How to find and access datasets on NCI

ACCESS Training Day 2024



You know which dataset you want to use





You know which dataset you want to use

NCI data catalogue

You don't know which dataset you want, but you know some aspects of a dataset that you'd like (e.g. variables, resolution, timeframe)

Intake catalogues



You know which dataset you want to use

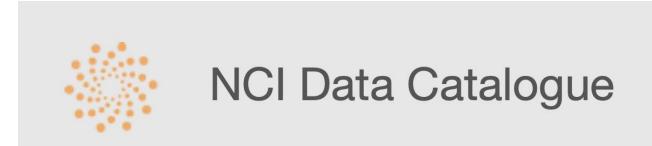
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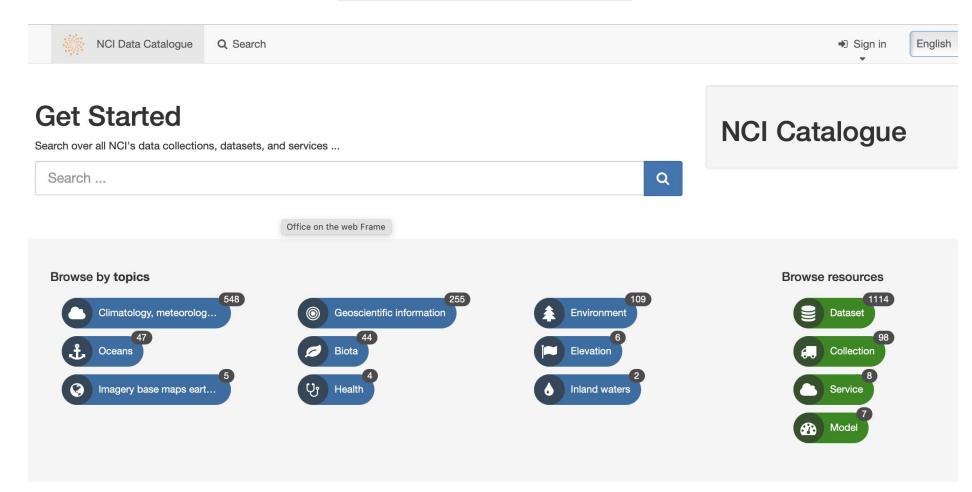
Intake catalogues







https://geonetwork.nci.org.au





NCI Data Collections

https://opus.nci.org.au/display/NDP/Data+Products+Detailed+Documentation

- Bureau of Meteorology Satellite Data Collections
- Bureau of Meteorology Satellite SST Products (qm43)
- CMIP Collections
- ERA5 Collections
- AuScope MT data restructuring (my80)
- BOM BARPA (py18)
- BOM BARRA2 (ob53)



Accessing data on NCI

- Local filepath on Gadi (requires NCI account)
- THREDDS for download (does not require NCI account)
- Use Intake to streamline data access (more later)

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Intake



"Taking the pain out of data access and distribution"

- Python interface for finding, investigating, and loading data directly into Python
- Allows user to load datasets of varying format using the exact same code



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Intake-ESM

Intake package specifically designed for climate data



Intake-ESM Catalogues on NCI

Intake-ESM for NCI Data Collections

- Intake-ESM on BARRA2/BARPA data collections
- Intake-ESM on CMIP5/6 datasets
- Intake-ESM on ERA5 data collection

https://opus.nci.org.au/display/DAE/dataset+indexes+for+climate+and+weather

Intake-ESM Catalogues on NCI

ACCESS-NRI Intake Catalogue

https://access-nri-intake-catalog.readthedocs.io/en/latest/

Other ACCESS-related datasets:

- Not necessarily published as datasets
- Includes user-run ACCESS model configurations

Intake-ESM for NCI Data Collections

- Intake-ESM on BARRA2/BARPA data collections
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