G-FLOWS: Hidden water, innovative exploration

What is G-FLOWS?
Improved understanding of groundwater resources in remote, arid, data poor areas of South Australia. Targeting alluvial sediments in palaeovalleys that are potentially productive water resources.

Where are we focused?
Musgrave Geological Province, Anangu Pitjantjatjara Yankunytjatjara (APY) Lands, north-western South Australia.

How?
Develop, integrate and use adaptive assessment methods to support community, industry and the environment.

Why?
Enhancing our ability to explore, assess and develop groundwater resources by integrating and developing datasets and techniques to provide more certainty to groundwater explorers.

A Goyder Institute water initiative – DEW, CSIRO, Flinders University SA & Geological Survey SA collaboration

Targeted drilling of geophysical features to confirm hydrogeology
Regional airborne geophysical data acquisition and interpretation
Groundwater assessment and analysis to characterize groundwater resources
Development of new hydrogeological framework, Regional cross section, Amata to Mimili

Mark Keppel, Adrian Costar
South Australian Government Department for Environment and Water Science and Information Group
mark.keppel@sa.gov.au; adrian.costar@sa.gov.au
Carmen Krapf
South Australian Government Geological Survey of South Australia
carmen.krapf@sa.gov.au
Tim Munday, Camilla Soerensen
CSIRO Mineral Resources Australian Resources Research Centre
tim.munday@csiro.au; camilla.soerensen@csiro.au
Andrew Love
Flinders University of South Australia College of Science and Engineering
andy.love@flinders.edu.au