

STEPS to design a CROCO Climatological configuration

0 Working Directory

in `~/croco/` edit and execute `./create_config.bash`

1 Model Inputs

• Where?

in `~/croco/Run_Clim`

• Which file(s) and param(s)?

`crocotools_param.m`

- Grid param (horz/vert+topo dts),
- **bulk/fr** and **bry/clim** choice...

• Which command(s)?

`./matlab -nodesktop`

`make_grid;`

`make_forcing; make_bulk;`

`make_QSCAT_clim.nc`

`make_clim; make_bry; make_ini;`

• Expected output(s)?

`LLM, MMm, N`

`Run_Clim/CROCO_FILES`

`croco_grd.nc croco_ini.nc`

`roms_frc.nc roms_blk.nc`

`croco_bry.nc croco_clm.nc`



2 Compile

• Where?

in `~/croco/Run_Clim`

• Which file(s) and param(s)?

`param.h`

- Grid param `LLM, MMm, N`,
- MPI/OPENMP (nb procs)

`cppdefs.h`

- config, parallelization
- frc/blk choices
- clim/bry boundary forcing
- nesting, MPI_NOLAND, NC4PAR
- physical schemes, etc...

• Which command(s)?

`./jobcomp` (`./jobcom_lengau`)

• Expected output(s)?

⇒ Model executable `croco`

3 Run

• Where?

in `~/croco/Run_Clim`

• Which file(s) and param(s)?

`Run_Clim/CROCO_FILES`

`roms_inter.in`

- Variables to be saves

`Run_croco.bash`

- input/output paths
- DT, NAVG, Simulation period
- restart (yes/no)

• Which command(s)?

`./run_croco.bash`

(`qsub run_croco.pbs`)

• Expected output(s)?

⇒ Model outputs

(`croco_avg.nc, croco_his.nc`)

in `Run_Clim/SCRATCH`