



### => Observations for Model InterComparisons Project

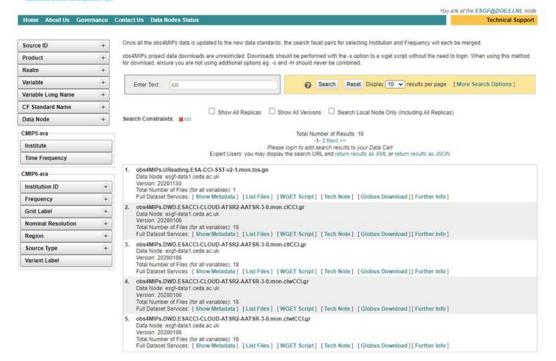
- International activity under the WCRP to make observational products more accessible for climate model intercomparisons.
- Designed to be closely aligned with CMIP.
  - ⇒ CMIP or closely related variables
- Data are made available through the Earth System Grid Federation (ESGF)

Obs4mips is in the process of being revitalised

https://pcmdi.github.io/obs4MIPs







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## Current requirements on data



- peer reviewed dataset, with measurement source, construction methodology, calibration/validation and uncertainty described in one or more peer reviewed publications.
- Variable is a match to a CMIP variable (or can be derived from)
- Gridded data
- Data are in specific Obs4MIPS format (CMOR)
- Has an accompanying technical note (in a specific format)
- DOI's are assigned to the data / tech note

Approval for dataset was needed from Obs4MIPs Task Team (=>CMUG)

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- Provide coordination and help and advice to CCI teams throughout the Obs4mips process
- Liaise with Obs4MIPs as needed (e.g. submit terms for MIP tables)
- Reformat suitably gridded data into Obs4MIPs compliant format
- + KE: Assign DOI's and publish to ESGF

Feb 2022 – CEDA took over responsibility for Obs4MIPs work in CMUG































### CCI data in Obs4MIPs already



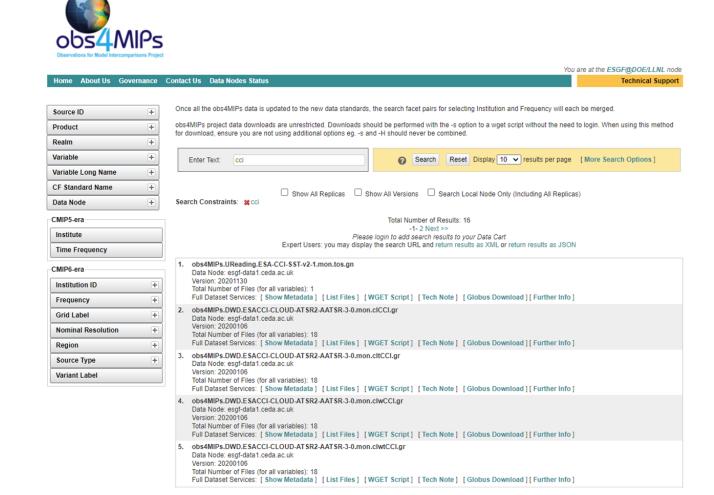
Current CCI ECV's with data published to Obs4MIPS:

#### Published earlier in this phase:

- cloud
- SST

#### Published in previous phase:

- greenhouse gases
- Aerosol
- + other datasets in preparation....

































# Rollout plan/priority datasets



Deliverable: Rollout plan for getting CCI datasets + status spreadsheet

Land Surface Temperature – MW	
Land Surface Temperature - IR	Suitably gridded version of the data provided by CCI team In process of conversion to obs4mips format
Land Surface Temperature – IR merged	
Ocean Colour	
Ozone - GTO (total ozone)	
Sea Surface Salinity	Next priority
Soil Moisture	

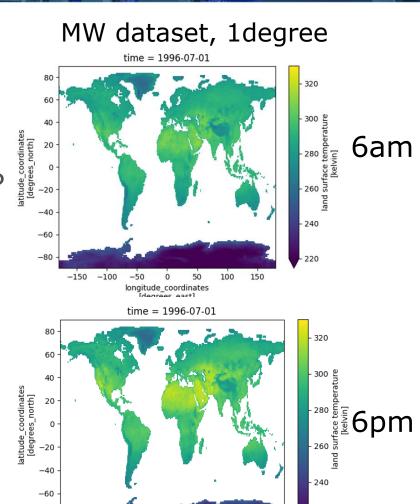


### Open questions



- CCI datasets often observe a slightly different variable to the closest CMIP variable
- e.g. LST at a specific local solar time

  Currently obs4mips use CMOR tables that map to the CMIP tables
- => Discussions ongoing with Obs4mips task team
- => Likely to need to expand/add new tables
- ❖ Inclusion of uncertainties and other auxiliary information is currently via a zip file as supplementary information not ideal=> again discussions within the Obs4mips task team.



-150 -100

longitude coordinates

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## Summary



- CMUG activity to get suitable CCI datasets into obs4mips
  - CCI teams =>provide suitably averaged datasets and technical notes
  - CMUG => help throughout the process and conversion of the dataset to Obs4MIPs format

For any questions about producing Obs4mips data, please contact me: alison.waterfall@stfc.ac.uk



















