

# Atm. Forcings (ERA5)

neXtSIM

Ice covered fraction

Open water fraction

Atm. →  
Ice fluxes

Sea ice dynamics and thermodynamics

Interp. on grid

Interp. on mesh

Coupler interface

**Aerobulk**

CORE bulk formula for  
Atm. →  
ocean fluxes

- Ocean surface stress
- Sea ice concentration
- Fluxes from ice-atmosphere interface:
  - solar and non-solar heat fluxes
  - Salt flux
  - Mass flux

- Surface currents
- SSH, SSS and SST
- Fraction of solar net radiation absorbed



Coupler

OPA NEMO