

IGCP-559: Crustal Architecture and Images –Structural controls on landscapes, resources and hazards

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The IGCP-559 project (by Dr. B. Goleby, Geoscience Australia) focus on that part of planet Earth that has the most significance for the world's communities, namely the Earth's crust and upper mantle. The project makes available to communities-at-large a wealth of information and seismic imaging that is commonly only available to research workers but yet has a profound effect on how we think of the landscapes, natural environments and their controlling geological processes and tectonic influences. This information allows an understanding of crustal architecture and tectonic processes that is fundamental to any appreciation and understanding of landscapes, surface geology and natural hazards at a local, regional and global scale.

The IGCP-559 project was formally terminated at the end of 2012, then during this year the working group has a task to finish up the proceeding volume (Tectonophysics, ELSEVIER) of the "15th international symposium on 'Deep Seismic Profiling of the Continents and their Margins; SEISMIX-15" conference held at Beijing, China in 2012. Regarding the Classic Transect program, majority of the data from Australia and Russia have been compiled but the contribution from the other nations is relatively small, then it is recommended to gather the data from involved countries. The Japanese WG member (Dr. Kanao, NIPR) had been focusing on the works of the structure of the Antarctic continent, by using seismic data retrieved from the International Polar Year program. Several fruitful results of the crust and upper mantle structure have been published by the international journals. In this poster presentation, an overview of the activity of IGCP-559 is introduced.

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