

#### **NCI** Data Access and Services

Jingbo Wang 2015.May













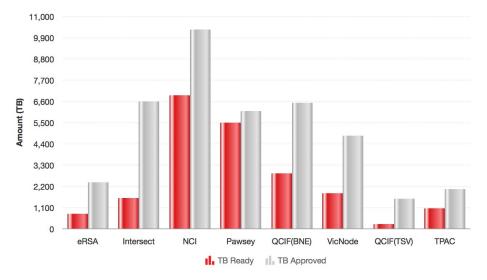




Our data ingest is well underway: <a href="http://nci.org.au/data-collections/data-collections/">http://nci.org.au/data-collections/</a>

Collections related to BoM:

collection name	available size/target size (TB)
ACCESS model (rr4)	2231/2538
Observation (rr5)	224/366
Ocean-Marine (rr6)	7/380
Reanalysis(rr7)	165/165
Seasonal Climate Prediction(rr8)	369/595
Key Water Assets(fj8)	18/44



762	1573	6884	5498	2840	1828	246	1060
2389	6593	10295	6072	6504	4794	1558	2055

The NRM seasonally processed part of CMIP5/ACCESS is available:

http://dapds00.nci.org.au/thredds/catalogs/ua6\_4/catalog.html

the POAMA data:

http://dapds00.nci.org.au/thredds/catalog/poama/e24/hindcast/legacy\_structure/catalog.html ACCESS model reference data: http://dapds00.nci.org.au/thredds/catalog/rr4/catalog.html

## NC Finding data

All datacollections, dataseries and datasets are discoverable and searchable in our catalogue - <a href="http://geonetwork.nci.org.au/">http://geonetwork.nci.org.au/</a>

Catalogue is ISO19115 compliant and organised at two levels:

- Top level has single entry for each data collection, series of dataset.
  - It is organised as parent-child relationships where sets live within collections etc.
  - Catalogue include detailed product descriptions, geospatial extents, license conditions, location of data, and contacts.
- Lower level has all attributes of the data.
  - Reference to lower catalogue is listed in the top level catalogue under transfer options.

Some datasets are still coming online and being sorted out from data collections.

All data catalog

### Parent/child metadata:

able in our

Catalog

- Top
  - \_\_\_

ARC Centre of Excellence for Climate System
Science Datasets Collection
ACCESS 1.2b model output from the

- ACCESS1.3b model output from the Amazonian Deforestation (AMZDEF) experiment v1.0
- WRF model outputs from the 2-km resolution Sydney experiment (v1.0)

n collections

ents, license

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Transfer options

OnLine resource

OnLine resource

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OnLine resource

http://dap.nci.org.au

http://geonetworkfx2.nci.org.au

ANDS

/g/data1/fx2

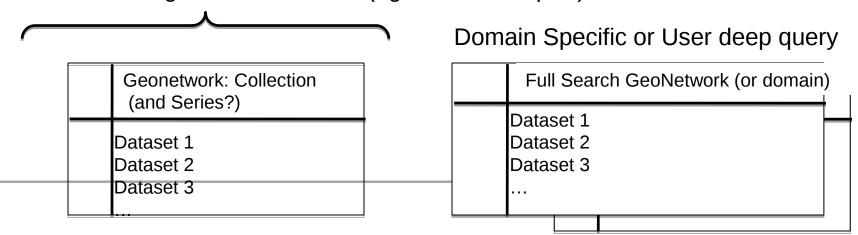
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#### **NCI GeoNetwork architecture**

CSW Harvesting and Cross-walks (eg RIF-CS Adapter)



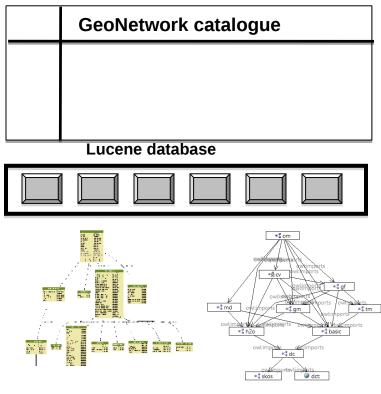
Full harvest of the metadata

Dataset 1		Dataset 2		Dataset 3			Dataset n
Dataset specific Geonetworks							
Dataset specific Georgetworks							



- Data belonging to formal collections may be made available for public access through NCI, using THREDDS or Hyrax.
- The Geonetwork catalogue will point to the relevant data services.
- Listed under "transfer options". Typically they will be:
  - HTTP download
  - OPeNDAP services
  - OGC web services (WMS, WCS, WFS, WPS)
  - NetCDF subsetting service
  - Filesystem path for users with appropriate project membership (findable in GeoNetwork)
  - Other services, eg. ERDDAP
- Programmatic authenticated access via web services nearly available.

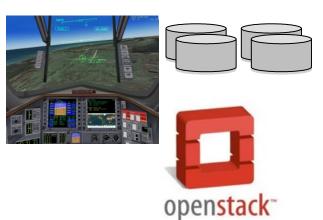




Supercomputer access



Virtual lab DAP, OGC, ... Services



/g/data1

/g/data2

Trialing Elastic Search



User Support for Climate, Weather and Earth Observations users now started. 3 EFT – Claire Trenham (lead).

Working alongside data collections team.

Please send emails to the data collection <a href="mailto:datacollections@nci.org.au">datacollections@nci.org.au</a>

Ben Evans will give a talk at BoM on 18 June and give a more complete update.



# Thank you



What happens if you request to connect a project

- 1. fill the form online
- CI of the project will receive an email for approval
- NCI help desk will take action as indicated by the CI of the project

Note: The CI of BoM data collections (rr4, rr5, rr6, rr7, rr8, fj8) is Robin Bowen.