

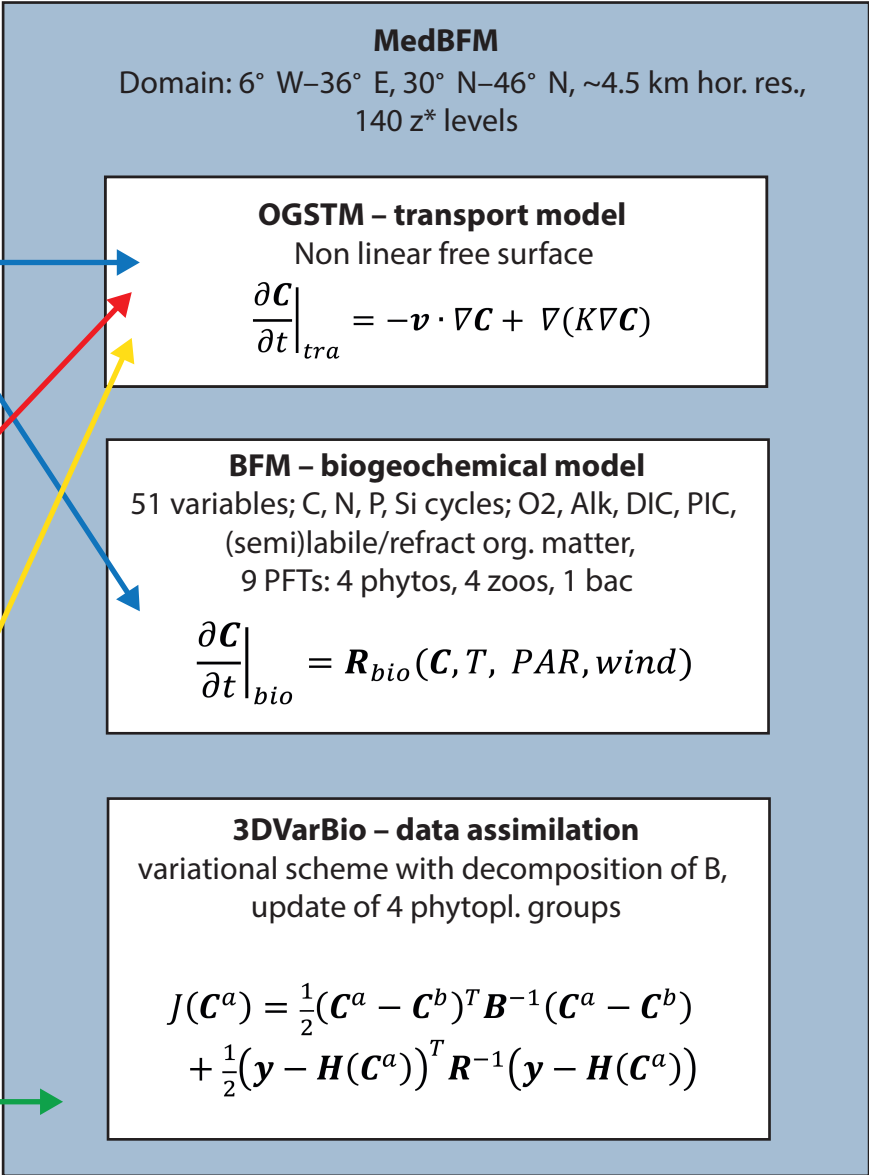
Initial conditions:
MEDAR/MEDATLAS,
NODC-OGS and Med-CarbSys

Physical variable fields:
daily fields of: U, V, T, S, Kv (3-D), SSH, Qsw, τ (2-D)
from NEMO3.6 from MED-PHY

Boundary conditions:
seasonal profiles of N, P, O, DIC, Alk in the
Atlantic buffer zone from MEDAR/MEDATLAS,
NODC-OGS and Med-CarbSys

**Land and atmospheric forcing for nutrients
and carbon:**
yearly and monthly climatological discharges of
N, P, DIC and Alk for 39 rivers and Dardanelles
(PERSEUS D4.6 dataset and literature);
seasonal estimates for N and P atmos. deposition
from literature

Observations:
daily ocean colour surface chlorophyll maps
at 1 km horiz. resolution



CMEMS products

Daily 3-D fields of:

- chlorophyll
- total phytoplankton carbon biomass
- concentration of nitrate
- concentration of phosphate
- oxygen
- primary production
- pH (total scale)
- pCO2