AWI-CM3 hands-on-course:

Part 5: Visualizing AWI-CM3 output

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FESOM2

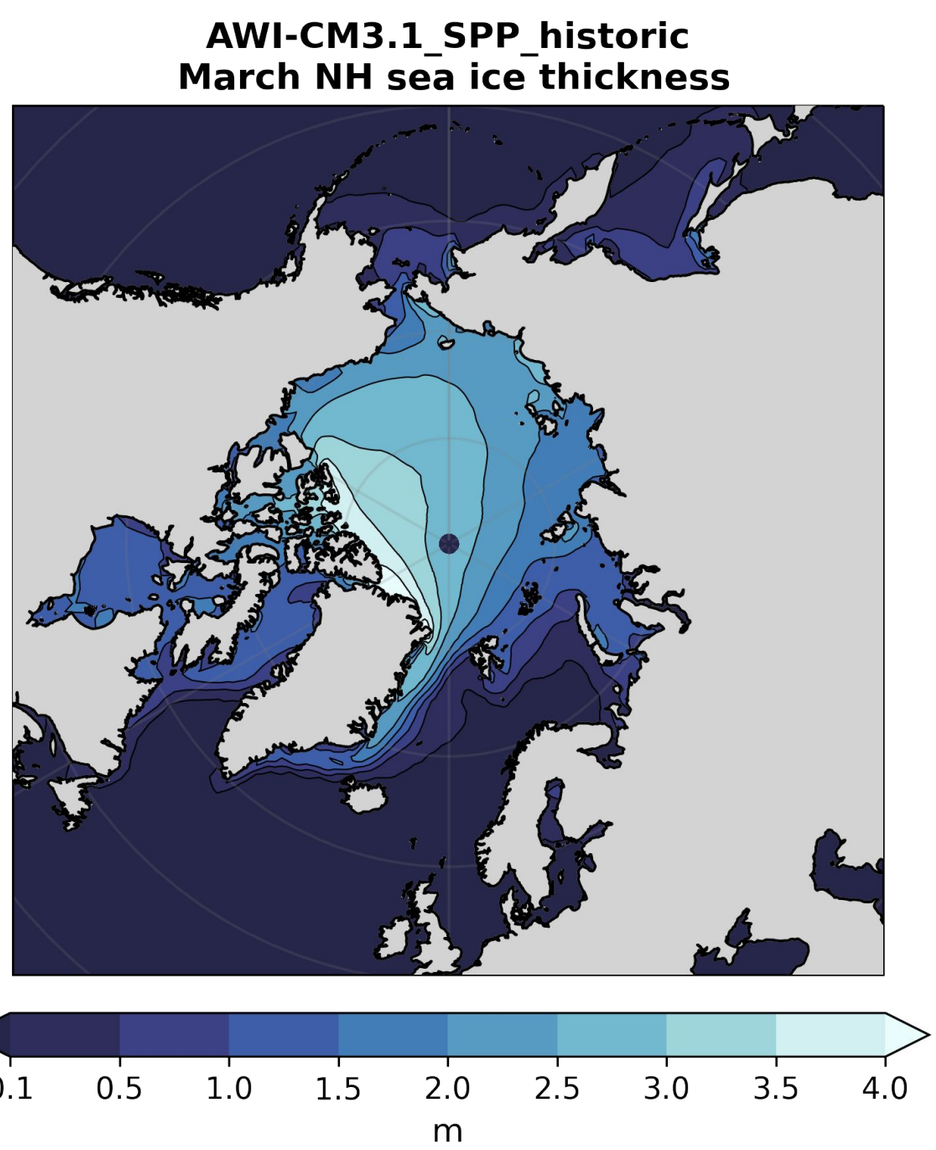
Visualization is no different from AWI-ESM2.
Unstructured mesh, recommended tools are:

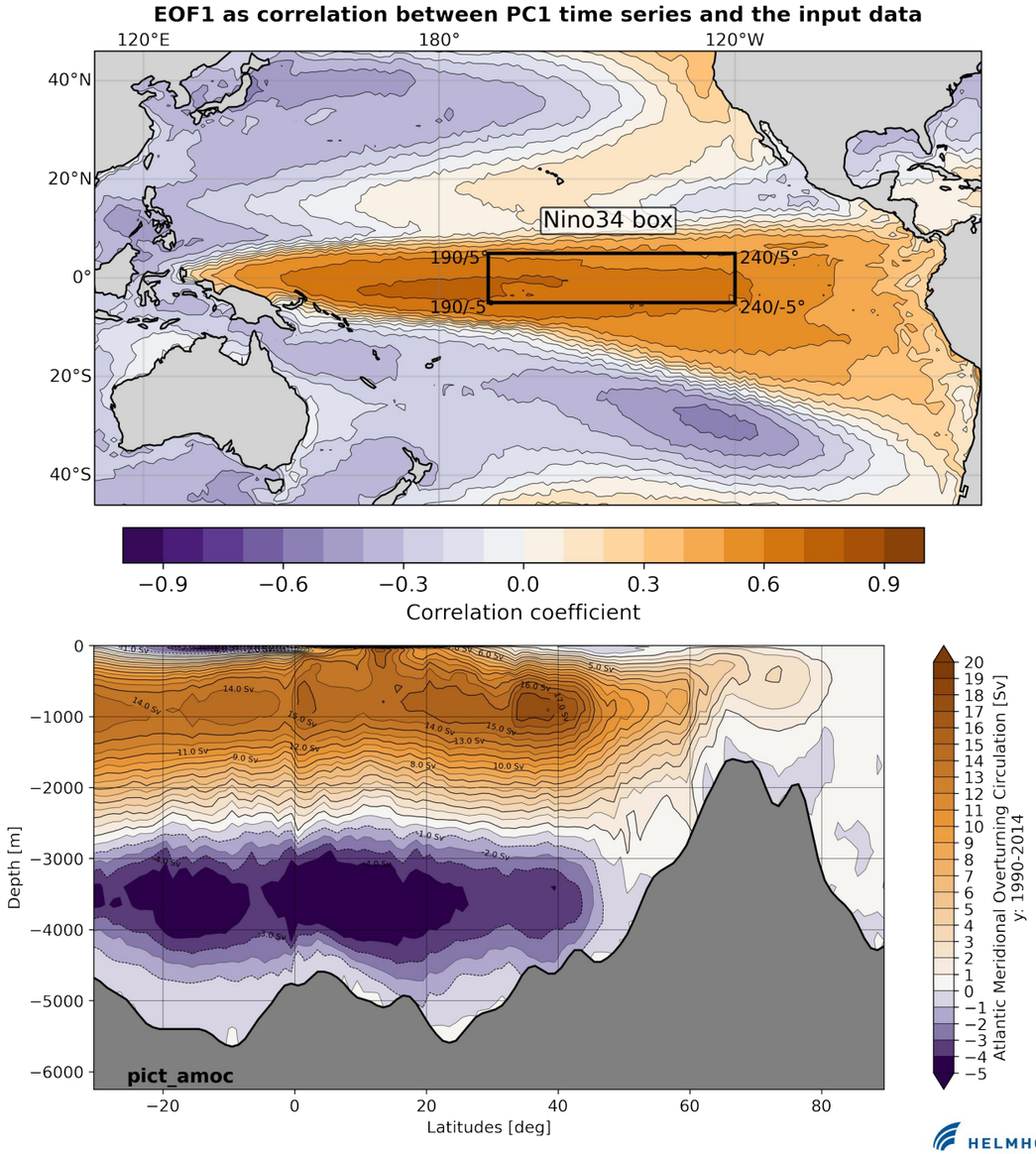
Pyfesom2: https://github.com/FESOM/pyfesom2
SpheRlab: https://github.com/FESOM/spheRlab

For a first quick glance at the data FESOM2 output can be interpolated:

1. Export gridfile=*/work/ab0246/a270092*/**input/fesom2/core2/core2_griddes_nodes.nc**
2. cdo genycon,r180x91 -selname,sst -setgrid,${gridfile} sst.fesom.2000.nc weights_sst_unstr_2_r180x91.nc
3. cdo -L -remap,r180x91,weights_sst_unstr_2_r180x91.nc -setgrid,${gridfile} sst.fesom.2000.nc sst.fesom.2000_r.nc
4. ncview sst.fesom.2000_r.nc

Pyfesom2 Examples



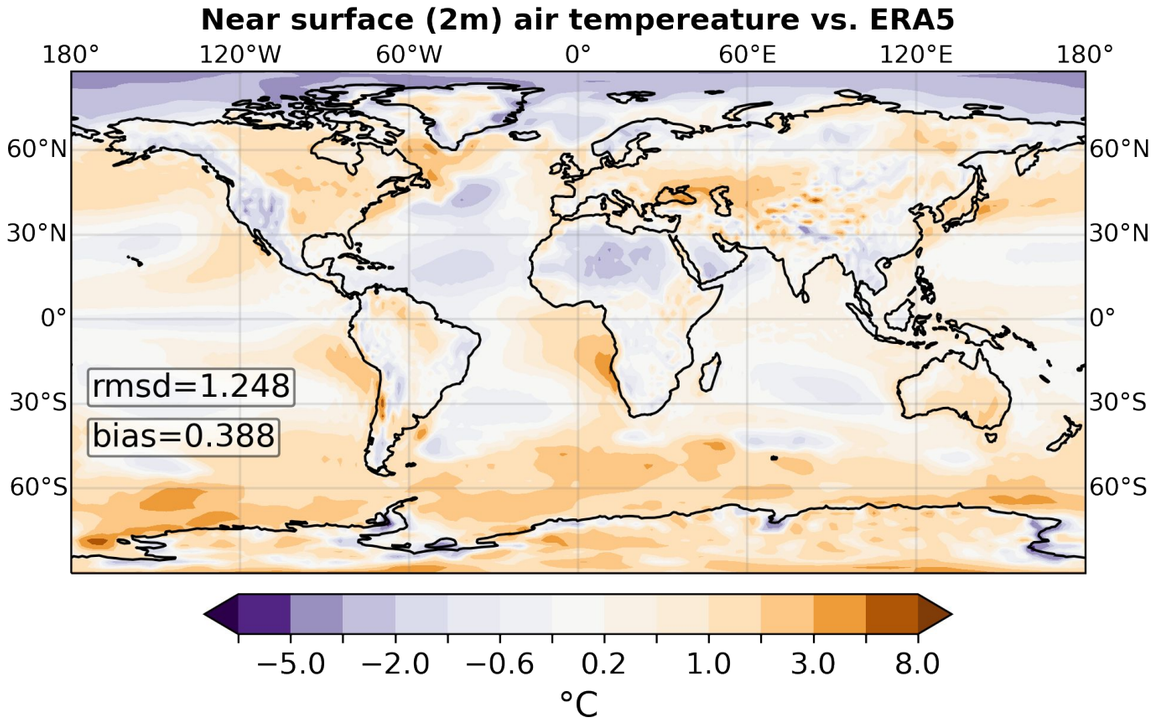


OpenIFS

Data comes on **regular lat/lon** grid in NetCDF files
→ Pretty much any tool for visualization of gridded data will work

- Ncview
- Python e.g. xarray.open_mfdataset + cartopy
- R
- NCL
- GrADS
- Panoply
- ArcGIS

Etc. etc.



OpenIFS Python Examples