The importance of data references in CMIP6 data usage and IPCC climate assessments

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How to find a CMIP6 data reference?

- ESGF CoG portal
- Google Dataset Search
- NetCDF file ‘furtherInfoUrl’ global attribute → ES-DOC → DOI landing page

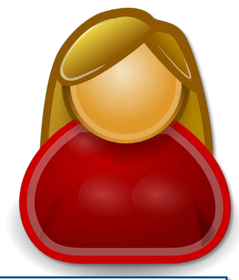
Why cite data?

- Give credit for data providers
- Improve traceability of research findings

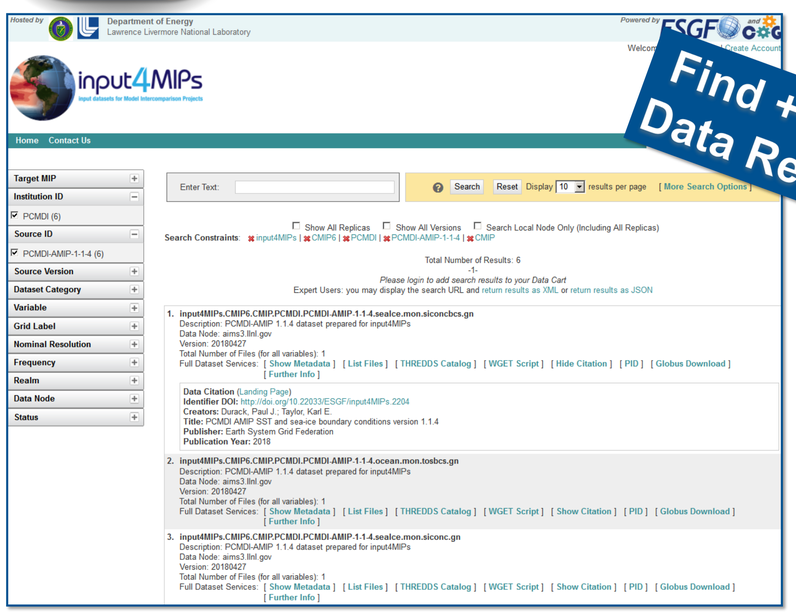
How to use a CMIP6 data reference?

- Cite data alongside articles in the reference list
- See author guidelines e.g. of the “Enabling FAIR Data Project”: http://www.copdess.org/enabling-fair-data-project

Data User



Data Provider

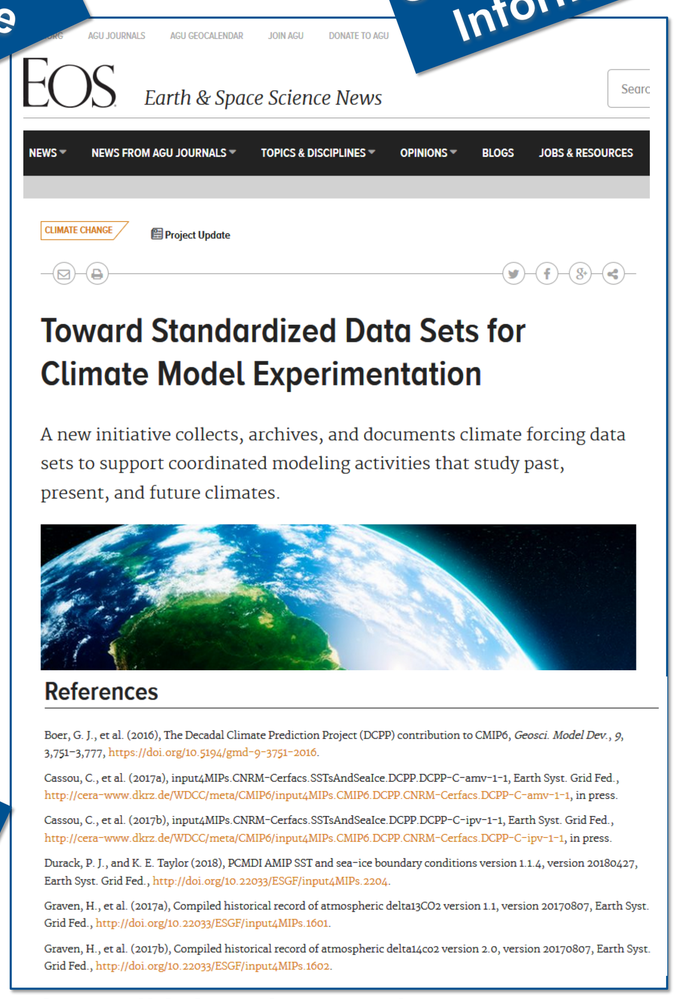


Find + Include Data Reference

Get Data Usage Information

Impact of research
collected as number of quotes of articles and data in scientific literature

https://esgf-node.llnl.gov/search/input4mips/

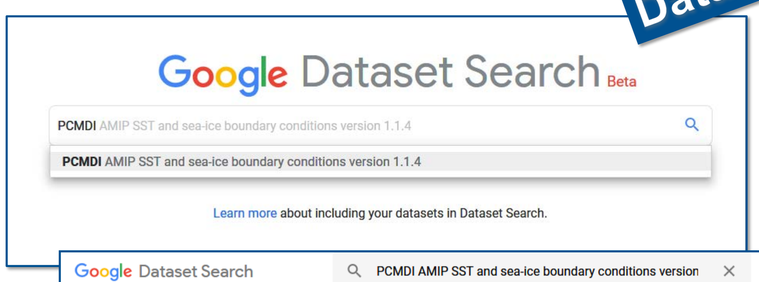


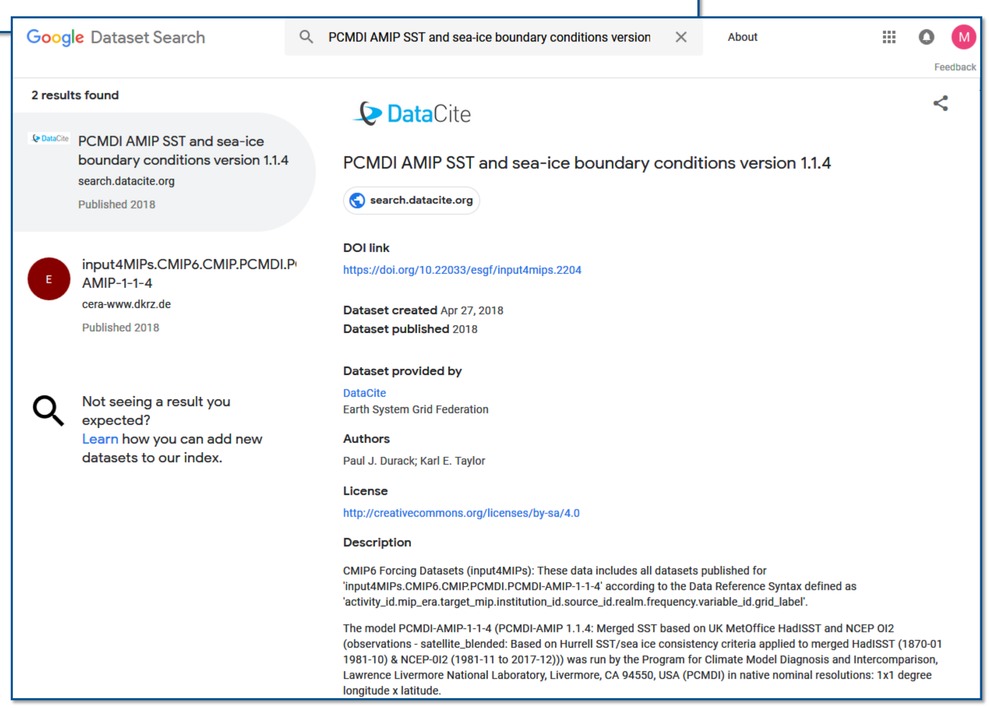
https://doi.org/10.1029/2018EO101751

Find + Include Data Reference

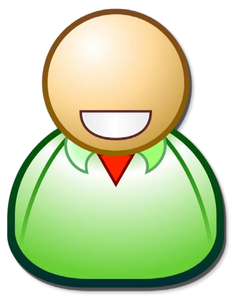
Exchange References

Resolve DOI + Get Data

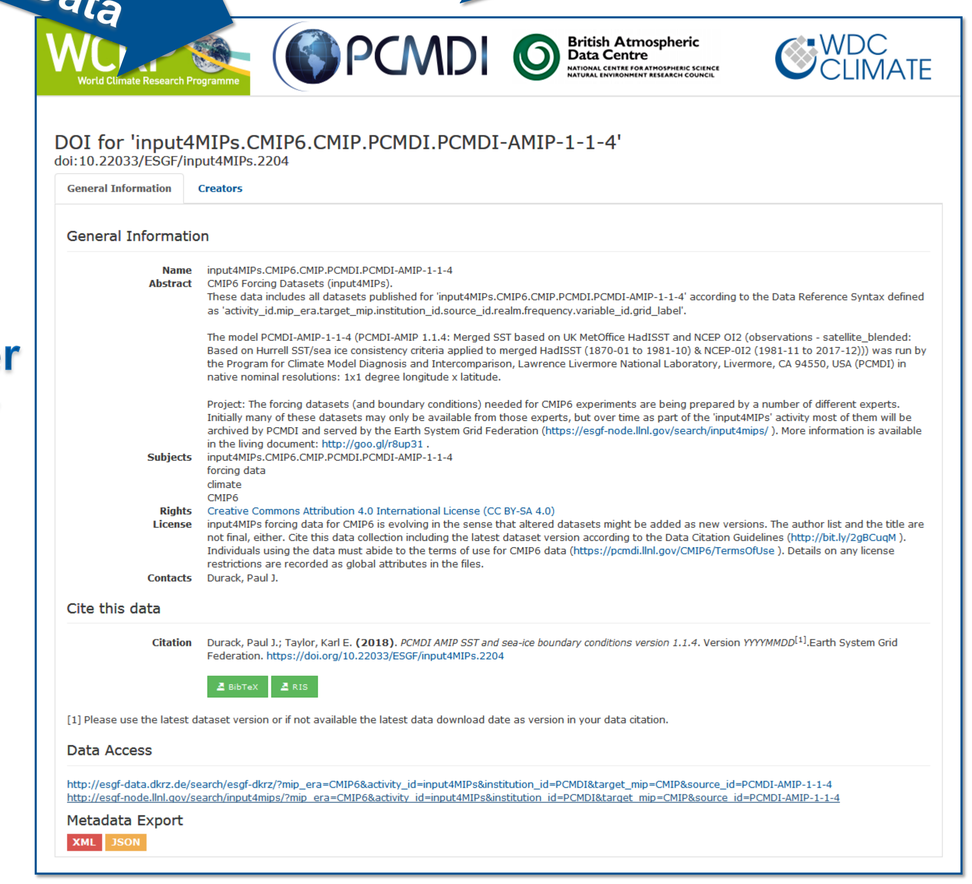




https://toolbox.google.com/datasetsearch/



Article Reader Data Reuser



https://doi.org/10.22033/ESGF/input4MIPs.2204

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