Activity 5 – Check your realistic configuration

1. Run your simulation

- Run the simulation you prepared during the previous session (your own configuration – not the Benguela) for at least 2 years with monthly averages (every 30 days).

2. Check your simulation

- Check the circulation:

- you can use a python gui: https://github.com/slgentil/croco_visu

- you can use the roms_gui.m in the croco_tools (matlab)

- you can use python tools (see Modules.zip, Python_example1.py, Python_example2.py on http://stockage.univ-brest.fr/~gula/ModNum)

- Try to find a paper documenting the circulation in this region and check if it is (at least qualitatively) well reproduced in the simulation.

- Average the simulation over the last year only (*you will consider only the last year of your simulation to minimize the effects of the spin-up.*)

- Plot the mean currents (surface and barotropic) and vertical sections of stratification for your simulation and for observations *(you can use WOA2009 data – or directly use the croco_clm.nc file which contains monthly climatology from WOA2009 data interpolated on the model grid).*