

Making Friends in the Earth-Sciences Community

Speeding Up the Discovery Process

Project Name: GeoChronos

Project Lead: Cybera Inc., Alberta

CANARIE Contribution: \$ 900,000

Partners:

- University of Calgary, Alberta
- University of Alberta
- University of Victoria, British Columbia
- California State University, Los Angeles
- Universidade Federal de Minas Gerais, Belo Horizonte, Brazil
- CANARIE

What is GeoChronos?

GeoChronos is a Web-based collaboration environment that enables earth scientists to access, process and share data from distant locations in a social-network-like format.

In this case, the “friends” are high-performance research teams who connect with each other and access GeoChronos through a Web portal that includes applications for data management and processing.

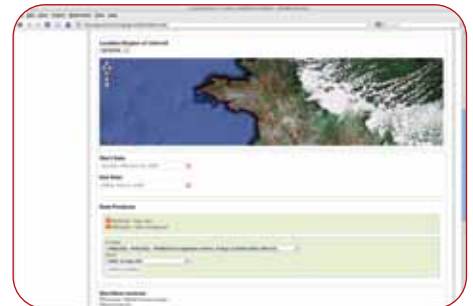
These applications draw upon data from satellite, airborne, and terrestrial sensors, transmitted over the CANARIE high-speed network. This literally makes a world of data available on the researchers’ desktops.

Value to Research and to Canada:

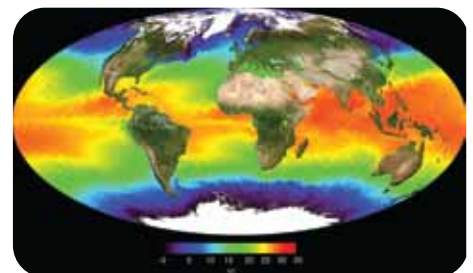
- By enabling spontaneous, easy interaction with international researchers GeoChronos automates the scientific workflow and accelerates discovery in earth-observation science
- Researchers can focus on the science, rather than the technologies that enable them to access and process the data. They can concentrate on their true areas of expertise
- Helps Canada maintain a competitive and influential role within the global earth-science community

Did you know?

GeoChronos is taking the next step in collaborative science by providing many Facebook-like social-networking features.



Creating a workflow entry in the GeoChronos portal. *Source: Dr. Cameron Kiddle*



Surface reflectance and ocean temperature. *Source: NASA*