

NorESM User Workshop 2020

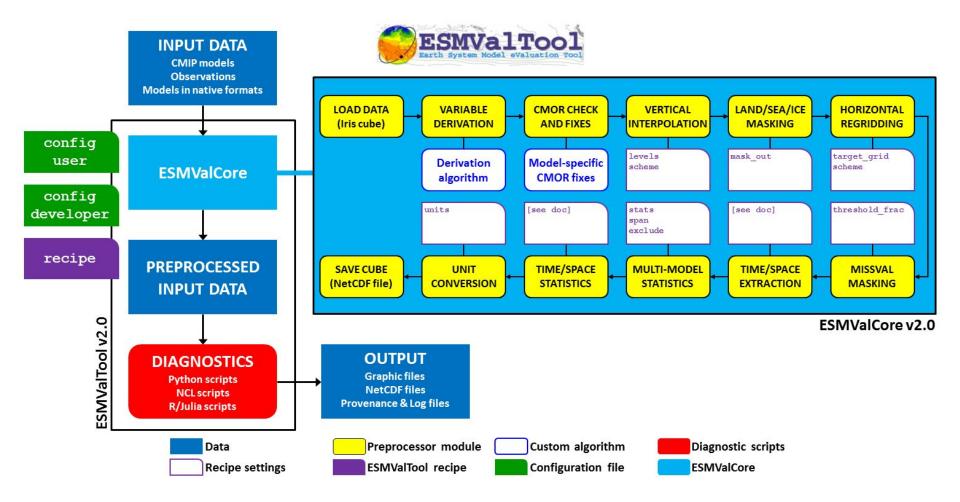
Why use ESMValTool?

1. Create CF/CMOR compliant datasets (CMOR-ization)

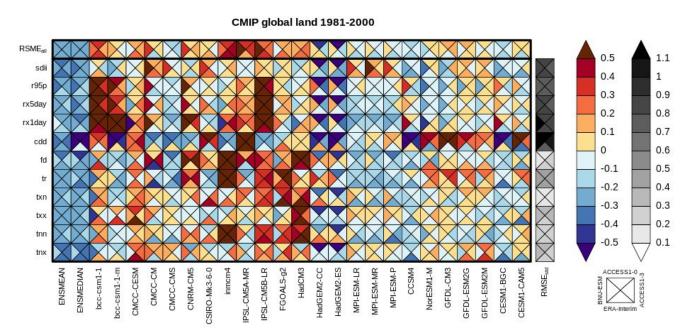
a. Standard format for several projects (CMIP, obs4mips, ana4mips, CCMI, CCMVal, AEROCOM, etc.)

- 2. Standardize multi-model evaluation
 - a. Single model evaluation of different versions
 - b. Compare model output to observations
- 3. Multi-language support: python, NCL, R, Julia
 - a. Core functions, ESMValCore, written in python
 - b. Built on Iris cube data structures





Multi-model comparison

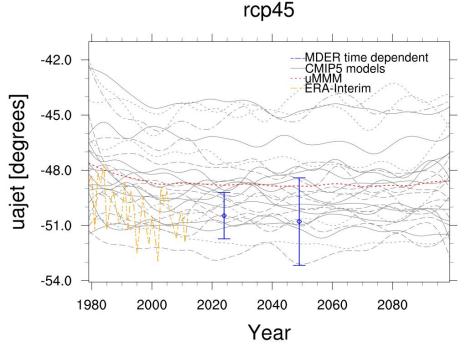


Extreme event indices : CMIP5 temperature & precipitation

ESMValTool gallery:

https://docs.esmvaltool.org/en/latest/gallery.html

Compare models with reanalysis data



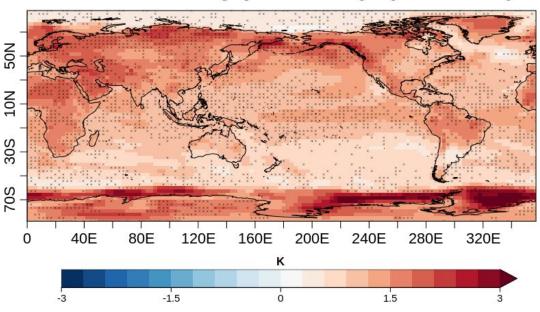
Future austral jet position in RCP4.5 scenario

ESMValTool gallery:

https://docs.esmvaltool.org/en/latest/gallery.html

Multi-model products

JUN tas anomaly (2006-2099) - (1961-1990)

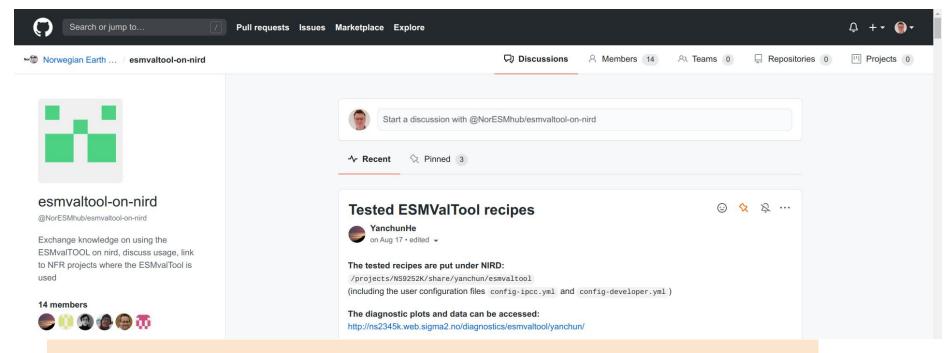


Multi-model mean anomaly of 2-m air temperature

ESMValTool gallery:

https://docs.esmvaltool.org/en/latest/gallery.html

NorESMhub user forum for ESMValTool



https://github.com/orgs/NorESMhub/teams/esmvaltool-on-nird

Links to more information

- ESMValTool on gitHub: https://github.com/ESMValGroup/ESMValTool
- ESMValCore on gitHub: https://github.com/ESMValGroup/ESMValCore
- ESMValTool documentation: https://docs.esmvaltool.org/en/latest/
- ESMValTool official tutorial: https://esmvalgroup.github.io/ESMValTool Tutorial/
- NorESMhub discussion forum on ESMValTool; running ESMValTool on Nird: https://github.com/orgs/NorESMhub/teams/esmvaltool-on-nird