



# AuScope

AN ORGANISATION FOR A NATIONAL  
EARTH SCIENCE INFRASTRUCTURE PROGRAM



NSW DEPARTMENT OF  
PRIMARY INDUSTRIES

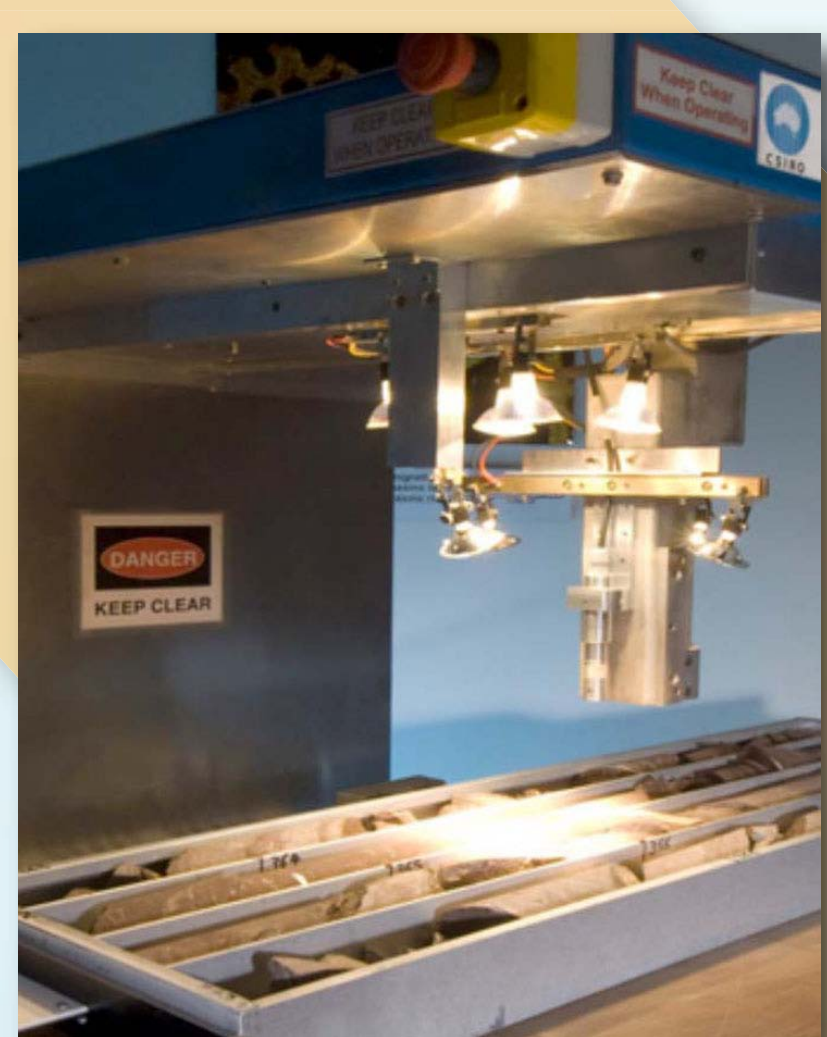
## National Virtual Core Library - GS NSW Node

The AuScope National Virtual Core Library (NVCL) will facilitate research into the composition of the top 2 km of the Australian continent by hyperspectrally scanning the millions of metres of drill core archived in Federal, State and Territory Geological Surveys. These will be augmented by cores offered by the private sector.

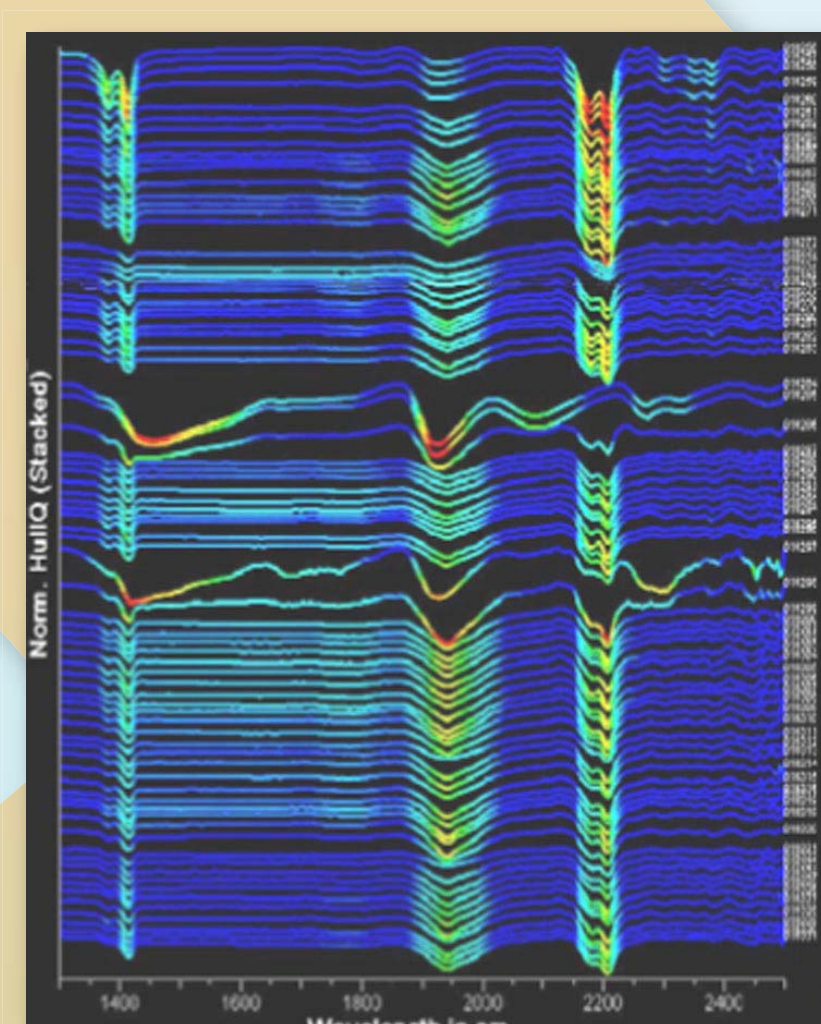


Londonderry Core Library

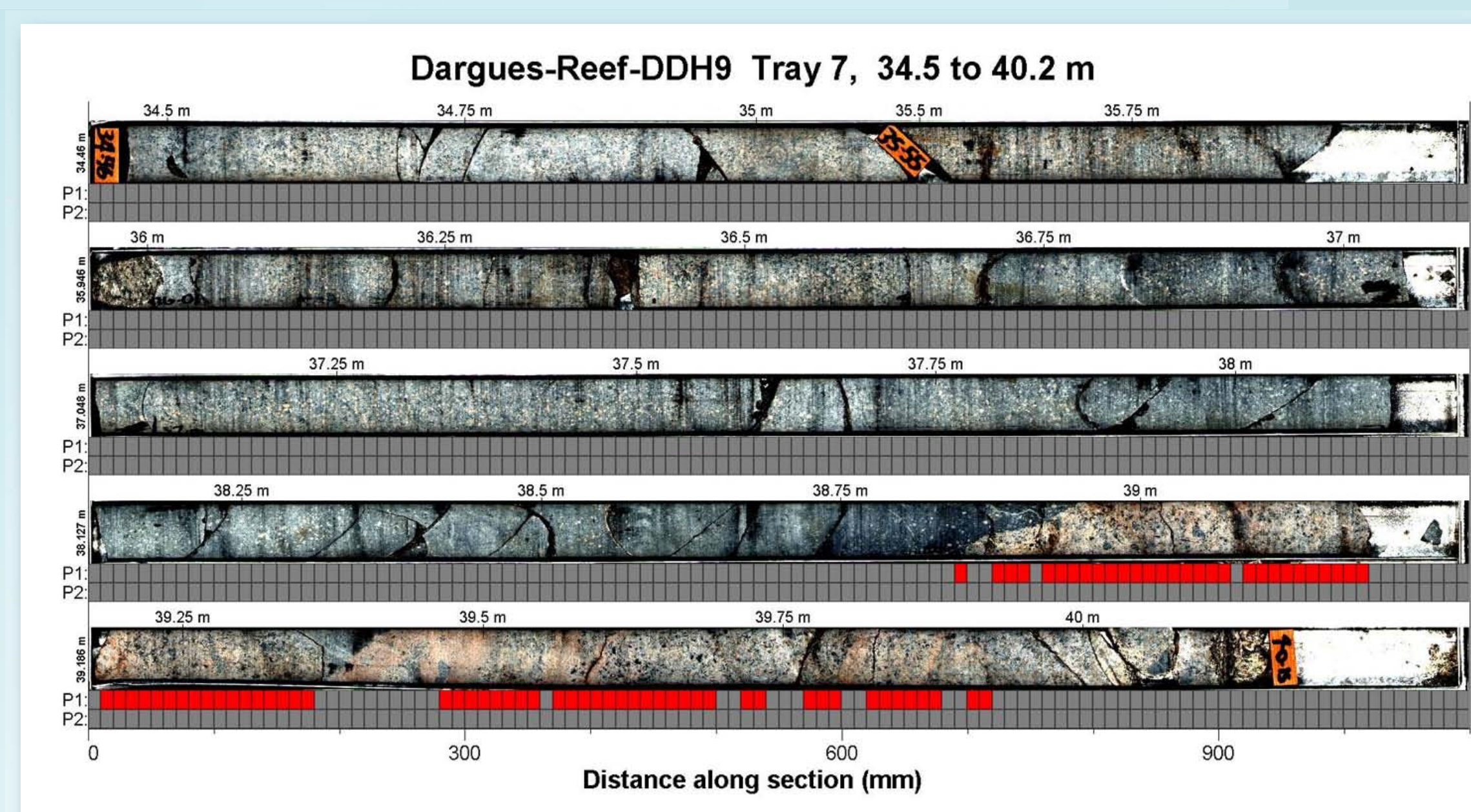
The AuScope NVCL is a unique new collaborative research infrastructure project funded by the federal government's National Collaborative Research Infrastructure Strategy (NCRIS) within the Department of Innovation Industry Science and Research, and the CSIRO, and implemented by all State and Territory Geological Surveys.



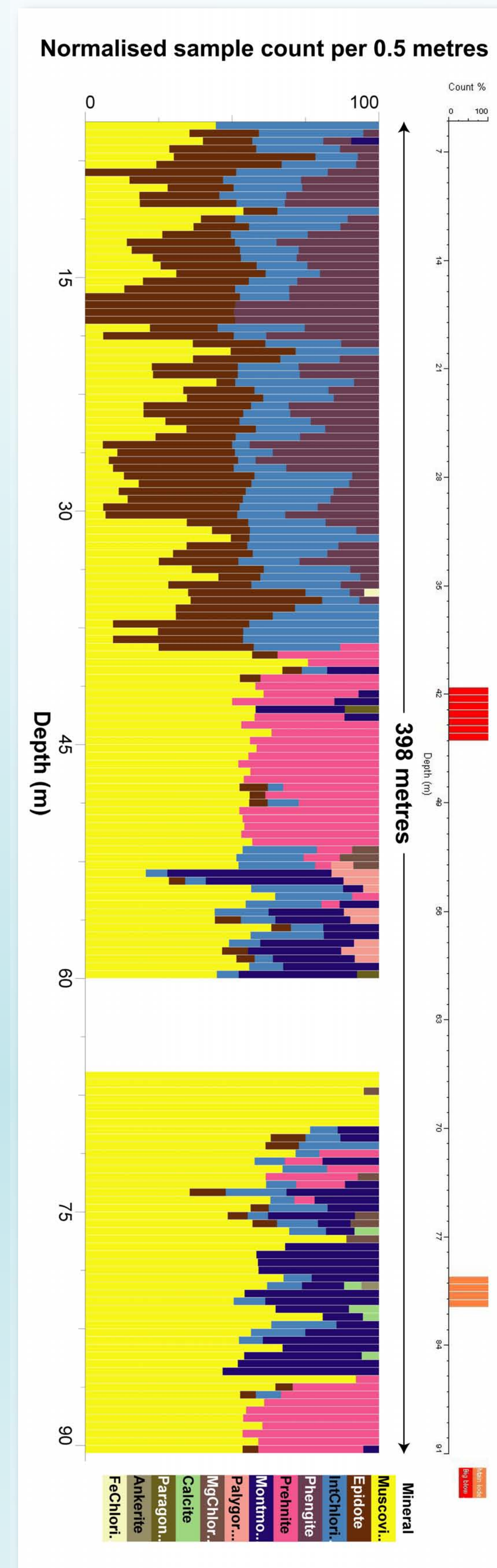
During the current AuScope project (out to mid-2011), each Geological Survey will staff and operate one of CSIRO's HyLogging™ hyperspectral mineralogical core logging instruments. These instruments yield information-rich spectro-mineralogical and image data of cores at a spatial resolution of approximately 10mm.



The data will be interpreted in the TSG-Core™ software package and along with standard products stored in relational databases for global interrogation via the Internet.



Typical outputs will include mineralogical logs (right) supplemented by detailed spatially-registered images of the core (far left), and core trays (left), in this case also showing in red the distribution of the mineral prehnite.



Dargues Reef DDH9 NSW + Lodes

An interactive demonstration website is available for preview at <http://nvcl.csiro.au>. The AuScope Discovery Portal is also under development and may be previewed at <http://portal.auscope.org/gmap.html>. Use of the NVCL infrastructure for research opportunities is strongly encouraged. For more information contact Bill Reid, GS NSW NVCL Project Leader, [bill.reid@dpi.nsw.gov.au](mailto:bill.reid@dpi.nsw.gov.au) or the AuScope NVCL Component Director, Jon Huntington, [jon.huntington@csiro.au](mailto:jon.huntington@csiro.au).

AuScope Limited  
School of Earth Sciences  
University of Melbourne  
Victoria 3010  
Tel 03 8344 8351  
Fax 038344 8359  
[info@auscope.org](mailto:info@auscope.org)  
ABN 33 125 908 376  
[www.auscope.org.au](http://www.auscope.org.au)



Mineral Resources Tasmania  
Department of Infrastructure, Energy and Resources



Government of South Australia  
Primary Industries and Resources SA

### Acknowledgements

Australian Government  
Department of Innovation  
Industry, Science and Research



State Government of Victoria  
Department of Primary Industries

Government of Western Australia  
Department of Industry and Resources

Queensland Government  
Department of Mines and Energy

Bill Reid  
GS NSW NVCL Project Leader  
Email  
[bill.reid@dpi.nsw.gov.au](mailto:bill.reid@dpi.nsw.gov.au)  
Phone  
+61 (02) 4931-6731  
Fax  
+61 (02) 4931-6796