

**Geological Survey of Canada of the Earth Sciences Sector of the Department of Natural Resources of Canada - U.S. Geological Survey Project Annex #4 – Title: DEVELOPMENT OF STANDARDIZED NATIONAL GEOLOGIC MAP DATABASES**

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**Responsible Senior Managers:** USGS - P. Patrick Leahy, (703) 648-6600;  
GSC - Murray Duke, (613) 995-4093.

**Scope:** This Project Annex (PA) is intended to maintain and advance the longstanding GSC/USGS collaboration on issues related to the design, construction, and maintenance of national geologic map databases. These issues include standards and guidelines, digital mapping techniques, database design, and approaches to display, query, and delivery of map data.

**Work Plan:**

- 1) GSC and USGS representatives involved in developmental activities related to in geoscience standards and guidelines will be invited to participate in both U.S. and Canadian meetings and symposia designed to examine, evaluate, and implement those standards and guidelines (for example, the annual Association of American State Geologists/USGS Digital Mapping Techniques workshops).
- 2) Pertaining to #1 above, GSC and USGS representatives will collaborate on development, evaluation, and implementation of a geologic map data model, under the auspices of the North American Data Model Steering Committee.
- 3) GSC and USGS representatives involved in efforts to develop national geologic map databases will be kept generally informed of progress and technical issues in the development of said databases, and will be invited, as appropriate, to planning and review sessions for issues related to building National Spatial Data Infrastructures (for example, the Canadian Geoscience Knowledge Network and the USGS Gateway to the Earth).
- 4) GSC and USGS representatives will, upon request, serve as technical advisors to the U.S. and Canada, for the definition and development of Web-based approaches to dissemination of information and knowledge to the public. These approaches may include digital libraries, online and queryable map databases, and expert decision support systems.

**Funding Arrangements:** Through internal funding mechanisms, both the GSC and USGS will provide sufficient funding to permit travel for meetings and consultations stipulated in the Work Plan elements. As an outcome of these meetings, high-priority projects may be identified that would benefit from co-funding by the two agencies. Details of proposed funding arrangements for this specific technical work and contracts will be informally proposed and evaluated as necessary.

**Additional Partners:** As appropriate, development of these national geologic map databases will be done in collaboration with Provincial, Territorial, and State geological surveys.

**Intellectual Property:** As per the "Agreement on the Allocation of Intellectual Property Rights, Interests and Royalties for Intellectual Property Created or Furnished under Certain Scientific and Technological Cooperative Research Activities" between the Government of Canada and the Government of the United States of February 4, 1997, parties to this PA shall retain existing intellectual property that they bring to the project. Intellectual property arising as a result of this project shall be owned in equal parts by the GSC and USGS.

**Duration and Termination:** This PA shall remain in effect until the MOC expires. Either party may, by giving the other party thirty (30) days written notice, terminate this agreement. Changes or modifications to this PA shall be by written document and signed by the Parties. Each party shall immediately upon termination, return the other party's papers, materials, or other property held for the purpose of carrying out the project.

FOR THE U.S. GEOLOGICAL SURVEY  
OF THE DEPARTMENT OF INTERIOR  
OF THE UNITED STATES OF AMERICA:

FOR THE GEOLOGICAL SURVEY OF  
CANADA OF THE EARTH SCIENCES  
SECTOR OF THE DEPARTMENT OF  
NATURAL RESOURCES OF CANADA:

\_\_\_\_\_  
P. Patrick Leahy  
Associate Director for Geology  
United States Geological Survey

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Murray Duke  
Director General  
Geological Survey of Canada

Date: 12/23/00

Date: 19.1.2001



# United States Department of the Interior

U.S. GEOLOGICAL SURVEY  
Reston, Virginia 20192

In Reply Refer To:  
Mail Stop 917

January 18, 2001

Murray Duke  
Geological Survey of Canada  
601 Booth Street  
Ottawa, ON K1A 0E9  
CANADA

*Done  
Please send original  
to George Cameron  
copy in our USGS  
file.*

Dear Mr. Duke:

Attached are two (2) originals of Project Annex No. 4 for the Development of Standardized National Geologic Map Databases, signed by the P. Patrick Leahy, Associate Director for Geology that require a final signature from you. Please sign both originals, retain 1 copy for your files and return the other original to the following address:

Dee Dee Poole  
U.S. Geological Survey  
National Center, Mail Stop 917  
12201 Sunrise Valley Drive  
Reston, Virginia 22092

Could you please send me an email once you have received this package and when you Fedex the return signed document back tome. You can contact me in the following manner:

Email: [dpool@usgs.gov](mailto:dpool@usgs.gov)  
FAX: 703/648-6075  
Telephone: 703/648-6158

Your assistance in this matter is appreciated.

Sincerely,

Dee Dee Poole  
International Programs