



Department of the Interior Geospatial Update

Jerry Johnston

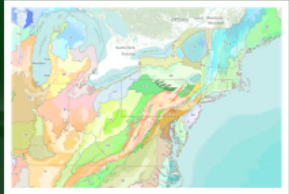
2012 Esri International User Conference
MAPPS Luncheon
7/24/12

HOME GALLERY MAP GROUPS MY CONTENT


Welcome to the
Geospatial Platform


The Geospatial Platform provides shared and trusted geospatial data, services, and applications for use by government agencies, their partners and the public


Featured Map:



United States Omernik Ecoregions

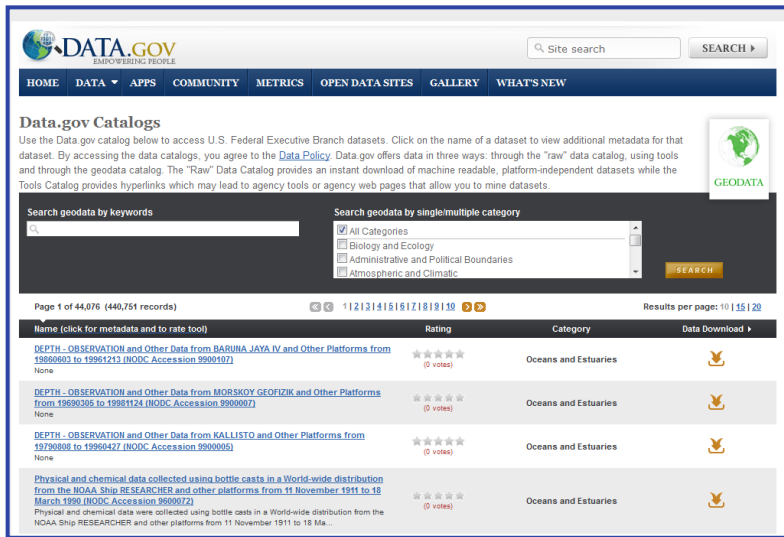
Featured Maps  Explore featured maps and apps from all levels of government.

Collaborate in Groups  Work in public and private groups with others who share your interests and ideas.

Build Your Own Map  Create a map you can view anywhere on any device and share with anyone.

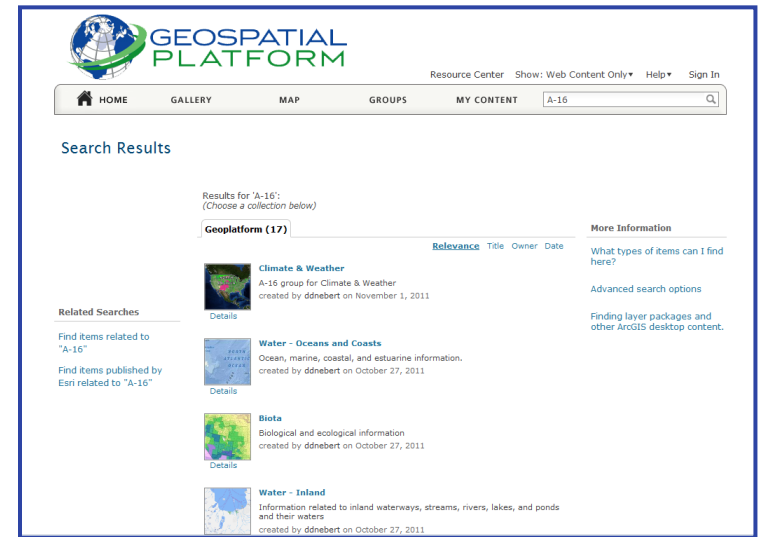
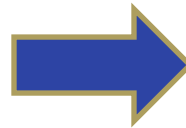
The Geospatial Platform provides a suite of well-managed, highly available, and trusted geospatial data, services, and applications for use by Federal agencies and their partners.

Data: The Geospatial Platform showcases National Geospatial Data Assets (NGDA)



The screenshot shows the Data.gov homepage with a search bar and navigation menu. Below the header, there's a section for "Data.gov Catalogs" with a search form. The search results table is as follows:

Name (click for metadata and to rate tool)	Rating	Category	Data Download
DEPTH - OBSERVATION and Other Data from BARUNA JAYA IV and Other Platforms from 19890603 to 19967411 (NOOC Accession 9900107)	★★★★ (0 votes)	Oceans and Estuaries	
DEPTH - OBSERVATION and Other Data from MORSKOY GEOfIZIK and Other Platforms from 19690305 to 19881124 (NOOC Accession 9900007)	★★★★ (0 votes)	Oceans and Estuaries	
DEPTH - OBSERVATION and Other Data from KALLISTO and Other Platforms from 19790808 to 19960427 (NOOC Accession 9900005)	★★★★ (0 votes)	Oceans and Estuaries	
Physical and chemical data collected using bottle casts in a World-wide distribution from the NOAA Ship RESEARCHER and other platforms from 11 November 1911 to 18 March 1990 (NOOC Accession 9500072)	★★★★ (0 votes)	Oceans and Estuaries	
Physical and chemical data were collected using bottle casts in a World-wide distribution from the NOAA Ship RESEARCHER and other platforms from 11 November 1911 to 18 Ma...	★★★★ (0 votes)	Oceans and Estuaries	



The screenshot shows the Geospatial Platform homepage with a search bar and navigation menu. Below the header, there's a section for "Search Results" showing results for "A-16". The results are organized into 16 themes:

- Climate & Weather**: A-16 group for Climate & Weather created by ddnebert on November 1, 2011
- Water - Oceans and Coasts**: Ocean, marine, coastal, and estuarine information. created by ddnebert on October 27, 2011
- Biota**: Biological and ecological information created by ddnebert on October 27, 2011
- Water - Inland**: Information related to inland waterways, streams, rivers, lakes, and ponds and their waters created by ddnebert on October 27, 2011

Over 440,000 geospatial data sets discoverable at Data.gov

NGDAs are organized into 16 Themes

Shared Applications and Services: The Geospatial Platform focuses on national and mission critical issues

Examples:

- ◆ Oil Spills
- ◆ Wild Fires
- ◆ Flooding



Geospatial Platform: One Size Doesn't Fit All

◆ The Geospatial Platform offers capabilities to meet the needs of different customers:

- Executives
- Mission Staff
- GIS Professionals
- Casual Users



Executives Need

- ◆ Timely access to "trusted" information products that support policy decisions
- ◆ To minimize cost surprises and avoid cost swings
- ◆ Products that align with their consumer mapping experiences
- ◆ To easily engage with other government partners
- ◆ Ability to publish on *.gov websites

Government Mission Staff Need

- ◆ Easy, inexpensive publishing
- ◆ Compelling, consumer-like templates
- ◆ Ability to find and access the work of others
- ◆ Collaboration with others to produce products
- ◆ Open APIs
- ◆ Less IT hassles (security, administration, etc.)

Others Need

- ◆ Access to .gov content – developers
- ◆ Better understanding of issues government is facing
- ◆ Increased engagement/crowd sourcing

The Geospatial Platform is

- ◆ A “one-stop shop” to deliver trusted, nationally consistent data and services
- ◆ A portal for discovery of geospatial data, services, and applications (www.geoplatform.gov)
- ◆ A publishing framework for geospatial assets
- ◆ A place (operational environment) where partners can host data and analytical services
- ◆ A starting point for developers by providing APIs and template applications
- ◆ A forum for communities to form, collaborate, and share common geospatial assets
- ◆ Built within the Federal cloud computing infrastructure

High Priority Work in Progress

- ◆ Shared Hosting Infrastructure
- ◆ Communities of Practice / Interest
- ◆ Federation and Sharing among multiple “Platforms”
- ◆ Building different user experiences that leverage the existing geoplatform.gov capabilities

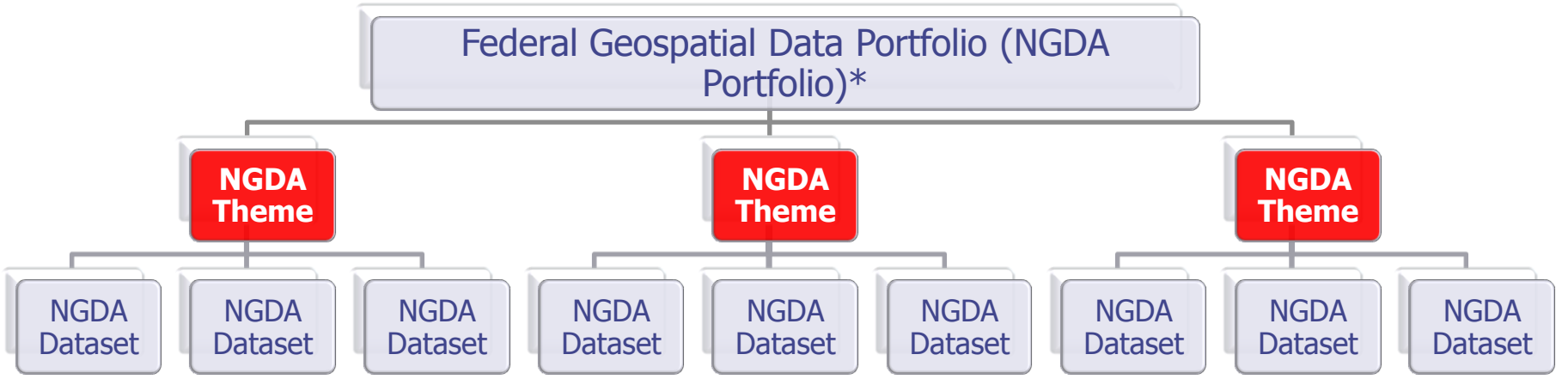
Infrastructure Opportunities

- ◆ RFP for cloud-based hosting issued 7/18, responses due 9/7
 - Storage, secure file transfer, virtual machines, database, web hosting, etc.
 - Multiple award IDIQ with three year base and options through 2022, \$1B ceiling
 - Geospatial Opportunities
 - ◆ Virtual Machines (GeoCloud stacks)
 - ◆ Storage (up to 5 PB)
 - ◆ Compute Instances
 - ◆ PostGIS Hosting

Data Opportunities

- ◆ A-16 Supplemental Guidance
 - Establishing National Geospatial Data Assets
- ◆ Data as a Service

NGDA Themes Approved by the FGDC SC



- | | | |
|--|-----------------------------|-----------------------------|
| ◆ Biota | ◆ Geodetic Control | ◆ Soils |
| ◆ Cadastre | ◆ Geology | ◆ Transportation |
| ◆ Climate and Weather | ◆ Governmental Units | ◆ Utilities |
| ◆ Cultural & Demographic Statistics | ◆ Imagery | ◆ Water – Inland |
| ◆ Cultural Resources | ◆ Land Use-Land Cover | ◆ Water – Oceans and Coasts |
| ◆ Elevation | ◆ Real Property | |

* Themes approved by FGDC SC 10/6/11 2011

Questions?