Geoscience Product Catalogue User Guide

Geological Survey of New South Wales

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1.   About the Geoscience Product Catalogue

The Geoscience Product Catalogue is an online application that provides both spatial (map-based) and textual (keyword) tools to search the product database of Geological Survey NSW.

The Geoscience Product Catalogue also allows the user to:

- Employ filters to limit the search to specific product types or remove products from search results.

- Perform advanced searches by locality or latitude and longitude coordinates, including the ability to apply a search radius.

- View detailed product information

- View ordering and contact details

- View published maps in Google Maps or Google Earth

- View related products, and

- Download images and digital data of published maps.

The Geoscience Product Catalogue, including this user guide, is available from the NSW Trade & Investment, Division of Resources & Energy (the Department's) website: www.resources.nsw.gov.au

No login is required to use the application.

A simplified version of the Catalogue has been designed for use with mobile devices, such as tablets and phones.

1.1   The Geoscience Product Catalogue Interface

The following diagram highlights the key features of the Catalogue's interface.

1.2   Available Products

The following products are included in the Geoscience Product Catalogue include:

- geological maps
- metallogenic maps
- vector data (for geological and metallogenic maps)
- geophysical – geological interpretation maps
- special interest maps
- coalfield geological maps
- coastal quaternary maps
- heritage maps
- geoscience data packages (available on CD or DVD) for minerals, petroleum, coal seam gas and geothermal.
- explanatory notes (for geological and metallogenic maps)
- bulletins
- non-periodicals (such as Industrial Mineral Opportunities in NSW)
- Quarterly notes

2.   Search Functions

Users are able to search the Geoscience Product Catalogue using either a map or keyword search. An advanced search option is also available allowing users to search by locality or latitude and longitude values.

The user may also refine their search by filtering out product types not relevant to their needs.
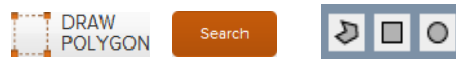
2.1   Keyword search
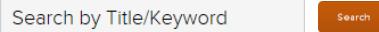
To search using keywords, enter the search term in the bar above the map, then click search.

The application will then locate instances of the search term in the product's title, reference or abstract. Search results are weighted according to relevance, with products that include the search term in the title listed first.

2.2   Map search

To use the map search select the area of interest using the drawing tool, then click search. All products that relate to the area selected will be returned in the search.

After selecting an area on the map using the drawing tool, the user can then enter a keyword in the search bar. All products that contain the keyword, within the defined area, will be returned in the search.

There are three types of drawing options; polygon, rectangle and circle.
Note: Only the polygon tool option is available on mobile devices.

2.3   Advanced search options
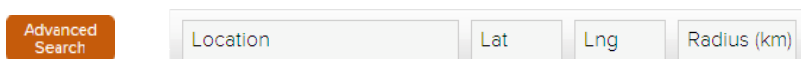
The Advanced Search option allows the user to search by locality or latitude and longitude coordinates, with the ability to create a defined search radius.

Note: The advance search is actually a radius search, it requires both the locality and radius to be defined as with the latitude/longitude and radius.

The latitude and longitude can be entered as:

- decimal degrees (i.e. -32.80 and 141.46)

- Whilst latitudes in the southern hemisphere are negative values, the search will work if you forget to enter the negative (-) sign as the search is restricted to the southern hemisphere.

The search radius is defined in kilometres. If no value is entered a default of 100km is assumed

There are a number of products in the database that extend over the entire state of New South Wales. The user can remove these from the search by turning off the **State wide** filter, which is located on the left hand side of the map under the Product Area filter option. This can be done before or after commencing a search.   The state wide products will appear as a cluster in the centre of the state when displayed on the map. This does not include maps that have a defined scale, such as Surface Geology of NSW 1:1 500 000.

2.4   Refining a search using filters

SHOW FILTERS   〉

The products in the database have been classified based on theme, type and format.

Product theme – refers to the subject matter. Individual products may belong to several theme classifications. For example the Geological Map of Part of the Maitland Coalfield from 1902 is classified under Geological, Coal and Heritage

Product type - refers to the physical form of the product, such as map sheet, book, brochure, flyer, poster or digital data package.

Product format – provides more detail to describe how the product is actually presented, such as digital document, hardcopy printed document, DVD, MapInfo tab files or geo-referenced image.

The user may refine their search by filtering out themes, types or formats not relevant to their needs.

The default setting for all filters is for all themes, types and formats to be selected. To refine the search click 'select all' to deselect, then select the relevant items. Alternatively, clicking on items that are currently selected will deselect them.

The tables below lists the filters contained in the Geoscience Product Catalogue:

THEME	DESCRIPTION
Coal	Coal resources, deposits, exploration, basins, industry profile, open cut, stratigraphy; coalfields; kerosene shale.
Coal Seam Gas	Coal bed methane, resources, reservoirs, deposits and processes
Corporate	Government, industry, administrative and legal documents, reports and policies; explorers' directories; industry profiles; safety manuals and risk management guides.
Environmental	Environmental rehabilitation work, policies, considerations and mining impacts.
Geological	Geological maps, interpretations, surveys, processes, descriptions and resources; mineral deposits; mineral studies; industrial minerals; coal geology; landuse; hydrogeology; stratigraphy; structures and field geology.
Geophysical	State wide and regional geophysical images and data; 3D interpretations; solid geology, magnetic intensity, radiometric, radio element, digital elevation and structural maps; airborne geophysical surveys; seismic surveys; hyper spectral surveys
Geothermal	Geothermal resources, potential, geology and basins
Historical	Historical geological maps, county maps with overlaid geology, mining district maps and plans 1834-1957, mining history
Metallogenic	Metallogenic maps, explanatory notes, metallogenic studies and mineral deposit data sheets.
Minerals	Mineral specific publications: metallic, industrial, ornamental minerals and gemstones
Others	Products not fitting any other themes: groundwater, commercial processes, ore treatment, industrial minerals, palaeontology, fossils.

Petroleum	Petroleum geology, reservoirs; basins, prospectivity and potential studies; age dating; well data; seismic surveys; stratigraphy; wireline logs; geological structures.
Resource/Investment	Resource and/or investment
Titles	Mining and exploration titles
Tourist	Tourist maps, field geology guides

TYPE	DESCRIPTION
Bulletin	A substantial publication containing a comprehensive coverage of a subject
Digital Data Package	A DVD or CD containing digital data and images
Explanatory Note	A publication which accompanies a published map and contains explanations of the geology and mineralisation of the map sheet area. Mine data sheets append metallogenic maps.
Flyer or brochure	Promotional or information fact sheet, single page
GS Report	Geological Survey Report covering specific geoscientific research: geology, petrology, mineral process studies
Map sheet	Standard or special map sheet
Memoir	A publication incorporating all the work conducted by the author over one area or topic
Mobile Application	Mobile application for portable electronic devices
Non periodical	Publication not fitting any other category
Periodical	Publication issued periodically such as twice yearly (bi-annual)
Poster	Large sheet used for education or promotion
Presentation	Talk or power point presentation
Quarterly Note	Quarterly Note is the Geological Survey of NSW research periodical
Record	Records were periodically published notes of scientific activities and findings of the Geological Survey of NSW

FORMAT	DESCRIPTION
Audio, video	Audio, video, podcast, animation, screen capture
Digital document	Digital document - pdf, doc, ppt
DIGS	Digital Imaging Geological System database
Google Earth	Google Earth overlay
Google Map	Google map overlay
Mobile app, Android	Mobile application for Android devices
Mobile app, Apple	Mobile application for Apple devices
Mobile app, others	Mobile application for non Android & Apple devices
Optical disc	Optical disc format - CD, DVD, Mini CD, Blu Ray
Other	Products not fitting any other sub category
Print on demand	Request made to department for a hard copy
Printed	Printed hard copy
Raster, georeference	Georeferenced raster image
Raster, non georef	Non geo referenced raster image
Vector, ESRI	Vector data ESRI format - .shp, .mxd, .gdb

Vector, MapInfo	Vector data MapInfo format - .tab, .wor
Vector, others	Vector data formats other than ESRI and MapInfo

A combination of all search types can be used together with the application filters,

State Wide

There are a number of products in the database that extend over the entire state of New South Wales. The user can remove these from the search by turning off the State Wide filter, which is located on the left hand side of the map under the other filter option of Product Area. This can be done before or after commencing a search.

The state wide products will appear as a cluster in the centre of the state when displayed on the map.

2.5   Display of search results

The results of searches will be displayed both on the map and in a table listed directly under the map.

Display of search results on map

On the map search results will be represented by a pin. The colour of the pin will indicate the type of the product, the title will be reveal when you hover over the pin with the mouse.

Clicking on the pin will display essential product information, including product title, edition, type and scale.

The **show extent** button will turn on/off the product's area extent on the map. The **show details** button will display the full product details and thumbnail image of the product in the individual product preview screen.
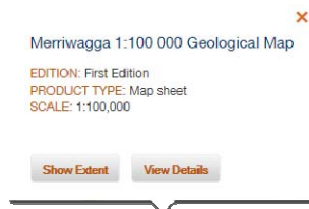
If two or more products are coincidental, the multiple products will be clustered together and display as a circle, with the number of products listed in the symbol. Clusters with less than 10 products will be green, between 10 and 99 will be yellow and over 100 will be orange. Clicking on the cluster symbol will cause the map to zoom in to reveal the individual product pins and/or smaller clusters of products.

Display of search results as a list

The list of results will include details such as name, edition, product type, scale, publication date and cost. The list can be sorted by any of these fields (please note: the phone version only lists the title).

The extent of the product can also be turned on/off using the pin symbol in the list.

Filters can be applied at any time to further refine the list of results. For example, to display only maps turn off all other product types.

Image: search results as list

2.6   Sorting of search results

Results can be sorted according to name, scale, date or cost from the results list using the heading bar. Click the up or down arrow next to the heading.

2.7   Reset search

To reset and clear search options click the reset button above the map. The default for all filters is to select all.

2.8   List all products in the database

A list of all products in the database can be viewed by following the A-Z product list link located at the top right of the screen and in the footer at the bottom of the screen.

Clicking on a product will show details of that product in the product preview screen.

3. Product preview and ordering

3.1 Product preview

PRODUCT
DETAILS ⌄

Detailed information can be displayed for each product by clicking the **details** button in the pop balloon attached to the pins on the map or by clicking the product row within the results list.

Detailed information available includes:

➢ product title

➢ map sheet code

➢ year published

➢ scale

➢ edition

➢ status

➢ format

➢ reference

➢ price

➢ comments

Thumbnail images are also available for most maps. Moving the cursor over the thumbnail image will activate the magnify feature, allowing a closer inspection of the image.
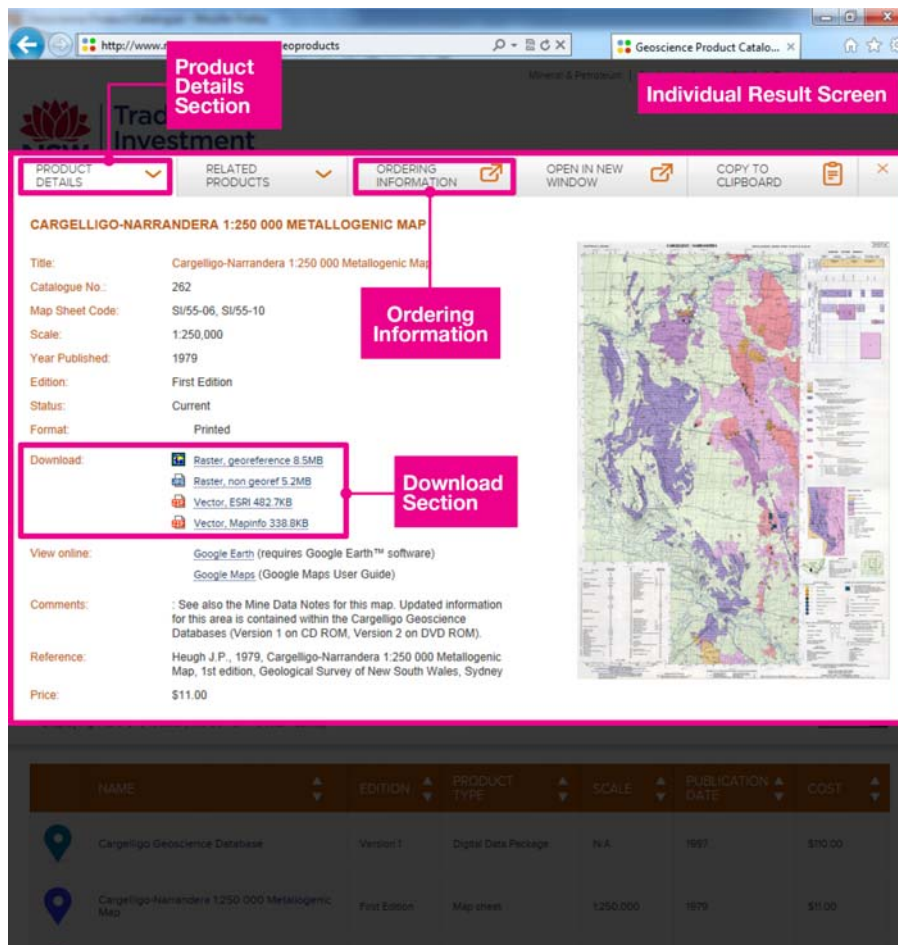

Image: individual product preview screen display

Many of the published maps can also be viewed in both Google Maps and Google Earth by following the link on the individual product preview screen.

To view a map as a layer in Google Earth, the application will need to be installed on the user's computer. Google Maps will open in an internet browser.

3.2 View related products
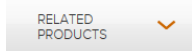
A number of products, such as geological mapping or geophysical surveys, will often be packaged as a suite of products, containing different formats from the same dataset.

For example, the Cargelligo mapping project saw the publication of a number of maps and explanatory notes that all relate to one another.

Products that relate to one another have been grouped together in the Catalogue. These related products can be viewed from a link at the top of the individual product preview screen called 'related products'

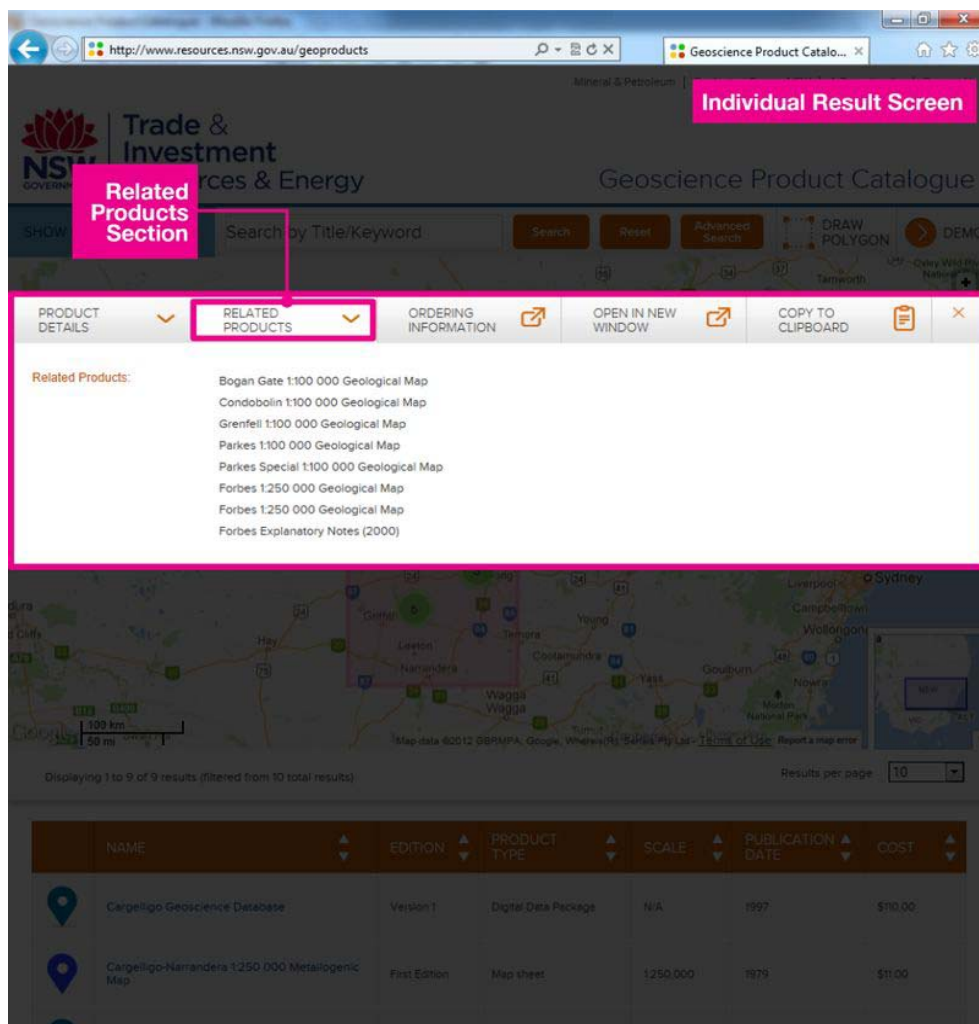On the phone application the list of related products appear directly below the product details.

Image: related products screen display

3.3 Ordering products

ORDERING INFORMATION

Product orders can be placed by the following methods:

In person at the Information and Customer Services Counter at the Division of Resources & Energy, Mineral Resources

516 High Street Maitland, New South Wales

Telephone: +61 2 4931 6666   **Fax:** +61 2 4931 6790

E-mail: mineralpublication.orders@industry.nsw.gov.au

Mail: PO Box 344, Hunter Region Mail Centre, 2310, Australia

Online Orders: A number of products can be ordered and paid online via the NSW Government online bookstore, ShopNSW (www.shop.nsw.gov.au).

A range of publications (including Quarterly Notes and Memoirs) are available for download free of charge from the DIGS database. DIGS is available from the Department's website: www.resources.nsw.gov.au/digs

Note: When ordering products via email the 'copy to clipboard' tab copies contents from the product preview screen that can be pasted into the body of an email.

3.4 Purchasing online

A number of products listed in the Catalogue are available for purchase online from the NSW Government online bookstore, ShopNSW (www.shop.nsw.gov.au).

3.5 Downloading products

The digital data for many of the geological and metallogenic maps is available for download direct from the individual product preview screen.

Formats include:

- ESRI shape files
- MapInfo tab files
- ECW for a geo referenced image of a scanned map
- JPG for a non-geo referenced image of a scanned map

Note: products with multiple files will be zipped for download. This includes Shapefiles and MapInfo tab files, geophysical images and the maps with more than one sheet.

The digital image files for the NSW State wide 1:250 000 geophysical dataset are also available from the individual product preview screen.

3.6 Contact details and further information

For information on:

Geoscience products	geoscience.products@industry.nsw.gov.au
Geophysical products	geophysics.products@industry.nsw.gov.au
DIGS system	digs.info@industry.nsw.gov.au
Downloading products	geoscience.products@industry.nsw.gov.au
Ordering	mineralpublication.orders@industry.nsw.gov.au

4. Demonstration Video

A demonstration video has been prepared to provide users with a practical example of how to use the Geoscience Product Catalogue. A copy of this video is available from **here**

Scan the code below with your phone or tablet to directly access the catalogue on your mobile device.