



Making knowledge of Geoscience Australia's data and information assets accessible to the external community





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Geoscience Australia's two main catalogues

Geocat

Total number of records = **38 371**Web visible records = **18 945**

Standards Compliant records

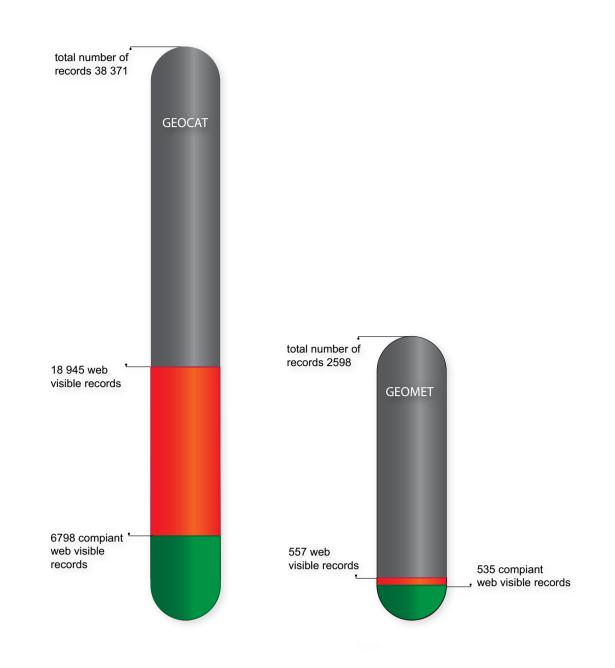
When started (April 2011) = 3
After initial cleansing (May 2011) = 5893
Now (October 2011) = 6798

GeoMet

Total number of records = **2598**Web visible records = **557**

Standards Compliant records

When started (April 2011) = **271**After initial cleansing (May 2011) = **535**Now (October 2011) = **535**



Transformation Process

ANDS/GA joint project

In 2010, the Australian National Data Service (ANDS) and Geoscience Australia (GA) decided on a joint project to map GA's product catalogues to an industry standard, ISO19115 and then cross walked to RIF-CS.

The result was twofold: enabling GA to provide collection level metadata from these catalogues to Research Data Australia; plus providing GA with a baseline for an enterprise-wide metadata profile.

Researchers and other parties can now see descriptions and access requirements of GA's products, including:

- Satellite images/datasets landsat, radarset, etc.
- Geological and Topographical maps of various scales
- AUSGeoid98 series of various scales
- Other geoscientific thematic maps
- Acreage release permit titles, petroleum exploration areas, etc.
- Boundary Datasets: Maritime, Aboriginal Commission, postcodes, etc.
- Thematic GIS datasets
- Registers for Geographic Extent names

GA Metadata profile

- Based on ANZLIC Metadata Profile
- Intensive internal consultation were held in April-June 2011 to define business requirements with:
 - Frequent Geocat/Geomet Users
 - Scientific Community of Practice
 - New /existing GA projects
- GA's business requirements were mapped to the ISO 19115 elements
- Reviewed by external standards specialists (Simon Cox, John Hockaday) to ensure compliance with ISO 19115 and ANZLIC metadata standards
- Approved by GA's Executive Board Committee in July 2011.

Translation routine

- A routine has been developed in-house at GA that implements the mapping of the Geomet and Geocat metadata databases to the GA Metadata profile.
- The routine translates metadata records held in the Geomet and Geocat metadata databases into XML documents conforming to the GA Metadata profile.
- The translation routine is modular and extensible in design, enabling future adaptations for use both with other metadata databases within GA and new metadata profiles.





Topographic Map Orthophoto Map

Field of research EARTH SCIENCES

Point of contact: Geoscience Australia

(ANZSRC):

imageryBaseMapsEarthCove

View the complete record in the ANDS Collections Registry

GeoNetwork installation

- The Geocat and Geomet metadata records translated into GA Metadata profile XML documents are harvested into an instance of GeoNetwork deployed to the GA Internet website.
- Harvesting occurs on a nightly basis to ensure the GeoNetwork repository is synchronised with additions and modifications to the Geomet and Geocat metadata databases.
- The GeoNetwork instance exposes service interfaces conforming to two protocols for querying and retrieving metadata from the GeoNetwork catalogue:
 - CSW the Open Geospatial Consortium's Catalogue Service for the Web specification.
 - OAI-PMH Open Archives Initiative Protocol for Metadata Harvesting.
- The GeoNetwork deployment is a modified instance of stable release 2.6.3, containing modifications supplied by CSIRO to enable provision of the GA Metadata profile records in the ANDS RIF-CS profile.

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Bathymetry grid of the Freycinet Peninsula survey area
Geoscience Australia carried out marine surveys in southeast Tasmania in 2008 and 2009 (GA0315) to map seabed bathymetry and characterise benthic environments through observation of...

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