

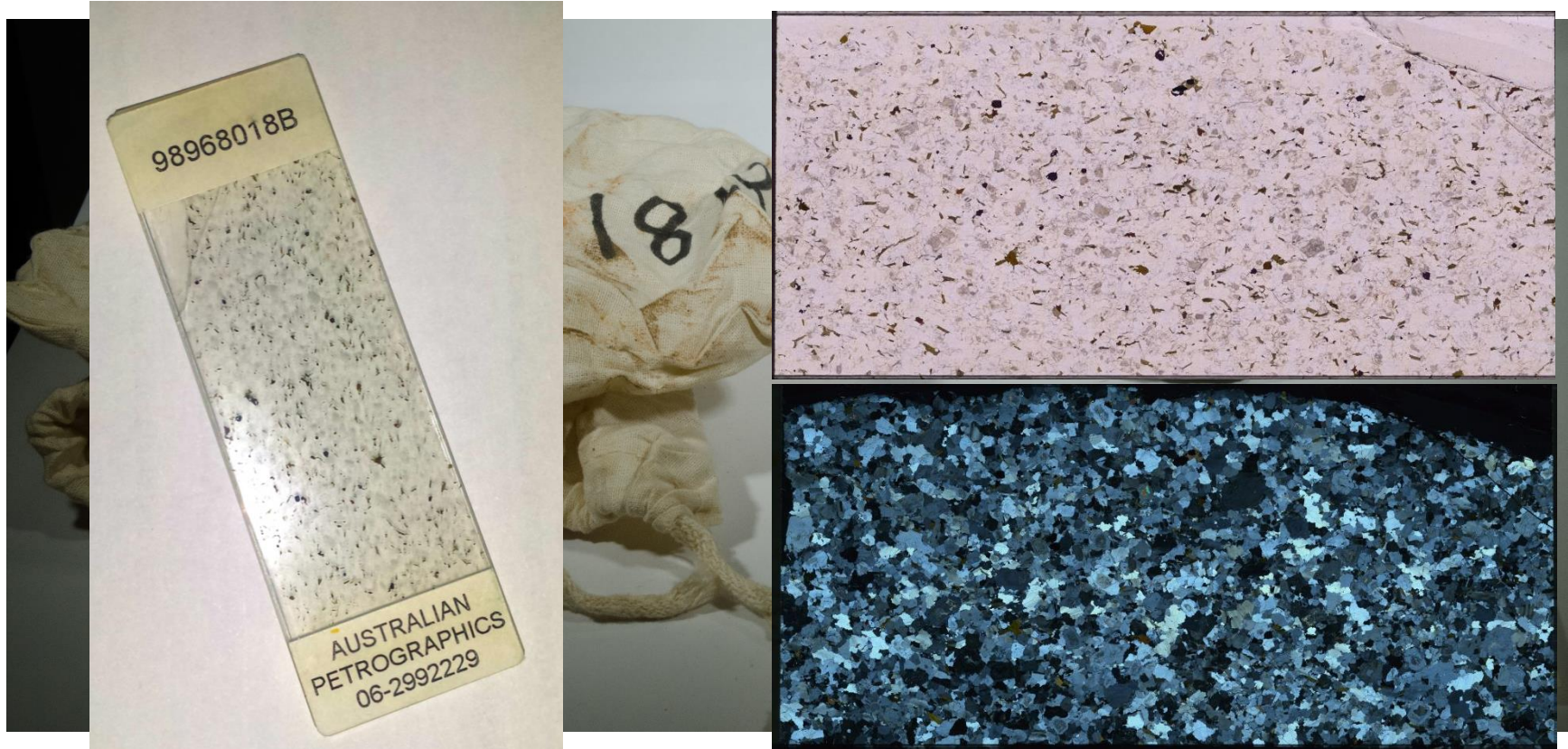


# Breathing new life into old collections

## Citizen Science as a central component to revitalizing Geoscience Australia's Microscope Slide Based collections

John Pring  
Senior Project Manager

# So What is a Thin Section?



# Geoscience Australia's Slide Based Collection

- The collections (≈250k)
- Management “system”
- Approach
  - Digitising records
  - Discovery
  - Library audit
  - Data cleansing





# Where are we starting from?

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387. 5

Description		Sender	Date
Bureau of Mineral Resources, Geology and Geophysics		Fraction	

**Bureau of Mineral Resources, Sample Submission Form**

Reg'd No. 13323612

Type 3339 Zone 15A East or Lat. North or Long. Field book ref. Air photo ref. Hr Day Mth

Sc. Map name MT 15A Map no. 15A Depth 15A F/M Collector 15A

F/P Strat. Unit 15A

Geol. prov. 15A Geol. age 15A Sampling method 15A

Rock name/Sample type 15A

Location 15A

Type 6 continuation

Date submitted 31/10/72

T.S./Petrog. ☒

Minerap./Mineral ☐

Sedimentology ☐

Chem analysis ☐

Age det. ☐

Palaeontology ☐

Work required (continue on reverse if necessary)

Originator Derwent

Supervisor R98

Daybook 4277

Entry 4277

G65-314A

NAME: GRANITE

Texture: modified granitic Agd. 2mm

Quartz (35%) : large & small highly strained anhedral grains, abundant fine inclusions.

Plagioclase (25%) : highly saussuritized & strained, compaction An 15

Kfeldspar (20%) : granoblastic microcline, forming in aggregates

Biotite (10%) : deep brown & subparallel, derived from hornblende.

Hornblende (8%) : associated with biotite; pleochroic from pale green to deep blue green, very low ZV; possibly ferro-hornblende.

Spinel (2%) : forms granular aggregates with mafic minerals

Accessories : apatite, epidote abundant; some rare fluorite.

# Answer

- Citizen Science (Digivol)

- Australian Museum

- CSIRO (National Herbarium & Insect collections)

- Botanic Garden Meisei

- Geoscience Australia

- NSW Local Land Services (Greater Sydney)

- Museum of Comparative Zoology (Harvard University)

- James Cook University

- Milwaukee Public Museum

- Museums of Victoria

**DIGIVOL**

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## Decipher our collections, discover hidden archives and contribute to knowledge

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- New Zealand Arthropod collection
- NSW Office of Environment and Heritage
- Royal Botanic Gardens Kew
- Smithsonian Institution
- South African National Biodiversity Institute
- South Australian Museum
- State Library of Queensland
- The University of Melbourne
- University of Hawaii
- Vermont Center for Ecostudies

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**Collection labels**  
Capture data from specimen and object labels to make it accessible for scientific and cultural research.  
[See all labels](#)

**Historical documents**  
Transcribe text and capture data from historical documents to make them digitally accessible.  
[See all field journals](#)

**Images**  
Identify and tag images of animals and collection objects to support information discovery and research.  
[See all camera traps](#)

<https://volunteer.ala.org.au/>

# The Digivol Process

**DIGIVOL**

Geoscience Australia - Specimen Card Catalogue 3 72203610.jpg

A DIGIVOL Expedition

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View Tutorial

Bureau of Mineral Resources. Sample Submission Form

Reg'd No. 72203610

Typed Name or Lat. North or Long. Field book ref. Air photo ref. Hr. Day Mm.

Sc. Map name Map no. Depth F/M Collector

F/P Strat. Unit

Geol. prov. Geol. age Sampling method

Rock name/Sample type

Location

Type & continuation

Date submitted 31/1/72

T.S. / F.P. ☐ Work required (continue on reverse if necessary)

Minerog. / Mineral ☐

Sedimentology ☐

Chem. anal. ysis ☐

Age det. ☐

Petrology ☐

Originator

Supervisor

Devbook Entry

QSS-314A

NAME: GRANITE

Texture: medium-grained, light grey

Quartz (35%) : large & small highly strained anhedral grains, abundant fine inclusions.

Plagioclase (25%) is highly, somewhat strained, compacted. An 15

K-feldspar (20%) is granitic microcline, forming aggregates

Biotite (10%) is deep brown & subparallel, derived from hornblende.

Hornblende (8%) associated with biotite; pleochroic from pale green to deep blue green, very low Z.V. possibly a perthite in part.

Sphene (2%) forms granular aggregates with mafic minerals

Accessories : apatite, epidote abundant; some rare fluorite.

Institution: Geoscience Australia - Slide based collections

Project: Geoscience Australia - Specimen Card Catalogue 3

Catalog Number: Taxa:

Getting Started

## 1. Details

Copy values from a previous task

Reg'd No. 72203610

Easting/Latitude from label 3339

Northing/Longitude from label 76798

Field Book ref. GMD 170

Map Scale (1:X)

Map Name MOUNT ISA

F/P

Geol. Prov

Sampling Method In Situ

Location 1.5km S McKellars Well

Depth From To

Country Australia

Reg'd No. (Fm)

State/Territory Queensland

Coordinate Zone 54

Air photo Ref. K 17 28 8

F/M Collector Derrick

Map No. 6756

Formation (Strat. Unit) Sybella Granite

Geol. age Proterozoic

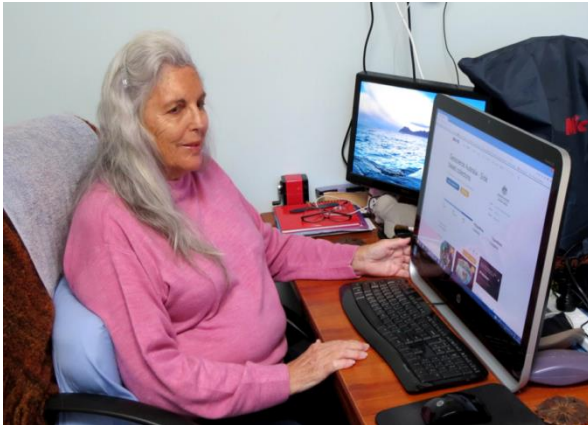
Rock Name/Sample Type Gneissose Granite

Date submitted (from) 31 10 1972 (to) DD MM Year



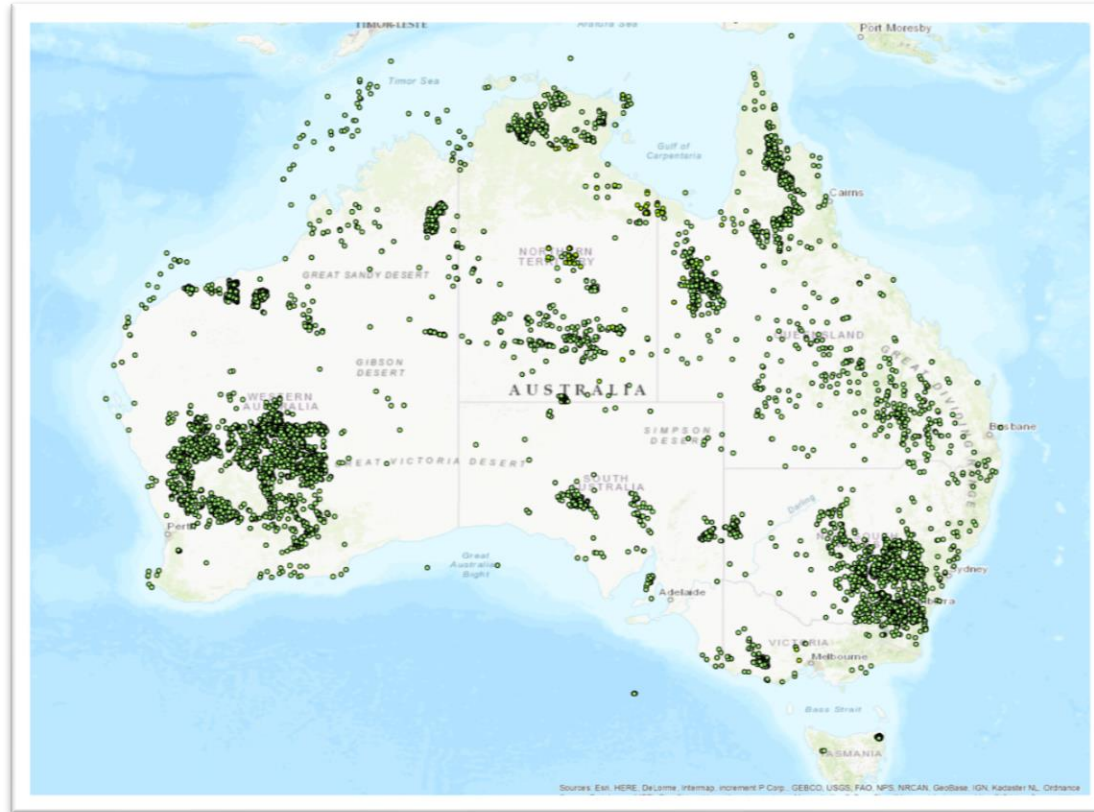
# The Volunteers

- Make up
  - Generally retired
  - Science background
- What drives them
  - Statistics
  - Social interaction
  - Mental stimulus



- Working with the Volunteers
  - Sensitive to individuals
  - Responsive to questions
  - Keep them interested

# Current Distribution





# Things you find..



5						387. 5
Reg. No.	Locality	Age	Description	Sender	Date	
2633 R 225 X	Yoorina Mine, Tasmania	? Devonian	Granodiorite	W. P. Washbrough	25-4-'28	
2632 R 226 X	Hercules Hercules Mine, Rosebery, Tasmania	Lower Palaeozoic	Schist	"	16-4-'28	
2633 R 227 X	Stowery Gully, Tasmania	Carboniferous	Caliche & Limestone	"	22-4-'28	
2632 R 228 X	Little Cyster Cove, D'Entrecasteaux Ab. Is.	Tertiary	Including Diabase "Alkaline Porphyry"	"	8-4-'28	
2 R 229 X	South of Buckland, Tasmania	Mesozoic	Coarse Grained Dolomite	"	27-4-'28	
2632 R 230 X	North, close to turn off from Main Rd. Tas	Lower Palaeozoic	Mica Schist (Altered Porphyry)	"	21-4-'28	
2632 R 231 X	Fossil bluff, Wynyard, Tasmania	Mesozoic	Shelly Marl	"	"	
2633 R 232 X	Ruellon, Tasmania	Ordovician	Limestone -	"	— '4-'28	
4178 R 233	Yoorina Mine, Tasmania	Basal Tertiary	Basalt	"	25-4-'28	
2633 R 234 X	South of St. Helens	? Devonian	Granodiorite	"	"	
2632 R 235 X	Mt. Lyell Tunnel	Lower Palaeozoic	Sericitic Schist	"	14-4-'28	
2632 R 236 X	Patrick River at 46.1	Carboniferous	Quartzite	"	23-4-'28	
2632 R 237 X	North of Swansea, Tasmania	Mesozoic	Dolomite	"	26-4-'28	
4178 R 238	Ringarooma	Tertiary	Vesicular Basalt	"	23-4-'28	
2632 R 239 X	Hercules Mine, Rosebery, Tasmania	Lower Palaeozoic	Schist	"	16-4-'28	
2633 R 240 X	"	"	Fine Grained Gne, Lead Silver Ore	"	"	
2632 R 241 X	"	? Devonian	Porphyry	"	"	
4178 R 242	Brissie, Tasmania	Tertiary	Basalt	"	24-4-'28	
2633 R 243 X	Ringarooma	Tertiary	Basalt	"	28-4-'28	
2637 R 244	"	"	"	"	"	

# Where to?

- Web Services
- Images

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**British Geological Survey**  
NATURAL ENVIRONMENT RESEARCH COUNCIL

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## Our data

### BGS mineralogy and petrology collection record

**OpenGeoscience**

- View maps
- Apps
- Map data downloads
- Photos and images**
- Index
- Borehole core sample photographs
- GeoScenic
- Petrological thin section images**
- Publications
- Scanned records
- Data collections
- Software
- Web services

Sample number	S79530; COLLNOWX1042;
Sample Donor	Stephenson,D.
Rock name	Gneiss; Schist; 'Original entry: Mica Schist'
Stratigraphy	Not entered
Comments	Mica schist/gneiss with pink feldspar porphyroblasts, L.Dalradian
Locality details	Burn of Aultmore, 350m SE of Allacardoch
50k map sheet	Huntly (86W) <a href="#">View images in GeoScenic related to 'Huntly'</a> <a href="#">View a geological map near 'Huntly'</a>
Map reference	NJ 4590 5334
Year collected	1987
Bore name	Not applicable
Confidentiality	No restrictions

### Petrological thin sections

Links to high resolution images

Transition from XPL to PPL light

XPL PPL

**S79530**

Cross Polarized, S79530

Plane Polarized, S79530

(<http://www.bgs.ac.uk/data/bntrocks>)

# Acknowledgements

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Daniel Jaksa

Digivol Volunteers





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