

# GeoPlatform.gov Features and Direction for the Homeland Security Mission

November 2, 2018

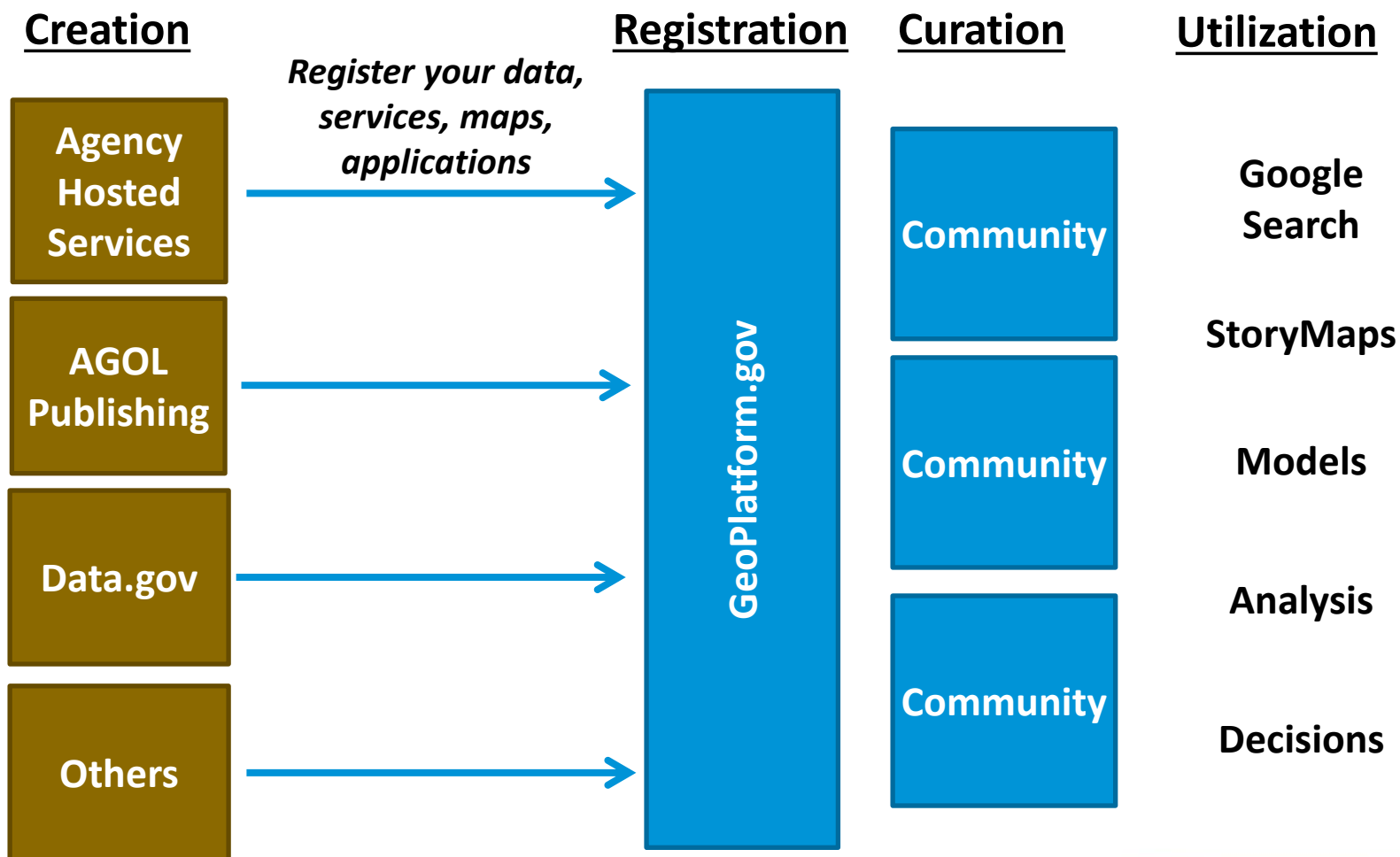
**Joel Schlagel**

GeoPlatform.gov Ambassador, USACE



# Event-driven workflows for inter-agency data sharing

*Enabling “FAIR” (Findable, Accessible, Interoperable, Reusable)...*



# GeoPlatform.gov Now

November 2, 2018

**John Davidson**

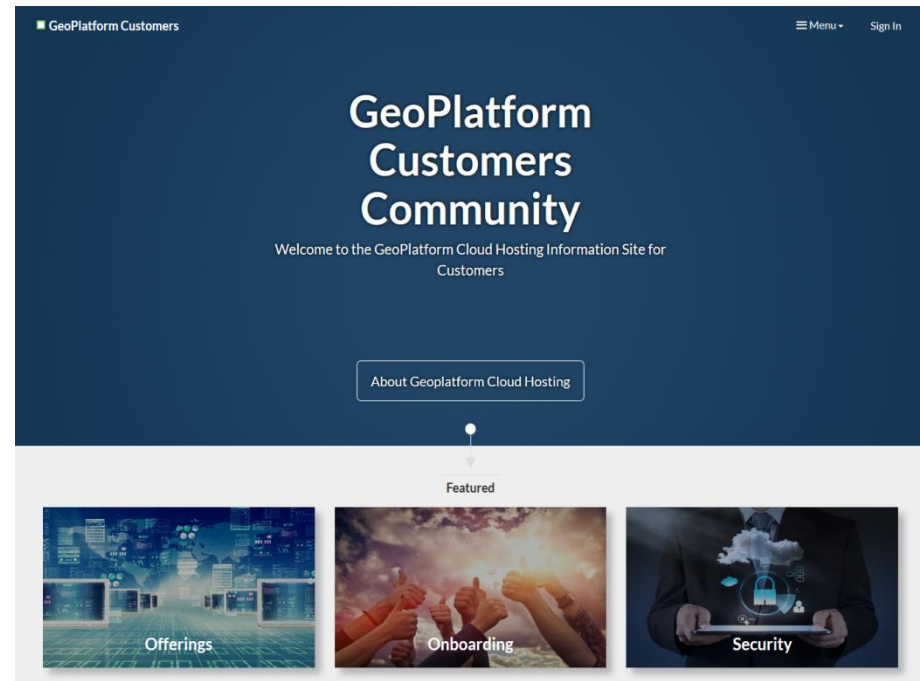
GeoPlatform Technical Team Manager, Image Matters LLC



# GeoPlatform Cloud Hosting Services

*A managed hosting service for geospatial assets of FGDC member agencies.*

- Amazon (AWS) public sector and GovCloud managed environment.
- ESRI and OpenGeo technology stacks and managed services.
- FISMA Moderate managed software
- Leveraging cloud GIS deployments
  - FEMA
  - Army Corp
  - USGS
  - BLM
  - FWS
  - DOT/Census
  - DOI
  - NPS



<https://communities.geoplatform.gov/gpcustomers>

# What's new in 2018?

*National asset integration, open interoperability, community engagement , search...*

**Open API** <https://www.geoplatform.gov/help/api/>

- OAuth2/ OpenID Connect for improved IAM and secure API

**Community Tool Kit (CTK)** <https://www.geoplatform.gov/help/ccb/ccb-ctk/>

**Resource Performance Module (RPM)**

- Collecting utilization measurements (“events”) on Portfolio Assets... Performance Dashboards coming soon!

**GeoPlatform Unified Search** <https://www.geoplatform.gov/geoplatform-search/>

**Dynamic Digital Communities**

- Refactored themes: <https://github.com/GeoPlatform/CCB-Plugins>
- Open-source plugins available for download at WordPress Marketplace: <https://wordpress.org/plugins/search/GeoPlatform/>

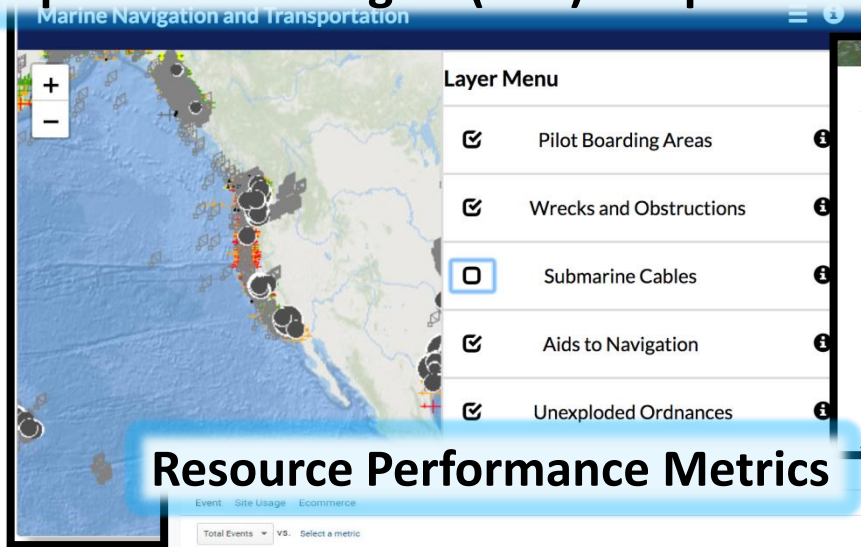
**ISO 19115-1/2/3 Metadata (Import/Export)**

- Demonstrated “EO Module” for cataloging and searching Earth Observation products

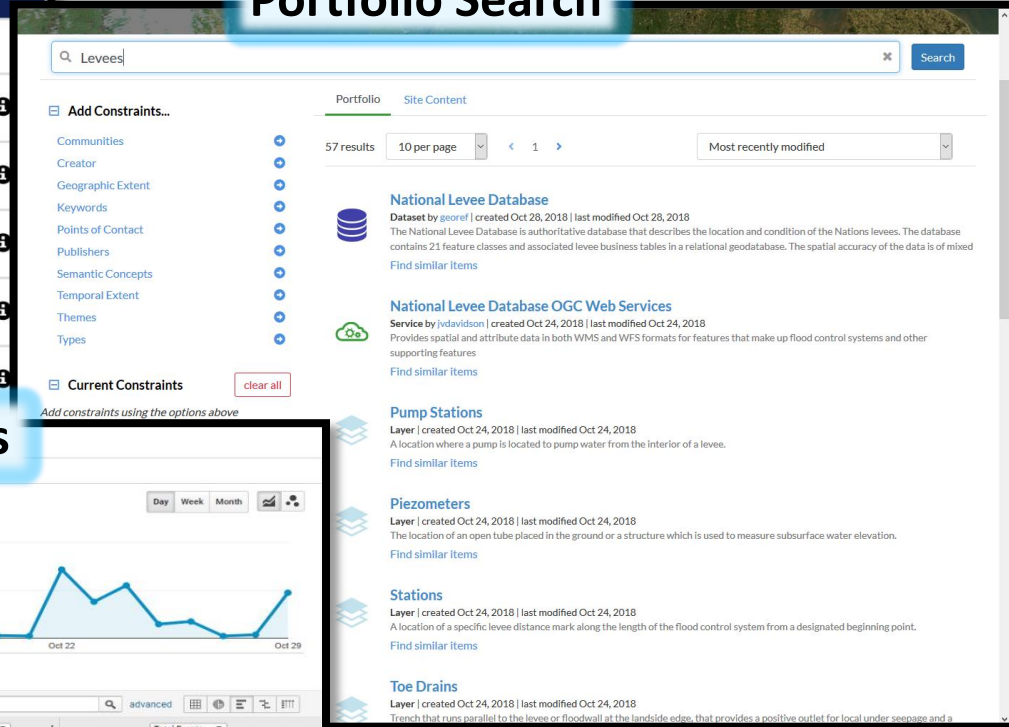


# New in 2018!

## Open Source Plugins (CTK) & Open API



## Portfolio Search



# A Day in the Life of GeoPlatform...

I'm a first time visitor to the GeoPlatform...

I've got a new web service to register so others can access...

I'm looking for authoritative levee data...

I've got a map I want to load and enhance for my people to see....

Who's got Lidar acquisition projects planned or underway for the Mid Atlantic coast?

Our inter-agency workgroup needs an online community to share the portfolio of resources we're curating...

I've got a bunch of maps I want to share in my Community Space...

Which of the services in the portfolio are not performing so well?

# GeoPlatform Main Menu

I'm a first time visitor to the GeoPlatform...

The screenshot shows the GeoPlatform main menu with several callout boxes highlighting key navigation options for first-time visitors:

- Open Menu**: Points to the 'Menu' button in the top right corner.
- Sign-up, sign-in**: Points to the 'Sign In' button in the top right corner.
- View tutorial videos on YouTube**: Points to the 'GeoPlatform on YouTube' link in the 'Featured' section.
- Visit Communities**: Points to the 'Communities' link in the 'Get Involved' section.
- About, Help, FAQ, Resources**: Points to the 'About', 'Help', 'FAQ', and 'Resources' links in the 'Explore Data' section.

The main menu is organized into three main sections:

- Featured**:
  - Release Overview
  - Map Collaboration
  - ArcGIS Online Support
  - Cloud Hosting Services
  - GeoPlatform on YouTube
- Get Involved**:
  - Communities
  - Share GeoSpatial Resources
  - Data Acquisition Services
- Explore Data**:
  - Object Editor
  - GeoPlatform ArcGIS Organization
  - Search Data.gov
  - Search Marketplace
  - Resources
  - Map Manager
  - Marketplace Preview
  - Dashboard
  - Status Checker
- About**:
  - About GeoPlatform
  - Help
  - FAQ
  - Glossary of Terms
  - Contact Us
  - Style Guide
  - Dynamic
  - Communities
- Sign-in**:
  - Data Policy
  - Privacy Policy
  - Accessibility
  - News
  - GIRA- Geospatial Interoperability Reference Architecture



# GeoPlatform Object Editor

I've got a new web service to register so others can access...

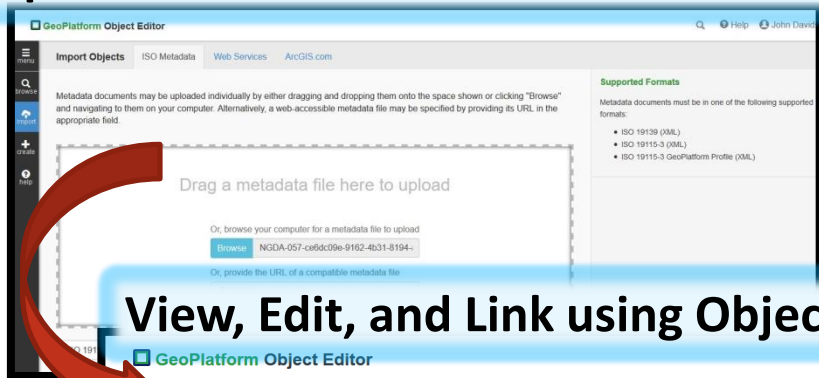
Or register a new Service Object from metadata, spreadsheet, or ArcGIS Online

Create new Service Object from scratch (just need its URL)

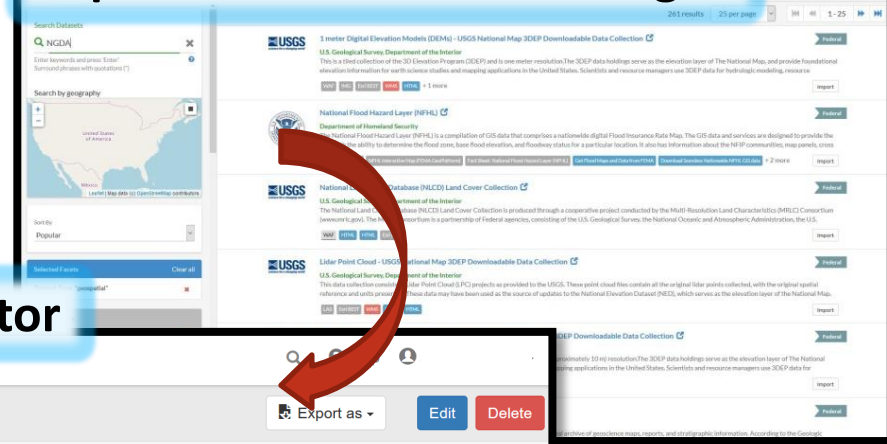
<https://oe.geoplatform.gov>

# Object Editor

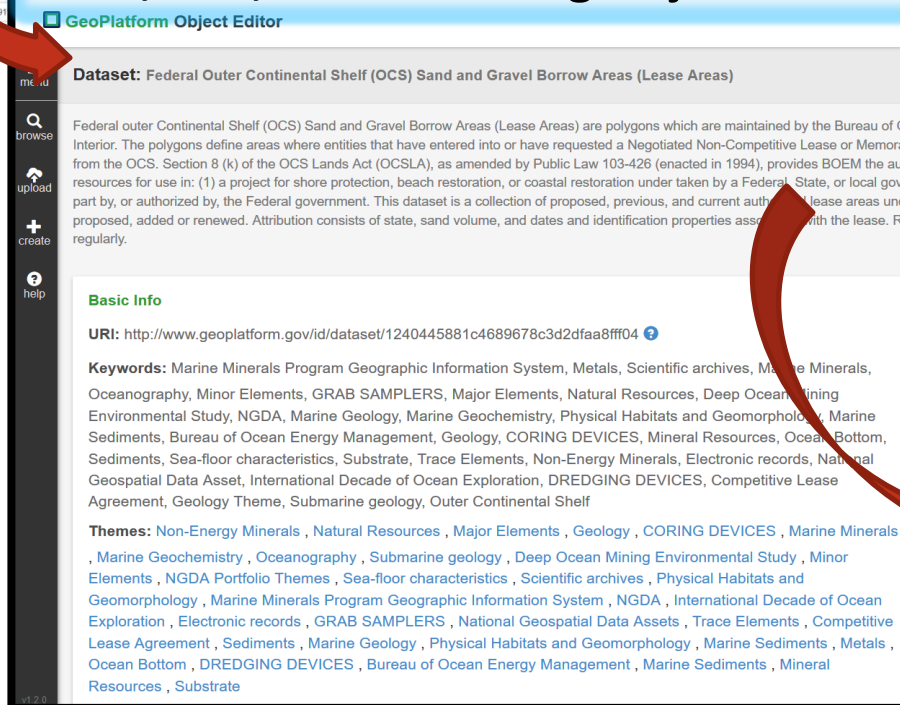
Upload metadata from URL or local file



Import metadata from data.gov



View, Edit, and Link using Object Editor



Export to ISO metadata



# GeoPlatform Search

I'm looking for authoritative levee data...

Search from GeoPlatform Portal or from within Community Spaces

Levees

Levees

55 results 10 per page 1 Most recently modified

**National Levee Database**  
Dataset by georef | created Oct 28, 2018 | last modified Oct 28, 2018  
The National Levee Database is authoritative database that describes the location and condition of the Nations levees. The database contains 21 feature types.  
Find similar items

**National Levee Database OGC Web Service**  
Service by jvdavidson | created Oct 24, 2018 | last modified Oct 24, 2018  
Provides spatial and attribute data in both WMS and WFS that make up flood control systems and other supporting infrastructure.  
Find similar items

**Pump Stations**  
Layer | created Oct 24, 2018 | last modified Oct 24, 2018  
A location where a pump is located to pump water from the levee system.  
Find similar items

**Piezometers**  
Layer | created Oct 24, 2018 | last modified Oct 24, 2018  
The location of an open tube placed in the ground or a structure to measure subsurface water elevation.  
Find similar items

**Stations**  
Layer | created Oct 24, 2018 | last modified Oct 24, 2018  
A location of a specific levee distance mark along the levee system from a designated beginning point.  
Find similar items

Found Datasets, Services, Layers, Maps with the phrase "Levees"

Levees

1 results 10 per page 1 Most recently modified

**National Levee Database**  
Dataset by georef | created Oct 28, 2018 | last modified Oct 28, 2018  
The National Levee Database is authoritative database that describes the location and condition of the Nations levees. The database contains 21 feature types.  
Find similar items

**Keywords**  
NGDA

Found the Authoritative NGDA Dataset

<https://www.geoplatform.gov/geoplatform-search/#/?keywords=NGDA&q=Levees>



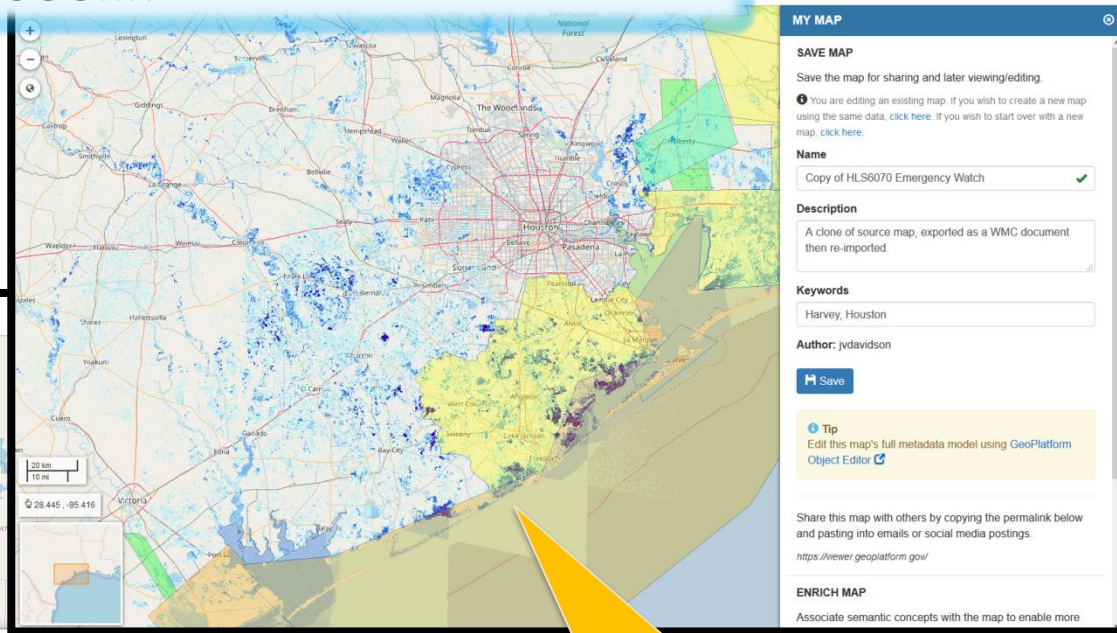
# GeoPlatform Map Viewer

I've got a map I need to quickly load, add some layers, and share for my people to see....

<https://viewer.geoplatform.gov/>

Upload a Web Map Context document...

New map created from WMC document... add more layers and save.



# GeoPlatform Marketplace

Who's got Lidar acquisitions planned or underway for the Mid-Atlantic coast?

Federal Agency (A-11)  
Planned Geospatial  
Investment Reporting

The screenshot shows the GeoPlatform Data.gov Search interface. The search bar contains 'Lidar'. The results are displayed in a faceted search format. The left sidebar shows the search bar and a map of the United States with a blue box highlighting the Mid-Atlantic coast. The main content area shows a list of results. The first result is from the USGS, titled 'USGS National Lidar and DEM Acquisition Plan Objectives for FY19 from The National Program (3DEP) - National Geospatial Data Asset (NGDA) 3D Elevation Program Data'. The second result is from the U.S. Federal Mapping Coordination, titled 'U.S. Federal Mapping Coordination'. The third result is from the NOAA Office for Coastal Management, titled 'NOAA Office for Coastal Management Planned Data Acquisition for Lidar'. The faceted search results are shown on the left sidebar, including 'Dataset Type: geospatial', 'Status: planned', 'ORGANIZATIONS', and 'TAGS'.

Faceted search

The screenshot shows the NOAA National Oceanic and Atmospheric Administration Data Catalog page for the 'U.S. Federal Mapping Coordination' dataset. The page includes a search bar, navigation links (DATA, TOPICS, IMPACT, APPLICATIONS, DEVELOPERS, CONTACT), and a 'DATA CATALOG' section. The dataset is titled 'U.S. Federal Mapping Coordination' and has a metadata update date of February 7, 2018. The description states: 'The Sandy Emergency Supplemental appropriations contained funds for federal and state agencies that will go to ocean and coastal mapping data acquisition. These data are needed for a variety of reasons - marine debris identification and removal, beach renourishment, engineering and repair decisions, habitat change assessments, nautical chart updates, inundation modeling, strengthening for future storms and coastal resilience... The list goes on, but the common thread is the need for OCM data to support decision-making. As the Integrated Working Group on Ocean and Coastal Mapping, NOAA and its collaborating federal mapping agencies are collecting information on requirements and plans of Federal and state agencies for areas impacted by Hurricane Sandy. The goal is to ensure that the emergency supplemental funding is used to "map once, use many times." The kinds of activities we'd like to include in this Sea Sketch project are requirements AND plans in the Sandy-impacted region for: hydrographic surveys (side scan/single /multibeam); topographic, bathymetric, and topobathy lidar; digital imagery; hyperspectral, etc.' The page also includes a 'Contact' section with an email address (kurt.a.nelson@noaa.gov), a 'Share on Social Sites' section with links to Google+, Twitter, and Facebook, and a 'Downloads & Resources' section with links to the dataset extent and a download button.

<https://data.geoplatform.gov/?progress=planned&h=Marketplace&q=Lidar>



# GeoPlatform Map Manager (Galleries + Communities)

I've got a bunch of maps I want to show in my Community Space...

Create or pick a Gallery

The screenshot displays the GeoPlatform Map Manager interface. On the left, a sidebar shows the gallery's metadata: 'HURRICANES', created by 'laraduffy' on Oct 16, 2018, with 16 views and 0 likes. The main area shows a grid of map thumbnails including 'NWS Storm surge prediction', 'Florence Imagery', 'Trafficability Dashboard', and 'Hazards Data Distribution System'. A yellow callout box points to the 'EMBED GALLERY' section, which provides an HTML snippet for embedding the gallery on a website. A second yellow callout box points to the 'Evacuation Routes and Emergency Locations' map, which shows a map of the Southeastern United States with various colored circles indicating locations. The right sidebar shows a search bar and a list of layers, including 'Antenna Structure Register' and 'RC\_CHAP\_HQ'.

**Embed the Gallery iFrame with other content in your Community Space or any web site...**

<https://maps.geoplatform.gov/galleries>

<https://communities.geoplatform.gov/ccb-demo/hifld-data/>

# GeoPlatform Dynamic Digital Communities

Our inter-agency workgroup needs an online community to share the portfolio of resources we are actively curating...

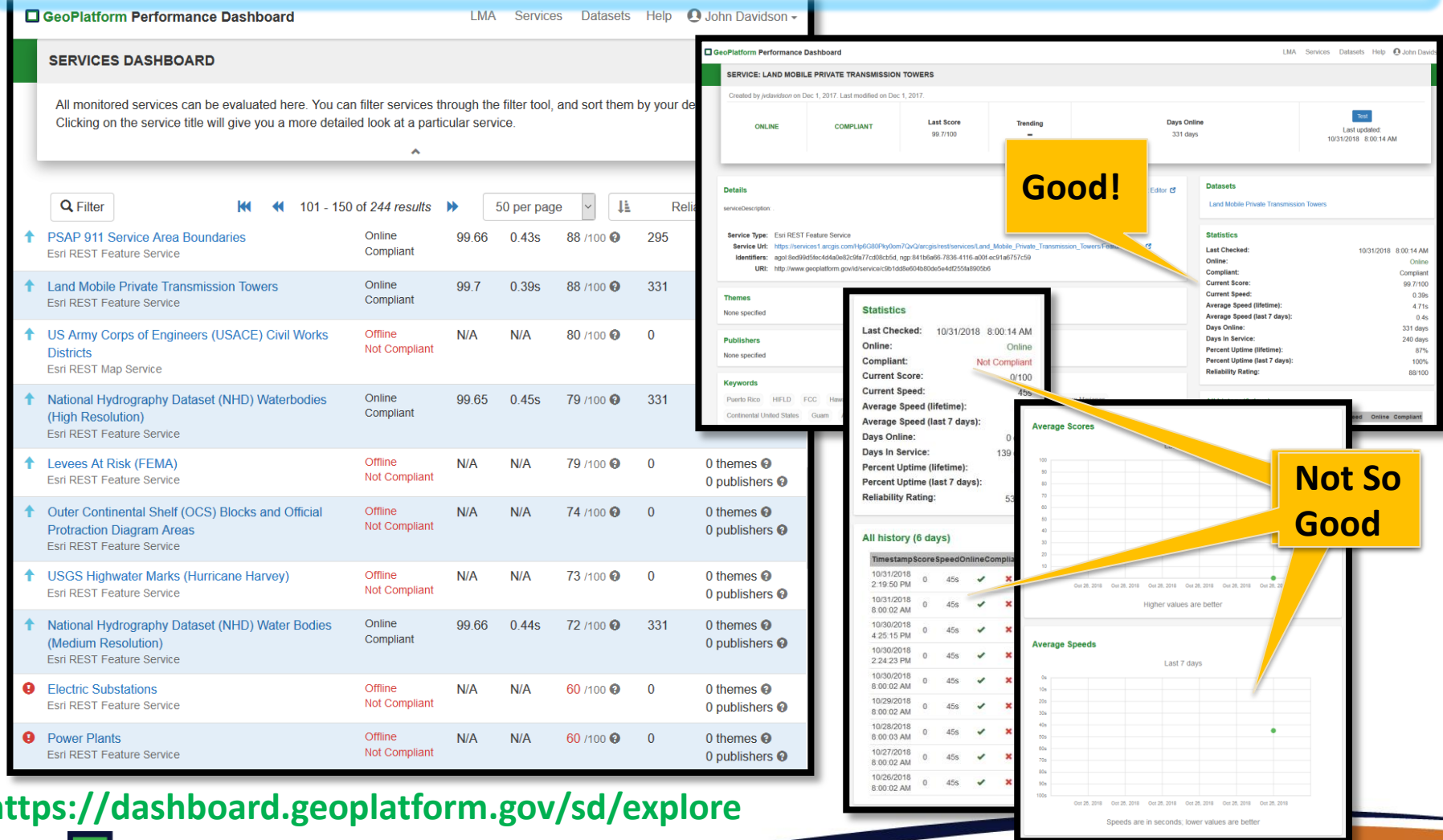
The collage displays several key components of the GeoPlatform interface:

- GeoPlatform Demonstration Community**: The main landing page with a search bar, menu, and sign-in options. A yellow callout points to the "Create or pick a Theme" section, which includes "Tools & Resources", "Natural Disasters", and "Meetings and Events".
- Community Search Plugin**: A screenshot of the "Resilience Resources" search results page, showing a list of items with details like "Water quality, meteorological, and nutrient data collected by the National Estuarine Research ...".
- Live Map Plugin**: A screenshot of a map titled "20 March 2018 East Coast Winter Storm". It features a "Layer Menu" on the right with layers like "GOES Northern Hemisphere Shortwave Infrared Composite" and "WatchesWarnings".
- Map Gallery Widgets**: A screenshot of the "Community Map Gallery" showing four map thumbnails: "NWS Storm surge prediction", "Florence Imagery", "Trafficability Dashboard", and "Hazards Data Distribution System (HDDS) (Catalog)".
- Portfolio Search Plugin**: A screenshot of the "Portfolio" search results page, showing a list of items with details like "FEMA NSS Open Shelters" and "FEMA EGIS".

<https://communities.geoplatform.gov/ccb-demo>

# GeoPlatform Performance Dashboards

## Which of the services in the portfolio are not performing so well?



<https://dashboard.geoplatform.gov/sd/explore>

# More coming...

**User experience makeover**

**Streamlined metadata workflows and portfolio management tools**

**Enterprise Search made super-easy, cross-domain vocabularies, and recommenders**

**Expand and strengthen partnerships and cross-government collaborations**

**Enrich the NGDA Theme community experience**

**New and updated Performance Dashboards**

**Extend Open API and the CTK of open-source plugins**

**Index Earth Observation products (with ISO 19115-2)**

# This afternoon...

12:45-1:00	Breakout Session Introductions	
Breakout Sessions 1:00-1:45	<b>Track 1: Metadata, Search &amp; Discovery</b>  Update on FGDC current activities and plans supporting metadata workflows, crosswalks, and standards; exploration of the state of search today; and introduction to the GeoPlatform Search.	<b>Track 2: Creating Community Spaces</b>  Exploration and demonstration of GeoPlatform.gov current and planned capabilities for managing curated portfolios of geospatial resources and improving the search experience.
1:45-2:00	Networking Break	
Breakout Sessions 2:00-2:45	<b>Track 1: Curating and Enriching Portfolio Resources</b>  Introduction to GeoPlatform Community Spaces, themes, plugins, and capabilities for curating community portfolios.	<b>Track 2: Enhancing the Community Experience with GeoPlatform CTK and Open API</b>  A deeper exploration of GeoPlatform Community Tool Kit (CTK) and Open Application Program Interface (API) for enhancing the dynamic experience.
2:45-3:15	Read Outs from Breakout Sessions and Final Audience Feedback	
3:15-3:30	Day 2 Closing	



