Integrating DHS Geospatial Tools, Infrastructure Data, and Standardized Symbology

September 13-14, 2016

www.napsgfoundation.org  |  @napsgfoundation
Introduction

[Diagram showing a flowchart with the following sections:

- Rule of Two: GIS Analyst and Public Safety Professionals
- Integrated Team, Shared Mission
- Governance: Governance is established to support policy, process, and procedural guidance for major geospatial programs.
- Standard Operating Procedures: These procedures are adopted to promote consistent methods for using GIS in support of public safety mission objectives.
- Technology: Scalable technology supports operational requirements and enhances a collaborative workflow environment.
- Training and Exercises: A regular training and testing schedule is maintained to ensure operational effectiveness.
- Use: Success in daily GIS use depends on progress and interplay among the other four elements on the Geospatial Continuum.

Additional text below the diagram:

Increasing Levels of Leadership, Planning, and Multiagency/Jurisdictional Collaboration
Increasing Investments in the Sustainability of Systems and Documentation]
Reminder! Accessing NAPSG ArcGIS Online Accounts

• Go To: [http://www.arcgis.com](http://www.arcgis.com)
• Username: ngps_firstnamelastname
• Password: ngps2016
• Credit Allocation: 20 per user
• Role: Publisher
About Us

“The HIFLD Subcommittee is responsible for developing, promoting, and executing a coordinated strategy for acquisition or development of homeland infrastructure geospatial information for Federal agencies while creating and utilizing partnerships with State, local, tribal, territorial, and private organizations.”
HIFLD Evolution: A Balanced Approach

- **Partnered** to increase and improve access to over 560 critical infrastructure geospatial layers

- **Decoupled** FOUO and licensed data from public open data

- **Balanced** between:
  - Increasing security
  - Strengthening and protecting our homeland

- **Transformed** distribution from hardcopy media to dynamic web services
HIFLD Open
URL: https://gii.dhs.gov/hifld/data/open

- 275 Re-hosted Public Data and direct Pointers to Live Data Services
  - Universally accessible as CSV, KML, and Shapefile format and available via GeoJSON and GeoService APIs

- Continued activity and feedback from users
  - Over 9,000 users since February 2016 release
Are you directly supporting Homeland Security, Homeland Defense, or Emergency Preparedness on a State or Federal level? If so, you may be eligible to access additional licensed HiFLD data.

Request Access

Explore Categories

- Agriculture
- Borders
- Boundaries
- Chemicals
<table>
<thead>
<tr>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial</td>
</tr>
<tr>
<td>Communications</td>
</tr>
<tr>
<td>Education</td>
</tr>
<tr>
<td>Emergency Services</td>
</tr>
<tr>
<td>Energy</td>
</tr>
<tr>
<td>Finance</td>
</tr>
<tr>
<td>Food Industry</td>
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<tr>
<td>Geonames</td>
</tr>
<tr>
<td>Government</td>
</tr>
<tr>
<td>Law Enforcement</td>
</tr>
<tr>
<td>Mail Shipping</td>
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<tr>
<td>Manufacturing</td>
</tr>
<tr>
<td>Mining</td>
</tr>
<tr>
<td>National Flood Hazard</td>
</tr>
<tr>
<td>National Levee Database</td>
</tr>
<tr>
<td>Natural Hazards</td>
</tr>
<tr>
<td>Public Health</td>
</tr>
<tr>
<td>Public Venues</td>
</tr>
<tr>
<td>Transportation Air</td>
</tr>
<tr>
<td>Transportation Ground</td>
</tr>
<tr>
<td>Transportation Water</td>
</tr>
<tr>
<td>Water Supply</td>
</tr>
</tbody>
</table>
Fire Stations

Description

Any location where fire fighters are stationed or based out of, or where equipment that such personnel use in carrying out their jobs is stored for ready use, Fire Departments not having a permanent location are included, in which case their location has been depicted at the city/town hall or at the center of their service area if a city/town hall does not exist. This dataset includes those locations primarily engaged in forest or grasslands fire fighting, including fire lookout towers if the towers are in current use for fire protection purposes. This dataset includes both private and governmental entities. Fire fighting training academies are also included. TGS has made a concerted effort to include all fire stations in the United States and its territories. This dataset is comprised completely of license free data. The HSIP Freedom Fire Station dataset and the HSIP Freedom EMS dataset were merged into one working file. TGS processed as one file and then separated for delivery purposes. Please see the process description for the breakdown of how the records were merged. Records with "-DOD" appended to the end of the [NAME] value are located on a military base, as defined by the Defense Installation Spatial Data Infrastructure (DISDI) military installations and military range boundaries. At the request of NGA, text fields in this dataset have been set to all upper case to facilitate consistent database engine search results. At the request of NGA, all diacritics (e.g., the German umlaut or the Spanish tilde) have been replaced with their closest equivalent English character to facilitate use with database systems that may not support diacritics. The currentness of this dataset is indicated by the [CONTDATE] field. Based upon this field, the oldest record dates from 01/03/2005 and the newest record dates from 01/11/2010.

Access and Use Constraints


Any location where fire fighters are stationed or based out of, or where equipment that such personnel use in carrying out their jobs is stored for ready use. Fire Departments not having a permanent location are included, in which case their location has been depicted at the city/town hall or at the center of their service area if a city/town hall does not exist. This dataset includes those locations primarily engaged in forest or grasslands fire fighting, including fire lookout towers if the towers are in current use for fire protection purposes. This dataset includes both private and governmental entities. Fire fighting training academies are also included. TGS has made a concerted effort to include all fire stations in the United States and its territories. This dataset is comprised completely of license free data. The HSIP Freedom Fire Station dataset and the HSIP Freedom EMS dataset were merged into one working file. TGS processed as one file and then separated for delivery purposes. Please see the process description for the breakdown of how the records were merged. Records with "-DOD" appended to the end of the [NAME] value are located on a military base, as defined by the Defense Installation Spatial Data Infrastructure (DISDI) military installations and military range boundaries. At the request of NGA, text fields in this dataset have been set to all upper case to facilitate consistent database engine search results. At the request of NGA, all diacritics (e.g., the German umlaut or the Spanish tilde) have been replaced with their closest equivalent English character to facilitate use with database systems that may not support diacritics. The currentness of this dataset is indicated by the [CONDATE] field. Based upon this field, the oldest record dates from 01/03/2005 and the newest record dates from 01/11/2010.

Access and Use Constraints
Questions?

Come visit the HIFLD Booth in the Government Neighborhood!

Or

Contact the HIFLD Support Team at hifld@hq.dhs.gov

Thank you!
Agenda

- DHS Geospatial Information Infrastructure (GII)
  - GII Overview
    - Data
    - Applications
    - Infrastructure
  - GII Portal Capabilities
  - GII Access
Geospatial Information Infrastructure (GII) Overview

What is the GII?
Provides a Sensitive But Unclassified (SBU) level technology platform capable of hosting shared geospatial enterprise applications and data delivering cost savings through reductions in duplication.

- **Collection of:**
  - **Enterprise GeoData**
    - Operation Data
    - Foundation Data
  - **Application Services**
    - Geo Visualization Services
    - Geocoding Services
    - Geo Content Management – Collaboration Services
  - **Infrastructure Support in DHS Data Center**
• Available to all users across the entire Homeland Security/Defense enterprise (Federal, State, Local, Tribal and Territories)

• Enables operators and analysts to:
  • Securely search, discover and access:
    • Imagery & Base Maps
    • DHS Operational Data
    • Foundational Data

• Store and share geospatial information
  • Private or public based on your requirements

• Create and share derived products

• Access existing common applications and tools
  • Geocoding, DHS COP, etc.

• Easily build interactive maps and customized apps
  • Field Collection, Story Maps, Heat Maps
GII Portal Login

1. Initial Login

2. Two Factor Authentication

3. Confirm Your Identity
GII Portal Landing Page

Geospatial Information Infrastructure (GII)
The GII provides a platform for shared and trusted geospatial data, services, and applications for use by the Homeland Security community.

Apps & Services

Coordination Resources

Geospatial Resources
- GeolINEPS, HSIP, & GII Documents

User Guide
- Get help on GII functionality

Geocoding Guide
- Get help on GII geocoding

Developer Guide
- Get help on GII development

How To Video
- Video on How to Use the GII

GII Common

- DHS RS EDDO Readiness Report 9-2-16
- NSGIC 2016 National State Emergency GIS_Contacts 8
- RNC Cleveland Airport Imagery
- RNC Cleveland Imagery
GII Portal Capabilities

- Geospatial Data Access
- Discovery and Content Management
- Simple Mapping Tool
- Share Maps and Apps with Others
- Communication and Collaboration Tool
GII Portal Search Results

Search Results

Show

All Results
Maps
Layers
Scenes
Apps
Tools
Files

All Layers
Web Layers
Layer Files

All Web Layers
Feature Layers
Tile Layers
Map Image Layers
Imagery Layers
Tables

Show ArcGIS Desktop Content

17 results

Reference Title Owner Rating Views Date
Receiving Hospitals (ADAMS)
The ADAMS ‘Receiving Hospital’ dataset contains the names of hospitals identified by the air medical services as the usual destinations for trauma or emergency medical transports in their service area.
Feature Layer by HPILO_Admin
Last Modified: June 21, 2016
1 star rating, 0 comments, 3 views

Emergency Services
Open Details

Hospitals
Hospitals
Feature Layer by CHRISTOPHER WENGLIO
Last Modified: August 18, 2016
1 star rating, 0 comments, 0 views

Open Details

Public Health
Urgent Care, Hospital, and Nursing Home Facilities
Feature Layer by RANDALL GOODEN
Last Modified: May 4, 2016
0 ratings, 0 comments, 0 views

Open Details

Airport Hospital and Standalone Helipad Base Locations
ADAMS was initially created in 2003 to provide a national view of air medical service coverage in the U.S. with the objective of supporting research efforts to improve emergency response to trauma scenes, in particular, to motor vehicle crashes.
Feature Layer by HPILO_Admin
Last Modified: June 14, 2016
1 star rating, 0 comments, 26 views

Open Details
GII Portal Mapping View
GII Portal Mass Casualty Map
GII Portal Groups

Invite Users

Enter a name or keyword to find users based on their profile.

Click a name to invite.

Users

Enter a search string to find people.

Add members of the organization immediately, without requiring confirmation

Click a name to remove.

Invitation List

SEND INVITATION CANCEL
ArcGIS Desktop Access to GII

- Highlighted: "Sign In..."
- HSIN Homeland Security Information Network
  - Log In with DHS PIV Authorization
  - Enter Username and Password
  - Log In
ArcGIS Desktop Access to GII

[Image of ArcGIS Desktop interface with various GIS datasets displayed, such as UPRV1, WATERSupply, TransportationWater, PublicVenues, and TransportationGround.]
ArcGIS Desktop Access to GII
How to Access GII Geodata Services

• Homeland Security Information Network (HSIN) User Account:
  • GII Portal: https://gii.dhs.gov/gii
  • ArcGIS Desktop Access
    • User Guide
    • Story Map Video

• Secure GII Token
  • System to System connection

• Portal to GII Portal
  • Username and Password
Contacts and Questions?

For general GII inquiries:  
DHS_GCOE@hq.dhs.gov

Request HSIN account to access GII services:  
DHS_GCOE@hq.dhs.gov  
Include First Name, Last Name, Organization, and Email Address

Access to GII Portal:  
https://gii.dhs.gov/gii

Lewis Summers  
GII Program Manager  
Lewis.Summers@hq.dhs.gov
Viewer Quick Reference Card for DHS Common Operating Picture

MAP LAYERS. This tool allows the user to add and view layers.

CLEAR LAYERS. This tool removes the map layers on the map.

QUERY DATA. This tool queries one or more layers within a user defined area.

ZOOM TO CONUS. This tool returns the map to the continental U.S.

FIND LOCATION. This tool zooms the map to a specific address or general location search.

PRINT MAP. This tool generates a print preview of the map.

CHOOSE BASEMAP. This tool allows the user to select different basemap views.

ADDRESS FROM POINT. This tool will identify a point on the map with its location.

DRAW. This tool allows the user to add content such as text, lines, and polygons.

MEASURE. This tool is used to calculate linear distances and areas.

DIRECTIONS. This tool allows the user to plot directions from two locations.

OPTIONS. This tool allows the user to turn on or off certain aspects of the map.

SAVE MAP VIEW. This tool allows the user to save the current map view.

LOAD MAP VIEW. This tool allows the user to load a previously saved map view.

Training: https://cop.ardentmc.net/COPS/
Live COP: https://cop.dhs.gov/dhscop
HSIN log-in credentials required
Viewer Quick Reference Card for DHS Common Operating Picture

Overview Window: In one click, you can view the details, published reports, NOC SpotRep, and incident map associated to an incident.
- Click the tabs at the top of the overview window to toggle through the information.
- To print or save a report, open the report from the Reports window, then print or save it as normal.
- To switch incidents, select it from the active incidents window.
- To open an additional incident overview window, right-click an incident and select Open Overview.

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HSIN log-in credentials required
Incident Symbology

Quick Overview and Update of the NAPSG/DHS Incident Symbology Framework

Chris Rogers, Lt. Kirkland Fire Department (WA)
Background

- NAPSG started developing the Incident Symbols Guideline in 2010
- Tested and vetted by a large community of responders, geospatial professionals, and emergency management personnel
- Developed over 400 symbols that are consistent with many other guidelines, standards, or community examples
Responders need a map to:

- Find the problem they are going to
- Identify hazards that can cause harm
- Show where people and equipment are located that help solve the problem
- Identify features to fix the problem

**Incident Symbols**
- Unit
- Feature Location
- Incident Command

**Pre-Incident Symbols**
- Hazards

**Incident Symbols**
But.....

Public Alert

- Statements
- Warning
- Watch

Infrastructure

- Helicopter
- Gas station
- Power station
- Hospital
Incident Features

- Features used to help support the incident
  - Clear circle
  - Show location where
    - People should go
    - Equipment is located
Examples

- Base
- Marine Launch
- Evacuation Feature
- Staging
- Casualty Collection Point
- Communications
- Fire Hydrant
- Civilian Staging
- Camp
- Public Information
Symbol Modifiers

Dashed line if feature is “in the future”, “not in use”, or “planned”

• Clear text on the bottom
• Arrow on symbol note direction
• Used to indicate severity or risk
• Applies to all shapes (points, lines, polygons)

<table>
<thead>
<tr>
<th>Description/Examples for Use</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>No severity or risk; Normal Operations/Status</td>
<td>White</td>
</tr>
<tr>
<td>Low severity or risk; No Damage; Open Status</td>
<td>Green</td>
</tr>
<tr>
<td>Low to medium severity or risk; Alert/Action Notice</td>
<td>Blue</td>
</tr>
<tr>
<td>Medium severity or risk; Moderate damage</td>
<td>Yellow</td>
</tr>
<tr>
<td>Medium to High severity or risk; Watch Notice;</td>
<td>Orange</td>
</tr>
<tr>
<td>High severity or risk; Warning Notice; Severe Damage; Closed Status</td>
<td>Red</td>
</tr>
<tr>
<td>Extreme severity or risk; Highest category possible.</td>
<td>Purple</td>
</tr>
</tbody>
</table>
Incident Command Location

- Consistent with NIMS
- Clear Rectangle
- Location of the person in charge
• Clear “Oval”
• Used to map location of the “Unit Working”
• Effective when “passive” data is collected
There is always an exception

- Command Post (not a circle)
- Use Clear Text to explain

- Color (Treatment in this example)
- Represents “Green Patient” value
If it looks like it?
Hazards

• The most important symbols
• Derived from several hazard features

General Hazard

DHS “Incident” Symbology

DOT HazMat Placarding
Preplanned Features

- Has its roots in fire department pre-fire planning
- Can be broadly defined
- Symbols have color background
Public Alert & Warning and Infrastructure
Background

- 2014 NAPSG began developing set of standardized symbols for IPAWS Event Codes
  - Key partnerships with DHS GMO and FEMA IPAWS
- Applies and is consistent with NAPSG’s Incident Symbology Guideline
  - Flexible and scalable framework for use in developing and applying map symbols for public safety
- Result - Group of specific symbols for IPAWS event codes that achieve standardization and are publically available for use nationwide
- Outcomes:
  - When applied in public safety decision support tools, aids in consistently communicating public alert and warning information on maps
  - When used in alerts and warnings, aids in optimizing message content for people with disabilities and limited English proficiency
### Public Alert & Warning Symbol Set – Part 1

<table>
<thead>
<tr>
<th>Emergency Action Notification</th>
<th>Avalanche Warning</th>
<th>Avalanche Watch</th>
<th>Blizzard Warning</th>
<th>Child Abduction Emergency</th>
<th>Civil Danger Warning</th>
<th>Civil Emergency Message</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Symbol" /></td>
<td><img src="image2" alt="Symbol" /></td>
<td><img src="image3" alt="Symbol" /></td>
<td><img src="image4" alt="Symbol" /></td>
<td><img src="image5" alt="Symbol" /></td>
<td><img src="image6" alt="Symbol" /></td>
<td><img src="image7" alt="Symbol" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Coastal Flood Warning</th>
<th>Costal Flood Watch</th>
<th>Dust Storm Warning</th>
<th>Earthquake Warning</th>
<th>Evacuation Immediate</th>
<th>Fire Warning</th>
<th>Flash Flood Warning</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image8" alt="Symbol" /></td>
<td><img src="image9" alt="Symbol" /></td>
<td><img src="image10" alt="Symbol" /></td>
<td><img src="image11" alt="Symbol" /></td>
<td><img src="image12" alt="Symbol" /></td>
<td><img src="image13" alt="Symbol" /></td>
<td><img src="image14" alt="Symbol" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flash Flood Watch</th>
<th>Flash Flood Statement</th>
<th>Flood Warning</th>
<th>Flood Watch</th>
<th>Flood Statement</th>
<th>Hazardous Materials Warning</th>
<th>High Wind Warning</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image15" alt="Symbol" /></td>
<td><img src="image16" alt="Symbol" /></td>
<td><img src="image17" alt="Symbol" /></td>
<td><img src="image18" alt="Symbol" /></td>
<td><img src="image19" alt="Symbol" /></td>
<td><img src="image20" alt="Symbol" /></td>
<td><img src="image21" alt="Symbol" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>High Wind Watch</th>
<th>Hurricane Warning</th>
<th>Hurricane Watch</th>
<th>Hurricane Statement</th>
<th>Law Enforcement Warning</th>
<th>Local Area Emergency</th>
<th>911 Telephone Outage Emergency</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image22" alt="Symbol" /></td>
<td><img src="image23" alt="Symbol" /></td>
<td><img src="image24" alt="Symbol" /></td>
<td><img src="image25" alt="Symbol" /></td>
<td><img src="image26" alt="Symbol" /></td>
<td><img src="image27" alt="Symbol" /></td>
<td><img src="image28" alt="Symbol" /></td>
</tr>
</tbody>
</table>
### Public Alert & Warning Symbol Set – Part 2

<table>
<thead>
<tr>
<th>Nuclear Power Plant Warning</th>
<th>Radiological Hazard Warning</th>
<th>Severe Thunderstorm Warning</th>
<th>Severe Thunderstorm Watch</th>
<th>Severe Weather Statement</th>
<th>Shelter In Place Warning</th>
<th>Special Marine Warning</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Symbol" /></td>
<td><img src="image2" alt="Symbol" /></td>
<td><img src="image3" alt="Symbol" /></td>
<td><img src="image4" alt="Symbol" /></td>
<td><img src="image5" alt="Symbol" /></td>
<td><img src="image6" alt="Symbol" /></td>
<td><img src="image7" alt="Symbol" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Special Weather Statement</th>
<th>Tornado Warning</th>
<th>Tornado Watch</th>
<th>Tropical Storm Warning</th>
<th>Tropical Storm Watch</th>
<th>Tsunami Warning</th>
<th>Tsunami Watch</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image8" alt="Symbol" /></td>
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<td><img src="image14" alt="Symbol" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Volcano Warning</th>
<th>Winter Storm Warning</th>
<th>Winter Storm Watch</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image15" alt="Symbol" /></td>
<td><img src="image16" alt="Symbol" /></td>
<td><img src="image17" alt="Symbol" /></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Infrastructure

- Supports HIFLD data set
- 75 tested symbols this phase
  - A minimum of one in each CIP Category
- Base shape rectangle with rounded corners
Supporting Options

Dashed line to indicate “Status” or “Service Level”

Color Ramp to indicate “Damage”
NAPSG SLT

- Contains
  - PNG and SVG
  - ESRI Style Sheet
- Program Agnostic
Exercise

- From Simple to Complex
- What is needed
  - Google Earth
  - NAPSG AGOL Account

<table>
<thead>
<tr>
<th>&quot;Lay Responder&quot;</th>
<th>GIS Analyst</th>
<th>&quot;GIS Coordinator&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create a KMZ File with the NAPSG SLT Symbols</td>
<td>Display KMZ on AGOL Web Map</td>
<td>Produce simple “COP” Map</td>
</tr>
<tr>
<td>Command Post, Staging, Base</td>
<td>Leverage other feature services</td>
<td>Aggregate data</td>
</tr>
<tr>
<td>Send KMZ GIS Analyst</td>
<td>• USAR Feature Service</td>
<td>• HIFLD CIP Data</td>
</tr>
</tbody>
</table>
Creating a Simple Map

- Create a KMZ File with the NAPSG SLT Symbols
- Command Post, Staging, Base
Organize and Send

• Group features into folder
• Right Click and Send to “GIS Analyst”
GIS Analyst

• Add KMZ to a Web Map
  • Add KML to your Account
Add Additional Feature Services

- Infrastructure
- Public Alert
- Preplan
- Incident
- Hazard
- USAR
How to Aggregate ("GIS Coordinator")

• Discussion
• How to manage information
  • Heat Map?
  • Selective Layering?
  • Scale Dependencies
  • Active querying
• Beyond “Dots on a Map”
Summary

• Improved and expanded the ISWG Symbol Guideline
• Work on supporting a standardized framework for IPAWS and Infrastructure Symbols
• Continued the work on combining these workflows together.