

**PROJECT ANNEX NO. 10**

Between:

**GEOMATICS CANADA**, represented by the Geomatics for Sustainable Development of Natural Resources Program of the Earth Sciences Sector, Department of Natural Resources, Canada (hereinafter referred to as "ESS"),

and the:

**U.S. GEOLOGICAL SURVEY** of the Department of the Interior, United States of America (hereinafter referred to as "USGS"),

concerning:

**Development of Framework Data Sets: A Collaborative Arrangement Between the Atlas of Canada and The National Atlas of the United States of America**  
(hereinafter referred to as the "Project")

**Authority:** This is a Project Annex (hereinafter referred to as "PA") to the Memorandum of Cooperation signed on April 9<sup>th</sup> 1999, and the Letter of Exchange signed February 13<sup>th</sup> and March 10<sup>th</sup>, 2004, between the Earth Sciences Sector of the Department of Natural Resources, Canada, and the U.S. Geological Survey of the Department of the Interior of the United States of America, hereinafter referred to as the "Parties." This PA is approved in accordance with Article VI of the Memorandum of Cooperation.

**Correspondents:** USGS: Jay Donnelly, Managing Editor, National Atlas of the United States, 561 National Center, 12201 Sunrise Valley Drive, Reston, Virginia 20192, [jpdonnelly@usgs.gov](mailto:jpdonnelly@usgs.gov), (703) 648-5395.

ESS: Peter Paul, Project Leader: Atlas Frameworks Project, Atlas of Canada, 615 Booth Street, Ottawa, Ontario K1A 0E8, [paul@nrcan.gc.ca](mailto:paul@nrcan.gc.ca), (613) 943-0572.

**Responsible Senior Managers:** USGS: Barbara J. Ryan, Associate Director for Geography, 102 National Center, 12201 Sunrise Valley Drive, Reston, Virginia 20192, [bjryan@usgs.gov](mailto:bjryan@usgs.gov), (703) 648-6600.

ESS: Dr. Robert Ryerson, Director General, Canada Centre for Remote Sensing, Earth Sciences Sector, Natural Resources Canada, 588 Booth Street, Ottawa, Ontario K1A 0E4, [Bob.Ryerson@nrcan-nrcan.gc.ca](mailto:Bob.Ryerson@nrcan-nrcan.gc.ca), (613) 947-1222.

**Background:** As the responsible organizations for the development and publication of National Atlas products and services in their respective countries, the Parties acknowledge that natural phenomena, such as water quality and avian migration, and human activities, such as energy use and generation of greenhouse gas emissions, recognize no political boundaries. The Parties share common interests in characterizing and illustrating through maps their respective environments, places, and people. Recent stakeholder consultation amongst federal, university, and non-governmental organizations has clearly identified the need for the development of harmonized cross-border framework data sets for sustainable

development policy and communications work. It is expected that the framework data developed as a result of the collaboration conducted through the Project under this PA will be utilized to catalyze other environmental and infrastructure applications in both countries.

**Scope:** Through this Project, the Parties will collaborate to develop integrated digital framework data sets and related products. The resultant products will also align with Canadian and American contributions to the International Global Map Program and the North American Region Geographic Information initiative.

The data products will be delivered via interoperable metadata and visualization services within the Spatial Data Infrastructures (CGDI, *The National Map*, Geospatial One-Stop) in both countries which in turn form part of the Global Spatial Data Infrastructure.

**Work Plan:** The following are the expected deliverables (in order of delivery) arising from the Project under this PA:

- 1) Develop framework data at 1:10,000,000-scale;

The Parties will collaborate to develop, document, and publish integrated cartographic data at the 1:10,000,000-scale, which includes the following framework layers: bathymetry, boundaries, hydrography, glaciers, populated places, permanent polar ice, railways, and roads. The data, which will be documented in accordance with national and international metadata standards, will be available for Open GIS Consortium-compliant visualization and download via the respective USGS and ESS spatial data infrastructures and may be distributed in other forms by either Party.

- 2) Develop 1:10,000,000 scale maps (base and thematic);

The Parties will collaboratively produce and maintain a 1:10,000,000-scale paper reference map of North America. It will serve as the cartographic framework for thematic maps of North America to be produced under this Project and to support thematic mapping efforts of both organizations.

- 3) Develop integrated framework data at 1:1,000,000-scale;

The Parties will collaborate to develop integrated digital cartographic data at 1:1,000,000-scale. For the purposes of this Project, the Parties will focus on the development of an integrated hydrology network along the Canada/US border. Coordination for these small scale data sets will facilitate each countries efforts to integrate larger scale data through their ongoing efforts like *The National Map* in the United States and the Geodatabase in Canada. The data will be documented in accordance with national and international metadata standards, will be available for Open GIS Consortium-compliant visualization and download via the respective USGS and ESS spatial data infrastructures and may be distributed in other forms by either Party. The 1:1,000,000 data will also be provided to the International Steering Committee for Global Map Program for distribution.

**Funding Arrangements:** Unless otherwise mutually agreed to in writing by the Parties, both Parties will contribute their own resources (personnel and funding) to the Project carried out under this PA and will therefore be responsible for their own expenses incurred as a result.

**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 the Project carried out under this PA shall be jointly

owned by both Parties. Products produced under the Project can be used, reproduced, modified, distributed and sublicensed by both Parties without any obligation or payment to the other Party.

**Publications:** All publications and announcements in connection to the Project carried out under this PA shall be made in the spirit of collaboration, with participation from both Parties, and will properly acknowledge the role (including co-authorship where appropriate) and contribution of the Parties.

**Warranty:** USGS and ESS make no representation or warranty respecting the products arising from this PA, either expressly or implied by law or otherwise, including but not limited to, implied warranties or conditions of merchantability or fitness for a particular purpose.

**General Provisions:** All questions related to this PA arising during its term will be settled by the Parties by mutual agreement.

**Duration and Termination:** This PA will remain in effect until June 30<sup>th</sup>, 2007, at which time it may be extended by the mutual written agreement of the Parties. Changes or modifications to this PA shall be in writing and signed by the Parties. Either Party may terminate this agreement by giving the other Party thirty (30) days written notice. Upon termination, each Party shall immediately return the other Party's papers, materials, or other property held for the purpose of carrying out the Project.

Accepted on behalf of USGS:

Accepted on behalf of ESS:

Barbara J. Ryan  
Associate Director for Geography  
United States Geological Survey  
Department of the Interior

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R. Ryerson  
Director General  
Canada Centre for Remote Sensing  
Earth Sciences Sector  
Natural Resources Canada

30 June 2004  
Date \_\_\_\_\_

7 July 2004  
Date \_\_\_\_\_