

# Geospatial Platform Update

Jerry Johnston  
Department of the Interior  
FGDC Steering Committee  
April, 2016





# Release Schedule

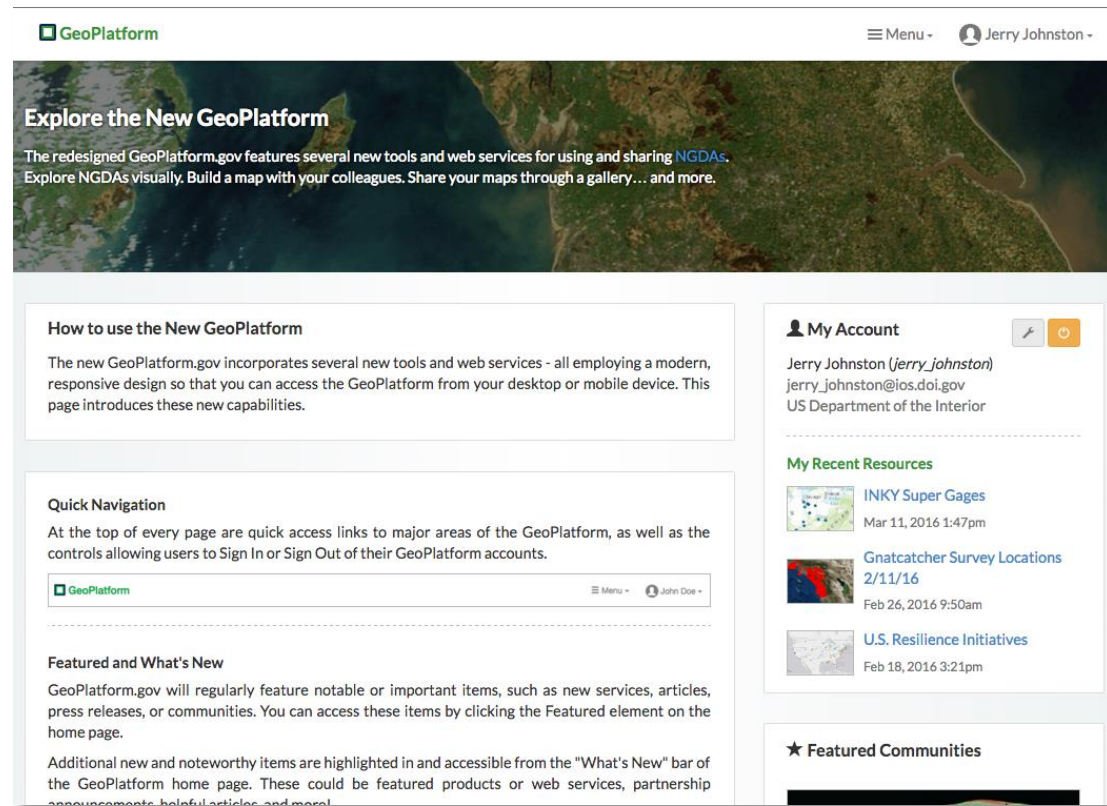
## Recent and Near Term Releases

- ❖ Release 2: October 2015 (Done)
- ❖ Release 3: February 2016 (Done)
- ❖ Release 4: May 2016 (Next)
- ❖ Release 5: June 2016 (Planning)
- ❖ Release 6: September 2016 (Planning)

# Current GeoPlatform

## ❖ What's New:

- ❖ Look and feel
- ❖ Additional map viewer functionality
- ❖ Create and import maps from Esri's ArcGIS On-Line
- ❖ Create and embed Map Galleries into external sites
- ❖ Portfolio management capabilities to measure and manage national geospatial data assets
- ❖ Enriched geospatial marketplace
- ❖ Secure scalable Amazon Web Service infrastructure



# Release 2 & 3 Accomplishments

- ❖ Landing Page
- ❖ Web Map Viewer 2.0
- ❖ AGOL Map Harvester
- ❖ Map Manager, Phase I
- ❖ NGDA Survey Tool
- ❖ 3DEP Project Tracker
- ❖ Performance Dashboard, Phase I
- ❖ IDM/IDP Replacement
- ❖ Service Desk process defined and implemented
- ❖ O&M/DevOps fully implemented
- ❖ 90% in-the-cloud

The screenshot displays the GEOPLATFORM.gov website interface. The top navigation bar includes links for Overview, Data, Maps, Communities/Agencies, Resources, Marketplace, and Dashboards. The main content area features a large banner titled "The Geospatial Platform Releases New Data Viewer" with a sub-headline "Your taxpayer investment in environmental data just got a lot more valuable. Now instead ...". Below the banner, there are sections for "Trending Data" and "Featured Maps". The "Trending Data" section highlights "U.S. Hourly Precipitation Data" and "Great Chile Earthquake of May 22, 1960 - Anniversary Edition". The "Featured Maps" section features "Sea Level Rise Planning Tool - New Jersey and New York State". A sidebar on the left contains links for Explore, Develop, and Publish. A search bar is located at the top right. The bottom section of the screenshot shows a "Datasets Published per Month" table with columns for Agency Name and months from Feb '15 to Jan '16, along with a "Total in the Past 12 Months" column. The table lists various federal agencies and their dataset counts. A green sidebar on the left contains links for "130,314 Datasets", "Search geospatial data by terms above...", "Learn More", "News & Blogs - What's new and the latest information about Geoplatform", and "Site Statistics & Data Metrics - site usage, popular pages, organizational dataset counts and updates."

Agency Name	Number of Datasets published by month												Total in the Past 12 Months
	Feb '15	Mar '15	Apr '15	May '15	Jun '15	Jul '15	Aug '15	Sep '15	Oct '15	Nov '15	Dec '15	Jan '16	
Department of Agriculture	11	10	3	7	9	1	7	23	-	-	-	-	71
Department of Commerce	3	1	1	-	48	30	17	61325	574	-	-	-	61999
Department of Homeland Security	-	-	1	-	6952	1159	-	-	-	-	-	-	8112
Department of State	-	-	-	-	15	5	2	2	1	-	-	-	25
Department of the Interior	119	41	107	103	105	249	284	39	46	-	-	-	1093
Department of Transportation	-	-	-	-	-	57	-	-	-	-	-	-	57
Environmental Protection Agency	-	-	618	48	371	29	639	518	16	-	-	-	2239
National Aeronautics and Space Administration	2035	-	-	-	-	14567	-	-	-	-	-	-	16602
<b>Total</b>	<b>2168</b>	<b>52</b>	<b>730</b>	<b>158</b>	<b>7500</b>	<b>16097</b>	<b>949</b>	<b>61907</b>	<b>637</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>90198</b>

# Release 3 Overview

- ❖ “Go Live” date Feb 2016
- ❖ Enhanced user experience and navigation for both first-time and frequent users
- ❖ New Homepage and overall responsive site design
- ❖ Interactive browse / view / mashup of all geospatial web services in Geoplatform.gov catalog with service quality indicators



Menu ▾ Sign In

The screenshot shows the GeoPlatform homepage with a satellite map background. A red arrow points to the word 'New' in red text, which is placed above the main heading. The heading reads 'Welcome to the Geospatial Platform'. Below this is a paragraph: '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.' A horizontal line separates this from a section titled 'GeoPlatform users have access to', which contains a bulleted list of five items. At the bottom right is a 'Learn More' button.

**New**

Welcome to the  
**Geospatial Platform**

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 that delivers trusted, consistent data and services
- Authoritative data to support informed decision making
- Reusable applications and services for governmental and nongovernmental use
- A shared infrastructure that can host your data and applications
- A focal point where governmental, academic, private, and public data can be visualized together to inform national and regional issues

---

[Learn More](#)

# GeoPlatform R3 Overview (con't.)

## ❖ Web Map Viewer Phase II:

- ❖ Map saving and sharing

- ❖ Map Knowledge Graph prototype

## ❖ Map Manager, Phase II with AGOL Harvester

## ❖ Performance Dashboard, Phase II:

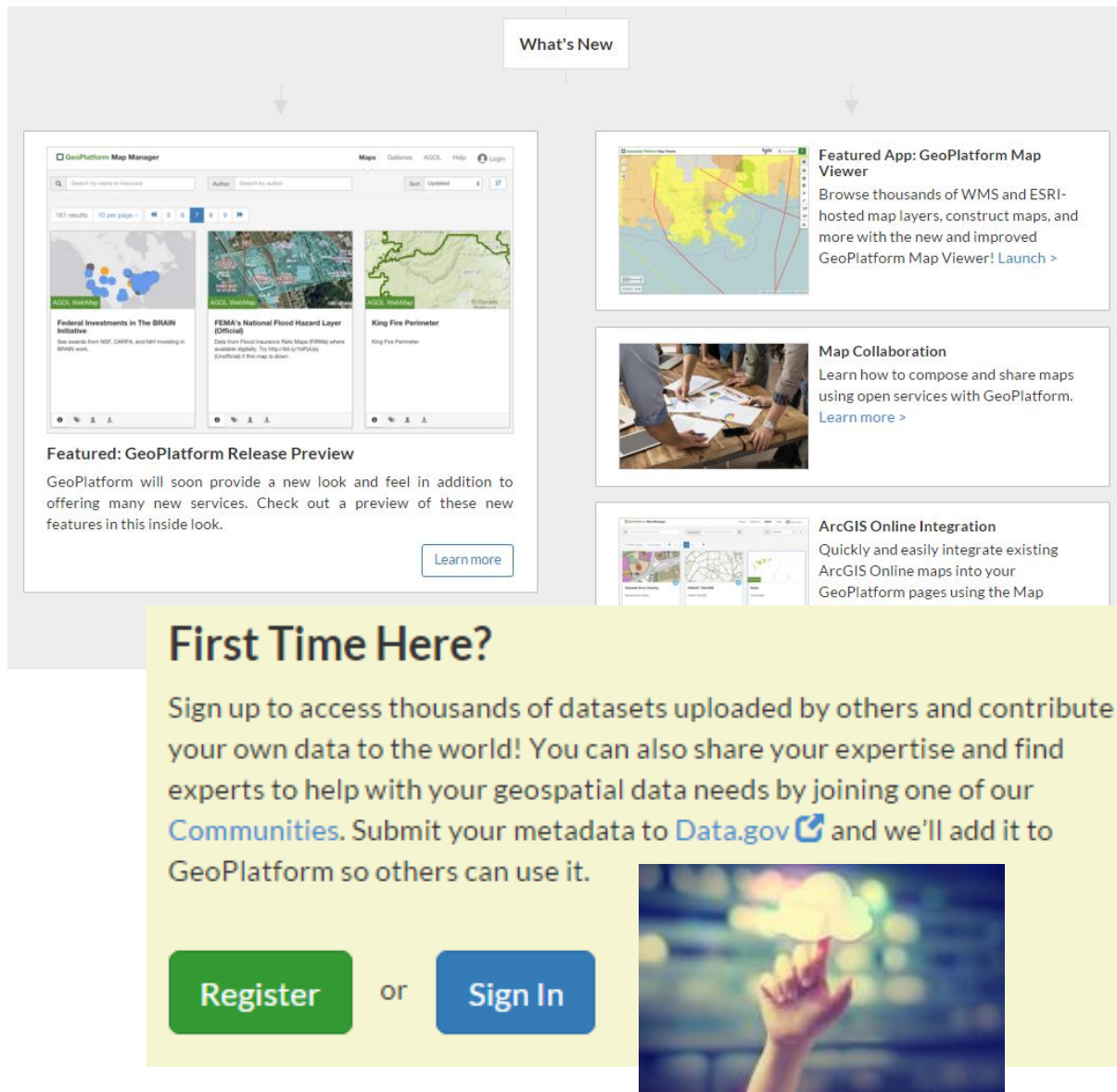
- ❖ Service Checker

- ❖ NGDA Metadata Viewer

- ❖ Batch Selections

- ❖ Registry prototype

- ❖ Mobile Observation Services



The screenshot shows the GeoPlatform R3 homepage. At the top right is a globe graphic. Below it is a 'What's New' section with three items: 'Featured App: GeoPlatform Map Viewer', 'Map Collaboration', and 'ArcGIS Online Integration'. The 'Featured App' item includes a map thumbnail and text about browsing WMS and ESRI-hosted layers. The 'Map Collaboration' item includes a photo of people working at a table. The 'ArcGIS Online Integration' item includes a map thumbnail. Below these is a 'Featured: GeoPlatform Release Preview' section with text about a new look and feel. At the bottom is a yellow banner for 'First Time Here?' with a sign-up message, a 'Register' button, a 'Sign In' button, and a photo of a hand holding a glowing orb.

What's New

Featured App: GeoPlatform Map Viewer  
Browse thousands of WMS and ESRI-hosted map layers, construct maps, and more with the new and improved GeoPlatform Map Viewer! [Launch >](#)

Map Collaboration  
Learn how to compose and share maps using open services with GeoPlatform. [Learn more >](#)

ArcGIS Online Integration  
Quickly and easily integrate existing ArcGIS Online maps into your GeoPlatform pages using the Map

Featured: GeoPlatform Release Preview  
GeoPlatform will soon provide a new look and feel in addition to offering many new services. Check out a preview of these new features in this inside look. [Learn more](#)

**First Time Here?**  
Sign up to access thousands of datasets uploaded by others and contribute your own data to the world! You can also share your expertise and find experts to help with your geospatial data needs by joining one of our [Communities](#). Submit your metadata to [Data.gov](#) and we'll add it to GeoPlatform so others can use it.

[Register](#) or [Sign In](#)

# New User Benefits

- ❖ Enhanced navigation to quickly direct users to specific areas of interest
- ❖ Account registration and management for added access and functionality
- ❖ Tutorials and training opportunities
- ❖ Help tools
- ❖ Dedicated and responsive Service Desk

## About GeoPlatform

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 (NGDAs), make a shared gallery of maps for your website or more, GeoPlatform.gov is a place to explore the geospatial ecosystem.

*Tip:* Access any of the GeoPlatform's area



### Contact Us

Please check out our [Help](#) and [FAQ](#) pages in case your question or issue has already been addressed. If you still need help or want to report an issue, please send us an email at:

[servicedesk@geoplatform.gov](mailto:servicedesk@geoplatform.gov)

For questions about the federal government not related to GeoPlatform, visit [USA.gov](#) or call 1 (800) FED INFO (1-800-333-4636) (8am - 8 pm ET Monday - Friday).

# Account Management

- ❖ SSO and seamless access to data.gov and geoplatform.gov resources
- ❖ Access to enhanced service capabilities:
  - ❖ Performance Dashboard
  - ❖ AGOL Map Harvester
- ❖ Ability to save and import maps in the Web Map Viewer (WMV)
- ❖ Creating/editing Map Galleries with Map Manager

**GEOPLATFORM.gov**

**USER ACCOUNT**

If you have a registered account through GeoPlatform, you can reset your password. To gain access to your account through GeoPlatform, follow the steps below:

1. Click on [Forgot Password](#).
2. Enter the e-mail address you use to log in to Manager and then submit.
3. You will receive an e-mail with a link to change your password.
4. After you change your password you should be able to log in through GeoPlatform.

Contact the [GeoPlatform Service Desk](#) if you have any questions/problems.

[Create new account](#) [Log in](#) [Forgot](#)

Username/E-mail \*

Enter your username or e-mail address.

Password \*

Enter the password that accompanies your e-mail.

[Login](#)

**My Account**

Already have an account? Go ahead and sign in! Don't have an account? Register a new account using the button below. It's quick and free!

[Register](#) [Sign In](#)

**GEOPLATFORM.gov** **DATA.GOV**

**USER REGISTRATION PAGE**

First Name \*

Last Name \*

Username \*

E-mail \*

Employee Organization \*

Please select organization affiliation...

Password \*

Confirm \*

☐ I'm not a robot

[Submit](#)

# Web Map Viewer

- ❖ Multiple data browse, filter, and sort features
- ❖ Dataset preview
- ❖ Add user content: Digitize features or Upload .KML, GeoJSON, .CSV, or shapefiles (in .ZIP) to extract features
- ❖ Gazetteer and Geolocation support
- ❖ Control layer ordering, visibility, opacity
- ❖ Save and share maps (Web Map Context)
- ❖ Publish composed maps

## GeoPlatform Map Viewer

### Browse Layers

#### Search Layers

Search for layers by name

#### Sort Layers

Name

#### Available Layers

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

9293 results 10 per page 1 2 3 4 5

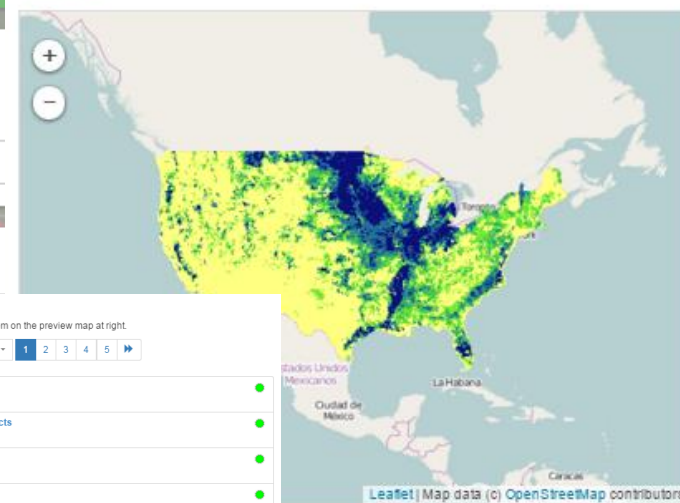
10-digit HU	WMS, NSDA	
114th Congressional Districts	NSDA, NTAD	
12-digit HU	WMS, NSDA	
12NM Territorial Sea	Maritime Limits and Boundaries of the United States (Version 4.1), maritime boundaries, maritime jurisdiction...	
2-digit HU	WMS, NSDA	
200NM EEZ and Maritime Boundaries	Maritime Limits and Boundaries of the United States (Version 4.1), maritime boundaries, maritime jurisdiction...	
2012 Image Dates	Imagery, nrip, apfo, date, NSDA	
2012 National Anthropogenic Barrier Dataset (NABD)	Other	
2013 Image Dates	Imagery, nrip, apfo, date, NSDA	
2014 Image Dates	Imagery, nrip, apfo, date, NSDA	

#### Layer types

[All Amphibians \(Amphibia\)](#)  
[All Gymnosperms \(Gymnospermae\)](#)  
[All Mammals \(Mammalia\)](#)  
[All Mustards \(Brassicaceae\)](#)  
[All Oaks \(Quercus\)](#)  
[All Reptiles \(Reptilia\)](#)

### Preview

Apply selected la



# Map Manager

- ❖ Browse harvested AGOL maps by search filters or organization
- ❖ Create map galleries with maps from WMV and AGOL
- ❖ Share maps and galleries via email
- ❖ Embed map blocks and curated gallery pages into other websites
- ❖ Customize gallery page with community and keywords
- ❖ Manage gallery pages
- ❖ Permissions-based access and use

The screenshot displays the GeoPlatform Map Manager web application. At the top, there's a navigation bar with links for Maps, Galleries, AGOL, Help, and a user profile (Test Tester). Below this, three map thumbnails are shown: 'Virginia for the Birds' (a map of Virginia with bird distribution), 'Sea Level Rise 3 ft' (a satellite map showing coastal changes), and 'Heating and Cooling Degree Days' (a map of the United States with color-coded regions). The main content area shows a search results page for 'hazards' by the organization 'NOAA GeoPlatform'. It lists 45 results and displays three map thumbnails: 'Short-Duration Hazards - Warnings', 'Recent Weather Radar Imagery', and 'Long-Duration Hazards - Watches, Warnings, & Advisories'. Each thumbnail includes a brief description of the map's content.

# ArcGIS Online Integration

❖ Harvest maps from ArcGIS online organizations and publish them to the GeoPlatform

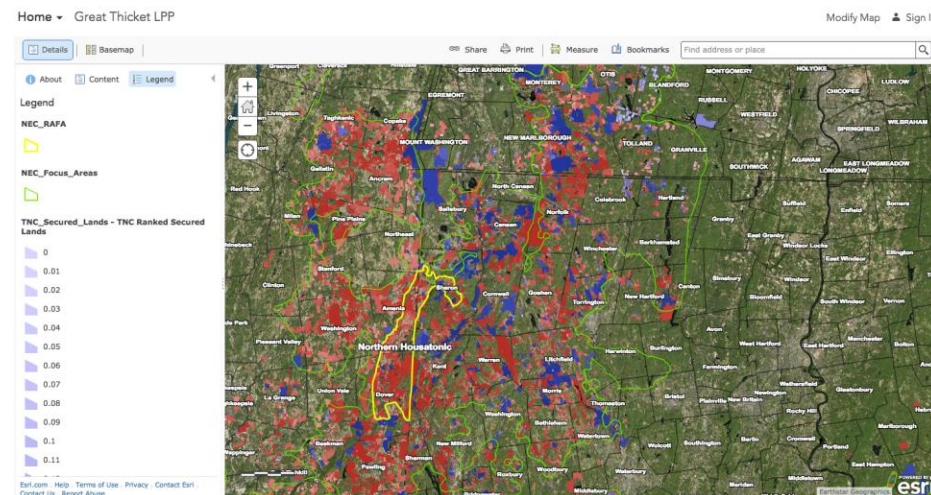
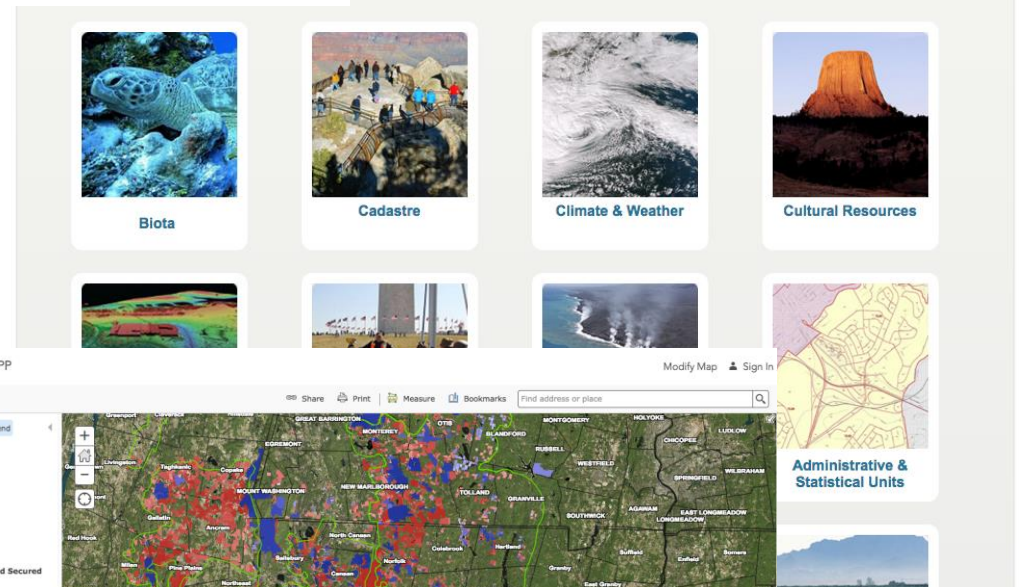
❖ Search and Discover maps by search filters or organization

❖ Unlimited publishing of data and maps to AGOL\*

❖ Create map galleries with maps from WMV and AGOL

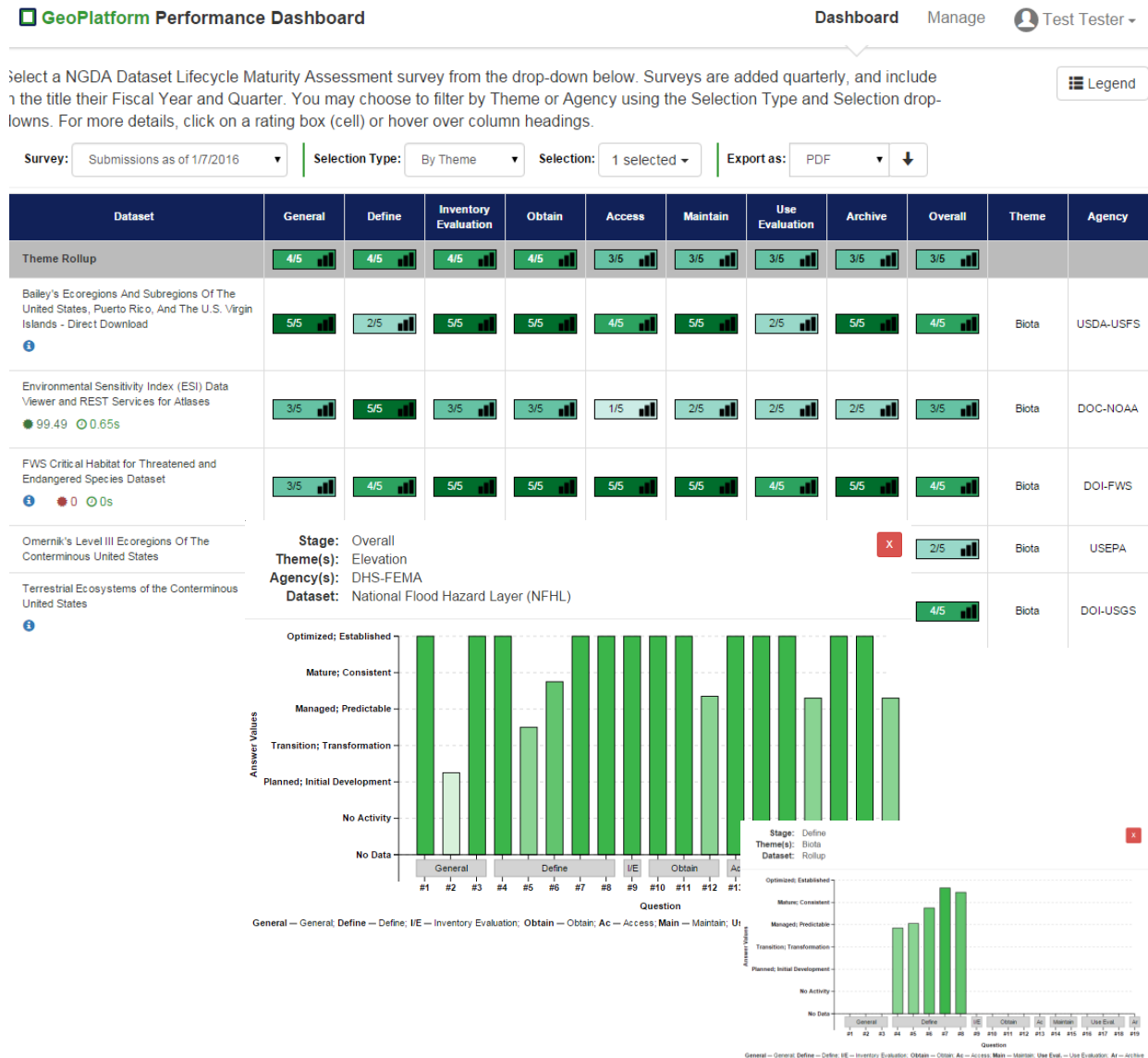


view map layers and a whole lot more. Follow the links below to layers that you can use to make your own mashups, run analysis, at the [ArcGIS Online blog](#) for great ideas, tips and tricks and the [GIS Online help](#) for detailed how-tos.

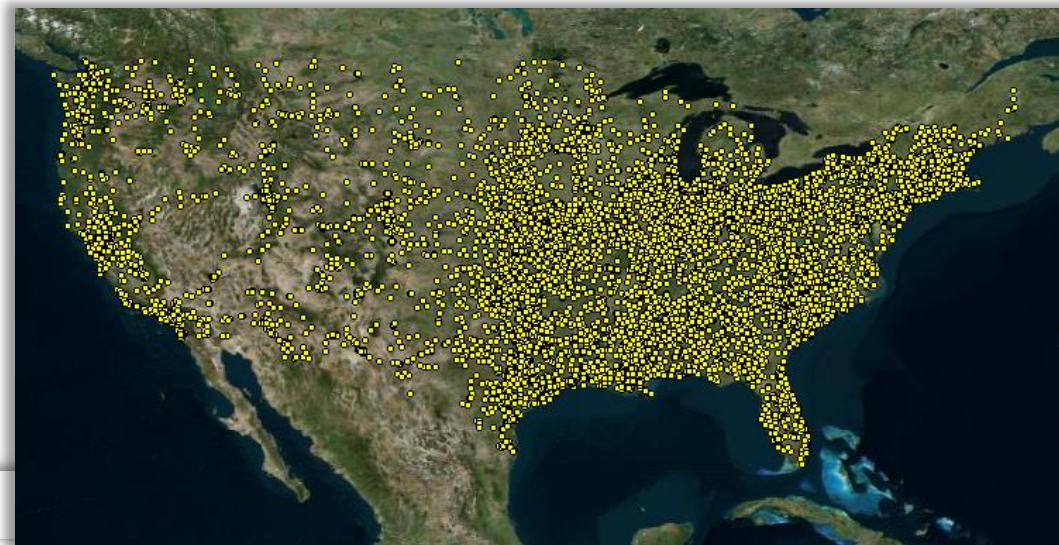
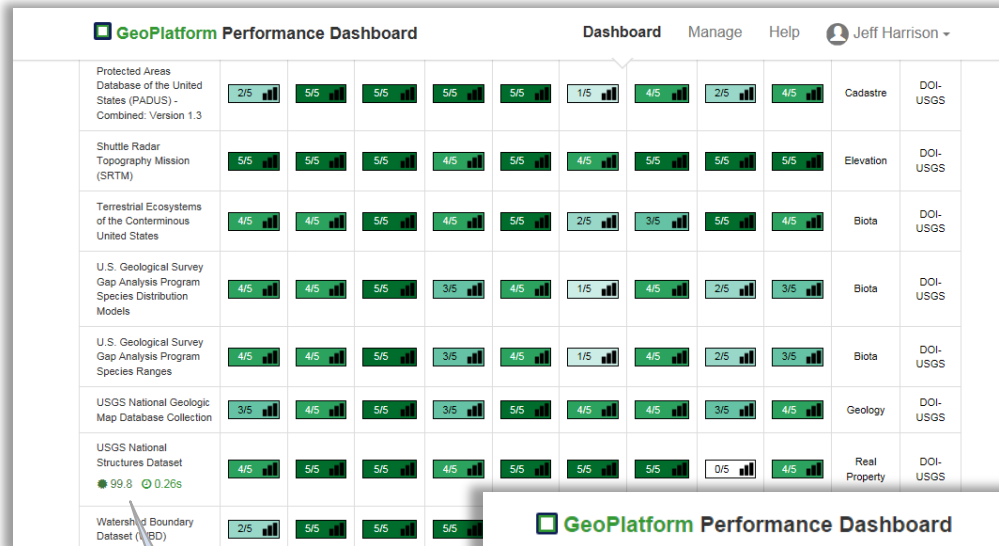


# Performance Dashboard

- ❖ Tools to measure, monitor, and report on NGDAs and services
- ❖ NGDA Dataset Lifecycle Maturity Assessment survey tools
- ❖ Service Checker



# Performance Dashboard - Reliability



## GeoPlatform Performance Dashboard

### Service status : USGS National Structures Dataset

Start Date:

02/06/2016

End Date:

03/07/2016

99 results

5 per page

1

2

3

4

5

»

Sort

Timestamp

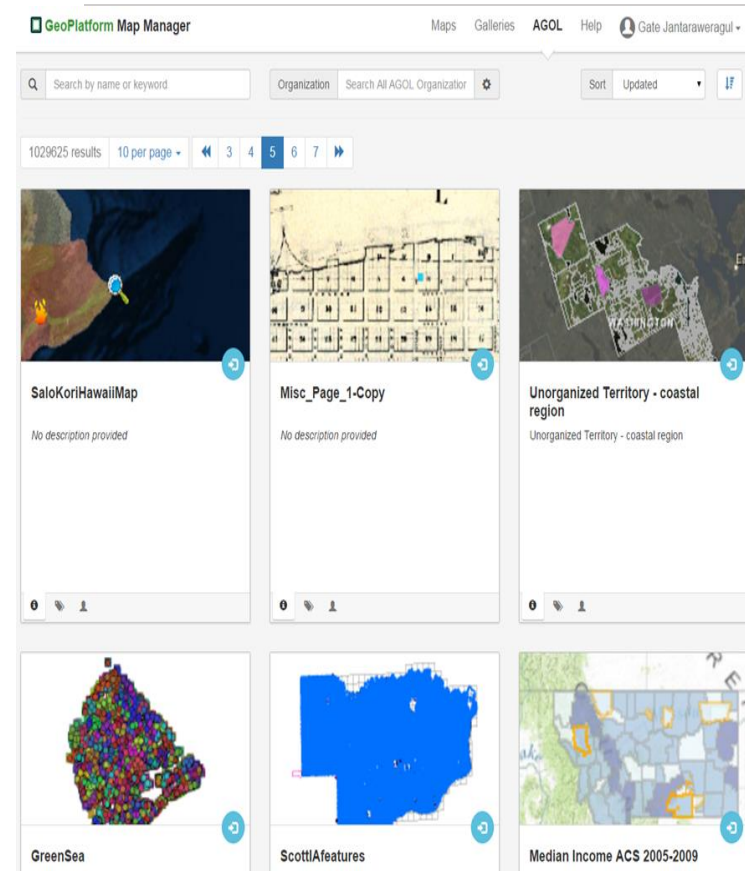
»

Timestamp	Reliability	Speed
03/07/2016 02:31:10 PM	99.8	0.26s
03/07/2016 10:48:22 AM	99.8	0.26s
03/07/2016 10:21:49 AM	99.8	0.26s
03/07/2016 02:21:46 AM	99.84	0.2s
03/06/2016 06:21:41 PM	99.84	0.2s

## Reliability of USGS National Structures Service

# What's Coming in Release 4 (May)?

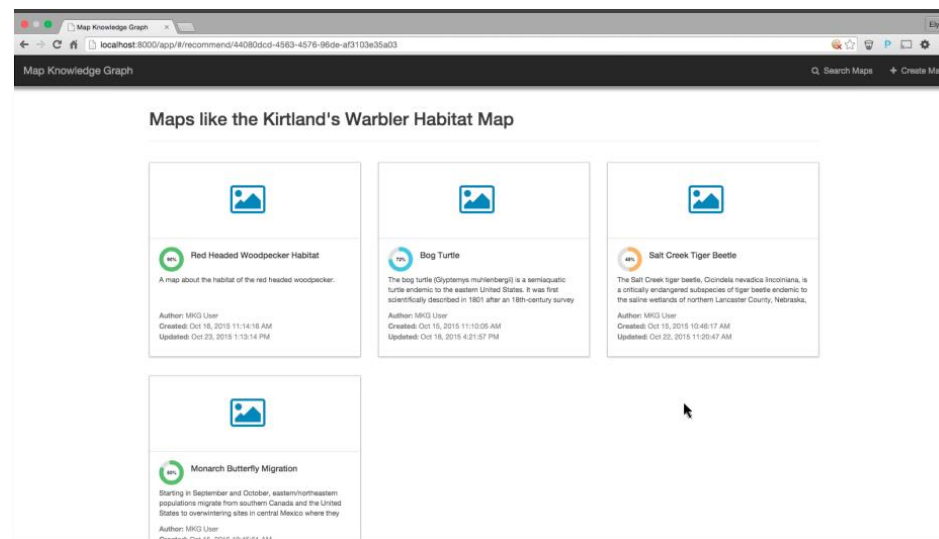
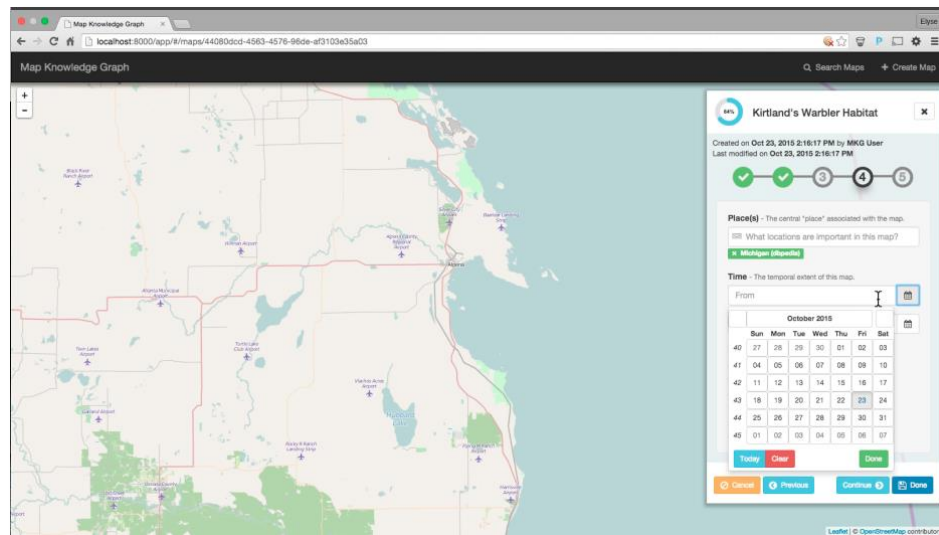
- ❖ Community Engagement. New applications, services and tools for integrating with and enhancing content
- ❖ [Upgraded Marketplace Service](#)
- ❖ New metadata tools for discovery of resources and linking data to services
- ❖ Measurement, Monitoring, and Reporting. Quantitative performance metrics (data lifecycle maturity, QoS service tracker, with service utilization,





# What are we working on?

- ❖ Map Knowledge Graph and enhanced Registry services
- ❖ Layer recommendation service
- ❖ More NGDAs available via reliable services
- ❖ Additional Marketplace functionality
- ❖ APIs for Developers



# Conclusion



GeoPlatform is helping advance the NSDI by enabling users to:

- ❖ *More easily find existing maps and data:* Semantic search / Knowledge graphs will help users surface the right content more quickly and easily
- ❖ *Get access to more high quality NSDI services:* Cloud hosting offerings have the ability to change the game in terms of making high quality data available
- ❖ *Understand (and improve!) the quality of the NSDI services:* Service status checker and performance dashboard can continuously monitor the component services of the distributed NSDI
- ❖ *More easily share data, tools, maps and collaborate:* GeoPlatform offerings bring collaboration and analytics tools at scale to end users in all sectors

Thank you

