



The US Geospatial Platform Initiative

Geospatial Agencies and Industry Exchange Forum

Geobuiz Conference

August 9, 2015

Agenda

- 01** Geospatial Platform - History and Current Capabilities
- 02** Capabilities Coming Soon
- 03** How Does This Advance the US NSDI?
- 04** Discussion

CAPABILITIES

COMING SOON

ADVANCING THE NSDI

DISCUSSION

Geospatial Platform – History and Current Capabilities

Geospatial Platform Value Proposition

- The value of geospatial data and tools are now recognized across nearly all lines of government business.
- But major challenges remain:
 - Inconsistent success in discovering and accessing the right data at the right time
 - Inability to surface our authoritative / key national data in search results
 - Incomplete and inconsistent portfolio of “nationally significant” geospatial data
 - Slow rate of adoption for technological innovation
 - Difficulty leveraging and re-using innovations (tools, analytical capabilities, etc.) developed elsewhere in government

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DISCUSSION

Business Drivers

- Budget Language, FY11 Direction to create the “Geospatial Platform”
- Deepwater Horizon and future multi-agency data publication / mapping requirements
- Desire to leverage partnerships developed in and funding supplied to FGDC for providing operational support
- Data.gov
- OMB / Federal IT Shared Services
- Executive Order on Open Data
 - White House Climate Data Initiative
 - Departmental Open Data Initiatives

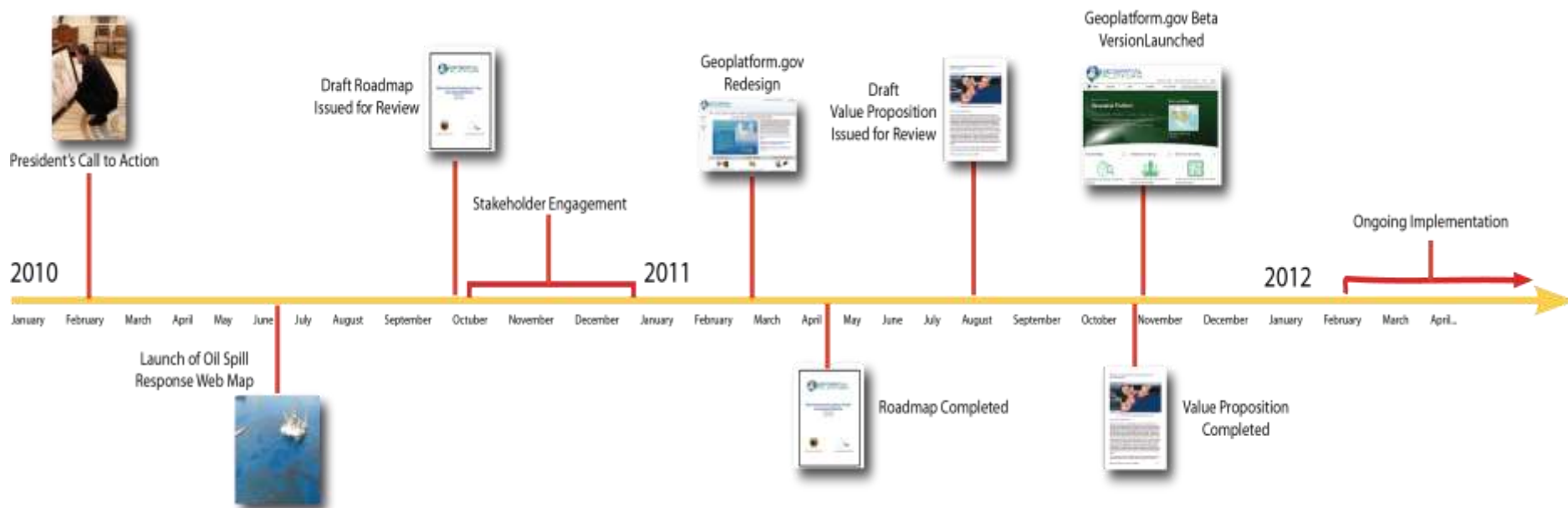
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DISCUSSION

Timeline of Geospatial Platform Activity



Most Recent Products of Note (see: <http://www.fgdc.gov>)
National Spatial Data Infrastructure Strategic Plan (2014-2016)
National Geospatial Data Asset Management Plan

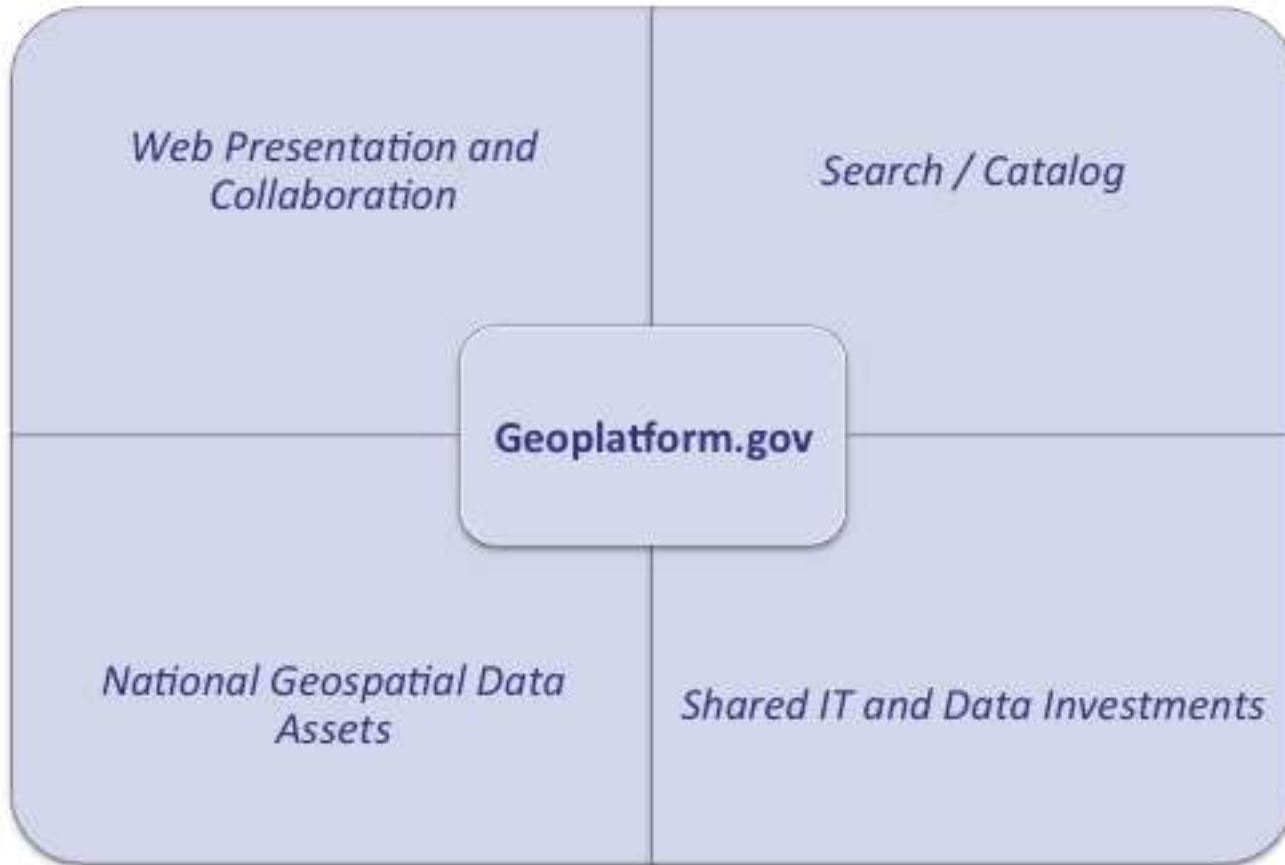
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Geospatial Platform Components



CAPABILITIES

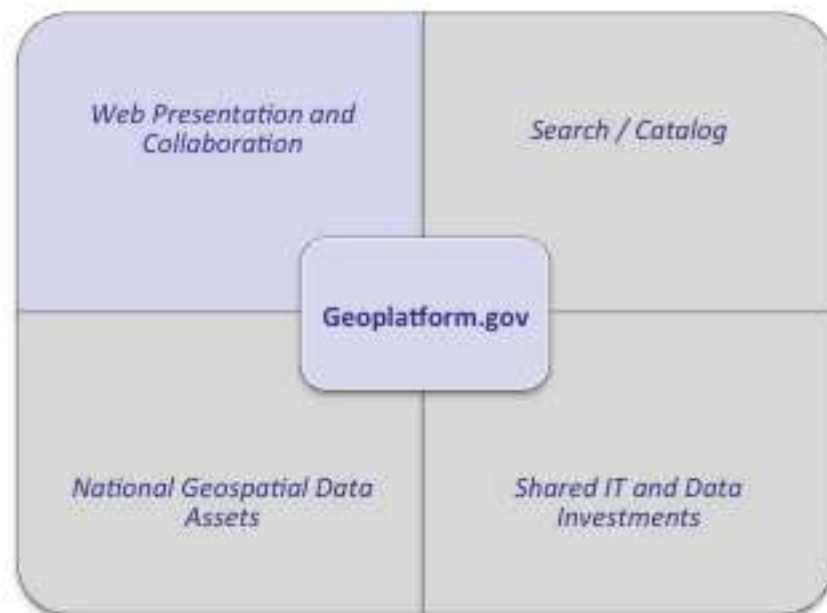
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DISCUSSION

Geospatial Platform - Website

- Home page features topical maps, data & stories
- Website presents content in “Communities”
 - Data Themes of National Spatial Data Infrastructure
 - Interagency Communities
- Growing content within existing communities and considering new ones for launch in coming months



Explore

Develop

Publish

The Geospatial Platform Releases New Data Viewer

Your taxpayer investment in environmental data just got a lot more valuable. Now instead ...



Search Data Catalog

95,809 Datasets

Search geospatial datasets by terms above...

[Learn More](#)

News & Blogs - What's in the news and the latest information about Geoplatform

Site Statistics & Data Metrics - site usage, popular pages, organizational dataset counts and updates.

Featured Applications



GeoPlatform - Climate Resources

Find data and tools related to climate change

Trending Data

U.S. Hourly Precipitation Data

Hourly Precipitation Data (HPD) is digital data set DSI-3240, archived at the National Climatic Data Center (NCDC). The primary source of data for this file is approximately 5,500 US Nationa...

Great Chile Earthquake of May 22, 1960 - Anniversary Edition

On May 22, 1960 (19:11 UTC), a Mw 9.5 earthquake occurred in southern Chile (39.5 S, 74.5 W). This was the largest earthquake ever instrumentally recorded. (It was not the largest in terms o...

Military Installations, Ranges, and Training Areas

Featured Maps

Sea Level Rise Planning Tool - New Jersey and New York State



NOAA, in partnership with FEMA, USACE, USGCRP, and CEQ has created a set of map services and related tools to help communities, residents, and other stakeholders consider risks...

[View Details](#)

Exploring Ocean Wind Energy

Homeland Security Geospatial Concept Of Operations



Homeland Security GeoCONOPS

"A Whole of the Nation Approach..."

[What is the HLS GeoCONOPS?](#)
[Who are the HLS GeoCONOPS Stakeholders?](#)
[How do I use the HLS GeoCONOPS?](#)




Authoritative Data



For the purpose of the GeoCONOPS, authoritative data classifications provide clarity beyond the frequent notion that an authoritative data source

Best Practices



The GeoCONOPS Best Practices highlight more than a dozen mature methods and innovative practices for geospatial management processes,

Community Forum



Join our discussion community!

Homeland Security Geospatial Concept Of Operations

Community Type: Agency
 Sponsor: Department of Homeland Security (DHS) Geospatial Management Office (GMO)
 Sponsor Email: GMO@hq.dhs.gov

You must register or login in order to subscribe to this community.

Geospatial Platform – Search / Catalog

Filter By Location Clear
Error location...
Map data CC-BY-SA by OpenStreetMap
Data by MapQuest

Dataset Type Clear All
Geospatial (75723) x
Show More Dataset Type

Tags Clear All
Temperature (25728)
Physical (22937)
Profile (20342)
Unknown (14840)
Water Depth (14480)
Show More Tags

Formats Clear All

Dataset Catalog
Note that only datasets marked as "Federal" are subject to the U.S. Federal Government and Data.gov's Data Policy. Non-federal participants (e.g., universities, organizations, and tribal, state, and local governments) maintain their own data policies. It is important that users understand the data policies of participating entities in order to best utilize these datasets. A description of this catalog and information about the datasets presented and associated metrics is available here.

Search datasets... Search

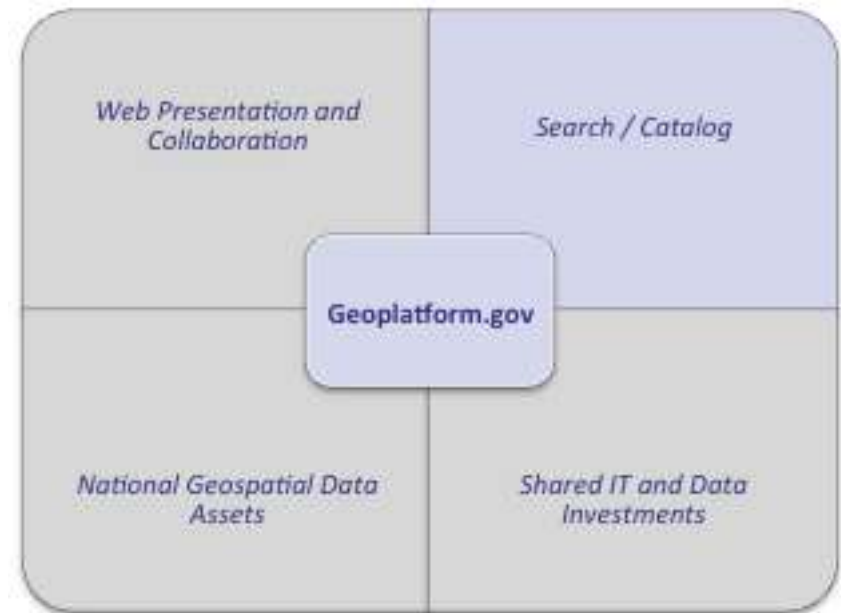
75,723 datasets found Order by: Popular

Dataset Type: geospatial x

TIGER/Line Shapefile, 2013, Series Information File For The Current Metropolitan Statistical Area/Micropolitan Statistical Area (CBSA) National Federal
US Census Bureau, Department of Commerce -The TIGER/Line shapefiles and related database files (.dbf) are an extract of selected geographic and cartographic information from the U.S. Census Bureau's...
HTML

Great Chile Earthquake Of May 22, 1960 - Anniversary Edition Federal
National Oceanic and Atmospheric Administration, Department of Commerce -On May 22, 1960 (19:11 UTC), a Mw 9.5 earthquake occurred in southern Chile (39.5 S, 74.5 W). This was the largest earthquake ever instrumentally recorded...
HTML HTML HTML HTML HTML

TIGER/Line Shapefile, 2012, Series Information File For The 2010 Nation, 2010 Census 5-Digit ZIP Code Tabulation Area (ZCTA5) National Federal
US Census Bureau, Department of Commerce -The TIGER/Line shapefiles and related database files (.dbf) are an extract of selected geographic and cartographic information from the U.S. Census Bureau's...
HTML HTML HTML HTML



- One stop shopping for government geospatial data & tools: ~**85,000** datasets, tools, maps and applications
- Close partnership w/ Data.gov team & White House Offices
- Planning major redevelopment of discovery capabilities

CAPABILITIES

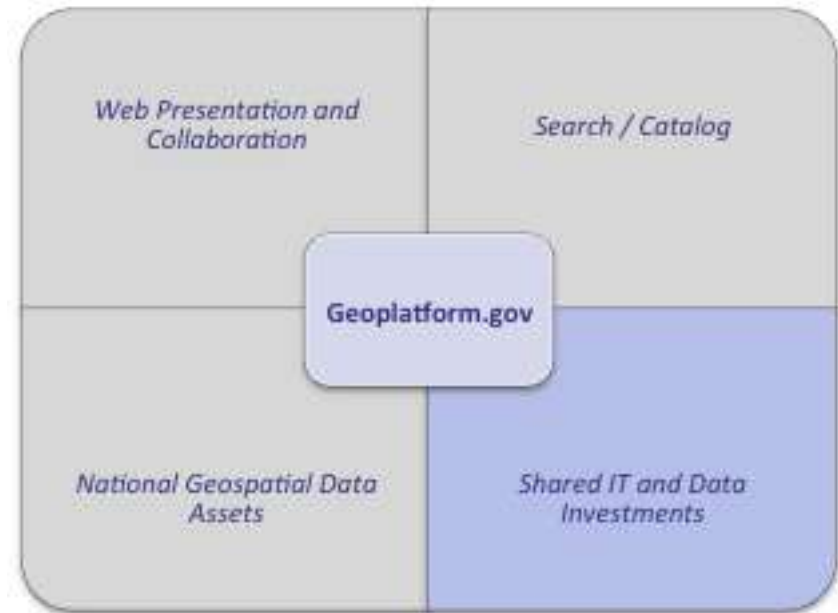
COMING SOON

ADVANCING THE NSDI

DISCUSSION

Geospatial Platform – Shared Investments

- Common data / application hosting infrastructure to enable agencies to save time and money
 - Leveraging ArcGIS Online
 - Using commercial cloud computing services to build out additional shared hosting infrastructure for the benefit of FGDC partners



Developing shared IT security documentation for the common hosting environment – leveraging DOI Foundational Cloud Hosting Contract and existing relationship with Esri

CAPABILITIES

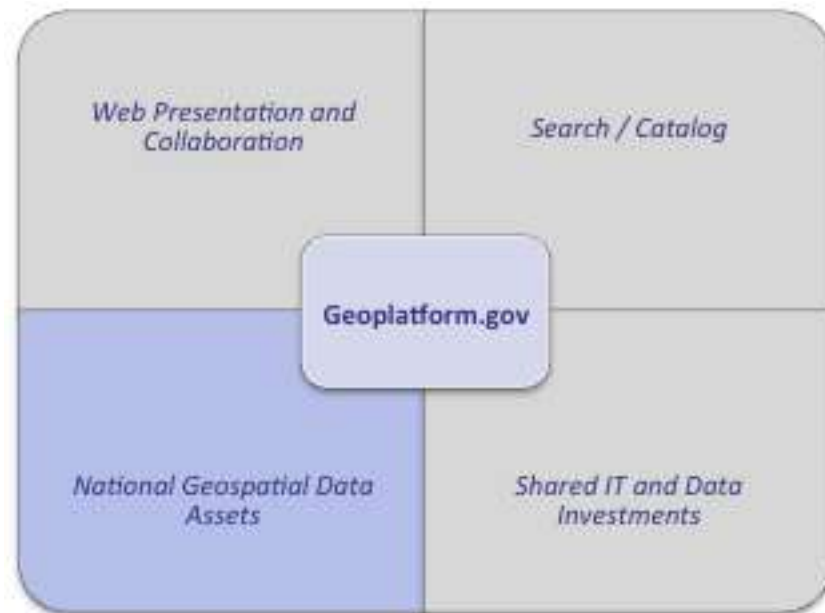
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Geospatial Platform – NGDAs

- In developing Supplemental Guidance for Circular A-16, FGDC established concept of “National Geospatial Data Assets”
 - Roughly 170 data layers of the highest importance to agencies and external stakeholders
- FGDC has established Management Plan for improving management and publication
- Geospatial Platform provides hosting and collaboration support
- **100%** of NGDAs now registered on Geoplatform.gov!



Components of the Department of the Interior have “Theme Lead” or co-lead responsibilities for 11 out of 16 NGDA Themes that have been established by the FGDC

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Capabilities Coming Soon

Near Term and Planned New Features

- A complete redesign and redeployment of Geoplatform.gov and its underlying capabilities
- Hosted in a commercial cloud environment (Amazon Web Services)
- Greatly increased capabilities and performance
- **Summer 2015 “Preview” Release**
 - New home page / web design
 - New Web Map Viewer with integrated service quality measures
 - Improved capabilities for map gallery creation and sharing
 - Expanded performance and portfolio measurement tools

CAPABILITIES

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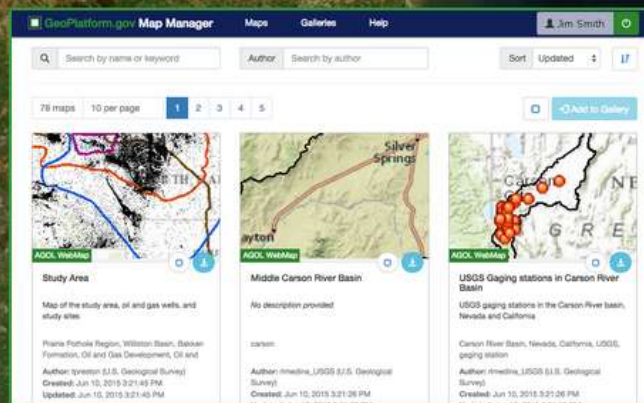
Welcome to GeoPlatform.gov

The GeoPlatform provides shared and trusted geospatial data, services, and applications for use by the public and by government agencies and partners to meet their mission needs.

GeoPlatform users have access to

- A one-stop shop to deliver trusted, consistent data & services
- Authoritative data to support informed decision making
- Reusable applications and services for Federal govt and non-govt use
- A shared infrastructure to host data and applications
- A focal point where governmental, academic, private, and public data can be visualized together to inform and address national and regional issues

[Sign up!](#)



The screenshot shows the 'GeoPlatform.gov Map Manager' interface. It features a search bar at the top with the text 'Search by name or keyword' and 'Author Search by author'. Below the search bar, there are navigation options for 'Maps', 'Galleries', and 'Help'. A user profile for 'Jim Smith' is visible in the top right corner. The main content area displays a grid of map thumbnails. The first thumbnail is titled 'Study Area' and shows a map of a study area with oil and gas wells. The second thumbnail is titled 'Middle Carson River Basin' and shows a map of the Middle Carson River Basin. The third thumbnail is titled 'USGS Gaging stations in Carson River Basin' and shows a map of the Carson River Basin with gaging stations marked by red dots. Each thumbnail includes a title, a brief description, and metadata such as the author and creation date.

Featured: GeoPlatform Release Preview

WHAT'S NEW



Featured App: Web Map Viewer

Browse thousands of WMS and ESRI-hosted map layers, construct maps, and more with the new and improved Web Map Viewer!

[Launch WMV](#)



Map Collaboration

Learn how to compose and share maps using open services with GeoPlatform.

[Learn more](#)



AGOL Map Harvester

Quickly and easily integrate existing ArcGIS Online maps into your GeoPlatform pages using the Map Harvester service!

[Learn more](#)

First Time Here?

GeoPlatform.gov was created to enhance geospatial resource sharing across the U.S. Government and the world, and to allow users like you to participate in an online geospatial services experience. Whether you want to discover and use up-to-date National Geospatial Data Assets, make a shared Open Map Gallery for your website, integrate quality National data into your own web application, or more, GeoPlatform.gov is a place to stay connected to a fast evolving geospatial service ecosystem.



Create an Account

With an account, you can access thousands of datasets uploaded by others and contribute your



Collaborate with Others

Share your expertise or find experts to help with your geospatial data needs, join one of



Register your Data

Register your data in [Data.gov](#) and we'll add it to GeoPlatform.gov so others can

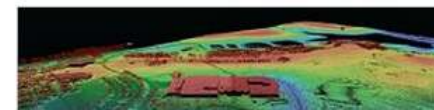
My Account

Already have an account? Go ahead and login! Don't have an account? Sign up now. It's quick and free!

[Login](#)

[Create an Account](#)

★ Featured Communities



Browse Layers

Apply

Search Layers

Search for layers by name

Search layers

Sort Layers

Name Ascending

Layer Sources

- AssistedHousing 7
- BISON 5309
- Biology WMS Layers from the National Atlas of the United States 1454
- Climate WMS Layers from the National Atlas of the United States 83

Layer Types

- All Amphibians (Amphibia) 388
- All Gymnosperms (Gymnospermae) 244
- All Mammals (Mammalia) 800
- All Mustards (Brassicaceae) 761
- All Oaks (Quercus) 167

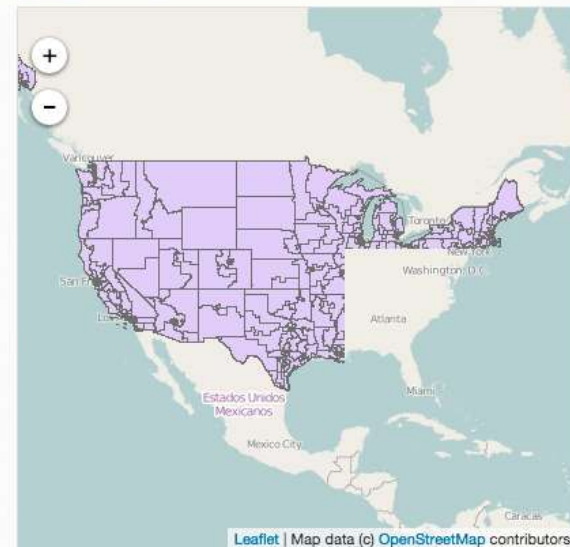
Available Layers

Select layers below to view them on the preview map at right.

11568 results 10 per page 1 2 3 4 5

- 1 to 25999 NGA GeoNames Scaled WMS
- 10-digit HU USGS TNM National Hydrography Dataset, NGDA
- 10-digit HU** USGS TNM National Hydrography Dataset, hydrography, NHD, water, drainage, river, strea...
- 10-digit HU USGS TNM National Hydrography Dataset, hydrography, NHD, water, drainage, river, strea...
- 10-digit HU USGS TNM National Hydrography Dataset, hydrography, NHD, water, drainage, river, strea...
- 10-digit HU USGS TNM National Hydrography Dataset, hydrography, NHD, water, drainage, river, strea...
- 1000000 to 7000000 NGA GeoNames Scaled WMS
- 113th Congressional Districts** NGDA, NTAD
- 12-digit HU USGS TNM National Hydrography Dataset, NGDA
- 12-digit HU USGS TNM National Hydrography Dataset, hydrography, NHD, water, drainage, river, strea...

Preview



Please be patient, some layers may take several seconds to appear.

Constrain the list of layers using geographic extents or named places

Specify a named location

Previewed Layers

Layers listed below are shown in the preview map above. Click 'Apply' at the top of this panel to add them all to the current map.

- 113th Congressional Districts
- 10-digit HU

Search by name or keyword

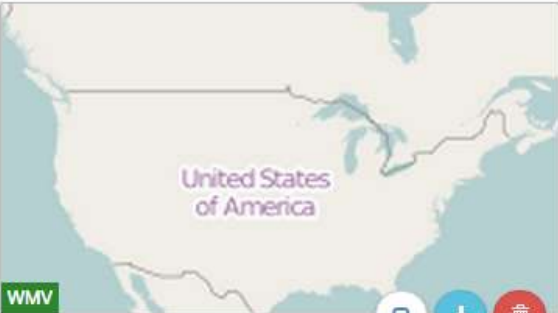
Author Search by author

Sort Updated

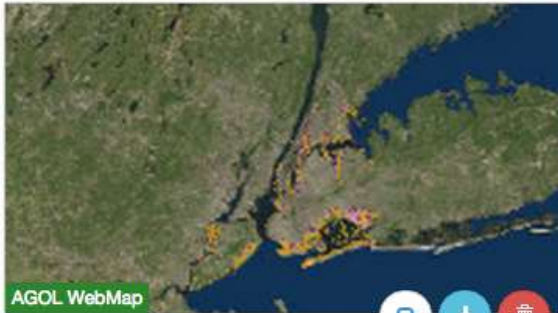


134 results 10 per page 1 2 3 4 5

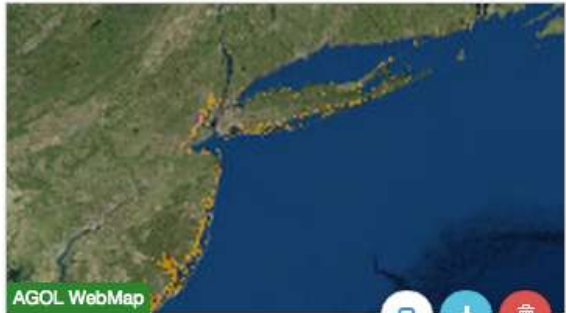
Add to Gallery



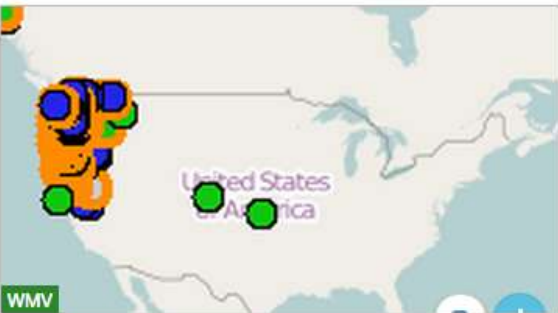
esri demo
esri demo
esri
Author: Jerry Johnston (US Department of the Interior)
Created: Jul 22, 2015 6:41:24 PM
Updated: Jul 22, 2015 6:41:24 PM



Sea Level Rise Planning Tool - New York City
Future Sea Level Rise and Most Recent Special Flood Hazard Area
Climate Change, Coastal Flooding, Coastal Inundation, Hazards, Inundation, Sea Level Rise, Special Flood Hazard
Author: NOAA_GeoPlatform (GEOPLATFORM.gov)
Created: Jun 16, 2015 12:27:40 PM
Updated: Jul 22, 2015 5:33:00 PM



Sea Level Rise Planning Tool - New Jersey and New York State (Nassau, Suffolk, and
Future Sea Level Rise and Most Recent Special Flood Hazard Area
Climate Change, Coastal Flooding, Coastal Inundation, Hazards, Inundation, Sea Level Rise, Advisory Base Flood
Author: NOAA_GeoPlatform (GEOPLATFORM.gov)
Created: Jun 16, 2015 12:27:40 PM
Updated: Jul 22, 2015 5:33:00 PM



Lifecycle Maturity

Select a NGDA Dataset Lifecycle Maturity Assessment survey from the drop-down below. Surveys are added quarterly, and include in the title their Fiscal Year and Quarter. You may choose to filter by Theme or Agency using the Selection Type and Selection drop-downs. For more details, click on a rating box (cell) or hover over column headings.

Legend

Survey: | Selection Type: | Selection: | Export as:

Dataset	General	Define	Inventory Evaluation	Obtain	Access	Maintain	Use Evaluation	Archive	Overall	Agency
Theme Rollup										
Bailey's Ecoregions And Subregions Of The United States, Puerto Rico, And The U.S. Virgin Islands - Direct Download										USDA-USFS
Environmental Sensitivity Index (ESI) Data Viewer and REST Services for Atlases										DOC-NOAA
FWS Critical Habitat for Threatened and Endangered Species Dataset										DOI-FWS
Omernik's Level III Ecoregions Of The Conterminous United States										USEPA
Terrestrial Ecosystems of the Conterminous United States										DOI-USGS
U.S. Geological Survey Gap Analysis Program Species Distribution Models										DOI-USGS
U.S. Geological Survey Gap Analysis Program Species Ranges										DOI-USGS

Tip: Hover over a column name to view the questions associated with it. Click the chart icon within a cell to view its visualized graph.

How Does This Advance the US NSDI?

Advancing the NSDI – By Lifecycle Component

Geospatial Platform Supports Multiple Aspects of the Geospatial Data Lifecycle

▪ Inventory

–Metadata catalog in partnership with Data.gov

▪ Obtain

–Geospatial Platform Marketplace allows partners to forge partnerships for acquisition and development

▪ Access

–Web services access via open standards is facilitated by shared infrastructure

▪ Maintain

–Quality of service indicators provided to users and to NSDI dataset maintainers

▪ Use

–Allow for development and sharing of maps as social objects

–Developer guidance and support for use of open APIs

CAPABILITIES

COMING SOON

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DISCUSSION

Advancing the NSDI – Other Examples?

What ideas from other NSDI efforts might we be able to learn from and implement as a part of our work in the United States?

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DISCUSSION

Discussion