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## New Geoscientific Data Warehouse

[dwh.minerals.nsw.gov.au/CI/warehouse](http://dwh.minerals.nsw.gov.au/CI/warehouse)

**Geoscientific Data Warehouse (GDW)** is a new online service that provides free access and downloads of Mineral Resource’s validated, non-confidential, geoscientific data. Data is displayed using Google Earth™ with georeferenced geological maps and geophysical imagery draped over topography. Data can overlay exploration titles which display pop-up information boxes with links to reports in DIGS.

The GDW currently contains:

- minerals, coal and petroleum drill hole data
- downhole exploration assay data
- surface exploration assay data
- field observations including structure, petrology and photos
- geochronological data
- metallic and industrial mineral occurrence data
- georeferenced geological maps (linked to [the geological map index](#) for downloads)
- titles information (download from [MinView](#))

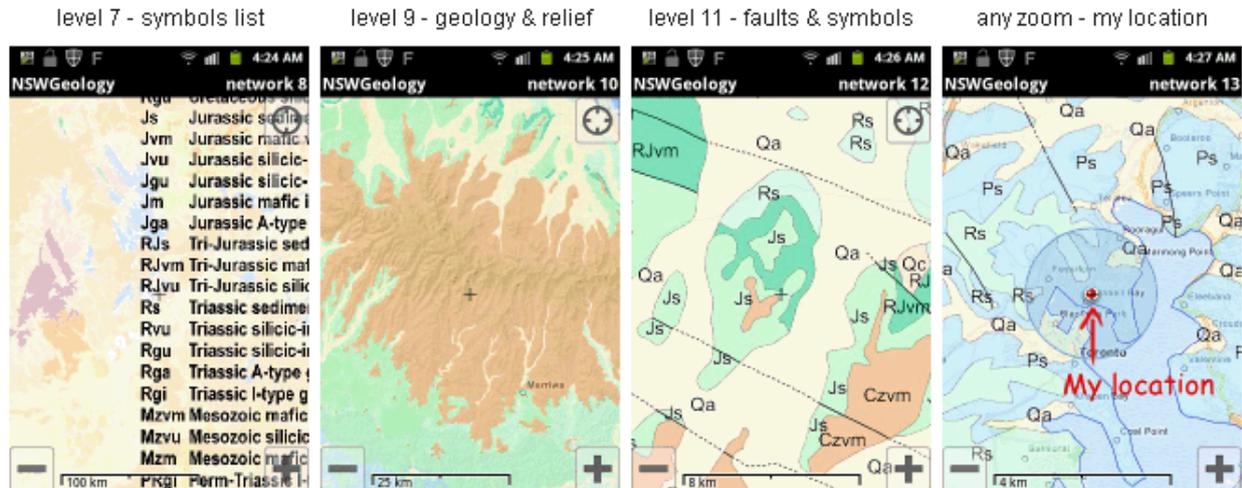
Searching can be conducted by area of interest and/or attribute, and data can be downloaded as text (.csv), ESRI (.shp) or MapInfo (.tab). The GDW undergoes nightly replication of data and is constantly updated.

Feedback on the service is welcomed.

Go to: <http://dwh.minerals.nsw.gov.au/CI/warehouse/entry/feedback>

## Mobile device access to geology and geophysics through GDW

### Geology Map of NSW



Screen shots from a mobile phone

Access [Geoscientific Data Warehouse — Maps for Mobile Devices](#) to download the [Surface Geology of New South Wales 1:1 500 000 map](#) and [Total Magnetic Intensity Map of New South Wales](#) as MBTiles format files suitable for viewing on smart phones and tablets. The maps are downloaded to mobile devices permanently so that no internet connection is required after the initial download. This means that the underlying geology or geophysics can be seen wherever you are in NSW if your mobile device has a GPS receiver.

Go to: <http://dwh.minerals.nsw.gov.au/CI/warehouse/view/mobileapps>

### New Geoscience Product Catalogue online search

NAME	EDITION	PRODUCT TYPE	SCALE	PUBLICATION DATE	COST
NSW Exploration Data Package	Version 2	Digital Data Package	Statewide	2008	\$110.00

[www.resources.nsw.gov.au/geoproducts](http://www.resources.nsw.gov.au/geoproducts)

[Geoscience Product Catalogue \(GPC\)](#) is a new online application that provides both map-based and keyword tools to search for the retail products of the Geological Survey of New South Wales (GSNSW).

The GPC:

- employs filters to refine a search to specific product types
- performs advanced searches using locality or latitude and longitude and a search radius
- displays detailed product and ordering information
- displays related products
- accesses free products and downloads
- is accessible by mobile devices

Items available include maps, books, periodicals, digital data packages and access to free map and associated GIS data downloads.

Feedback is welcomed: contact: [geoscience.products@industry.nsw.gov.au](mailto:geoscience.products@industry.nsw.gov.au)

### **Explanatory notes for Goulburn 1:250 000 geological map out now**

The [Goulburn 1:250 000 geological sheet SI/55-12, 2nd edition — Explanatory Notes](#) comprises a book with a DVD insert. It contains a geological synthesis of the map sheet area and a time–space plot as a separate insert. The project was supported by high resolution airborne geophysical data. It has more than 1900 pages in full colour, 375 figures, 385 photographs and more than 20 tables. The book and DVD cost \$37 including GST.

The explanatory notes will complement a set of eight maps which are presently in preparation.

Contact: [mineralpublication.orders@industry.nsw.gov.au](mailto:mineralpublication.orders@industry.nsw.gov.au)

### **Explanatory notes for Sussex and Byrock 1:100 000 geological map**

The [Sussex and Byrock 1:100 000 geological sheets 8135 and 8136. Explanatory Notes](#) covers the Sussex and Byrock map sheet areas in the northern Lachlan Orogen, between Nyngan, Cobar and Bourke. The new mapping has shown that the Siluro-Devonian Cobar Supergroup is more extensive than previously recognised on both map sheets and supports the potential for Cobar-style polymetallic deposits. The volume costs \$40 including GST.

Chapters describe rock units, structure and metamorphism, mineral systems, geophysics, geochemistry, age dating, palaeontology and a geological synthesis. The volume is the result of a mapping project supported by high resolution airborne geophysical data. The book complements the Sussex and Byrock 1:100 000 map sheets which are in preparation.

Contact: [mineralpublication.orders@industry.nsw.gov.au](mailto:mineralpublication.orders@industry.nsw.gov.au)

### **Manilla 1:100 000 published map and download**

The digital data for the [Manilla 1:100 000 map sheet](#) is available for downloading from the Geoscience Product Catalogue and a hardcopy published map is available through ordering.

Contact: [mineralpublication.orders@industry.nsw.gov.au](mailto:mineralpublication.orders@industry.nsw.gov.au)

### **Free downloads and products**

A reminder that the following products are available for download free of charge from the [GPC](#).

- [geological](#) and [metallogenic](#) maps as scanned images and/or vector data
- [special interest maps](#)
- [heritage maps](#)
- [mineral and petroleum exploration highlights maps](#)
- [publications](#) such as most older Explanatory Notes to accompany geological and metallogenic maps, Bulletins, Memoirs, Mineral Resources Series and Records are available as free pdf downloads from [DIGS](#)

The following free products are available by contacting [geoscience.products@industry.nsw.gov.au](mailto:geoscience.products@industry.nsw.gov.au)

- [NSW Mineral Explorers Directory 2012 DVD](#)
- [NSW Petroleum and Geothermal Potential 2011 DVD](#)

### **Quarterly Note 138 – Permian fossils and palaeoenvironments of the northern Sydney Basin, New South Wales**

[Quarterly Note 138](#) reports on three Permian invertebrate fossil sites (one newly discovered) in the Hunter region. They provide an insight into depositional environments dominated by marine glaciogenic conditions.

New or additional information is presented about a recently excavated site at Allandale; a new locality at Tocal where the stratigraphy is not well known; and a quarry at Mulbring which represents the best exposure of the diverse fossil macrofauna of the *Fenestella* Shale Member.

### **New staff in Mineral Exploration Assessment**

Spencer Hopcroft has joined the MEA team in a permanent fulltime position. Recruitment of a senior MEA geoscientist has also been successful and this new staff member will commence on the 17<sup>th</sup> December. Filling the two positions will assist timely processing of exploration reports.

Contact: Phillip Blevin, [phil.blevin@industry.nsw.gov.au](mailto:phil.blevin@industry.nsw.gov.au) 02 4931 6585

### **Uranium exploration prohibition lifted**

The prohibition on uranium exploration has been removed (see [Mining Legislation Amendment \(Uranium Exploration\) Bill 2012](#)). Applications to apply for the awarding of exploration licences in respect of the new Group 11 minerals (uranium and thorium) closed 13th November. Following granting of the first round of titles, the mineral allocation area for Group 11 across the state will be lifted and normal title applications for Group 11 minerals will apply.

Contact: Phillip Blevin, [phil.blevin@industry.nsw.gov.au](mailto:phil.blevin@industry.nsw.gov.au) 02 4931 6585

### **Uranium mineralisation studies**

The [Mineral Systems group \(MinSys\)](#) of the GSNSW is studying the nature of potential uranium source rocks in NSW. These studies include upgrading whole rock geochemical data; mineralogical examination and dating of potential U source rocks in the Broken Hill region; and examination of uranium-rich rocks across the state as sources of leachable uranium into sedimentary hosted deposits.

Contact: Phillip Blevin, [phil.blevin@industry.nsw.gov.au](mailto:phil.blevin@industry.nsw.gov.au) 02 4931 6585

### **Nymagee metallogenic project to kick start spectral atlas of NSW mineral systems**

MinSys is collecting and processing geochronological and lead and sulfur isotope data from mineral occurrences in the Nymagee 1:250 000 map sheet and adjacent areas to better understand the source of mineralisation in this significant copper, base-metal and gold province. The dating data will be supplemented with information from the [Hylogger™ spectroscopic core scanning](#) of representative drill holes. The objectives of this study are a better understanding of the mineralogy of alterations systems, and the first contribution to a spectral atlas of NSW mineral systems. Peter Downes will talk about the status of the project at the [Cobar Regional Mining & Exploration Conference](#), 4–5 December, 2012.

Contact: Peter Downes, [peter.downes@industry.nsw.gov.au](mailto:peter.downes@industry.nsw.gov.au) 02 4931 6708.

### **Igneous and metallogenic map of the southern New England Orogen in prep**

MinSys is synthesising granite unit names, chemistry and dating for a special 1:500 000 igneous and metallogenic map of the southern New England Orogen. Eighteen new SHRIMP U-Pb dates on granites and ten high resolution ID-TIMS dates on volcanics and related rocks are being processed. A comprehensive report on the metallogenesis of the granites and volcanics is in preparation.

Contact: Phillip Blevin, [phil.blevin@industry.nsw.gov.au](mailto:phil.blevin@industry.nsw.gov.au) 02 4931 6585

### **Staff movements**

Spencer Hopcroft has accepted the full time position of Geologist in MEA  
Cameron Quinn has resigned from his position as Research Scientist

## Products and enquiries

Maps and data packages: [geoscience.products@industry.nsw.gov.au](mailto:geoscience.products@industry.nsw.gov.au)

Geophysical images and data: [geophysics.products@industry.nsw.gov.au](mailto:geophysics.products@industry.nsw.gov.au): Tel: 02 4931 6717

Counter sales: [mineralpublication.orders@industry.nsw.gov.au](mailto:mineralpublication.orders@industry.nsw.gov.au) Free call: 1300 736 122 Tel: 02 4931 6666

Online sales: [www.shop.nsw.gov.au/](http://www.shop.nsw.gov.au/)

General product enquiries: Michael Hallett [michael.hallett@industry.nsw.gov.au](mailto:michael.hallett@industry.nsw.gov.au): Tel: 02 4931 6724

To subscribe to *Quarterly Notes*: Simone Meakin: [simone.meakin@industry.nsw.gov.au](mailto:simone.meakin@industry.nsw.gov.au)

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**View previous issues:** <http://www.resources.nsw.gov.au/publications/on-the-outcrop>

Visit the [Geological Survey of New South Wales](http://www.geosurvey.nsw.gov.au) website where you will find access to online systems DIGS, MinView, EROI, GDW and GPC, upcoming events, GSNSW news, publications and product information.

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