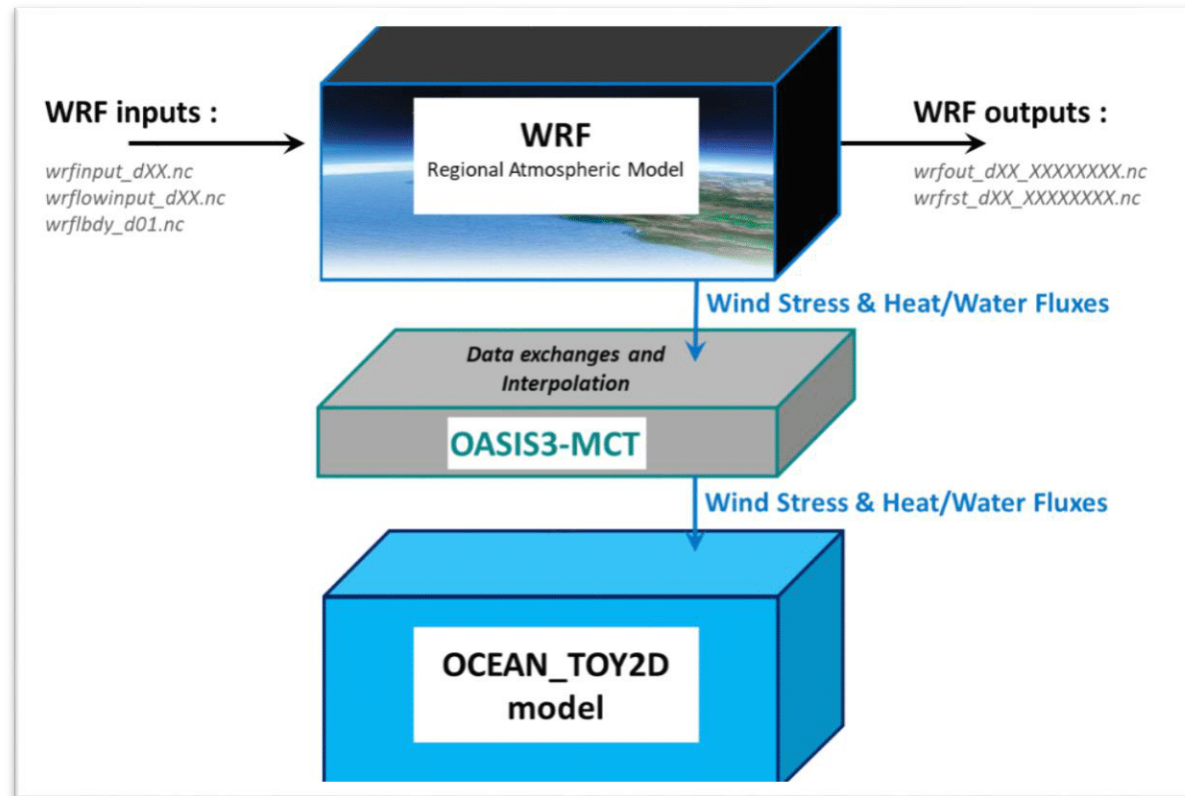


Outlines for the training week

1. Introduction – Presentation of the Model & coupler components
 - Installation of the coupling environment
2. Run an inter-annual **CROCO** simulation (**RUN1**)
3. Coupling **CROCO** with an atmospheric **TOY** model – spatial regridding (**RUN2**)
4. Run a **WRF** inter-annual simulation (**RUN3**)
5. Coupling **WRF** with an ocean **TOY** model – time transformation (**RUN4**)
6. Coupling **CROCO** with **WRF** : parallel coupling (**RUN5**)

Coupling WRF and OTOY2D



reads `namelist.input`
`wrfrst_d01_XXX`

writes `wrfrst_d01_XXX`

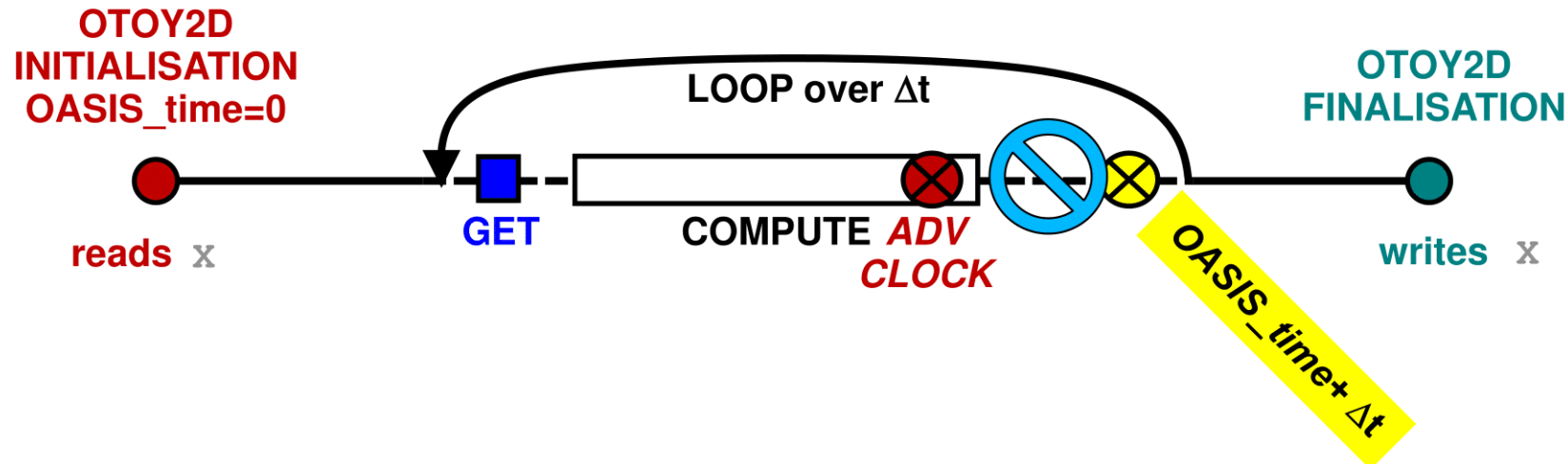
COMPUTE Y2012M12D31

**WRF
INITIALISATION**

**Coupling
Frequency
3600s**

**WRF
FINALISATION**

Coupling in OTOY2D code

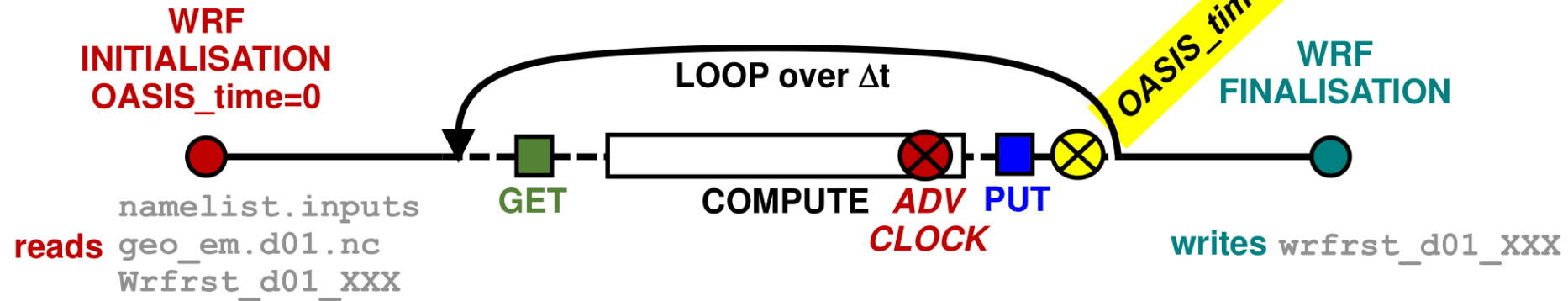


ATOY2D EXCHANGED FIELDS: (0=Parent, 1=first zoom, etc...)

RECEIVED

- OTOYSRFL0 → 2D Field, just like a Solar Heat Flux field
- OTOYEVPR0 → 2D Field, just like an Evaporation minus Precipitations field
- OTOYSTFL0 → 2D Field, just like a Non-Solar Heat Flux field
- OTOYTAUX0 → 2D Field, just like a surface zonal stress field
- OTOYTAUY0 → 2D Field, just like a surface meridional stress field

Coupling in WRF code



WRF EXCHANGED FIELDS: (d01=Parent, d02=first zoom, etc...)

SENT	WRF_d01_EXT_d01_SURF_NET_SOLAR	→ WRF Solar Heat Flux on grid wrp0
	WRF_d01_EXT_d01_EVAP-PRECIP	→ ROMS Evaporation minus Precipitations on grid wrp0
	WRF_d01_EXT_d01_SURF_NET_NON-SOLAR	→ ROMS Non-Solar Heat Flux on grid wrp0
	WRF_d01_EXT_d01_TAUx	→ WRF Stress along X axis on grid wrp0
	WRF_d01_EXT_d01_TAUy	→ WRF Stress along Y axis on grid wrp0
RECEIVED	WRF_d01_EXT_d01_SST	→ WRF SST on grid wrp0
	WRF_d01_EXT_d01_UOCE	→ WRF Surface Zonal Current on grid wrp0
	WRF_d01_EXT_d01_VOCE	→ WRF Surface Meridional Current on grid wrp0