

**U.S. GEOLOGICAL SURVEY/EROS CENTER
TECHNICAL REQUIREMENTS DOCUMENT
for
TECHNICAL SUPPORT SERVICES CONTRACT SOLICITATION**

TRD NUMBER

0031

PERFORMANCE PERIOD

Contract Base Year: April 1, 2010 thru March 31, 2011

PROJECT NAME

National Atlas Science Support

1.0 Scope:

The National Atlas of the United States is a partnership among Federal agencies and industry to make national geographic information more accessible and useful. Products and services of the National Atlas include an interactive map maker, map layer information, wall maps, printable page size maps, dynamic maps and animations, articles, and GIS layers for mapping professionals. Science support at EROS involves work on developing new maps, datasets, services, and informational products for the National Atlas, as well as support for ftp downloads of National Atlas datasets.

The National Atlas requires support from the TSSC in these areas:

1. Support hosting of National Atlas datasets on an ftp server as files in a GIS format. Regular reporting on the number and volume of downloads is required. The number of new datasets to be loaded for ftp retrieval is variable from year to year. Reports should be, at a minimum, monthly and quarterly, but may also be requested at other times.
2. Support assembly of greenness datasets for use in National Atlas products
3. Support for development and production of new, as-yet unidentified datasets, services, and informational products for the National Atlas.

Addition of new requirements will be documented in the TRD by the change page mechanism.

Additional Requirements

TRD Version 2.1

1. Develop datasets from which one or more sets of maps can be printed. The datasets include: shaded relief; 100-meter land cover from NLCD 2001, and LANDSAT satellite imagery,
2. Research and design a lithographically printed wall map that includes the themes of satellite imagery, shaded relief terrain and interpretive geomorphology following National Atlas graphic standards,
3. Update the "Set of 100" topographic maps for online use by educators, and
4. Provide editorial assistance (proofreading, editing, review, verification, checking or evaluation) of cartographic drafts, samples, manuscripts, proofs, designs, layouts or files as requested on an ad hoc basis.

TRD Version 3.0

The requirements listed above are expected to be part of the TSSC work plan for the period covered by Version 3 of this TRD.

2.0 Deliverables:

1. Reports of datasets supplied by National Atlas and loaded for ftp retrieval
2. Reports, at frequencies cited above, of ftp downloads of National Atlas datasets.
3. Greenness datasets as specified in work orders. There is a possibility of generating a "greenness image of the month" in addition to the annual compilation of biweekly composites.
4. Assembly of a 100-meter resolution elevation dataset for the entire United States from NED data.
5. New datasets, services, and informational products as specified in work orders and documented via TRD change pages.
6. Inputs for weekly Director's Reports, Monthly Reports, Quarterly reports, and other, as-yet unidentified reporting requirements as specified by USGS.

Additional Deliverables

TRD Version 2.1

1. August – September 2009: Product specification document that defines a development approach for the "Set of 100" topographic maps. Progress reported in a monthly report.
2. October – November 2009: Prototype example for the "Set of 100" maps. Progress reported in a monthly report.
3. December 2009 – March 2010: Monthly progress reports detailing progress on the "Set of 100" maps.
4. January – March 2010: Design of the lithographically printed wall map. Progress to be included in the Monthly Progress Reports referenced in item

5. The monthly progress reports shall also include reporting of the general editorial assistance that is provided.

TRD Version 3.0

1. April 2010 – September 2010: Monthly progress reports detailing progress on the “Set of 100” maps. General editorial assistance on new National Atlas products. Progress reports on development of new printable maps.

3.0 Schedule:

1. FTP reporting schedule to be as specified under Scope.
2. If approved by National Atlas management, work order for new "greenness image of the month" products to be submitted by government by end of April. Greenness products would be delivered monthly within 10 days of work order submission, unless otherwise agreed to.
3. Schedule for delivery of new datasets, services, and informational products to be agreed upon between project manager and relevant work manager(s).
4. Schedule for delivery of report inputs to be in accordance with USGS reporting schedule. Specifics will be provided to TSSC by project manager. Scheduled additions for TRD Version 3.0

TRD version 3.0

April – September 2010: Monthly progress reports detailing progress on the “Set of 100” maps, on new National Atlas wall maps, printable maps, and other products, and on editorial assistance.

4.0 Communication:

The project manager and TSSC work manager will meet bi-weekly unless otherwise agreed upon to discuss expenditures and emerging requirements. The contractor shall keep the Government project manager informed of all activities, such as work successes, problems, and potential problems as soon as they are known. Other communications required by the USGS in support of work may include quarterly briefings, special reviews, and presentations at key events.

The contractor will understand requirements of the project and ensure expectations are met by:

- Developing the associated work plan and monitoring its execution/progress
- Assisting in the coordination or facilitation of external cooperative agreements
- Coordinating and contributing to status reports (e.g., quarterly reviews, annual reviews), assisting as needed, collecting and /or editing content; and coordinating ad-hoc data calls, presentations, or visitors
- Reporting expenses from ITS
- Notifying the Help Desk of changes in ownership of software, desk and laptop systems, servers, etc.
- Identifying areas of overall or specific risk and participating in mitigation strategies
- Coordinating with finance staff to assist with income calls and updates