

### Background and Overview

The primary goal of this project is to deliver an innovative geospatial application to the coastal management and decision-making community in the Gulf of Maine, which will help them understand the status and trends of important ecosystem data as well as assess the efficacy of their management efforts regarding coastal pollution. This regional project is led by the **Gulf of Maine Council on the Marine Environment (GoMC)** and the **Ecosystem Indicator Partnership (ESIP)**.

### Scope of Services

The Technical Development Vendor selected through this Request for Proposal (RFP) process will be responsible for the implementation of Open Geospatial Consortium web mapping and web feature services on selected datasets and for developing the geospatial application as specified in the GeoConnections Project Technical Specification that appears in the RFP Addendum. The Technical Development Vendor will take direction from the Gulf of Maine Ocean Observing System (GoMOOS) who will be acting as Technical Lead on the project. A summary of the work products and deliverables that are expected of the Technical Development Vendor are outlined below.

### Summary of Work Products and Deliverables for Technical Development Vendor

| <i>Task</i>                                                                                                                                                                                                                                       | <i>Completion Date</i> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Where needed migrate priority data into appropriate format and address data integration issues that can be accomplished within the time and financial constraints of this project. Make recommendations for those issues that cannot be resolved. | August 1, 2007         |
| Develop common terms of reference, data display and symbology for all data providers to use                                                                                                                                                       | August 1, 2007         |
| Work with Data Providers to implement the OGC WMS and WFS for priority data sets in order to operate within the CGDI                                                                                                                              | August 1, 2007         |
| Assist Data Providers in publishing metadata and data service information with the GeoConnections Discovery Portal                                                                                                                                | August 1 2007          |
| The Technical Vendor, Environment Canada, GoMOOS and appropriate project partners will investigate the use and implementation of the OGC observations and measurements specification                                                              | August 1, 2007         |
| Development and deployment of geospatial tools based on functional requirements outlined in the RFP Addendum. The development process will include end user testing and refinement to ensure the product is user friendly                         | November 1, 2007       |
| Identify and document the procedure for other data providers to contribute data to this distributed data system                                                                                                                                   | December 1, 2007       |
| Investigate and document long-term strategies for maintaining services and tools and assisting new stakeholders                                                                                                                                   | December 1, 2007       |
| Product final project report                                                                                                                                                                                                                      | December 1, 2007       |

### Qualifications

The Technical Development Vendor must be a Canadian company. Preferences during the selection process will be given to vendors with demonstrable experience in the following:

- Environmental data mapping applications for the web on the Unix platform
- Open Source mapping applications including MapServer
- Chameleon web mapping applications development environment
- Open Geospatial Consortium specifications including Web Mapping Service, Web Feature Service, Web Coverage Service, Sensor Web Enablement and Sensor Observation Service
- Open Source databases including Postgres and PostGIS
- Information Architectures to allow easy extension of the system to accommodate new Data Providers, data types, and enhancements to the data presentation and visualization
- Application development using Perl, Apache, modPerl, and Mason



**Term of Contract and Compensation**

All work on the project must be completed by December 1, 2007. The Technical Vendor's proposed budget must not exceed \$75,000 Canadian.

**Location**

The vendor will work from their own office facilities.

**Other Requirements**

Applicants must meet Canadian federal contract requirements for receipt of federal funds.

**Application Procedure**

Interested vendors should submit electronically a letter of interest, a response to the GeoConnections Project Technical Specification including an outline of the vendor's anticipated project approach, qualifications, and relevant experience, a proposed budget and contact information for three references by 5:00 PM ET April 16, 2007 to [tgale@gomoos.org](mailto:tgale@gomoos.org). The selection committee will begin reviewing applications on April 17. Finalists will be invited for a teleconference interview with the selection committee and the final selection will be made by May 11.

**About the Gulf of Maine Council**

Formed in 1989 by the governors and premiers of Massachusetts, New Hampshire, Maine, New Brunswick, and Nova Scotia, the Gulf of Maine Council on the Marine Environment is a collaborative of state, provincial, federal, and non-governmental organizations working to protect and restore Gulf habitats, protect human health and ecosystem integrity, promote sustainable development of resources, raise awareness of the Gulf, and foster local stewardship.