

New Geoscience Data Repository released by Natural Resources Canada

On January 2, 2004, the Geological Survey of Canada, a component of Natural Resources Canada, released its web mapping application for public viewing and downloading of geophysical data as a contribution to the Earth Sciences Sector program, Consolidating Canada's Geoscience Knowledge (CCGK).

National gridded geophysical datasets are now available online to view and download for free at http://gdr.nrcan.gc.ca//index_e.php. Data are delivered via a new web mapping application utilizing Geosoft's Data Access Protocol (DAP) technology.



The web application combines a web map server interface with a data delivery system for gridded aeromagnetic, gravity and radiometric data. Clients can interactively select an area, specify an appropriate projection, and download the data in a large number of standard formats, all at no cost.

The application was developed and implemented using GEOSOFT Inc.'s DAP (Data Access Protocol) technology. It is the first stage in a CCGK project to deliver geophysical and geochemical data online. Later stages will deliver additional gridded data sets, georeferenced images, and profile data, as well as improvements in the functionality of the interface.

The following gridded data sets are currently available at http://gdr.nrcan.gc.ca//index_e.php.

Data type	Area	Field/variable	Resolution	Date
Aeromagnetic	Canada	Residual total field	1000 m	October 2002
Aeromagnetic	Canada	Residual total field	200 m	November 2003
Gravity	Canada	Bouguer on land, Free air offshore	2000 m	November 2003
Radioactivity	Canada	Air absorbed dose rate	2000 m	November 2003
Radioactivity	Canada	Potassium	2000 m	November 2003
Radioactivity	Canada	eThorium	2000 m	November 2003
Radioactivity	Canada	eUranium	2000 m	November 2003

Geosoft's Oasis montaj and Target for ArcGIS users can download data directly into their working projects by adding the GSC DAP server (gdr.nrcan.gc.ca) to their DAP data retrieval tool. For information on how to add a DAP server to the Geosoft DAP tool, please refer to: http://www.geodap.com/dap_howto.htm.