

# Geophysical Data Release Burakin Region, WA



Australian Government

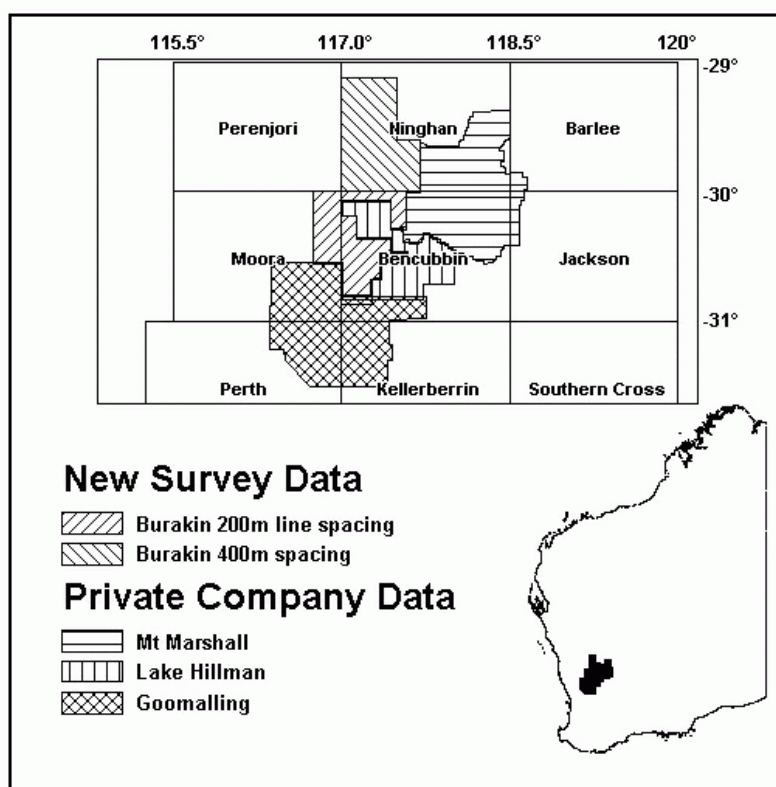
Geoscience Australia

Geoscience Australia (GA) wishes to announce the release of over 147 000 line km of airborne geophysical data over the Burakin area of Western Australia covering parts of the Ninghan, Moora, Bencubbin, Perth and Kellerberrin 1:250 000 Map Sheet areas.

The area surrounding Burakin in Western Australia is the most seismically active in Australia. Information derived from these geophysical data and other complementary datasets will be used to better understand bedrock control in an area of recent earthquake activity and to assist in the geological mapping of the Archaean rocks and environmental soil mapping of a major drainage feature.

Data in this release comprise magnetic, gamma-ray and elevation located data and grids from a survey flown for GA in June 2003 and from three private company surveys flown between December 1996 and February 1997. The company data has been levelled with the Burakin survey data to create a combined dataset giving a continuous coverage.

All data have been gridded using variable density gridding with a 40m fine cell and an 80m coarse cell size. The survey areas are shown in the diagram below.



The Burakin survey produced 46 500 line km of geophysical data. Flight lines were flown east-west and spaced 200/400 metres apart. The Mt Marshall, Lake Hillman and Goomalling surveys produced 42 300, 19 400 and 39 000 line km of geophysical data respectively. Flight lines were flown north-south and spaced 200/400 metres apart. All surveys were flown 60 metres above ground level and the magnetic data were sampled every 0.1 seconds (~7 metres) and the gamma-ray spectrometric data were sampled every 1 second (~70 metres). Navigation and flight path recovery information were provided by the satellite Global Positioning System (GPS). These GPS data were sampled every second (~70 metres).

## Digital Data – Magnetic, gamma-ray and elevation point located data and grids

Digital data (point located and gridded) are available for free download using the Geophysical ArchiveData Delivery System (GADDS) available at: [www.ga.gov.au/gadds](http://www.ga.gov.au/gadds),

or on two CD-ROMs from:

The Sales Centre, Geoscience Australia  
GPO Box 378 CANBERRA ACT 2601 AUSTRALIA  
Telephone: (02) 6249 9519 Facsimile: (02) 6249 9982  
E-mail: [sales@ga.gov.au](mailto:sales@ga.gov.au)  
Cost: A\$99 per CD (incl. GST; postage and packing extra).

**Release date: 23 February 2004**

[www.ga.gov.au/rural](http://www.ga.gov.au/rural)