

# ANDS/NeCTAR/RDS

**Keith Russell**

Partnerships Programs Manager

21 February 2018

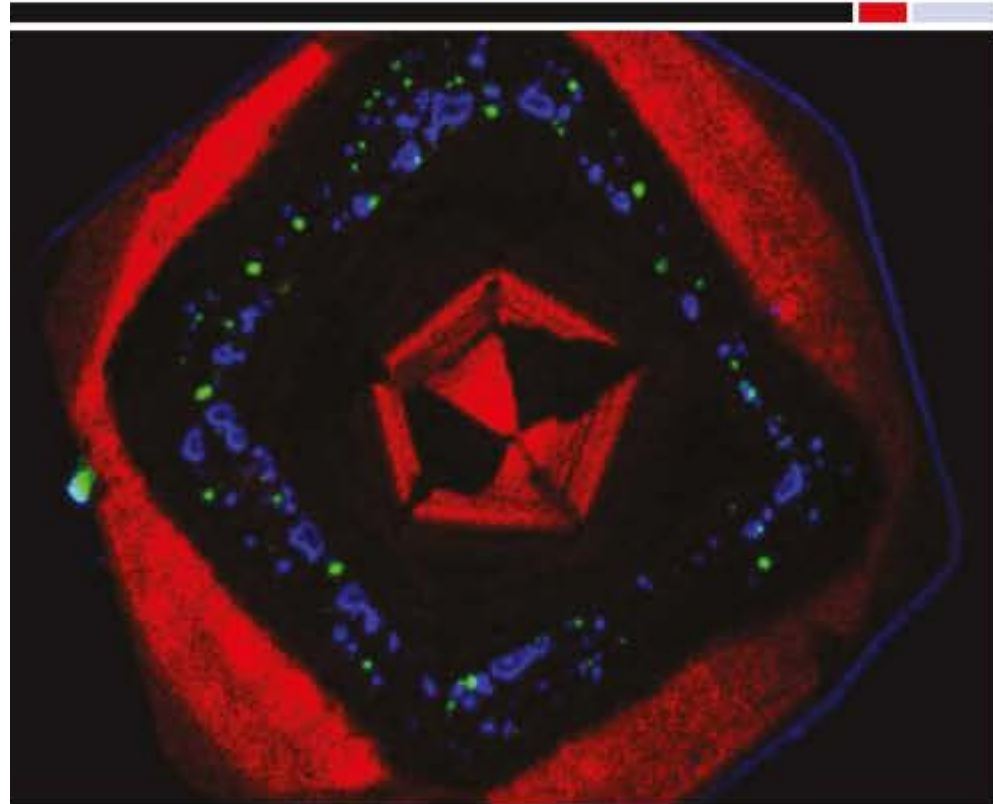


# NCRIS

Digital Data and  
eResearch Platforms  
Disciplinary facilities  
in Earth and  
Environmental  
Systems like  
Auscope, TERN, ALA,  
IMOS



2016 NATIONAL RESEARCH  
**INFRASTRUCTURE**  
ROADMAP





# Delivering services through partners



# Collaboration platforms



**Characterisation Virtual Lab**  
Virtual Laboratory



**Field Acquired Information Management Systems**  
Research Tool



**Genomics Virtual Lab**  
Virtual Laboratory



**Virtual Hazards, Impact and Risk**  
Virtual Laboratory



**Climate and Weather Science**  
Virtual Laboratory



**UniCarbKB**  
Research Tool  
UniCarbKB provides an open-access platform



**Alveo**  
Virtual Laboratory  
Alveo is a virtual laboratory that provides



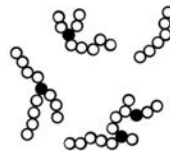
**Biodiversity and Climate Change VL**  
Virtual Laboratory



**Industrial Ecology**  
Virtual Laboratory  
The IE Lab provides a platform for



**Marine Virtual Lab**  
Virtual Laboratory  
MARVL enables researchers interested in



**Microbial Genomics Virtual Lab**  
Virtual Laboratory



**Humanities Networked Infrastructure**  
Virtual Laboratory



**Endocrine Genomics Virtual Lab**  
Virtual Laboratory



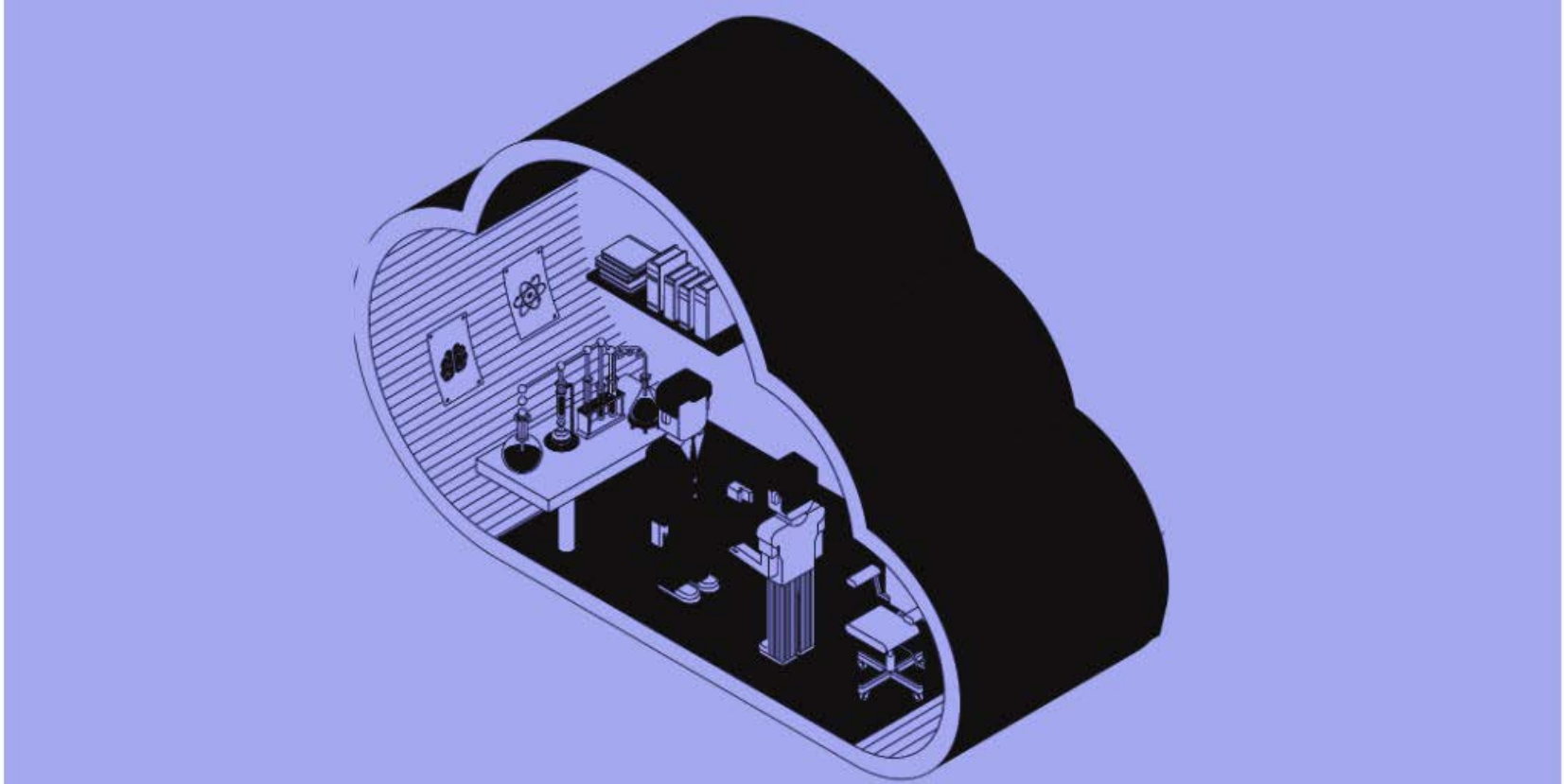
**Virtual Geophysics Lab**  
Virtual Laboratory  
The Virtual Geophysics Laboratory (VGL) is a



**All-Sky Virtual Observatory**  
Virtual Laboratory  
ASVO is enabling researchers to access a

<https://nectar.org.au/labs-and-tools/>

# Research Cloud



<http://cloud.nectar.org.au/>

# Data services

# Research Data Australia

Research Data Australia  
Find data for research

Explore ▾ About MyRDA Login

18942 results (17 milliseconds)

Records selected: 0

Save Records



Export



Refine your results in Search mode

Sort by: Title A-Z ▾

Show: 15 ▾

## ANZSRC-FOR Subjects

Agricultural And Veterinary Sciences (951)

Biological Sciences (23922)

Built Environment And Design (151)

Chemical Sciences (423)

Commerce, Management, Tourism And Services (76)

**Earth Sciences (18942)**

Atmospheric Sciences (508)

Geochemistry (48)

Geology (1659)

Geophysics (4901)

Oceanography (356)

**Physical Geography And Environmental Geoscience (420)**

Other Earth Sciences (119)

Economics (85)

Education (121)

Engineering (2010)

☐ Select All

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### ☐ AAGD07: A new absolute gravity datum for Australian gravity and new standards for the Australian National Gravity Database

Geoscience Australia

The current Australian gravity datum, Isogal84, is defined by the Australian Fundamental Gravity Network (AFGN). The AFGN consists of more than 950 stations at over 250 locations throughout Australia with the first stations in the network being established in the early 1950's. Prior to Isogal84, the datum was based on relative ties to overseas sites. The Isogal84 datum is based on 5 absolute gravity sites within Australia that were established in 1979 using a Soviet absolute gravimeter. Abs...

### ☐ A A O Combarngo No 1, Queensland Of Associated Australian Oilfields NL

Geoscience Australia

A.A.O. Combarngo No. 1 Well was drilled by Associated Australian Oilfields N.L. on a broad seismic "high" at Combarngo, approximately 30 miles south-east of Roma, Queensland. Drilling was commenced on 5th May, 1961, and was completed on 10th June, 1961, at a total depth of 5985 feet. The drilling contractor was Mines Administration Pty Limited, and the rig used was a National Ideal 55. A full programme of logging, testing, and coring was undertaken. The well penetrated Mesozoic sediments to ...

### ☐ AAO Pickanjinnee No 1, Queensland Of Associated Australian Oilfields NL

Geoscience Australia

A.A.O. Pickanjinnee No. 1 was drilled by Associated Australian Oilfields N.L. on a seismic "high" near Pickanjinnee, a ...  
east of Roma. Drilling was commenced on 27th May, 1960, and was completed on 12th July, 1960, at a total depth of 5112 feet. The drilling

Help

Feedback

[www.researchdata.ands.org.au](http://www.researchdata.ands.org.au)



# Research Vocabularies Australia

Research Vocabularies Australia

About

Widget Explorer

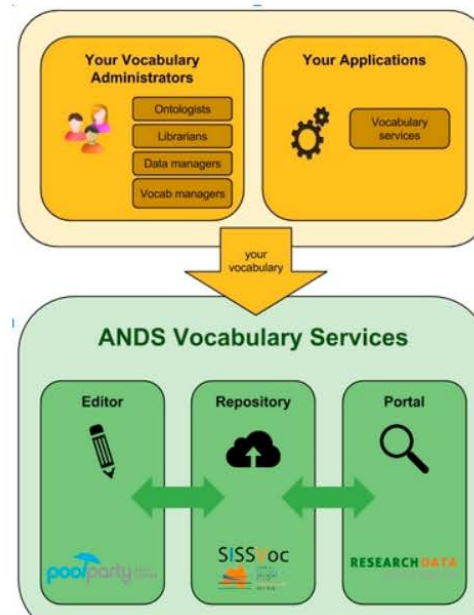
Get Involved ▼

My Vocabs Login

Search for a vocabulary or a concept

Search

## Publish a vocabulary



Help

Feedback

<https://vocabs.ands.org.au/>

# (Persistent) Identifiers



Specimens- [IGSN](#) minting service

Data sets and Software – [DOI minting service](#)



Persons – [ORCID](#)s



[Grant IDs](#) - PURLs

Project IDs – [RAIDs](#)



Data Services catalog

# Community projects



[Home](#) [Collaborative Projects](#) [Node Operators](#) [Status](#) [News](#) [About](#)

## Earth Systems

No. of collections

40

Volume of collections TB

9463



### Earth Systems Data Service:

Earth Systems science provides integrated tools and services for high performance analysis and deep learning for critical reference data used by researchers across universities, state and federal government agencies, and internationally.

### What it is

- The National Environmental Research Data Interoperability Platform ([NERDIP](#)) provides services for access to [Earth systems data](#), analysis and visualisation tools.
- Collections data management
- Data Discovery catalogue - [GeoNetwork](#)
- Access to international core repositories - [Earth Systems Grid Federation](#)

### Who it's for

- Users of Earth systems data from a wide range of scientific domains. These include science agencies and the university sector, in particular the Bureau of Meteorology, CSIRO, Geoscience Australia and the Australian

## Making the links

# The Research Data Switchboard



<http://www.rd-switchboard.org/>

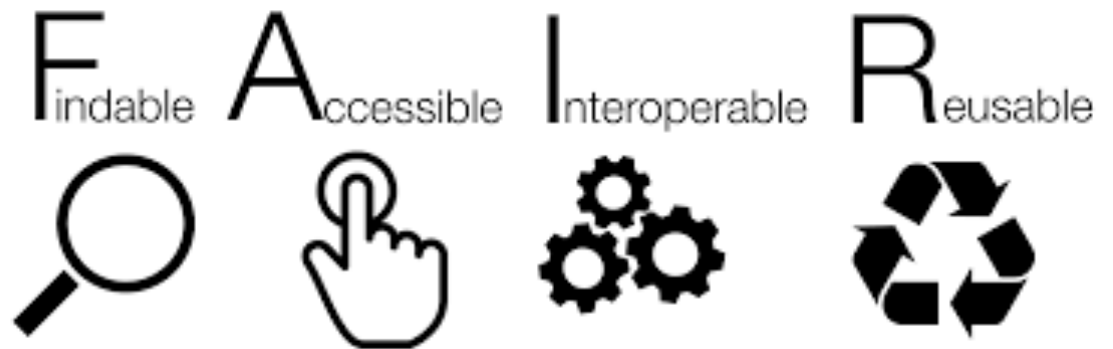
# Policy work

Engaging nationally and internationally on policies

FAIR data principles

Thinking on trusted data and provenance

Trusted Data Repository (seal of approval)



# Growing skills

Tech talks and webinars

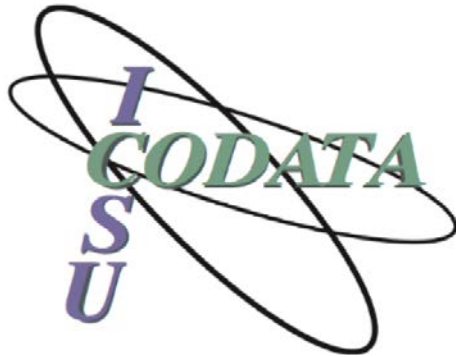
23 Research Data Things and follow ons

Train the Data Trainer workshops

Workshops on the FAIR data principles



# Internationally aligned



# Keith Russell

## Partnerships Programs Manager

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[www.ands-nectar-rds.org.au/](http://www.ands-nectar-rds.org.au/)



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National Research  
Infrastructure for Australia  
An Australian Government Initiative