

How to find and access datasets on NCI

ACCESS Training Day 2024

Finding data

You know which dataset
you want to use



NCI data catalogue

Finding data

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

Finding data

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Intake catalogues



NCI Data Catalogue

<https://geonetwork.nci.org.au>



NCI Data Catalogue

Search

Sign in

English

Get Started

Search over all NCI's data collections, datasets, and services ...




Search ...









NCI Catalogue

Office on the web Frame





Browse by topics

-  Climatology, meteorolog... ⁵⁴⁸
-  Oceans ⁴⁷
-  Imagery base maps eart... ⁵

-  Geoscientific information ²⁵⁵
-  Biota ⁴⁴
-  Health ⁴

-  Environment ¹⁰⁹
-  Elevation ⁶
-  Inland waters ²

Browse resources

-  Dataset ¹¹¹⁴
-  Collection ⁹⁸
-  Service ⁸
-  Model ⁷



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 catalogues

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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