Special Item No. 511210 Earth Observations Solutions

**Earth Networks Total Lightning Network** - The Earth Networks Total Lightning Network™ (ENTLN) is the first integrated broadband lightning network delivering detection of both in-cloud (IC) and cloud-to-ground (CG) lightning activity.

**National Mesonet Observational Data** – Earth Networks is pleased to offer the full range of observational data, in furtherance of the effort to establish a National Mesonet.

**Contract Number:** GS – 35F – 0188W

**Period Covered by Contract:**
January 8, 2020 – January 7, 2025

**Contractor:** Earth Networks, Inc.
12410 Milestone Center Drive, Suite 300
Germantown, MD 20876

**Websites:**
http://earthnetworks.com/

**Contact:**
Bill Callahan, VP Federal Programs

**Phone:**
800-544-4429
240-447-8173
General Services Administration
Federal Acquisition Service

Products and ordering information in this Authorized FSS Information Technology Schedule Pricelist are also available on the GSA Advantage! System (http://www.gsaadvantage.gov).

SPECIAL ITEM NUMBER 511210 – EARTH OBSERVATIONS SOLUTIONS

Provides geospatial earth observation technologies, products, and services to include, but not limited to ground, satellite and aerial based sensor data and imagery; worldwide digital transmission, internet, data, and video services and products through various networks, platforms, and applications. Offerings include global coverage, imagery, archive storage and distribution, monitoring, base-maps (mosaics), and earth observation solutions for accurate, mission critical information for uses to include, but not limited to, environmental, agriculture, meteorology, forestry, fish & wildlife habitats, disaster response and recovery, defense, maritime, mapping, humanitarian support, transportation, and public safety. Includes direct-downlink and delivery services including ground and mobile ground terminals, direct access service, direct to cell phones, ships, and aircraft. Provides solutions based on commercially available dedicated, shared, or on-demand satellite resources and associated terrestrial components and/or airborne constellation/platforms including Unmanned Aerial Systems (UAS). This includes, but not limited to, ground, satellite-based or airborne communications, sensor data, imagery and geospatial collected or derived services and/or products. Sensor data includes electro-optical; synthetic aperture radar; Hyperspectral; LiDAR, geomagnetic field; gravity field, thermal, sonar, and all other current and emerging technologies. Includes remote sensing and analytic software products, software applications, software data management and analysis, and cloud applications. The full range of end-to-end data services are in the scope of this SIN to include, but not limited to, advanced data analytics, crowdsourcing, change detection, alert notification, machine learning, and emerging technologies and solutions.
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The Earth Networks Total Lightning Network (ENTLN) incorporates the most advanced lightning location technology delivering unsurpassed lightning detection efficiency and location accuracy. ENTLN is the first lightning detection network capable of detecting a large proportion of both in-cloud (IC) and cloud-to-ground (CG) lightning.

In-cloud lightning detection at high efficiencies is critical for the advanced forecasting of severe weather phenomena such as:

- Tornadoes
- Heavy rain
- Windshear
- Damaging downburst winds
- Deadly CG lightning strikes that often follow 5 to 30 minutes after IC pulses are detected

Earth Networks utilizes its high total lightning detection efficiency data combined with customized algorithms to issue Dangerous Thunderstorm Alerts (DTAs) which provide significant lead-times for impending severe weather.

ENTLN is the largest, most sophisticated global lightning network:

- Approximately 600 wideband lightning sensors deployed globally
- Continuous global expansion underway

ENTLN advantages:

- Cost-effective sensor technology enables dense network build-out on a large scale
- Flexible scalable network architecture enables deployment of hosted or standalone configurations
- Very low ongoing maintenance and operational costs
12.16.10 - Brisbane, Australia: ENTLN detects high density of IC and CG lightning. Storm cell tracking and Dangerous Thunderstorm Alert polygons are also highlighted. Cloud-to-ground lightning blamed for one fatality.

01.12.11 - São Paulo, Brazil: Brazilian Total Lightning Network (BTLN) detects heavy IC and CG lightning which generates Dangerous Thunderstorm Alerts (polygons) on São Paulo. Storm generated deadly catastrophic flooding near Rio.

**Multi-Functional, Wideband system for Unmatched System Performance and Aerial Coverage**

- State-of-the-art wideband total lightning sensors
- Unsurpassed detection efficiency and location accuracy
- Complete waveform collection and IC/CG classification
- Remote system diagnostics and upgrade capabilities
- Comprehensive maintenance with 24 x 7 network monitoring and support
- Only cost-effective solution for national (broad area) IC coverage

**Single Locations • Limited Areas of Interest • Global Scale Coverage**

Earth Networks combines its lightning detection capabilities with its network design and deployment expertise to deliver a scalable total lightning solution. This translates into significant improvements in severe storm warning lead times and associated asset protection. Combined with advanced analytics and display capabilities, Earth Networks solutions meet the needs of weather sensitive users and industries worldwide including:

<table>
<thead>
<tr>
<th>Federal and National Governments</th>
<th>Aviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Utilities</td>
<td>Energy</td>
</tr>
<tr>
<td>Public Safety</td>
<td>Shipping</td>
</tr>
<tr>
<td>Sports and Recreation</td>
<td>Education</td>
</tr>
<tr>
<td>GSA Part Number</td>
<td>Area/ License</td>
</tr>
<tr>
<td>----------------</td>
<td>---------------</td>
</tr>
<tr>
<td><strong>Data Feed</strong></td>
<td>50 mix 50 mi or 25-mile radius</td>
</tr>
<tr>
<td></td>
<td>Site license</td>
</tr>
<tr>
<td><strong>Data Feed</strong></td>
<td>100 mix 100 mi or 50-mile radius</td>
</tr>
<tr>
<td></td>
<td>Site license</td>
</tr>
<tr>
<td><strong>Data Feed</strong></td>
<td>120 mix 120 mi or 60-mile radius</td>
</tr>
<tr>
<td></td>
<td>Site license</td>
</tr>
<tr>
<td><strong>Data Feed</strong></td>
<td>150 mix 150 mi or 75-mile radius</td>
</tr>
<tr>
<td></td>
<td>Site license</td>
</tr>
<tr>
<td><strong>Data Feed</strong></td>
<td>300 mix 300 mi or 150-mile radius</td>
</tr>
<tr>
<td></td>
<td>Site license</td>
</tr>
<tr>
<td><strong>Data Feed</strong></td>
<td>600 mix 600 mi or 300-mile radius</td>
</tr>
<tr>
<td></td>
<td>Site license</td>
</tr>
<tr>
<td><strong>Data Feed</strong></td>
<td>1000 mix 1000 mi or 500-mile radius</td>
</tr>
<tr>
<td></td>
<td>Site license</td>
</tr>
<tr>
<td><strong>Data Feed</strong></td>
<td>1500 mix 1500 mi or 750-mile radius</td>
</tr>
<tr>
<td></td>
<td>Site license</td>
</tr>
<tr>
<td><strong>Data Feed</strong></td>
<td>Full CONUS</td>
</tr>
<tr>
<td></td>
<td>Site license</td>
</tr>
<tr>
<td><strong>Data Feed</strong></td>
<td>Full CONUS</td>
</tr>
</tbody>
</table>

**Definitions:**
- CONUS-Encompasses inside the Continental United States and adjacent surrounding areas
- CG - Cloud-To-Ground lightning activity plus survey level cloud lightning data
- TL - Total lightning including both comprehensive In-cloud (IC) and Cloud-To-Ground (CG) lightning activity
- A Single User is defined as one unique user at one physical location displaying ENTLN data on a traditional personal or laptop computer monitor
- A Site License is defined as any number of unique users at one physical location displaying WTLN data on a traditional personal or laptop computer monitors
- Enterprise/Agency license is defined as ability to use data/product by any number of users within procuring agency
- Monthly Pricing is based on a minimum one-year commitment.
- Volume discounts offered of 5% for $10,000, and 10% for $20,000 monthly levels.
- Data may not be redistributed outside of purchasing agency unless otherwise permitted in writing.
## Earth Networks Total Lightning Network - OCONUS

### GSA Pricing

<table>
<thead>
<tr>
<th>GSA Part Number</th>
<th>Area/ License</th>
<th>Cloud-To-Ground (CG) Prices (Monthly)</th>
<th>Total Lightning (IC+CG) Prices (Monthly)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Data Feed</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50 mix 50 mi or 25-mile radius</td>
<td></td>
<td>$24.00</td>
<td>$72.00</td>
</tr>
<tr>
<td>Single user</td>
<td></td>
<td>$56.00</td>
<td>$168.00</td>
</tr>
<tr>
<td>Site license</td>
<td></td>
<td>$92.00</td>
<td>$276.00</td>
</tr>
<tr>
<td><strong>Data Feed</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100 mix 100 mi or 50-mile radius</td>
<td></td>
<td>$40.00</td>
<td>$120.00</td>
</tr>
<tr>
<td>Single user</td>
<td></td>
<td>$92.00</td>
<td>$276.00</td>
</tr>
<tr>
<td>Site license</td>
<td></td>
<td>$120.00</td>
<td>$360.00</td>
</tr>
<tr>
<td><strong>Data Feed</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>120 mix 120 mi or 60-mile radius</td>
<td></td>
<td>$12.00</td>
<td>$144.00</td>
</tr>
<tr>
<td>Single user</td>
<td></td>
<td>$27.00</td>
<td>$324.00</td>
</tr>
<tr>
<td>Site license</td>
<td></td>
<td>$27.00</td>
<td>$324.00</td>
</tr>
<tr>
<td><strong>Data Feed</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>150 mix 150 mi or 75-mile radius</td>
<td></td>
<td>$80.00</td>
<td>$240.00</td>
</tr>
<tr>
<td>Single user</td>
<td></td>
<td>$184.00</td>
<td>$552.00</td>
</tr>
<tr>
<td>Site license</td>
<td></td>
<td>$120.00</td>
<td>$360.00</td>
</tr>
<tr>
<td><strong>Data Feed</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>300 mix 300 mi or 150-mile radius</td>
<td></td>
<td>$120.00</td>
<td>$360.00</td>
</tr>
<tr>
<td>Single user</td>
<td></td>
<td>$276.00</td>
<td>$828.00</td>
</tr>
<tr>
<td>Site license</td>
<td></td>
<td>$276.00</td>
<td>$828.00</td>
</tr>
<tr>
<td><strong>Data Feed</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>600 mix 600 mi or 300-mile radius</td>
<td></td>
<td>$232.00</td>
<td>$696.00</td>
</tr>
<tr>
<td>Single user</td>
<td></td>
<td>$528.00</td>
<td>$1,584.00</td>
</tr>
<tr>
<td>Site license</td>
<td></td>
<td>$528.00</td>
<td>$1,584.00</td>
</tr>
<tr>
<td><strong>Data Feed</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1000 mix 1000 mi or 500-mile radius</td>
<td></td>
<td>$440.00</td>
<td>$1,320.00</td>
</tr>
<tr>
<td>Single user</td>
<td></td>
<td>$1,000.00</td>
<td>$3,000.00</td>
</tr>
<tr>
<td>Site license</td>
<td></td>
<td>$1,000.00</td>
<td>$3,000.00</td>
</tr>
<tr>
<td><strong>Data Feed</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1500 mix 1500 mi or 750-mile radius</td>
<td></td>
<td>$560.00</td>
<td>$1,680.00</td>
</tr>
<tr>
<td>Single user</td>
<td></td>
<td>$1,280.00</td>
<td>$3,840.00</td>
</tr>
<tr>
<td>Site license</td>
<td></td>
<td>$1,280.00</td>
<td>$3,840.00</td>
</tr>
<tr>
<td><strong>Data Feed</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FullOCONUS</td>
<td></td>
<td>Call for Pricing</td>
<td>Call for Pricing</td>
</tr>
<tr>
<td>Single user</td>
<td></td>
<td>$680.00</td>
<td>$2,040.00</td>
</tr>
<tr>
<td>Site license</td>
<td></td>
<td>$1,560.00</td>
<td>$4,680.00</td>
</tr>
</tbody>
</table>

### Definitions:
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National Mesonet Observational Data Description

Observational Data

Earth Networks is pleased to offer the full range of observational data, in furtherance of the effort to establish a National Mesonet. The data sets being offered could be either site-specific or mobile, and are priced on an annual basis per site (see attached pricing sheet). The data is temporally frequent, reliable, quality controlled, accompanied by metadata, and sourced through existing networks that adhere to all appropriate maintenance, support and repair standards.

Earth Networks has been a long time leader in the development and operation of mesonets. Since 1993, Earth Networks has continually operated, maintained and expanded the Earth Networks observational platforms which today is comprised of more than 8,000 meteorological observing stations reporting real-time weather information throughout North America. Data from this sophisticated network serves a broad spectrum of mission critical end-users and constituencies in the commercial and government arenas including; local, state and federal (NOAA/NWS) government agencies, energy generators and utility operators, sports & recreation, first responders, educational teaching and research, media, online portals and consumers.

The data being offered through this submission is well known to NOAA. Earth Networks is proud to have a long standing relationship with the National Oceanic and Atmospheric Administration’s National Weather Service (NOAA/NWS). This relationship was formalized via a memorandum of understanding for data sharing in 2002 and continually renewed and expanded to present day. Similarly, Earth Networks has been working collaboratively with NOAA on the UrbaNet program since 2004. As such, the NWS has come to rely on the Earth Networks observational platforms in support of its defined mission to protect life and property and the enhancement of the national economy.

To best meet the needs of the government, as outlined in the previous section, Earth Networks has solidified enterprise wide relationships for collection and distribution of in-situ surface observations from desperate networks across the county. Individual network operators, such as the Oklahoma Mesonet, own and operate these expansive, high quality observing systems that monitor meteorological and environmental (soil) variables.
Data from these networks are collected in near real-time, databased, quality controlled and redistributed to specific populations of end users and constituencies. Additionally, a comprehensive set of associated metadata for each observing location is assembled, updated and made available to end users.

Weather Stations from the Oklahoma Mesonet and Earth Networks observational platforms

Observed Variables

Typical atmospheric variables measured from these meteorological observation sites include; temperature, dew point, winds, pressure (altimeter or sea level pressure) and precipitation. For those sites equipped with soil sensing devices, the following parameter are typical observed; temperature and moisture soil observations collected at standardized levels below the ground level.

Observational Variables

<table>
<thead>
<tr>
<th>Observation Type</th>
<th>Variables</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atmospheric Observations</td>
<td>temperature, dew point, winds, pressure (altimeter or sea level pressure), precipitation</td>
</tr>
</tbody>
</table>
**Metadata**

Comprehensive site metadata data describing each location is also collected by the network operators. The collection and availability of appropriate metadata is critical to the evaluation and harmonization of disparate data sources as well as for a complete and thorough understanding as to the limitations or utility of information from particular sites. Below is a table detailing the typical metadata variables collected for each observation site:

<table>
<thead>
<tr>
<th>Variable (unit)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal/Vertical Coordinate Reference Datum</td>
<td>Horizontal and vertical reference datum used for latitude and longitude measurement</td>
</tr>
<tr>
<td>Latitude (decimal degrees)</td>
<td>Latitude at the base of the center of the observing station</td>
</tr>
<tr>
<td>Longitude (decimal degrees)</td>
<td>Longitude at the base of the center of the observing station</td>
</tr>
<tr>
<td>Elevation (m)</td>
<td>Elevation above mean sea level at the base of the center of the observing station</td>
</tr>
<tr>
<td>Station Name</td>
<td>Unique name for each site (e.g., Norman - NORM); note that there could be multiple stations at a single site.</td>
</tr>
<tr>
<td>Site Location Information:</td>
<td>County - where the site is located</td>
</tr>
<tr>
<td></td>
<td>Name - of the nearest city or incorporated town</td>
</tr>
<tr>
<td>To include some or all of the following</td>
<td>Site Location - the site legal description (as used by tax assessors) or a description of the location with respect to known landmarks (e.g., distance and direction from a major intersection)</td>
</tr>
<tr>
<td></td>
<td>Site Description - documentation of the site terrain, land use, and land cover</td>
</tr>
<tr>
<td></td>
<td>Driving Directions - description of how to drive to the station for maintenance purposes</td>
</tr>
<tr>
<td></td>
<td>Site Host - name and contact information for the host of the site location, especially if the site is not on federal property</td>
</tr>
<tr>
<td>Station Identifier</td>
<td>Unique identifier for each station (e.g., 72353, CRRLS)</td>
</tr>
<tr>
<td>Station Photographs</td>
<td>Photographs that fully document the landscape around (toward and away) the station on a documented date</td>
</tr>
<tr>
<td>Station Obstructions</td>
<td>Documentation of obstructions within 50 meters of the center of the station with photos from each site serving to document obstructions further from the site</td>
</tr>
<tr>
<td>Station Dates</td>
<td>Important dates for the station, including its installation, commissioning, and decommissioning dates, first observation, etc.,</td>
</tr>
<tr>
<td>Variable (unit)</td>
<td>Notes</td>
</tr>
<tr>
<td>----------------</td>
<td>-------</td>
</tr>
<tr>
<td>Communications Information</td>
<td>Dependent on the method of communication, but may include the Internet protocol (IP) address, radio frequency (RF) identification node, or cellular phone number</td>
</tr>
<tr>
<td></td>
<td>Antenna type, gain, azimuth (deg), inclination (deg), and height (m), if appropriate</td>
</tr>
<tr>
<td>Sensor Characteristics:</td>
<td></td>
</tr>
<tr>
<td>To include some or all of the following</td>
<td></td>
</tr>
<tr>
<td>Sensor or Device Identifier - unique identifier for each sensor, communications device, data logger, or other device (e.g., serial number)</td>
<td></td>
</tr>
<tr>
<td>Sensor Manufacturer - name of the manufacturer of the sensor or other device</td>
<td></td>
</tr>
<tr>
<td>Sensor Model Number (or name) - model number (or name) of the sensor, as provided by the manufacturer or vendor</td>
<td></td>
</tr>
<tr>
<td>Sensor (or device) Dates - important dates for each sensor (or other devices), including date purchased, date received, date calibrated, date installed, date removed, and date destroyed</td>
<td></td>
</tr>
<tr>
<td>Sensor Collection Frequency (min, or other unit of time) - number of minutes (or other unit of time) between collection cycles for automated sensors collecting at fixed intervals</td>
<td></td>
</tr>
<tr>
<td>Sensor Calibration Information - important calibration information, including date sensor entered lab, date calibrated, date exited lab, and calibration coefficients (a single sensor may have multiple calibration coefficients during its lifetime)</td>
<td></td>
</tr>
<tr>
<td>Sensor Maintenance Information - important maintenance information, including start and end date/time for maintenance, technician name, sensor replaced, sensor inter-comparison results, and description of procedures used to resolve any sensor problems</td>
<td></td>
</tr>
</tbody>
</table>

**Quality Assurance and Maintenance**

Mesonet operators are also distinctive due to their detailed quality assurance and maintenance programs. For data from networks to be of value to a broad constituency base charged with addressing a variety of weather and climate needs, the data included in the National Mesonet must be of high quality, reliable, and current. The Earth Networks networks therefore adhere to stringent professional standards, utilizing robust, commercial grade instrumentation, and possessing teams of trained and experience field technicians. In this way, a base level of quality assurance can be established thereby ensuring reliability and timeliness of data delivery to end users.

**Network Infrastructure and Data Handling**

Moreover, Earth Networks has sophisticated back-end infrastructure, capabilities and expertise to consistently perform the data handling functions required of an operational network including system ingest, monitoring and data validation. This back-end capacity is an integral part of the products being offered and meets the requirements set out by NOAA, specifically that:
• The vendor shall develop infrastructure, in coordination with Government, to efficiently and routinely update station observations and metadata, including archiving of significant station changes
• The vendor shall design, develop, implement performance monitoring capability, in coordination with the Government, to validate observations and metadata quality and attribute scope

### National Mesonet Pricing Pricing

<table>
<thead>
<tr>
<th>Category</th>
<th>Observational Data Fee (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atmospheric Observations</td>
<td>$3,600</td>
</tr>
</tbody>
</table>

**Notes:**

- Pricing based on observational data from a single station per year
- Data may not be redistributed outside of purchasing agency unless otherwise permitted in writing
- Atmospheric observations include, at a minimum, the following parameters; temperature, dew point, winds, pressure (altimeter or sea level pressure), precipitation
- Site metadata will be provided initially, updated periodically and include details relating to the following components as appropriate; station/location information (name, site identifier, latitude, longitude, elevation, terrain description), photographs, obstructions, communications equipment, sensor characteristics (device identifier, manufacturer, model), maintenance records
- Reporting of observations will be no less frequent than 15 minutes and include at a minimum reports for 5-minute intervals during the previous hour. Observations may be gathered at a frequency of 2 seconds.
- See Above Product Description for additional details
INFORMATION FOR ORDERING ACTIVITIES
APPLICABLE TO ALL SPECIAL ITEM NUMBERS

SPECIAL NOTICE TO AGENCIES: Small Business Participation
SBA strongly supports the participation of small business concerns in the Federal Acquisition Service. To enhance Small Business Participation SBA policy allows agencies to include in their procurement base and goals, the dollar value of orders expected to be placed against the Federal Supply Schedules, and to report accomplishments against these goals.

For orders exceeding the micropurchase threshold, FAR 8.404 requires agencies to consider the catalogs/pricelists of at least three schedule contractors or consider reasonably available information by using the GSA Advantage!™ on-line shopping service (www.gsaadvantage.gov). The catalogs/pricelists, GSA Advantage!™ and the Federal Acquisition Service Home Page (www.fss.gsa.gov) contain information on a broad array of products and services offered by small business concerns.

This information should be used as a tool to assist ordering activities in meeting or exceeding established small business goals. It should also be used as a tool to assist in including small, small disadvantaged, and women-owned small businesses among those considered when selecting pricelists for a best value determination.

For orders exceeding the micropurchase threshold, customers are to give preference to small business concerns when two or more items at the same delivered price will satisfy their requirement.

1. GEOGRAPHIC SCOPE OF CONTRACT:
Domestic delivery is delivery within the 48 contiguous states, Alaska, Hawaii, Puerto Rico, Washington, DC, and U.S. Territories. Domestic delivery also includes a port or consolidation point, within the aforementioned areas, for orders received from overseas activities.

Oversea delivery is delivery to points outside of the 48 contiguous states, Washington, DC, Alaska, Hawaii, Puerto Rico, and U.S. Territories.

Offerors are requested to check one of the following boxes:

[ ] The Geographic Scope of Contract will be domestic and overseas delivery.
[ ] The Geographic Scope of Contract will be overseas delivery only.
[ X ] The Geographic Scope of Contract will be domestic delivery only.

2. CONTRACTOR’S ORDERING ADDRESS AND PAYMENT INFORMATION:
Earth Networks, Inc.
12410 Milestone Center Drive
Germantown, MD 20876

Contractor must accept the credit card for payments equal to or less than the micro-purchase for oral or written orders under this contract. The Contractor and the ordering agency may use the credit card for dollar amounts over the micro-purchase threshold (See GSAR 552.232-79 Payment by Credit Card). In addition, bank account information for wire transfer payments will be shown on the invoice.

The following telephone number(s) can be used by ordering activities to obtain technical and/or ordering assistance:
1-800-544-4429
3. LIABILITY FOR INJURY OR DAMAGE
The Contractor shall not be liable for any injury to ordering activity personnel or damage to ordering activity
property arising from the use of equipment maintained by the Contractor, unless such injury or damage is due to the
fault or negligence of the Contractor.

4. STATISTICAL DATA FOR GOVERNMENT ORDERING OFFICE COMPLETION OF
STANDARD FORM 279:
Block 9: G. Order/Modification Under Federal Schedule 70
Block 16: Data Universal Numbering System (DUNS) Number: 80-188-5047
Block 30: Type of Contractor - C
   A. Small Disadvantaged Business
   B. Other Small Business
   C. Large Business
   G. Other Nonprofit Organization
   L. Foreign Contractor
Block 31: Woman-Owned Small Business - No
Block 36: Contractor's Taxpayer Identification Number (TIN): 52-2252566

4a. CAGE Code: 03AM4
b. Contractor has registered with the Central Contractor Registration Database.

5. FOB DESTINATION
N/A – Software is web based. Delivery is over the Internet

6. DELIVERY SCHEDULE
a. TIME OF DELIVERY: The Contractor shall deliver to destination within the number of calendar days
after receipt of order (ARO), as set forth below:

<table>
<thead>
<tr>
<th>SPECIAL ITEM NUMBER</th>
<th>DELIVERY TIME (Days ARO)</th>
</tr>
</thead>
<tbody>
<tr>
<td>132-32</td>
<td>2 Days</td>
</tr>
<tr>
<td>132-51</td>
<td>TBD</td>
</tr>
</tbody>
</table>

b. URGENT REQUIREMENTS: When the Federal Supply Schedule contract delivery period does not meet
the bona fide urgent delivery requirements of an ordering activity, ordering activities are encouraged, if time
permits, to contact the Contractor for the purpose of obtaining accelerated delivery. The Contractor shall reply to
the inquiry within 3 workdays after receipt. (Telephonic replies shall be confirmed by the Contractor in writing.) If
the Contractor offers an accelerated delivery time acceptable to the ordering activity, any order(s) placed pursuant to
the agreed upon accelerated delivery time frame shall be delivered within this shorter delivery time and in
accordance with all other terms and conditions of the contract.

7. DISCOUNTS: Prices shown are NET Prices; Basic Discounts have been deducted.
a. Prompt Payment: None
b. Quantity - None
c. Dollar Volume - None
d. Government Educational Institutions - None
e. Other
8. TRADE AGREEMENTS ACT OF 1979, as amended:
All items are U.S. made end products, designated country end products, Caribbean Basin country end products, Canadian end products, or Mexican end products as defined in the Trade Agreements Act of 1979, as amended.

9. STATEMENT CONCERNING AVAILABILITY OF EXPORT PACKING:
None

10. SMALL REQUIREMENTS: The minimum dollar value of orders to be issued is $100.00.

11. MAXIMUM ORDER (All dollar amounts are exclusive of any discount for prompt payment.)
a. The Maximum Order value for the following Special Item Numbers (SINs) is None
   Special Item Number 511210 – Earth Observations Solutions

12. ORDERING PROCEDURES FOR FEDERAL SUPPLY SCHEDULE CONTRACTS
Ordering activities shall use the ordering procedures of Federal Acquisition Regulation (FAR) 8.405 when placing an order or establishing a BPA for supplies or services. These procedures apply to all schedules.
   a. FAR 8.405-1 Ordering procedures for supplies, and services not requiring a statement of work.
   b. FAR 8.405-2 Ordering procedures for services requiring a statement of work.

13. FEDERAL INFORMATION TECHNOLOGY/TELECOMMUNICATION STANDARDS REQUIREMENTS:
Ordering activities acquiring products from this Schedule must comply with the provisions of the Federal Standards Program, as appropriate (reference: NIST Federal Standards Index). Inquiries to determine whether or not specific products listed herein comply with Federal Information Processing Standards (FIPS) or Federal Telecommunication Standards (FED-STDS), which are cited by ordering activities, shall be responded to promptly by the Contractor.

13.1 FEDERAL INFORMATION PROCESSING STANDARDS PUBLICATIONS (FIPS PUBS):
Information Technology products under this Schedule that do not conform to Federal Information Processing Standards (FIPS) should not be acquired unless a waiver has been granted in accordance with the applicable "FIPS Publication." Federal Information Processing Standards Publications (FIPS PUBS) are issued by the U.S. Department of Commerce, National Institute of Standards and Technology (NIST), pursuant to National Security Act. Information concerning their availability and applicability should be obtained from the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, Virginia 22161. FIPS PUBS include voluntary standards when these are adopted for Federal use. Individual orders for FIPS PUBS should be referred to the NTIS Sales Office, and orders for subscription service should be referred to the NTIS Subscription Officer, both at the above address, or telephone number (703) 487-4650.

13.2 FEDERAL TELECOMMUNICATION STANDARDS (FED-STDS):
Telecommunication products under this Schedule that do not conform to Federal Telecommunication Standards (FED-STDS) should not be acquired unless a waiver has been granted in accordance with the applicable "FED-STD." Federal Telecommunication Standards are issued by the U.S. Department of Commerce, National Institute of Standards and Technology (NIST), pursuant to National Security Act. Ordering information and information concerning the availability of FED-STDS should be obtained from the GSA, Federal Acquisition Service, Specification Section, 470 East L’Enfant Plaza, Suite 8100, SW, Washington, DC 20407, telephone number (202)619-8925. Please include a self-addressed mailing label when requesting information by mail. Information concerning their applicability can be obtained by writing or calling the U.S. Department of Commerce, National Institute of Standards and Technology, Gaithersburg, MD 20899, telephone number (301)975-2833.
14. **CONTRACTOR TASKS / SPECIAL REQUIREMENTS (C-FSS-370) (NOV 2003)**

(a) Security Clearances: The Contractor may be required to obtain/possess varying levels of security clearances in the performance of orders issued under this contract. All costs associated with obtaining/possessing such security clearances should be factored into the price offered under the Multiple Award Schedule.

(b) Travel: The Contractor may be required to travel in performance of orders issued under this contract. Allowable travel and per diem charges are governed by Pub. L. 99-234 and FAR Part 31, and are reimbursable by the ordering agency or can be priced as a fixed price item on orders placed under the Multiple Award Schedule. Travel in performance of a task order will only be reimbursable to the extent authorized by the ordering agency. The Industrial Funding Fee does NOT apply to travel and per diem charges.

(c) Certifications, Licenses and Accreditations: As a commercial practice, the Contractor may be required to obtain/possess any variety of certifications, licenses and accreditations for specific FSC/service code classifications offered. All costs associated with obtaining/possessing such certifications, licenses and accreditations should be factored into the price offered under the Multiple Award Schedule program.

(d) Insurance: As a commercial practice, the Contractor may be required to obtain/possess insurance coverage for specific FSC/service code classifications offered. All costs associated with obtaining/possessing such insurance should be factored into the price offered under the Multiple Award Schedule program.

(e) Personnel: The Contractor may be required to provide key personnel, resumes or skill category descriptions in the performance of orders issued under this contract. Ordering activities may require agency approval of additions or replacements to key personnel.

(f) Organizational Conflicts of Interest: Where there may be an organizational conflict of interest as determined by the ordering agency, the Contractor’s participation in such order may be restricted in accordance with FAR Part 9.5.

(g) Documentation/Standards: The Contractor may be requested to provide products or services in accordance with rules, regulations, OMB orders, standards and documentation as specified by the agency’s order.

(h) Data/Deliverable Requirements: Any required data/deliverables at the ordering level will be as specified or negotiated in the agency’s order.

(i) Government-Furnished Property: As specified by the agency’s order, the Government may provide property, equipment, materials or resources as necessary.

(j) Availability of Funds: Many Government agencies’ operating funds are appropriated for a specific fiscal year. Funds may not be presently available for any orders placed under the contract or any option year. The Government’s obligation on orders placed under this contract is contingent upon the availability of appropriated funds from which payment for ordering purposes can be made. No legal liability on the part of the Government for any payment may arise until funds are available to the ordering Contracting Officer.

(k) Overtime: For professional services, the labor rates in the Schedule should not vary by virtue of the Contractor having worked overtime. For services applicable to the Service Contract Act (as identified in the Schedule), the labor rates in the Schedule will vary as governed by labor laws (usually assessed a time and a half of the labor rate).

15. **CONTRACT ADMINISTRATION FOR ORDERING ACTIVITIES:** Any ordering activity, with respect to any one or more delivery orders placed by it under this contract, may exercise the same rights of termination as might the GSA Contracting Officer under provisions of FAR 52.212-4, paragraphs (l) Termination for the ordering activity’s convenience, and (m) Termination for Cause (See 52.212-4)
16. **GSA ADVANTAGE!**

GSA Advantage! is an on-line, interactive electronic information and ordering system that provides on-line access to vendors' schedule prices with ordering information. GSA Advantage! will allow the user to perform various searches across all contracts including, but not limited to:

1. Manufacturer;
2. Manufacturer's Part Number; and
3. Product categories.

Agencies can browse GSA Advantage! by accessing the Internet World Wide Web utilizing a browser (ex.: NetScape). The Internet address is http://www.gsaadvantage.gov

17. **PURCHASE OF OPEN MARKET ITEMS**

NOTE: Open Market Items are also known as incidental items, noncontract items, non-Schedule items, and items not on a Federal Supply Schedule contract. ODCs (Other Direct Costs) are not part of this contract and should be treated as open market purchases. Ordering Activities procuring open market items must follow FAR 8.402(f).

For administrative convenience, an ordering activity contracting officer may add items not on the Federal Supply Multiple Award Schedule (MAS) -- referred to as open market items -- to a Federal Supply Schedule blanket purchase agreement (BPA) or an individual task or delivery order, **only if**:

1. All applicable acquisition regulations pertaining to the purchase of the items not on the Federal Supply Schedule have been followed (e.g., publicizing (Part 5), competition requirements (Part 6), acquisition of commercial items (Part 12), contracting methods (Parts 13, 14, and 15), and small business programs (Part 19));
2. The ordering activity contracting officer has determined the price for the items not on the Federal Supply Schedule is fair and reasonable;
3. The items are clearly labeled on the order as items not on the Federal Supply Schedule; and
4. All clauses applicable to items not on the Federal Supply Schedule are included in the order.

18. **CONTRACTOR COMMITMENTS, WARRANTIES AND REPRESENTATIONS**

a. For the purpose of this contract, commitments, warranties and representations include, in addition to those agreed to for the entire schedule contract:

1. Time of delivery/installation quotations for individual orders;
2. Technical representations and/or warranties of products concerning performance, total system performance and/or configuration, physical, design and/or functional characteristics and capabilities of a product/equipment/service/software package submitted in response to requirements which result in orders under this schedule contract.
3. Any representations and/or warranties concerning the products made in any literature, description, drawings and/or specifications furnished by the Contractor.

b. The above is not intended to encompass items not currently covered by the GSA Schedule contract.

19. **OVERSEAS ACTIVITIES**

The terms and conditions of this contract shall apply to all orders for installation, maintenance and repair of equipment in areas listed in the pricelist outside the 48 contiguous states and the District of Columbia, except as indicated below:
Upon request of the Contractor, the ordering activity may provide the Contractor with logistics support, as available, in accordance with all applicable ordering activity regulations. Such ordering activity support will be provided on a reimbursable basis, and will only be provided to the Contractor's technical personnel whose services are exclusively required for the fulfillment of the terms and conditions of this contract.

20. **BLANKET PURCHASE AGREEMENTS (BPAs)**

The use of BPAs under any schedule contract to fill repetitive needs for supplies or services is allowable. BPAs may be established with one or more schedule contractors. The number of BPAs to be established is within the discretion of the ordering activity establishing the BPA and should be based on a strategy that is expected to maximize the effectiveness of the BPA(s). Ordering activities shall follow FAR 8.405-3 when creating and implementing BPA(s).

21. **CONTRACTOR TEAM ARRANGEMENTS**

Contractors participating in contractor team arrangements must abide by all terms and conditions of their respective contracts. This includes compliance with Clauses 552.238-74, Industrial Funding Fee and Sales Reporting, i.e., each contractor (team member) must report sales and remit the IFF for all products and services provided under its individual contract.

22. **INSTALLATION, DEINSTALLATION, REINSTALLATION**

The Davis-Bacon Act (40 U.S.C. 276a-276a-7) provides that contracts in excess of $2,000 to which the United States or the District of Columbia is a party for construction, alteration, or repair (including painting and decorating) of public buildings or public works with the United States, shall contain a clause that no laborer or mechanic employed directly upon the site of the work shall received less than the prevailing wage rates as determined by the Secretary of Labor. The requirements of the Davis-Bacon Act do not apply if the construction work is incidental to the furnishing of supplies, equipment, or services. For example, the requirements do not apply to simple installation or alteration of a public building or public work that is incidental to furnishing supplies or equipment under a supply contract. However, if the construction, alteration or repair is segregable and exceeds $2,000, then the requirements of the Davis-Bacon Act applies.

The ordering activity issuing the task order against this contract will be responsible for proper administration and enforcement of the Federal labor standards covered by the Davis-Bacon Act. The proper Davis-Bacon wage determination will be issued by the ordering activity at the time a request for quotations is made for applicable construction classified installation, deinstallation, and reinstallation services under SIN 132-8 or 132-9.

23. **SECTION 508 COMPLIANCE.**

If applicable, Section 508 compliance information on the supplies and services in this contract are available in Electronic and Information Technology (EIT) at the following:

> Not Applicable. The data available under this contract is designed to be visualized.


The EIT standard can be found at: [www.Section508.gov/](http://www.Section508.gov/).

24. **PRIME CONTRACTOR ORDERING FROM FEDERAL SUPPLY SCHEDULES.**

Prime Contractors (on cost reimbursement contracts) placing orders under Federal Supply Schedules, on behalf of an ordering activity, shall follow the terms of the applicable schedule and authorization and include with each order –

(a) A copy of the authorization from the ordering activity with whom the contractor has the prime contract (unless a copy was previously furnished to the Federal Supply Schedule contractor); and
The following statement:

This order is placed under written authorization from _______ dated _______. In the event of any inconsistency between the terms and conditions of this order and those of your Federal Supply Schedule contract, the latter will govern.

25. INSURANCE—WORK ON A GOVERNMENT INSTALLATION (JAN 1997) (FAR 52.228-5)

(a) The Contractor shall, at its own expense, provide and maintain during the entire performance of this contract, at least the kinds and minimum amounts of insurance required in the Schedule or elsewhere in the contract.

(b) Before commencing work under this contract, the Contractor shall notify the Contracting Officer in writing that the required insurance has been obtained. The policies evidencing required insurance shall contain an endorsement to the effect that any cancellation or any material change adversely affecting the Government's interest shall not be effective—

(1) For such period as the laws of the State in which this contract is to be performed prescribe; or

(2) Until 30 days after the insurer or the Contractor gives written notice to the Contracting Officer, whichever period is longer.

(c) The Contractor shall insert the substance of this clause, including this paragraph (c), in subcontracts under this contract that require work on a Government installation and shall require subcontractors to provide and maintain the insurance required in the Schedule or elsewhere in the contract. The Contractor shall maintain a copy of all subcontractors’ proofs of required insurance, and shall make copies available to the Contracting Officer upon request.

26. SOFTWARE INTEROPERABILITY.

Offerors are encouraged to identify within their software items any component interfaces that support open standard interoperability. An item’s interface may be identified as interoperable on the basis of participation in a Government agency-sponsored program or in an independent organization program. Interfaces may be identified by reference to an interface registered in the component registry located at http://www.core.gov.

27. ADVANCE PAYMENTS

A payment under this contract to provide a service or deliver an article for the United States Government may not be more than the value of the service already provided or the article already delivered. Advance or pre-payment is not authorized or allowed under this contract. (31 U.S.C. 3324)
<table>
<thead>
<tr>
<th>USA COMMITMENT TO PROMOTE SMALL BUSINESS PARTICIPATION PROCUREMENT PROGRAMS</th>
</tr>
</thead>
</table>

**PREAMBLE**

(Name of Company) provides commercial products and services to ordering activities. We are committed to promoting participation of small, small disadvantaged and women-owned small businesses in our contracts. We pledge to provide opportunities to the small business community through reselling opportunities, mentor-protégé programs, joint ventures, teaming arrangements, and subcontracting.

**COMMITMENT**

To actively seek and partner with small businesses.

To identify, qualify, mentor and develop small, small disadvantaged and women-owned small businesses by purchasing from these businesses whenever practical.

To develop and promote company policy initiatives that demonstrate our support for awarding contracts and subcontracts to small business concerns.

To undertake significant efforts to determine the potential of small, small disadvantaged and women-owned small business to supply products and services to our company.

To insure procurement opportunities are designed to permit the maximum possible participation of small, small disadvantaged, and women-owned small businesses.

To attend business opportunity workshops, minority business enterprise seminars, trade fairs, procurement conferences, etc., to identify and increase small businesses with whom to partner.

To publicize in our marketing publications our interest in meeting small businesses that may be interested in subcontracting opportunities.

We signify our commitment to work in partnership with small, small disadvantaged and women-owned small businesses to promote and increase their participation in ordering activity contracts. To accelerate potential opportunities please contact: Daniel W. O’Connell, General Counsel, Earth Networks, Inc., 12410 Milestone Center Drive, Germantown, MD 20876, 301-250-4145, [doconnell@earthnetworks.com](mailto:doconnell@earthnetworks.com)