



ontheoutcrop

ISSUE 1, 2007

Welcome to **ontheoutcrop!**

This is the first of our newsletters prepared at the instigation of the Geological Survey Advisory Committee to provide the exploration industry with an awareness of events within the Geological Survey that may be relevant to their exploration work in NSW.

More information about newsletter items is available through the Geological Survey of New South Wales web page, 'Geological Survey News':

<http://www.dpi.nsw.gov.au/minerals/geological>

The details of the developmental work underpinning the projects and products of the Geological Survey of New South Wales (GSNSW) are published in the NSW Department of Primary Industries, Mineral Resources [Minfo](#) Magazine and the Geological Survey of New South Wales [Quarterly Notes](#).

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RECENT EVENTS

Lindsay Gilligan (Director, Geological Survey of New South Wales) and Graham Butt (Assistant Director, Geoscience Information) both presented at the Department's NSW Mineral Exploration & Investment 2007 Conference, held 23–24 August at the Four Seasons Hotel in Sydney.

Lindsay spoke about the New Frontiers initiative and the state of exploration in NSW. Graham covered the various geoscience information initiatives currently being undertaken by the GSNSW, including the new web application EROL and the new version of MinView.

In addition, Lindsay presented at the Excellence in Mining and Exploration Conference held at the Hilton Hotel in Sydney, 9–11 September.

These presentations are available on our website via the Geological Survey News section of the GSNSW home page: (<http://www.dpi.nsw.gov.au/minerals/geological>)

DVDs of all the presentations at the NSW Mineral Exploration & Investment 2007 Conference are being made available to all conference registrants. However, non-registrants can obtain the DVD and conference summary as a package for \$50.

Contact Kelly Allert, Assistant Project Officer: kelly.allert@dpi.nsw.gov.au 02 8289 3929



UPCOMING EVENTS

The Geological Survey of New South Wales will have a presence at two imminent conferences.

- **The Mines & Wines Conference**, Orange, 20–21 September [More](#)
- **Mining 2007**, Brisbane, 31 October to 2 November

NEW PRODUCTS AND SERVICES

EROL — Exploration & Environmental Reports Online Lodgement

EROL will enable exploration title holders to lodge their reports via the internet. It is in beta testing stage and will go live in September. It will be accompanied by workshops for exploration industry personnel.

Industrial minerals opportunities publication

Bulletin 33: Industrial Mineral Opportunities in New South Wales, highlights industrial mineral opportunities in NSW, their styles and geological settings. It is due for release in September.

New MinView

The new MinView is now in beta testing stage. It uses the latest internet technology to allow interactive viewing, searching and downloading of geoscience and exploration title information via the Internet.

It will:

- display and navigate maps
- query areas of interest
- set up bookmarks
- customise users' views
- download and print them
- provide email alerts about title-related changes
- provide email reminders about specific title expiry dates
- allow application for an exploration licence online
- allow payment for an exploration licence application using an e-commerce facility

Coastal Quaternary geological map series

A new series of maps is in production and the first map, which covers the NSW coast from Newcastle to Tweed Heads, will be available in November.

The Cargelligo 1:250 000 geoscience package

The package contains comprehensive digital datasets and will be available on DVD in October. ArcGIS and MapInfo data formats are supported.

Six Cargelligo 1:100 000 geological maps

The series comprises Cargelligo, Ungarie, Tullibigeal, Rankins Springs, Hillston and Merriwagga and will be available in October.

NSW 1.5 M geology map

The NSW 1.5M geology map provides seamless geology across the state and will be available in December.

The Greater Sydney Region Geoscience Audit and Gaps Analysis Report

The audit assessed gaps in all the current geological maps that cover the Greater Sydney Region (GSR). Many of the 1:100 000 sheets assessed were based on geological mapping and studies that were carried out more than 20 years ago.

The focus of the audit and gaps analysis was on updating the current 1:100 000 geological map sheet series over the GSR. Some of these maps are in high demand and cover areas of population growth and potential land use conflict.

The process of information assessment and collation in this current project is the first step to provide a world-class geoscience information framework that will inform workers on the GSR.

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The product will be a comprehensive, three-dimensional 1:100 000 geoscience coverage for the GSR. This vastly improved geoscience dataset will help inform all land use, infrastructure and resource planning decisions in the area of Australia's largest population centre.

Contact David Och, Senior Geologist: david.och@dpi.nsw.gov.au or 02 4777 0318

Statewide grids of geophysical data

A merged set of [statewide grids of geophysical data](#) is now available as a set of four DVDs at \$110 per set. It includes 50 m and 250 m grids of airborne magnetic data, 100 m grids of airborne radioelement data, a 500 m grid of gravity data and a 80 m grid of the Shuttle Radar Topography Mission (SRTM) DEM data totalling 14.5 Gb. Overview images as ECW and TIFF files are included.

The report will shortly be released as a DVD package.

PROJECT HIGHLIGHTS

New Frontiers geophysical surveys

Data and images from major gravity surveys recently acquired in the far northwest (4700 stations) and in far southwest (3600 stations) of NSW are scheduled to be released at the Mines & Wines Conference in Orange on 20–21 September. In the far northwest, two new 1:250 000 scale geophysical–geological interpretation maps covering the Milparinka and Cobham Lake 1:250 000 map sheets have been completed.

Another interpretative map in the far southwest of NSW has been completed over the Hay 1:250 000 map sheet area. A teleseismic survey shortly concluding in the southwest will be expected to define deep crustal structures covering the interpreted extensions of the Stawell and Bendigo zones into NSW.

Contact David Robson, Team Leader: david.robson@dpi.nsw.gov.au or 02 4931 6717

National Virtual Core Library program—Londonderry

[NVCL](#) is a collaborative federal and state government program aimed at using CSIRO Hylogger spectroscopic core scanning technology to generate digital information on rock, ore and alteration minerals in drill core. Scanning produces 2 Mb of information per metre of core in 5 minutes. Mineral explorers will be able to access a virtual view of core and its related spectral data before visiting the core facilities. Initially, core from representative NSW mineral systems will be scanned. Core processing at the Londonderry Centre is scheduled to be underway by July 2008.

Contact Bill Reid, Senior Geoscientist: william.reid@dpi.nsw.gov.au or 02 4931 6731.

Braidwood 1:100 000 series mapping

A four-person team, with assisting specialists, is now dedicated to mapping the geology on the Braidwood 1:100 000 sheet. The aim of the project is to understand the stratigraphy and structure of the area well enough to produce a 3D model, as well as a standard map and explanatory notes. This will be achieved by the drawing of serial cross-sections across the sheet which will then be tested by a geophysicist to fit magnetic and gravity profiles. Geophysically validated cross-sections will then be digitised into Gocad to produce a 3D model.

Contact Jeff Vassallo, Team Leader — Regional Mapping: jeff.vassallo@dpi.nsw.gov.au or 02 6360 5347

Moss Vale 1:100 000 series mapping

A three-person team has recently begun mapping the Moss Vale 1:100 000 sheet. A number of geological cross-sections will be erected during the mapping project with the aim of eventually producing a three-dimensional geological model. The mapping of the Moss Vale sheet will offer an opportunity to determine whether the same rocks continue under the western edge of the Sydney Basin. The Moss Vale region is an area of major population growth and a better geological understanding will assist in assessment of mineral resource potential and land use issues.

Contact Jeff Vassallo, Team Leader — Regional Mapping: jeff.vassallo@dpi.nsw.gov.au or 02 6360 5347

TAKE NOTE!

Statewide Resource Audit

Landuse Assessment is carrying out a three-year program to identify for local councils and state government planners, where significant and potential resources are located. This information will be used in their strategic assessments to determine factors affecting land use at present and in the future. If you wish to contribute information to the audit use the contact below.

Contact Cameron Ricketts, Team Leader — Land Use: cameron.ricketts@dpi.nsw.gov.au or 02 4931 6703.

To see the complete Minfo article go to <http://www.dpi.nsw.gov.au/minerals/geological> and click on the [DIGS – Report Viewer](#). Follow through and start a search. Type 'Minfo' into the Report Title and '84' into the Report Number. Go to page 16 of the article in Part 1.

Minerals Exploration Assessment — change of contact

Please do not use John Chapman's email address. Direct your enquiries to:

Harvey Henley, MEA harvey.henley@dpi.nsw.gov.au 02 4931 6679 or

Colin Wood, MEA colin.wood@dpi.nsw.gov.au 02 4931 6715

STAFF MOVEMENTS

Harvey Henley and **Colin Wood** are acting alternately in the Principal Geologist's position in Minerals Exploration Assessment following John Chapman's retirement. **Harvey Henley** is acting in this position from 17th September.

Bill Reid has taken up a position of senior geologist in the New Frontiers program — Broken Hill Studies. Bill commutes regularly to Broken Hill to try and fill the very large gap left by Barney Stevens' retirement.

Cameron Quinn, previously with Predictive Mineral Discovery Cooperative Research Centre, has been appointed as a geologist to the Tasmanides Project and is working with Dick Glen.

PRODUCTS AND ENQUIRIES

Internet product purchase

A number of NSW Department of Primary Industries, Minerals Resources publications and data packages are now available for purchase over the internet on <http://www.shop.nsw.gov.au/index.jsp>. Go to the 'Minerals' site on this webpage for a list of products. A direct link to this site from the NSW DPI—Minerals and Petroleum page is under construction.

Enquiries about purchasing products

Send enquiries about purchasing products to the following:

Maps and data packages: geoscience.products@dpi.nsw.gov.au Tel: 02 4931 6589

Geophysical images and data to geophysics.products@dpi.nsw.gov.au Tel: 02 4931 6717

Counter sales to mineralpublication.orders@dpi.nsw.gov.au Freecall: 1300 736 122
Tel: 02 4931 6666

General enquiries about products and services

michael.hallett@dpi.nsw.gov.au Tel: 02 4931 6724

SUBSCRIPTIONS

ontheoutcrop! is a newsletter from the Geological Survey of New South Wales.

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<http://www.dpi.nsw.gov.au/minerals/geological>

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