

climate change initiative

→ CLIMATE MODELLING USER GROUP

CMUG contribution to Obs4MIPs

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=> Observations for Model InterComparisons Project

- Activity to make observational products more accessible for climate model intercomparisons.
- Designed to be closely aligned with CMIP.
 - Obs4MIPs datasets should align with a field output in one or more of the CMIP experiments.
 - Data are made available via Earth System Grid Federation (ESGF).

The screenshot shows the Obs4MIPs web interface. At the top, there's a navigation bar with links for Home, About Us, Governance, Contact Us, Data Nodes Status, and Technical Support. Below this is a search area with a text input field containing 'cc', a search button, and options for 'Display' (set to 10) and 'results per page'. There are also checkboxes for 'Show All Replicas', 'Show All Versions', and 'Search Local Node Only (including All Replicas)'. On the left side, there are several filter menus: 'Source ID', 'Product', 'Realm', 'Variable', 'Variable Long Name', 'CF Standard Name', 'Data Node', 'CMIPs-era', 'Institute', 'Time Frequency', 'CMIPs-era', 'Institution ID', 'Frequency', 'Grid Label', 'Nominal Resolution', 'Region', 'Source Type', and 'Variant Label'. The main content area displays a list of search results, each with details like 'Data Node', 'Version', and 'Total Number of Files'. The results are numbered 1 through 5.





Requirements on data



- peer reviewed dataset, with measurement source, construction methodology, calibration/validation and uncertainty described in one or more peer reviewed publications.
- Gridded data
- Variable is a match to a CMIP variable (or can be derived from)
- 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 needed from Obs4MIPs Task Team



CCI data in Obs4MIPs



Current CCI ECV's with data published to Obs4MIPs:

- cloud
- SST
- greenhouse gases
- Aerosol

+ other datasets in preparation....



Home About Us Governance Contact Us Data Nodes Status You are at the ESGF@DOE/LLNL node [Technical Support](#)

Once all the obs4MIPs data is updated to the new data standards, the search facet pairs for selecting Institution and Frequency will each be merged.

obs4MIPs project data downloads are unrestricted. Downloads should be performed with the -s option to a wget script without the need to login. When using this method for download, ensure you are not using additional options eg. -s and -H should never be combined.

Enter Text: Display 10 results per page [\[More Search Options \]](#)

Search Constraints: cci Show All Replicas Show All Versions Search Local Node Only (Including All Replicas)

Total Number of Results: 16
-1- 2 Next >>
Please login to add search results to your Data Cart
Expert Users: you may display the search URL and return results as XML or return results as JSON

- obs4MIPs.URReading.ESA-CCI-SST-v2.1.mon.tos.gr
Data Node: esgf-data1.ceda.ac.uk
Version: 20201130
Total Number of Files (for all variables): 1
Full Dataset Services: [\[Show Metadata \]](#) [\[List Files \]](#) [\[WGET Script \]](#) [\[Tech Note \]](#) [\[Globus Download \]](#) [\[Further Info \]](#)
- obs4MIPs.DWD.E.SACCI-CLOUD.ATSR2-AATSR-3-0.mon.cICCI.gr
Data Node: esgf-data1.ceda.ac.uk
Version: 20200106
Total Number of Files (for all variables): 18
Full Dataset Services: [\[Show Metadata \]](#) [\[List Files \]](#) [\[WGET Script \]](#) [\[Tech Note \]](#) [\[Globus Download \]](#) [\[Further Info \]](#)
- obs4MIPs.DWD.E.SACCI-CLOUD.ATSR2-AATSR-3-0.mon.ctCCCI.gr
Data Node: esgf-data1.ceda.ac.uk
Version: 20200106
Total Number of Files (for all variables): 18
Full Dataset Services: [\[Show Metadata \]](#) [\[List Files \]](#) [\[WGET Script \]](#) [\[Tech Note \]](#) [\[Globus Download \]](#) [\[Further Info \]](#)
- obs4MIPs.DWD.E.SACCI-CLOUD.ATSR2-AATSR-3-0.mon.chwCCI.gr
Data Node: esgf-data1.ceda.ac.uk
Version: 20200106
Total Number of Files (for all variables): 18
Full Dataset Services: [\[Show Metadata \]](#) [\[List Files \]](#) [\[WGET Script \]](#) [\[Tech Note \]](#) [\[Globus Download \]](#) [\[Further Info \]](#)
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How can we help?



- Provide help and advice throughout the process
- Liaise with Obs4MIPs as needed
- Reformat suitably gridded data into Obs4MIPs compliant format
- Assign DOI's and publish to ESGF (via Open Data Portal, under CCI KE)





<https://ccidatapreparation.readthedocs.io/en/latest/index.html>

- 1) Submit a proposal to the Obs4MIPs Task Team**
- 2) Prepare suitable data e.g. regrid if required (e.g. 1x1 degree monthly)**
- 3) Format the data into Obs4MIPs format (CMUG)*
- 4) Prepare a technical note for the data**
- 5) Submit the data and the technical note to the task team for review**
- 6) Assign DOI's (Open Data Portal)*
- 7) Publish the data to ESGF (Open Data Portal)*



Please contact me for any:

- Obs4MIPS questions
- + Any other data related queries e.g. datasets for the Open Data Portal, CCI data standards

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