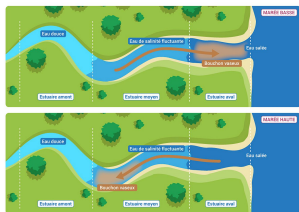


CROCO – training 2022

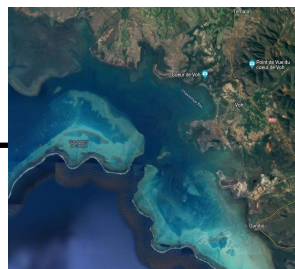
Introduction to ocean models



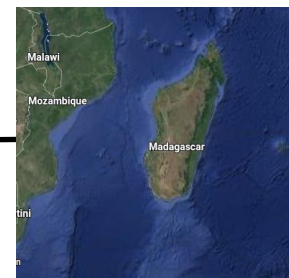
Ocean models



Beach, lagoon, estuary



Coast, continental shelf, regional



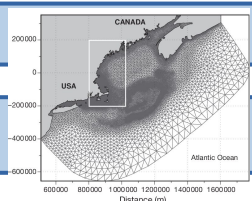
Offshore, ocean

Finite elements

Coherens, Telemac ...

Finite Volumes

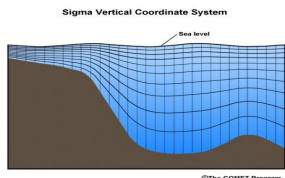
FVCOM, MIKE3, MOHID...



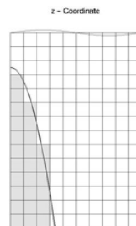
MITgcm

Finite Differences

Finite Differences



Sigmas coordinates
MARS3D, CROCO, ...



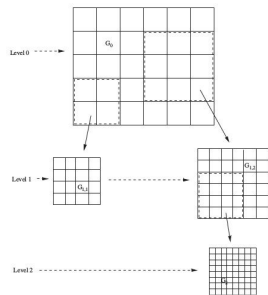
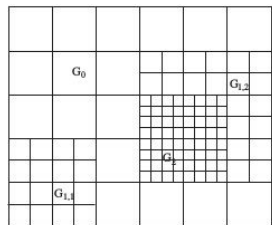
Z coordinates

NEMO, ...

Isopycnal or hybrid
coordinates

HYCOM

Choice of an ocean model



Zoom?
(Agrif : Adaptative
Grid Refinement
In Fortran)

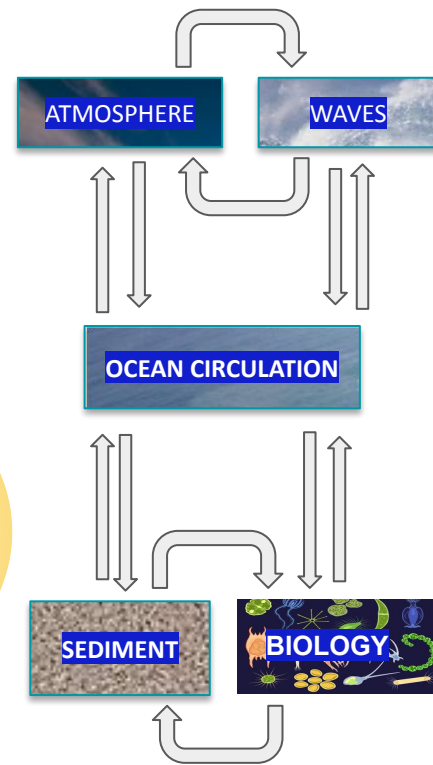
Modules?
(Biology, Sediments,
...)

Interest

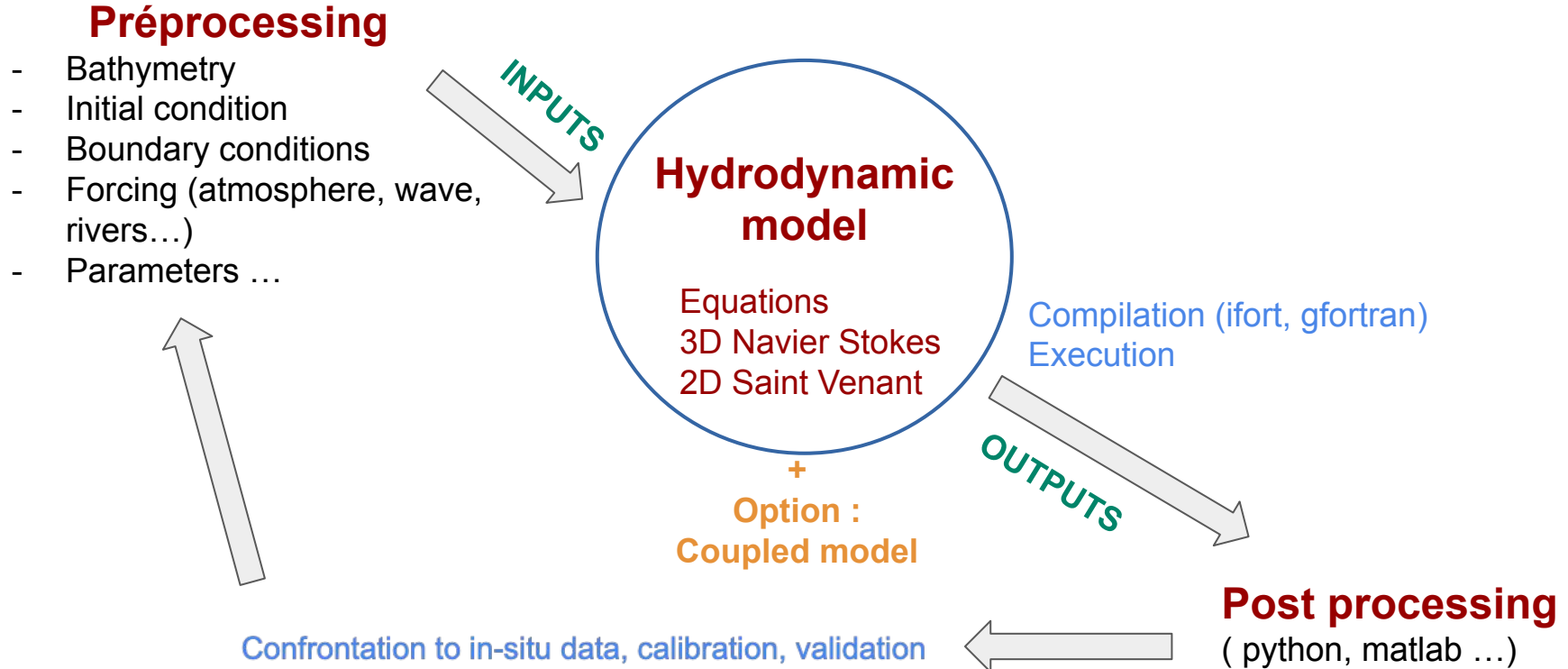
Community
(France, USA, ...)

Coupling available?
(atmosphere,
waves, ...)

**Available
computing
resources**



How does it work?



What about CROCO ?



Coastal and Regional Ocean COmmunity model