Department of Natural Resources and Mines
Geological Survey of Queensland

Geology of Queensland

Queensland Geology — 2012

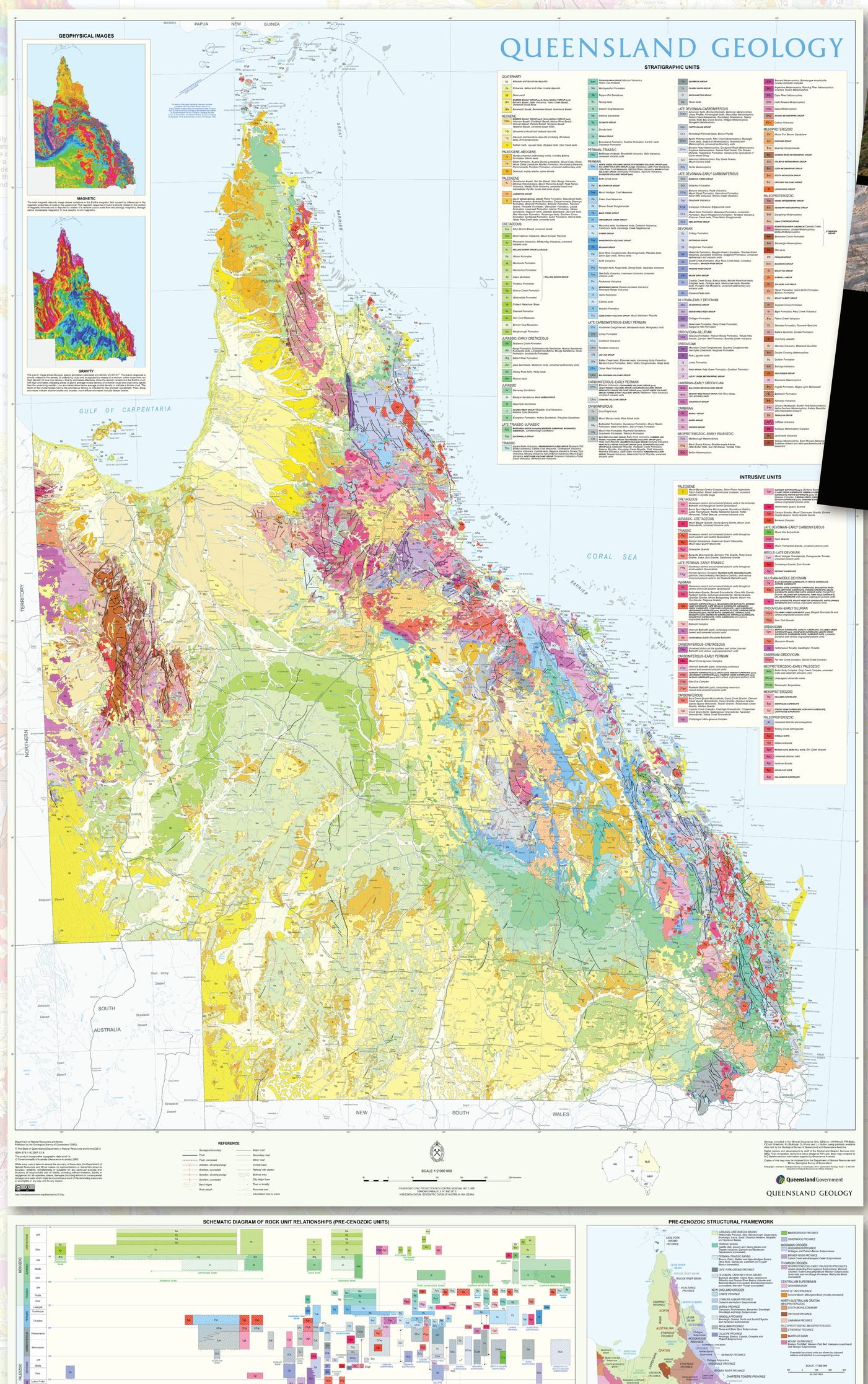
In 2009, with the completion of second-pass mapping of most of the 'hard-rock' areas of Queensland and the third-pass work in north-west Queensland well-advanced, GSQ undertook to produce a revised geological map of Queensland that would be released in time for the 34th International Geological Congress in Brisbane in August 2012.

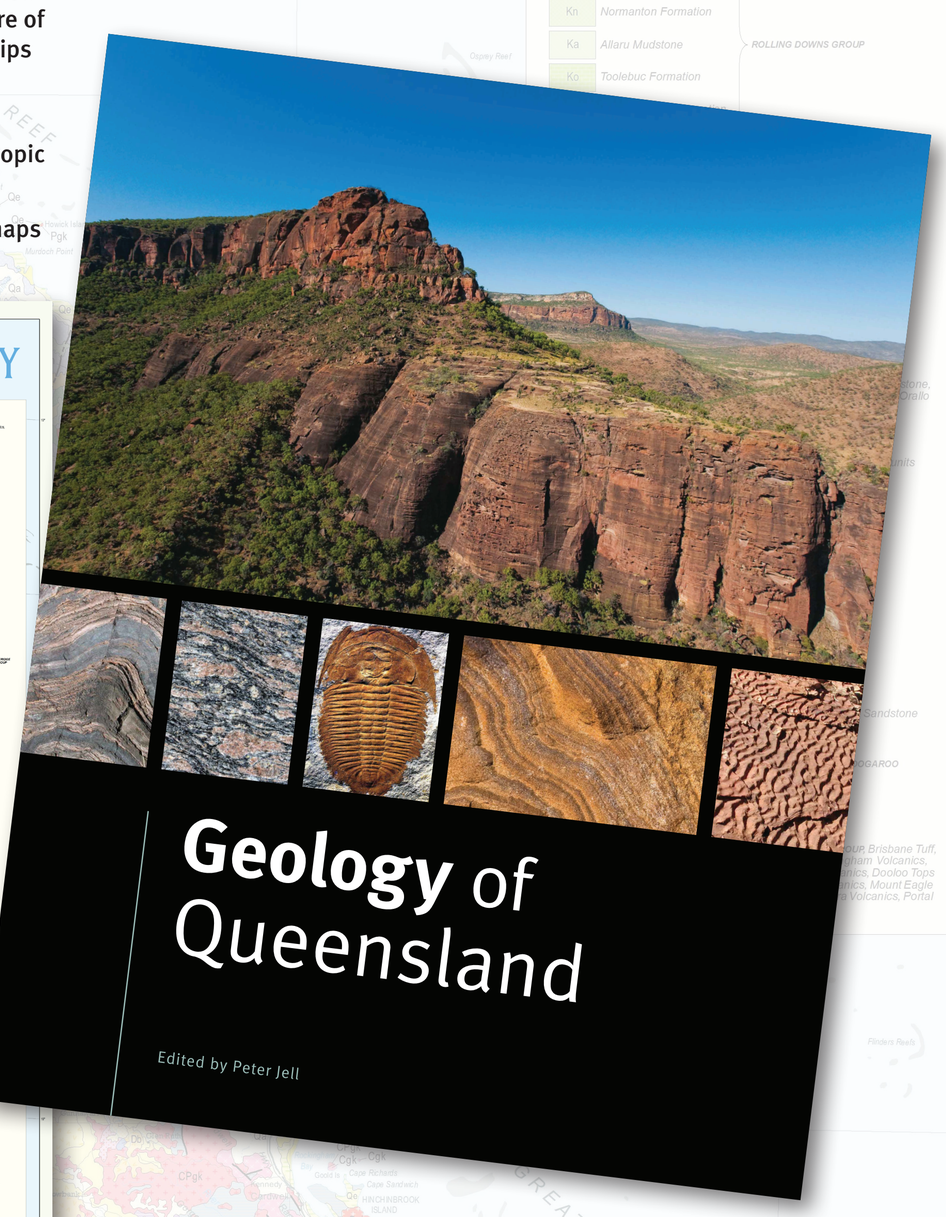
Compilation was aided by the production of a 1:1 000 000-scale digital map for Australia by Geoscience Australia in 2005, but it needed significant updating in some areas and generalisation for display as a hard-copy map at 1:2 000 000 scale.

Approximately 2000 rock units were grouped into 250 map units and the line work was generalised and re-digitised. In addition to the geology, the structural elements map was completely revised to reflect a newer understanding of the gross architecture of Queensland's geology and also to show subsurface elements.Finally a schematic reference was designed to show relationships of the rock units in time and space.

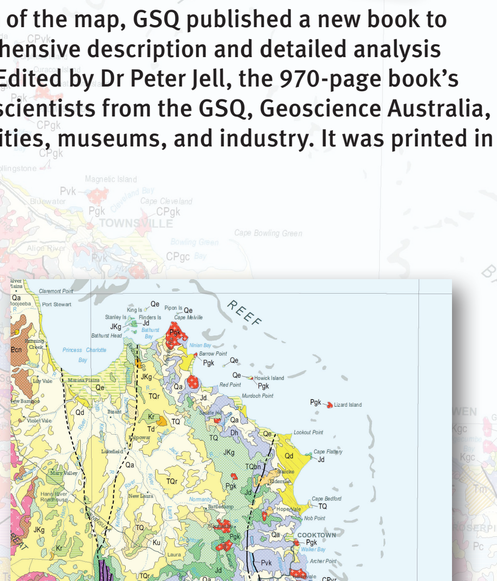
At this scale, the improvements in the new map over the 1975 map are much more subtle than between that map and its predecessors, but are still significant. Many result from a better temporal framework that comes from major advances in isotopic dating, and have been encapsulated in the schematic reference.

The map was completed and printed in July 2012. In addition to the hard-copy map, the geological and structural elements maps are also available in GIS format, both on DVD and on-line through GSQ's Interactive Resources and Tenure Map System.





In parallel with production of the map, GSQ published a new book to provide a modern, comprehensive description and detailed analysis of Queensland's geology. Edited by Dr Peter Jell, the 970-page book's contributors included geoscientists from the GSQ, Geoscience Australia, various Australian universities, museums, and industry. It was printed in March, 2013.



Great state Great opportunity.

Queensland Government