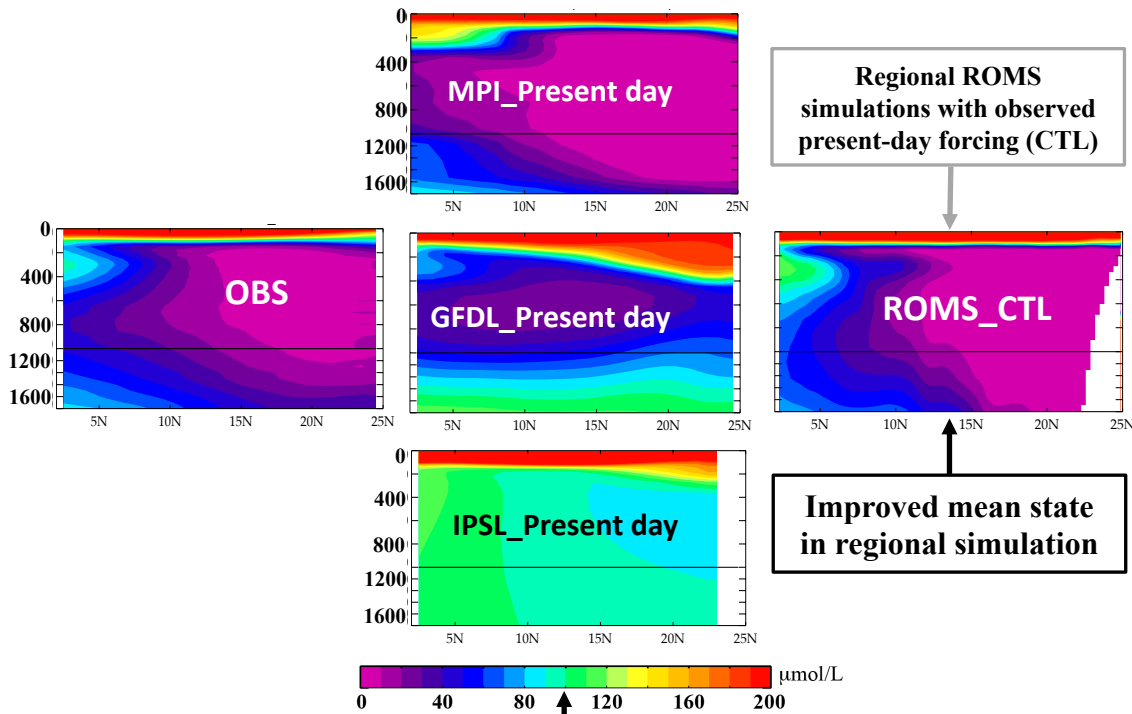


Arabian sea Oxygen Minimum Zone (OMZ) in Earth System Model (CMIP5) present-day & regional simulations

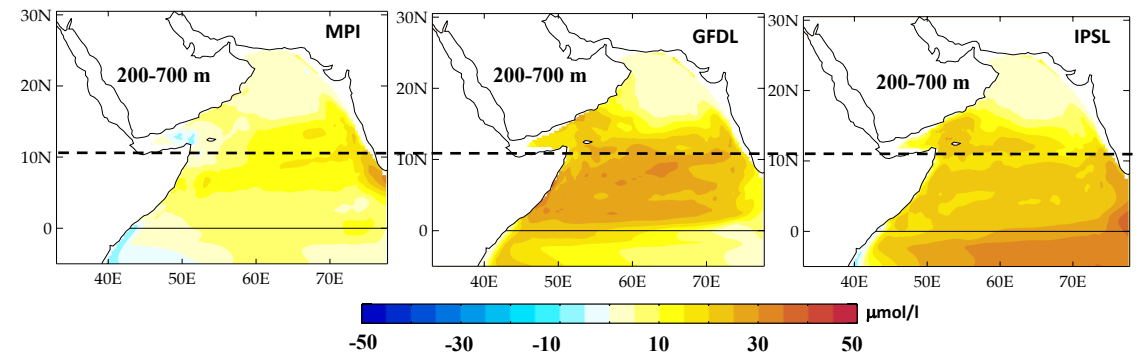


Downscaling:
Better strategy to study future projections of Arabian sea OMZ

Future projections of Arabian sea OMZ in downscaled regional (ROMS) simulations

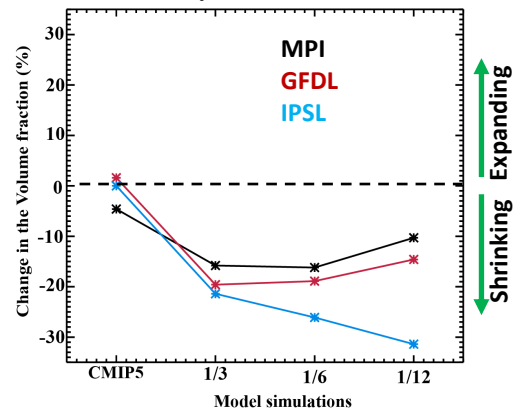
The Approach:

- ROMS climate change simulations (ROMS_CC) forced with **OBS + CMIP5 anomalies**
- ROMS projection = ROMS_CC – CTL**



Robust oxygenation in the southern Arabian sea, despite differences in forcing

Sensitivity to model resolution



All simulations with different resolutions indicate contraction of Arabian Sea OMZ, however with varying magnitude

Currently investigating the drivers of the Arabian Sea oxygenation in the downscaled simulations...