
Simulation Updates in UofA

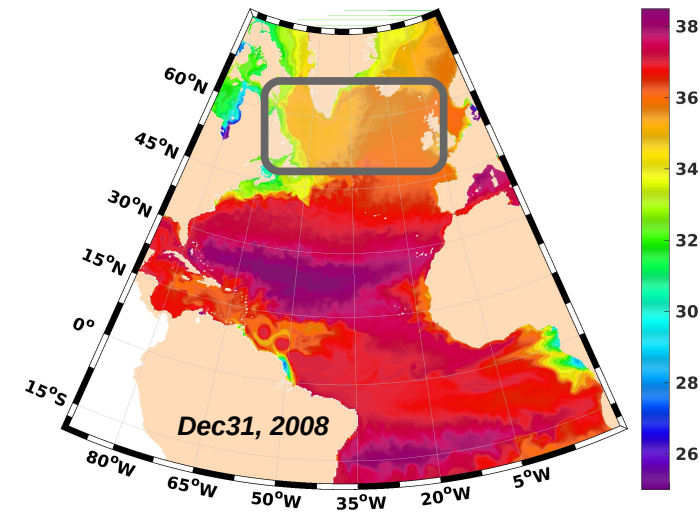
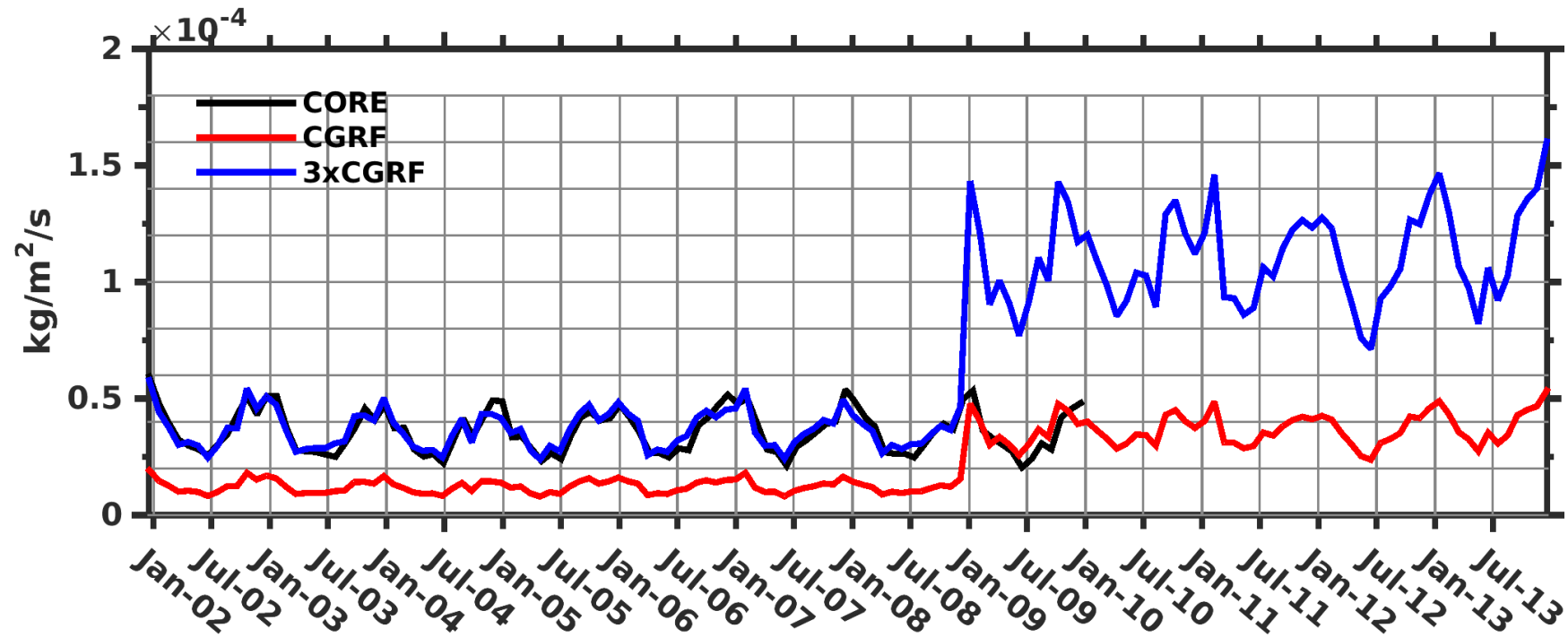
Xianmin Hu (xianmin@ualberta.ca)

UBC, Vancouver, BC, Apr 1st , 2016

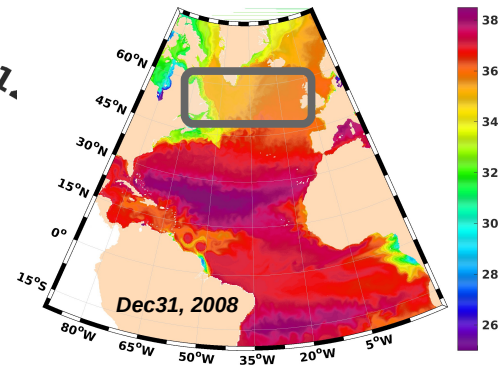
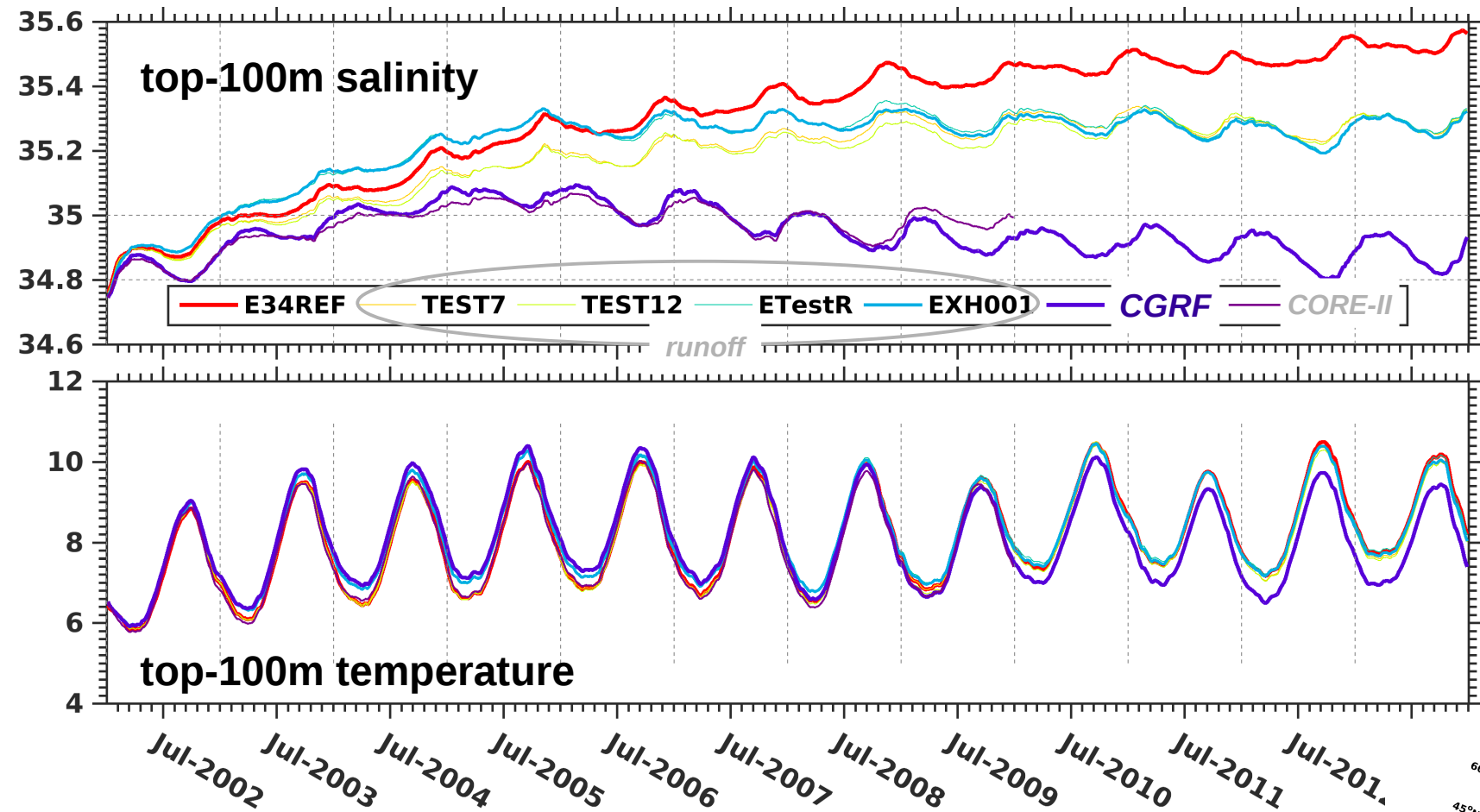
Simulation Updates in UofA

- **Precipitation problem over 2002-2008**
- **Passive tracers in NEMO simulation**
- **Available simulations and future plan**

CGRF Precipitation (early version)

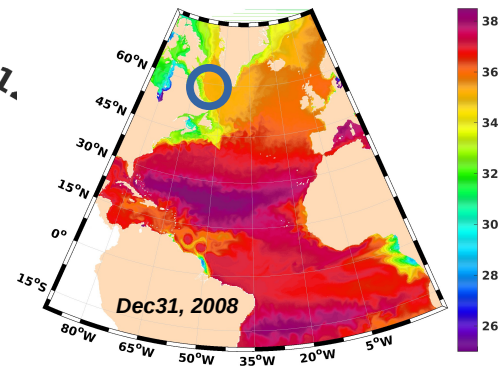
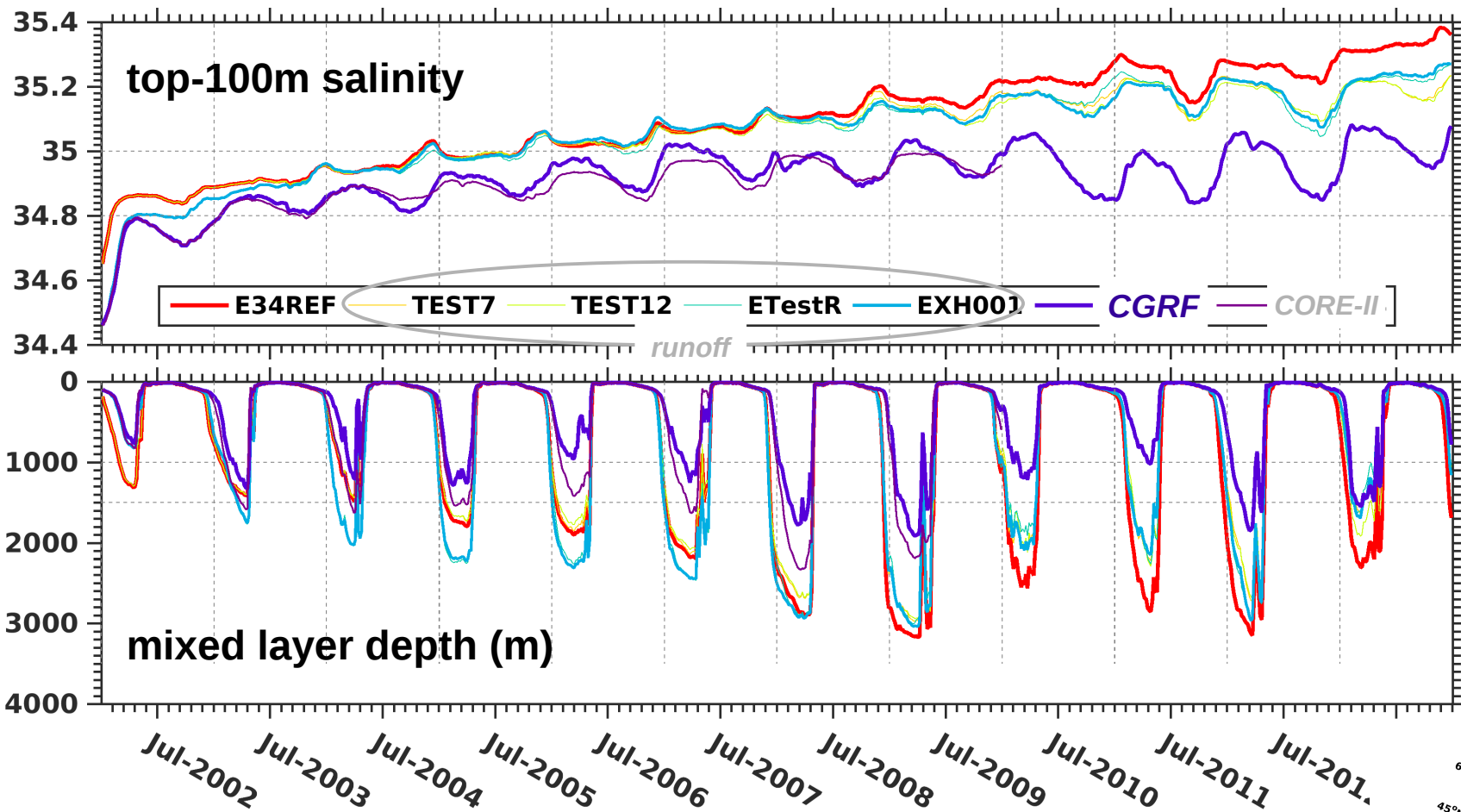


Impact on Subpolar Ocean

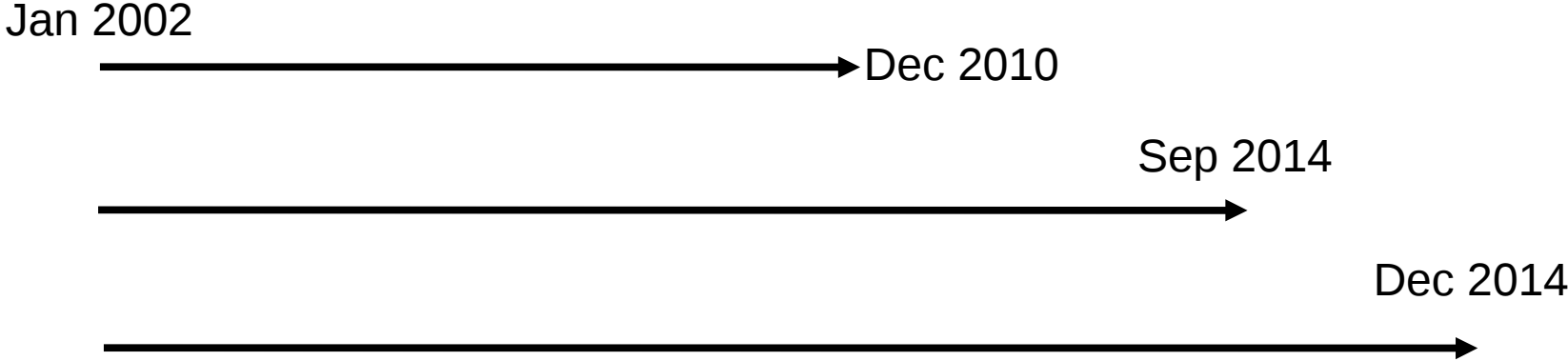


Impact on Labrador Sea Deep Basin

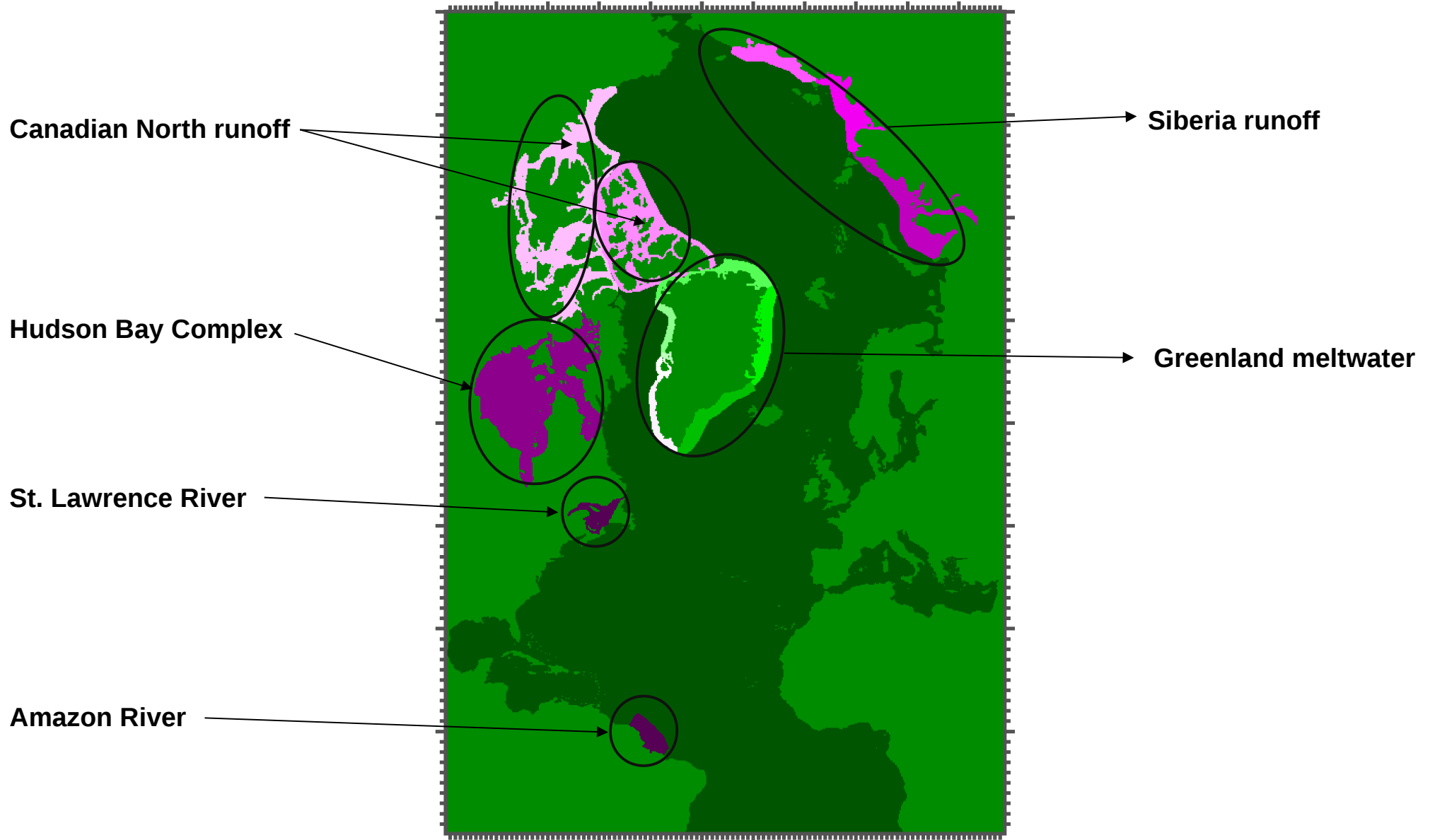
(>=3000m)



Extended to Dec 2014

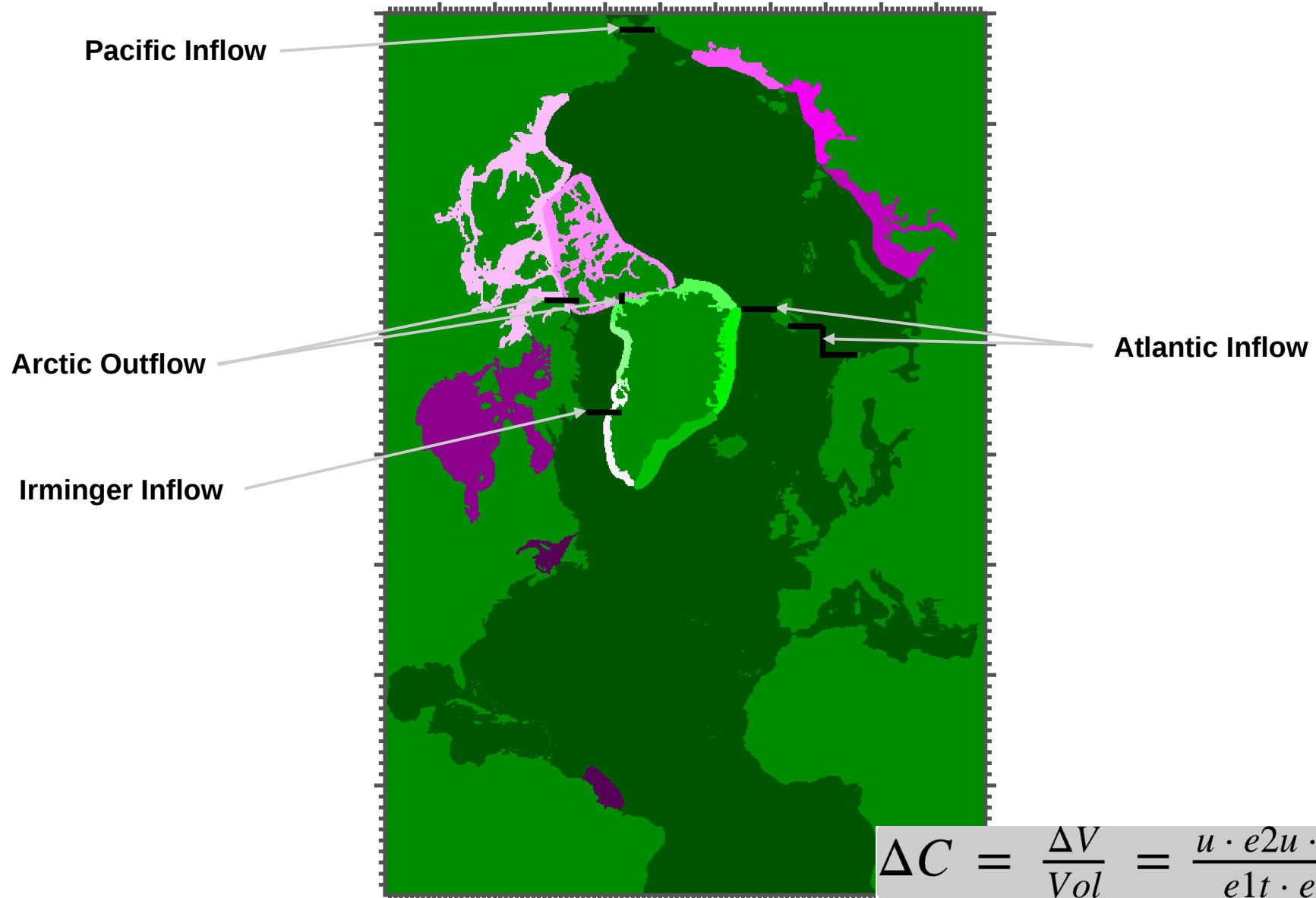


Passive Tracers

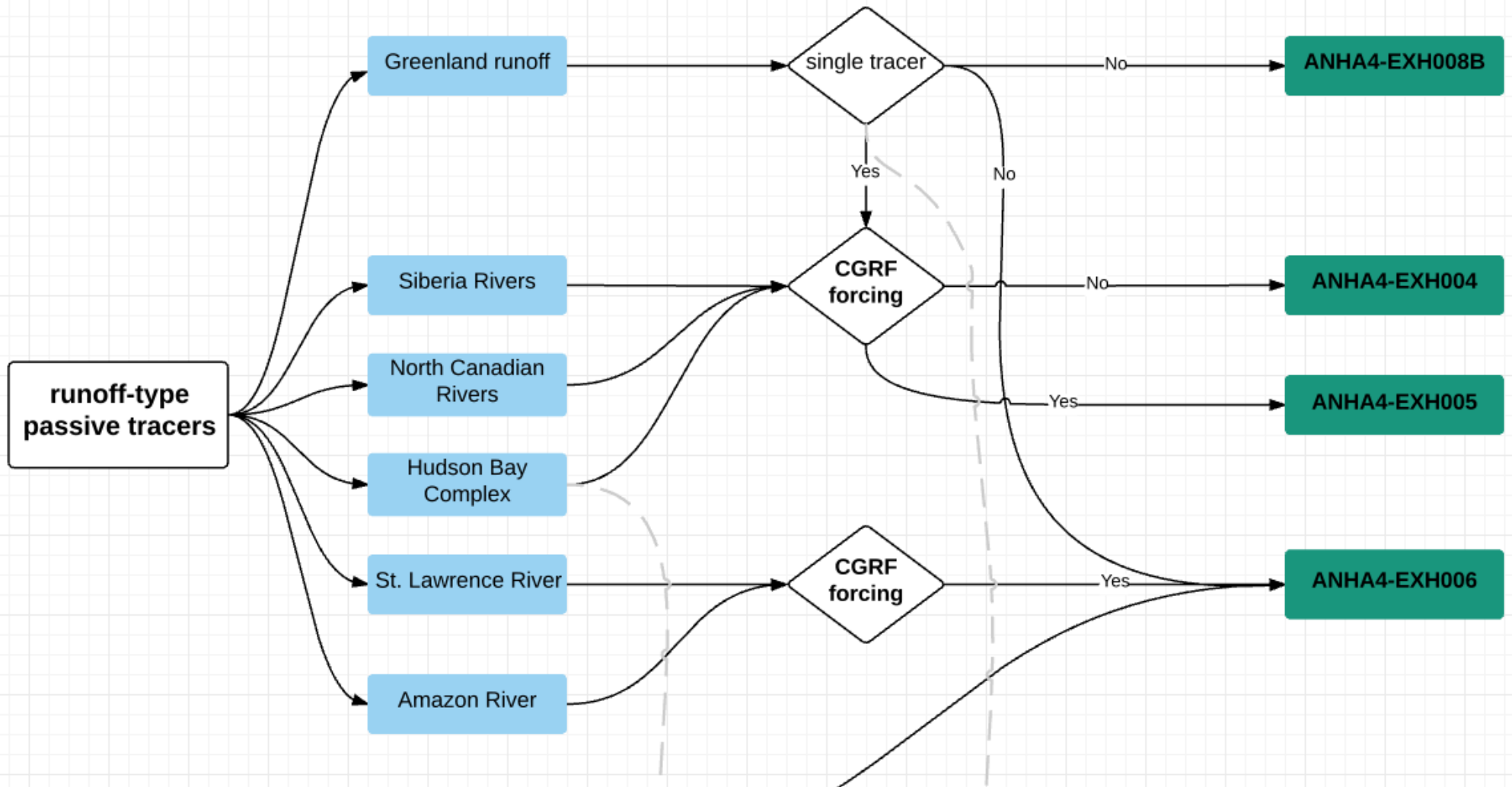


“Big Rivers” in the Ocean

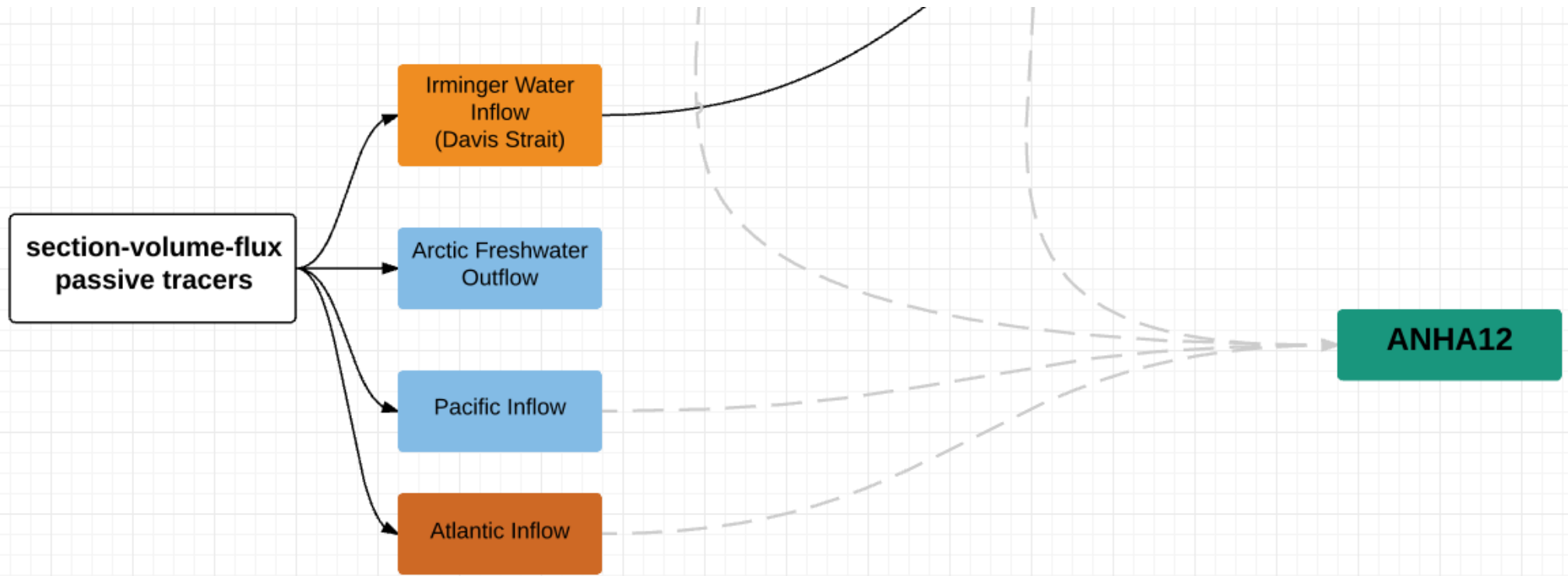
Future Passive Tracers



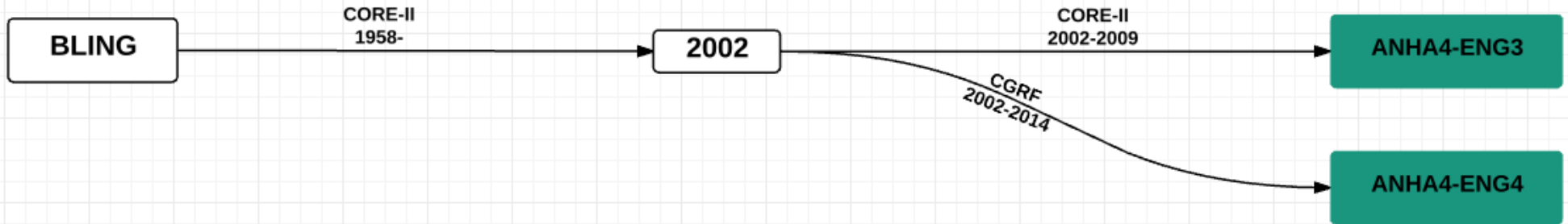
Available Simulations and Future Plan



Available Simulations and Future Plan



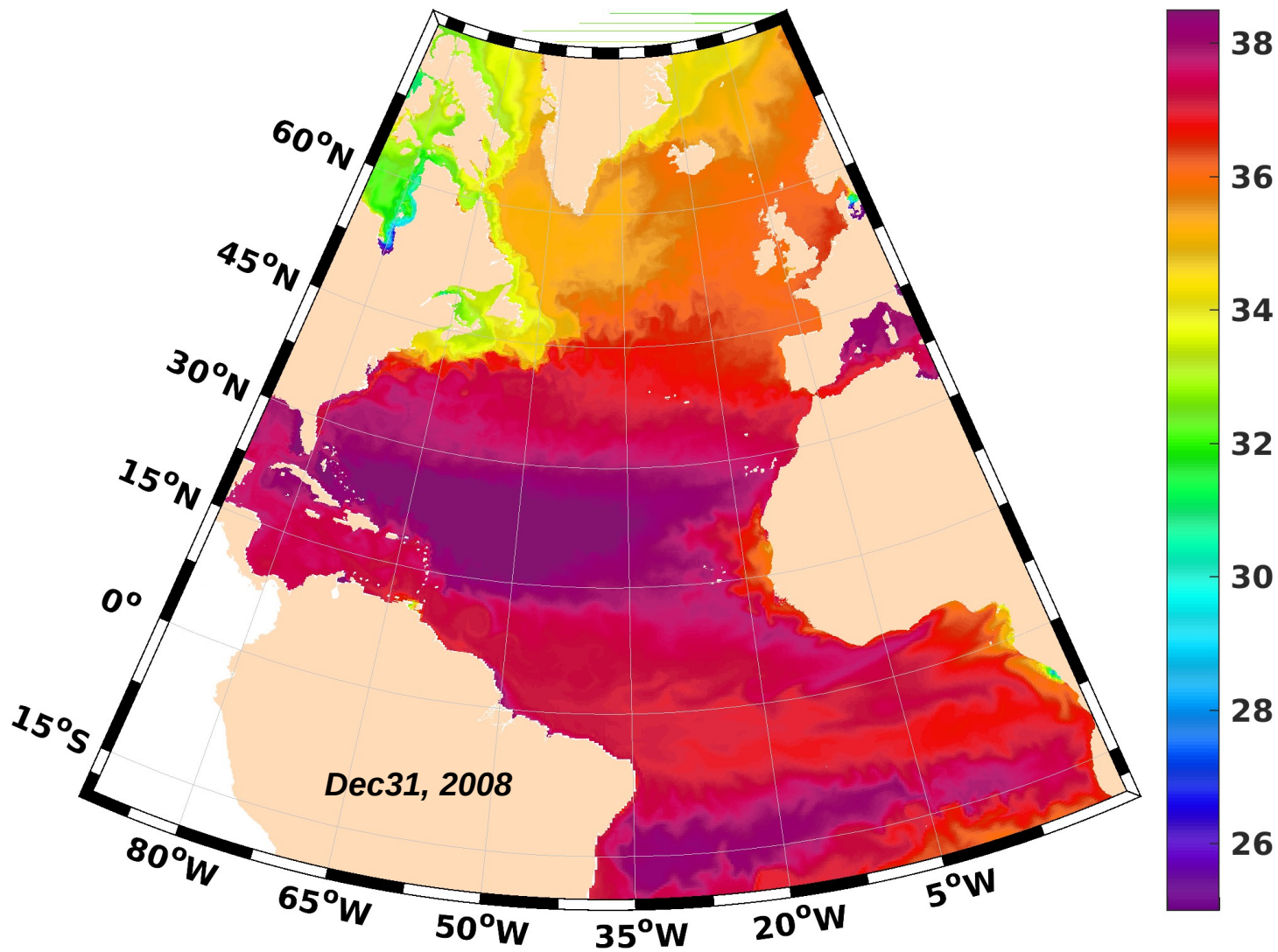
Available Simulations and Future Plan



BB configuration

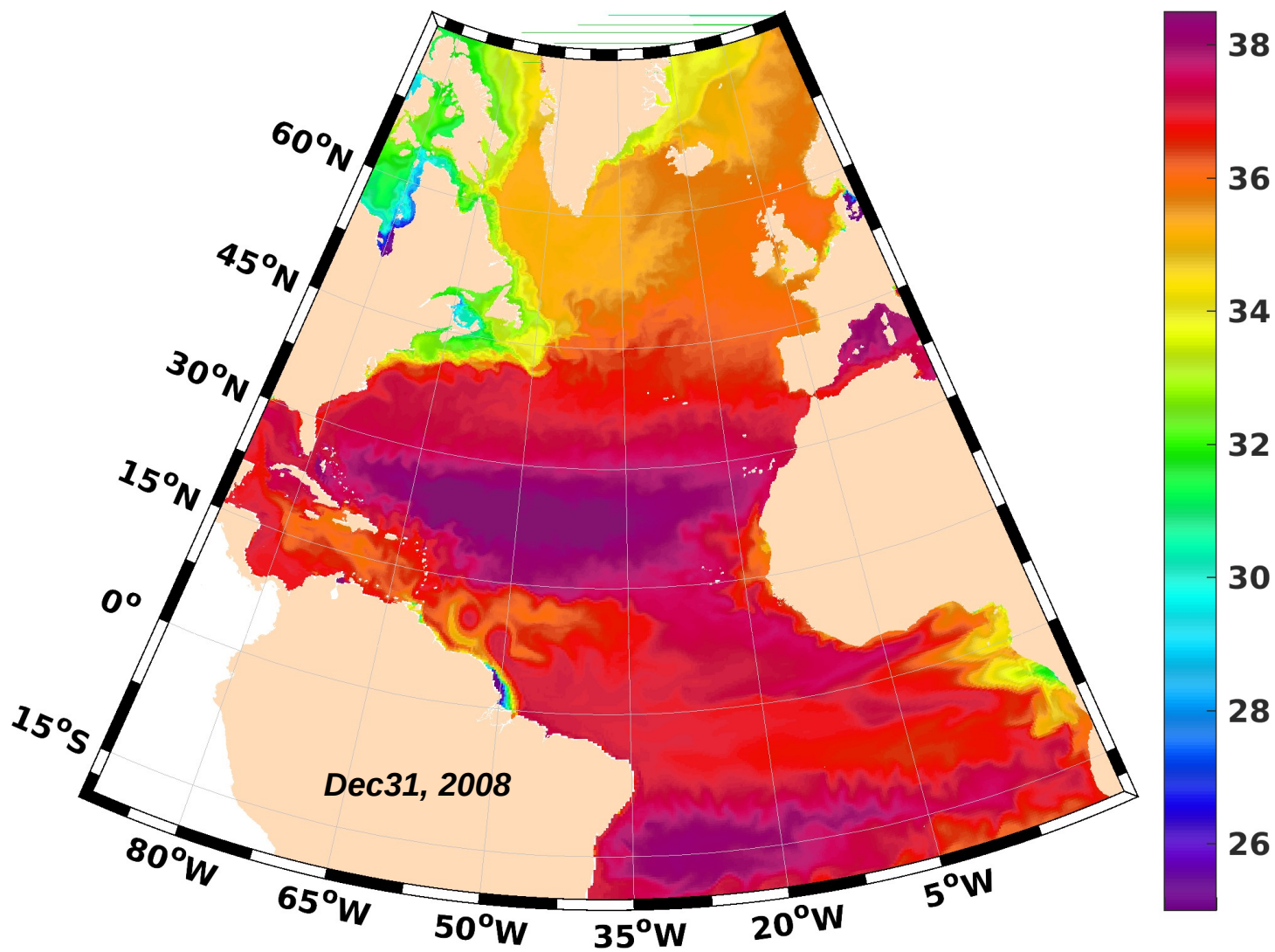
AGRIF-SPG

Impact on SSS



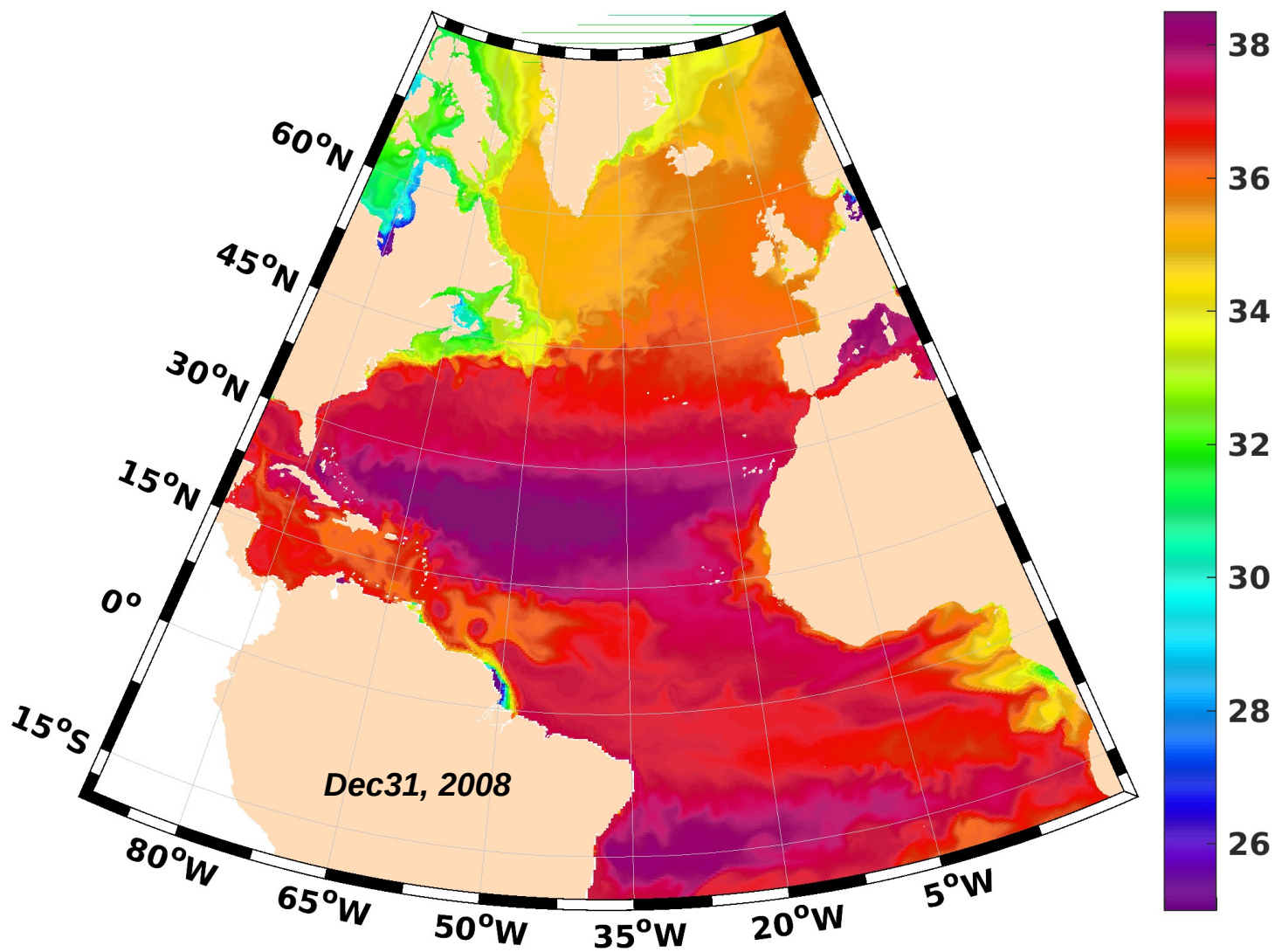
E34REF (GLORYS1 + lack runoff)

Impact on SSS



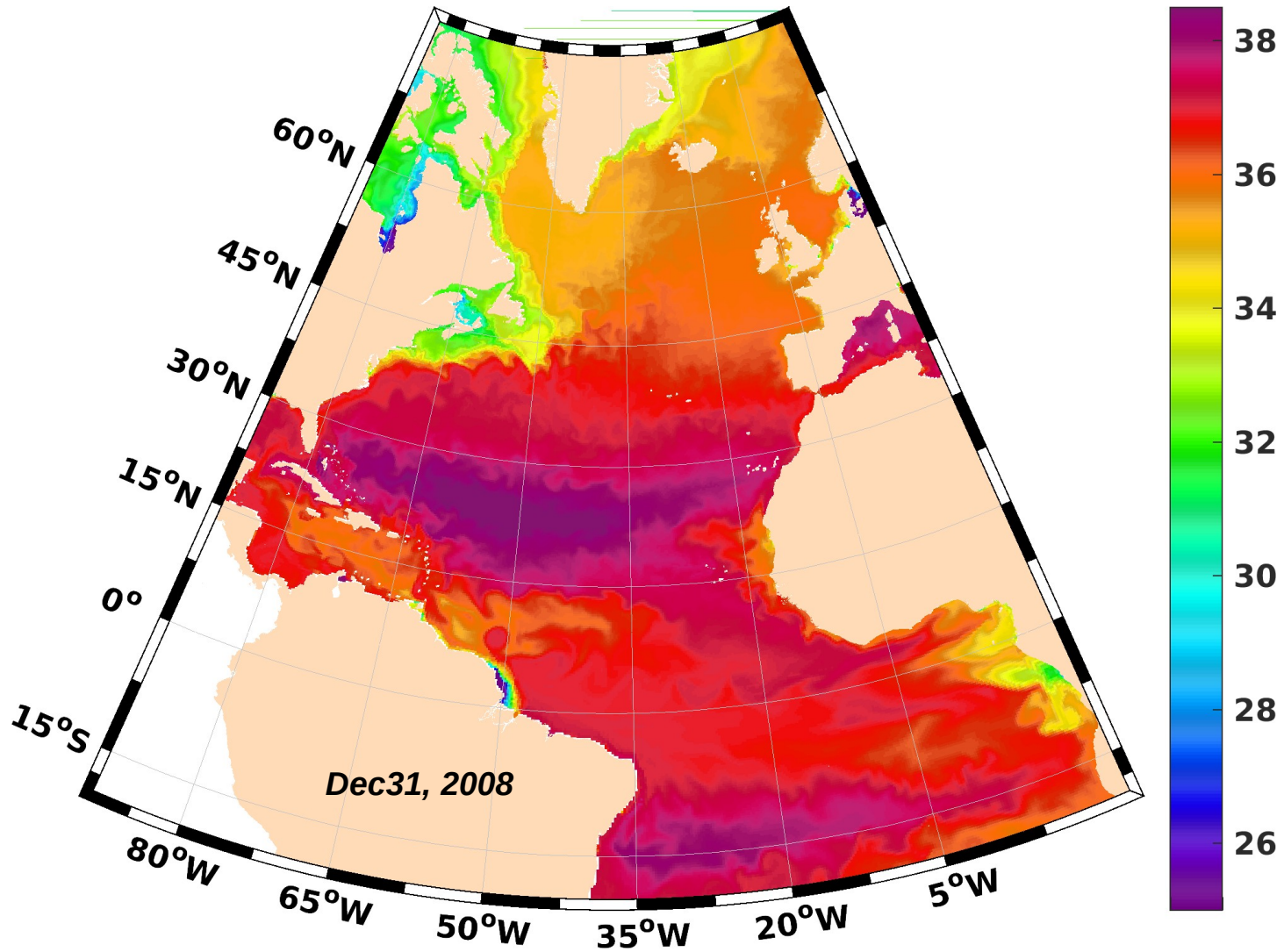
Remap I (GLORYS1 + runoff)

Impact on SSS



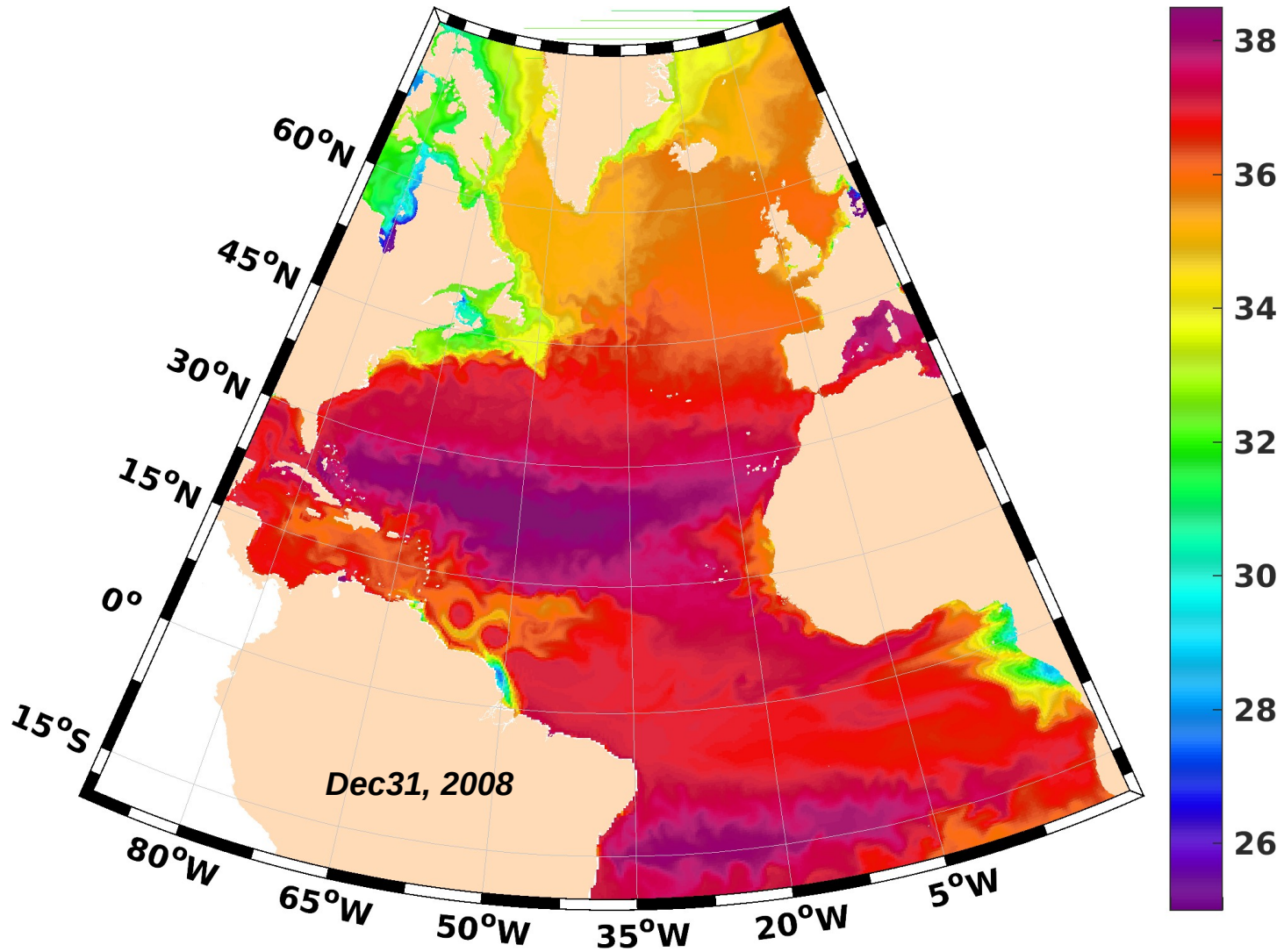
Remap II (GLORYS1 + runoff)

Impact on SSS



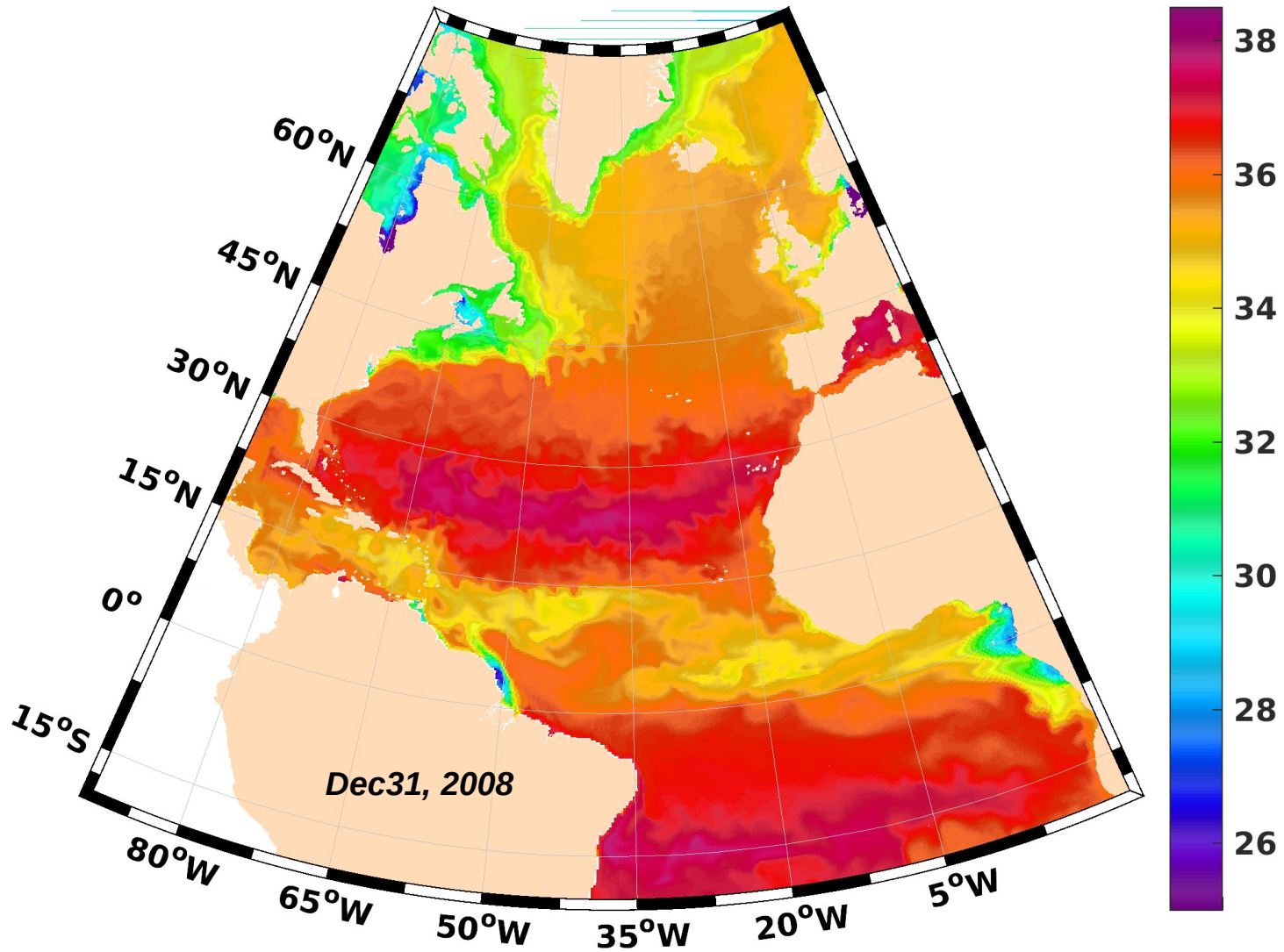
ETestR (GLORYS2 + runoff)

Impact on SSS



EXH001 (GLORYS2 + inter-annual runoff)

Impact on SSS



EXH005 (GLORYS2 + inter-annual runoff + fixed Precipitation)