



Geoscience Australia Minerals Alert

October 2002

Welcome to the first edition of Geoscience Australia's new email Minerals newsletter. This newsletter, to be released monthly, is designed to alert mineral explorers to new geoscientific data, information, products and research results.

- [1: Interactive 3D model of the Leonora-Laverton region, Eastern Goldfields Western Australia](#)
- [2: Geoscience of the north eastern Yilgarn Craton: Papers from a workshop held in Perth](#)
- [3: Shedding new light on the Tanami - Arunta region: Au, Ni, Cu, Zn, Pb PGE potential](#)
- [4: A new look at the mafic intrusions of the Arunta: base metal and PGE potential](#)
- [5: Gawler Craton online GIS available](#)
- [6: Latest Gawler Craton information online](#)
- [7: Mineral Deposits of the Archaean North Pilbara, Western Australia](#)
- [8: New Geoscience Australia Products Catalogue](#)
- [9: Geoscience Australia Mineral Seminars](#)
- [10: Mining 2002](#)

1: Interactive 3D model of the Leonora-Laverton region, Eastern Goldfields Western Australia

A new interactive 3D model which users can select data layers and manipulate the view of the model. It covers the Leonora-Laverton region of the gold and nickel rich Yilgarn Craton, Western Australia. Contents of the model include: digital elevation model, surface geophysical images, surface solid geology, solid geology cross sections, fault planes, rock volumes, mineral deposits and geochronology sites. <http://www.ga.gov.au/map/web3d/index.html>

2: Geoscience of the north eastern Yilgarn Craton: Papers from a workshop held in Perth

A comprehensive overview of the latest understanding of the geodynamic framework of the north eastern Yilgarn Craton, particularly the Leonora-Laverton region. A range of papers which make a substantial contribution to the development of conceptual and predictive exploration models is available for downloading via the Internet.

http://www.ga.gov.au/rural/projects/nws_rec2002_18.jsp

3: Shedding new light on the Tanami - Arunta region: Au, Ni, Cu, Zn, Pb PGE potential

Work by Geoscience Australia and the Northern Territory Geological Survey has greatly enhanced the prospectivity of the region. An overview of some of the developments were presented earlier this year at the AGES conference in Alice Springs. Summaries of the Geoscience Australia papers presented are now available.

http://www.ga.gov.au/rural/projects/NAP_results_products.jsp

4: A new look at the mafic intrusions of the Arunta: base metal and PGE potential

Investigations of the Proterozoic mafic-ultramafic intrusions in the Arunta Province, central Australia provides an improved understanding of these rocks and highlights that potential exists for Ni-Cu,Co mineralisation in the Arunta and for Zn-Cu-Pb-PGE in the Eastern Arunta. For a comprehensive review of the results of the study see Geoscience Australia Record 2001/39.

<http://www.ga.gov.au/pdf/RR0032.pdf>

5: Gawler Craton online GIS available

GISs for the Olympic Dam region and the Moonta-Wallaroo Cu-Au district and two downloadable maps of the central Olympic Cu-Au province and northwestern Gawler Craton are available online. The Olympic Subdomain GIS covers the area which host extensive iron oxide-copper-gold mineralisation, including the giant Olympic Dam deposit and the Moonta Subdomain GIS covers an area and where historical Cu production exceeds 330,000 tonnes of Cu from vein and shear-hosted mineralisation in the Moonta-Wallaroo district.

http://www.ga.gov.au/rural/projects/gaw_mapgis.html

6: Latest Gawler Craton information online

Abstracts and speakers notes for six papers on aspects of the geology and mineralisation in the Gawler Craton presented at the recent 16th Australian Geological Convention are available online. A Geoscience Australia Record on Interpretation of AEM (airborne electromagnetic) data for the Challenger gold district is available at the same site.

http://www.ga.gov.au/rural/projects/gaw_pubs.html

7: Mineral Deposits of the Archaean North Pilbara, Western Australia

Your attention is drawn to a thematic issue of Economic Geology devoted to the Mineral Deposits of the Archaean North Pilbara region of Western Australia. This issue contains a number of papers presenting research results from the joint GSWA/Geoscience Australia Pilbara Project. Details are: Bulletin of the Society of Economic Geologists Volume 97 June-July 2002 Number 4. Abstracts are available at: <http://segweb.org/EG/papers/vol97-4.htm>

8: New Geoscience Australia Products Catalogue

The Geoscience Australia Product Catalogue is the gateway to Geoscience Australia's full range of products and it is available online. Our product range includes printed maps, vector and raster digital map data, digital elevation data, satellite image data, aerial photography, geological data, geophysical data, geohazards data, geodetic datasets, and educational materials.

<http://www.ga.gov.au/bridge/catalogue.jsp>

CONFERENCES AND SEMINARS

9: Geoscience Australia Mineral Seminars

The latest results from Geoscience Australia's minerals program will be presented at one day seminars in Perth and Canberra in November. Seminars will have presentations, demonstrations and poster displays of new results from: Norseman-Wiluna region, WA, Gawler Craton, SA, Tanami-Arunta, NT, Broken Hill Exploration Initiative, North Australian basins and the National Geoscience Databases and Maps program For more information see

<http://www.ga.gov.au/pdf/RR0071.pdf>

10: Mining 2002

Geoscience Australia and State and Northern Territory geoscience agencies will be highlighting their current minerals work at the trade display at the Mining 2002 resource convention in Brisbane from 31 October to 1 November 2002. For further details see:

<http://www.mining2001.com.au/>

For additional information contact Mike Huleatt by phone on +61 (0)2 6249 9087 or by email at mike.huleatt@ga.gov.au

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