

Update on Geophysical Survey Progress from the Geological Surveys of Western Australia, South Australia, Northern Territory, Queensland, New South Wales, Victoria and WA Department of Water (information current on 12 September 2014).

Tables 1–3 show the continuing acquisition by the States and the Northern Territory of new airborne magnetic, radiometric, gravity and AEM data over

the Australian continent. All surveys are being managed by Geoscience Australia (GA). There are no new surveys listed in this issue. Further information is available

from Murray Richardson at GA via email at murray.richardson@ga.gov.au or telephone on (02) 6249 9229.

Table 1. Airborne magnetic and radiometric surveys

Survey name	Client	Project management	Contractor	Start flying	Line km	Spacing AGL Dir	Area (km ²)	End flying	Final data to GA	Locality diagram (Preview)	GADDS release
Coompana	GSSA	GA	TBA	TBA	TBA	Survey design is underway	The proposed survey may cover all or part of Noorina, Wyola, Cook, Coompana, Nullarbor, Ooldea, Maurice, Wells and Birkgate standard 1 : 250 000 standard map sheets				
Dunmarra	NTGS	GA	GPX Surveys	28 Jun 2014	103 985	400 m 80 m N–S	36 280	77.4% complete at 11 Sep 2014	TBA	PV 170 – Jun 2014 p24	TBA

Table 2. Gravity Surveys

Survey name	Client	Project management	Contractor	Start survey	No. of stations	Station spacing (km)	Area (km ²)	End survey	Final data to GA	Locality diagram (Preview)	GADDS release
Sir Samuel – Throssel	GSWA	GA	IMT	19 Jun 2014	11 702	2.5 km regular grid	73 800	100% complete at 7 Sep 2014	TBA	PV 171 – Aug 2014 p39	TBA
West Amadeus	NTGS	GA	Atlas	29 Jun 2014	8127	4 km regular with areas of 0.5, 1 and 2 km infill	45 050	100% complete at 11 Aug 2014	TBA	PV 171 – Aug 2014 p39	TBA
Southern Thomson	GA/ GSNSW/ GSQ	GA	Atlas	17 Jul 2014	3660	8 traverses at 333 m station spacing	TBA	100% complete at 17 Sep 2014	TBA	PV 170 – Jun 2014 p24	TBA
Gippsland	GSV	GA	Atlas	30 Jun 2014	1440	12 traverses at 500 m station spacing	8358	100% complete to 21 Jul 2014	TBA	PV 170 – Jun 2014 p25	TBA
North McArthur Basin	NT	GA	Atlas	In the week of 15 Sep 2014	7315	4 km regular grid with areas of 2 km infill; 1 area of traverses spaced 4 km apart with a station spacing of 1 km.	TBA	TBA	TBA	PV 171 – Aug 2014 p39	The proposed survey may cover all or part of Arnhem Bay, Gove, Mt Evelyn, Mt Marumba, Blue Mud Bay, Katherine, Urupunga and Roper River standard 1 : 250 000 standard map sheets

Table 3. AEM surveys

Survey name	Client	Project management	Contractor	Start flying	Line km	Spacing AGL Dir	Area (km²)	End flying	Final data to GA	Locality diagram (Preview)	GADDS release
Swan/ Scott Coastal Plain and Albany/ Esperance	WA Dept of Water	GA	CGG Aviation (Australia)	25 Mar 2013	8607	300/600 m	TBA	100% complete to 15 May 2014	Final data to GA 20 Jan 2014	PV 163 – Apr 2013 p17	TBA
Southern Thomson Orogen	GA/ GSNSW/ GSQ	GA	Geotech Airborne Ltd	8 Apr 2014	4 198 (3327 in survey and 871 in traverses)	5 km E-W	16 270	100% complete at 5 May 2014	Additional work (traverses) over the Paroo and Darling Rivers to examine the potential for new groundwater resources was completed on 5 Jun 2014	PV 168 – Feb 2014 p24	The preliminary final point-located data were initially supplied on 12 Sep for assessment by GA

TBA, to be advised.

Revised magnetic intensity grid for Tasmania

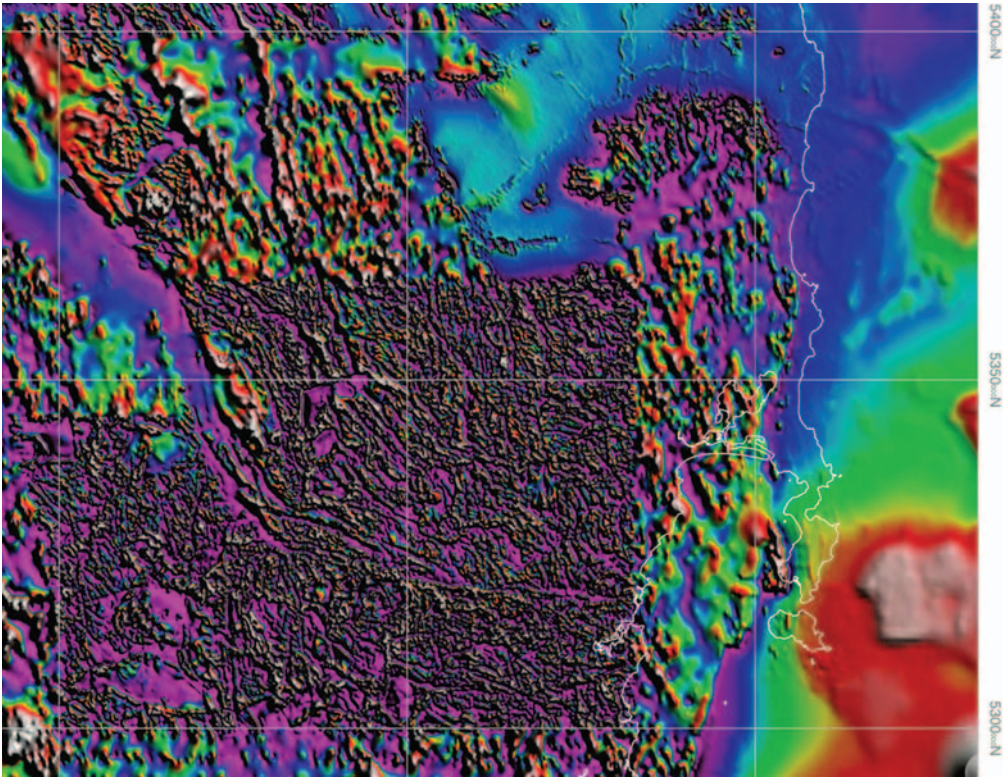
Mineral Resources Tasmania (MRT) has revised the statewide total magnetic intensity grid by incorporating data from a major commercial aeromagnetic survey (KUTH Energy 2009 East Coast survey), as well as several other surveys that have just come out of confidentiality. Images of the new magnetic stitch are available as a 1 : 500 000 scale map in a variety of

formats or through MRT’s Web Mapping Service, both via the MRT website (<http://www.mrt.tas.gov.au/portal/home>).

Visitors to MRT’s web pages will note a considerably different look and feel, reflecting MRT’s migration to the Department of State Growth constituted by the new State Government. However,

all the online geophysical data access functions of the old website; including the airborne survey index, gravity database and exploration report downloads, have been retained or enhanced.

For more information or advice please contact Mark Duffett on (03) 6165 4720 or via email mduffett@mrt.tas.gov.au



Excerpt from the new total magnetic intensity map of Tasmania, including the area covered by the 2009 KUTH survey, now publicly available. The magnetic stitch has a grid cell size of 100 metres.

South Australia's Online Petrophysical Database

SARIG (South Australian Resources Information Geoserver) is an award winning online map application providing statewide information for the mineral, petroleum and geothermal industries. Users are able to search, view and

download information free of cost from over 400 map layers, including the Petrophysical Drillholes layer.

The website was developed by the Government of South Australia,

operated by the Department for State Development, and can be found online at www.statedevelopment.sa.gov.au/sarig. The website enables geographic map view without plug-ins and while it is compatible with all web browsers it is best viewed with the Google Chrome and Firefox web browsers.

Petrophysical data is available through the Drillholes > Petrophysical Drillholes layer (Figure 1). The site currently offers magnetic susceptibility and specific gravity. Future implementation will store more data types, including downhole geophysics and vectors such as magnetic remanence measurements with inclination and declination directions.

Data can be viewed and downloaded in selected groups or per drillhole. See the instructions below to select multiple drillholes (Figures 2 and 3). Alternatively, you may view an individual drillhole's measurements with the Petrophysics tab (Figure 4). If the tab is greyed out it means no data is available.

For more information and advice contact Tim Keeping (tim.keeping@sa.gov.au).



Figure 1. SARIG screenshot displaying the steps to select drill holes with petrophysical data.

Figure 2. SARIG screenshot of the drillhole search window.

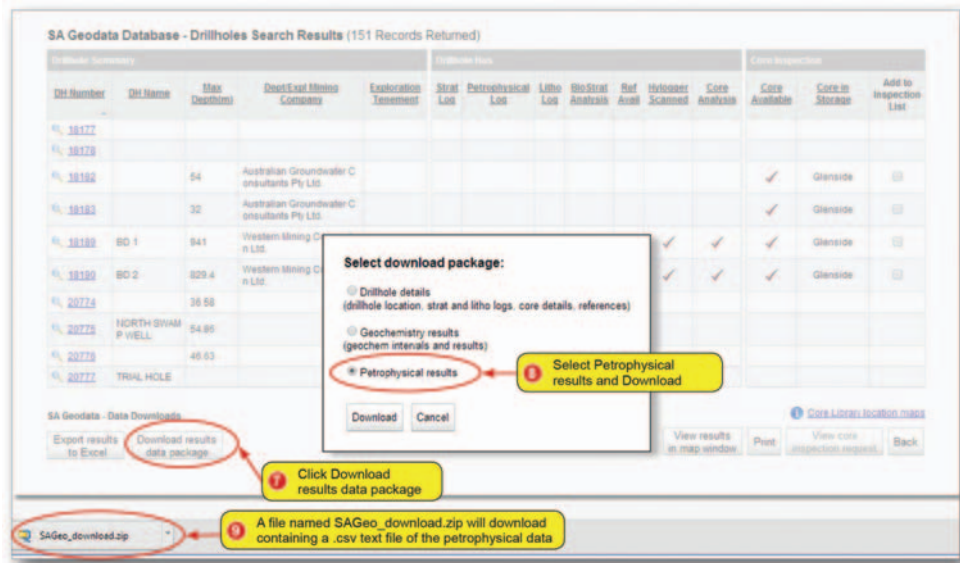
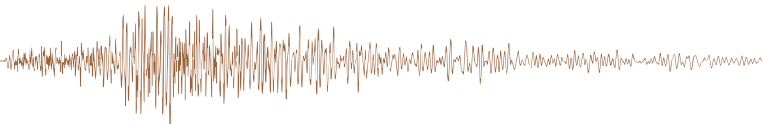


Figure 3. SARIG screenshot of drillhole search results window with instructions for downloading available petrophysical data for multiple selected drillholes.

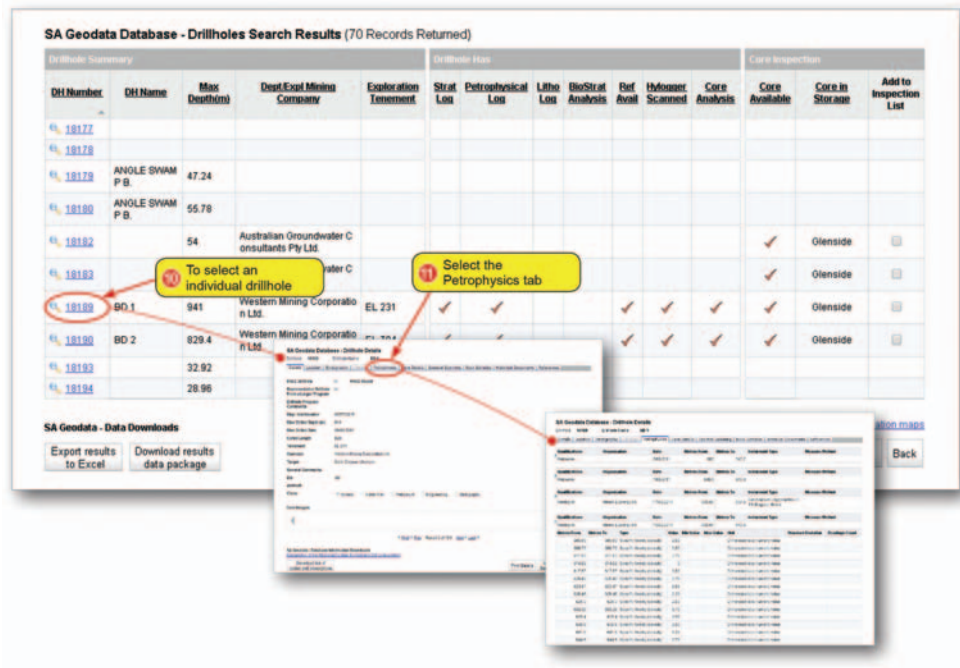


Figure 4. SARIG screenshot of drillhole search results window with instructions for viewing and downloading available petrophysical data for individual drillholes.

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