



Minerals Alert February 2003



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[1. Geophysical Data Release West Tanami Region, WA, 17 February](#)

The Geological Survey of Western Australia (GSWA) and Geoscience Australia (GA) announce the release of airborne geophysical data over the west Tanami region of Western Australia covering the Billiluna and parts of the Gordon Downs and Lucas 1:250 000 Sheet areas. The west Tanami is highly prospective for gold. The region has poorly outcropping Palaeoproterozoic sediments, volcanics and granitoids and straddles the border of Western Australia and the Northern Territory. New data in this release comprise magnetic, gamma-ray and elevation located data and grids from a survey flown for GSWA and GA by UTS Geophysics in 2002. Gridded magnetic data from 3 private company surveys flown by various between 1989 and 1995 are included in a merged grid with the new data. Release date: 17 February 2003. For more information contact Ross Franklin

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2 Online Airborne Surveys Index Database

Geoscience Australia is the custodian of the most comprehensive publicly available Australian airborne magnetic, gamma-ray, elevation model and electromagnetic databases. The airborne geophysics database contains approximately 17 million line kilometres of data from over 890 surveys. The Online Airborne Surveys Index Database contains the specifications of each Commonwealth/State Government airborne geophysical survey. It shows three windows - one that can be queried, one showing results of the query and one showing the survey boundaries on a map of Australia. The new online database gives the user improved functionality when querying the database and is an advance on the Windows program Aeromap. All online queries interrogate the database in real-time compared to Aeromap that returns information from queries on a static stand-alone database file supplied on a CD. Aeromap will however, continue to be supported. The database of airborne geophysical survey metadata is now available at: www.ga.gov.au/oracle/argus. For further information contact: Murray Richardson at: Tel +61 (0)2 6249 9229 or murray.richardson@ga.gov.au

3. Composite magnetic map and grid of Queensland coming 17 February

The Geological Survey of Queensland (GSQ) and Geoscience Australia (GA) announce the release of a composite grid of airborne magnetic data at 250 m grid resolution and an enhanced pixel-image map at 1:2 500 000 scale for the whole of onshore Queensland and some offshore areas (marine ship-track data). The data in this grid includes most publicly available data, the majority acquired by GSQ and GA, but also those acquired by private companies and now in the public domain. Release date: 17 February 2003. For more information contact Peter Milligan at peter.milligan@ga.gov.au

4. 3D Crustal model of the Olympic Cu-Au Province

An interactive version of the 3D crustal model for the 'footprint' area of the Olympic Cu-Au Province is now on-line. It shows potential field data and derivatives; solid geology; depth-to-basement; and some cross sections and structures modelled on these data. Geoscience Australia is currently refining the model through 3D inversion of the magnetics. For more information see http://www.ga.gov.au/map/web3d/gaw_oly2002/gaw_intro.html

5. Geoscience Australia Record 2002/3 Calvert and Isa Superbasins

This record provides measured sections and sequence stratigraphic interpretations for the Surprise Creek Formation, Gunpowder Creek Formation, Torpedo Creek and Warrina Park Quartzites. The data is mainly a compilation of AMIRA P552 data but incorporates pmd*CRC measured section data. These sections were combined to form twenty six composite outcrop and drill core stratigraphic

sections through the Surprise Creek Formation, Warrina Park and Torpedo Creek Quartzites, lower Gunpowder Creek Formation and Moondarra Siltstone of the Calvert and Isa Superbasins. Close to twenty three thousand metres of stratigraphic/sedimentological description and interpretation are provided. Most sections contain grain size, lithology, bed thickness, sedimentary structure and gamma ray data from which facies and sequence stratigraphic surfaces are interpreted. See <http://www.ga.gov.au/news> OR contact Peter Southgate at peter.southgate@ga.gov.au or Megan Lech megan.lech@ga.gov.au

6. Australian Mines and Mineral Deposits map

A new edition of the 1:10 000 000 scale Australian Mines and Mineral Deposits map has been published by Geoscience Australia. The map shows selected Australian mineral deposits and mines. It illustrates the broad geographic distribution of mines and deposits and the range of mineral commodities mined. Copies of the map are available from geoscience Australia by emailing Mike Huleatt at mike.huleatt@ga.gov.au

7. Geoscience Australia at the Northern Territory's AGES seminar

Geoscience Australia's North Australia Project will present results of joint work with the Northern Territory Geological Survey at the AGES conference to be held in Alice Springs on 25-26 March. Results to be presented are the outcome of recent collaborative research, including the relationship of the Tanami and Arunta regions, comparison of the event histories of the Tanami-Arunta region to the Gawler and Mt Isa regions, Pb isotope characteristics of the Tanami and Arunta regions, and mineral province assessments of the Tanami and Arunta. Results of closely collaborative research to be presented by NTGS scientists includes Tanami 3D modelling, and Eastern Arunta base metal styles. For more information see http://www.dme.nt.gov.au/ntgs/conferences/Ages2003/AGES_info03.htm

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