

Virtual Training: Advancements in Public Alert & Warning Capabilities for Building Safer Communities

September 1, 2016

In Collaboration With:



FEMA

Instructor Introductions

Wade Witmer

Deputy Director, FEMA IPAWS

Lewis Summers

GII Program Manager, Geospatial Management Office, DHS

Rebecca Harned

Assistant Director, NAPSG Foundation

NAPSG: Who We Are

- **Our Vision** - A Nation of emergency responders and leaders equipped with the knowledge and skills in applying technology and data to change the outcome for survivors.
- **Our Mission** - To equip emergency management & public safety with the knowledge, skills, and resources to apply decision support technology and data in enhancing preparedness and building a more resilient nation.

Background

- 501 (c) (3) Not-for-Profit Organization
- Board of Directors are public safety practitioners
- NAPSG formed in 2005 as informal alliance of national associations
- Evolved to a formal organization to better serve public safety



ICMA



Training Purpose

In this virtual training, participants will gain **awareness-level knowledge** on the Integrated Public Alert and Warning Systems (IPAWS) and Wireless Emergency Alerts (WEA), how they are integrated into the Geospatial Information Infrastructure (GII), and how your agency can use these tools in building safer communities.

Training Objectives

- **Learn how** and what IPAWS is all about and how it can benefit your agency and the communities you serve.
- **Gain insight** on IPAWS enhancement efforts to increase effectiveness
- **Learn how** IPAWS data has been integrated and is available in the GII – and what it means to you.
- **Get a live demonstration** on what public alert & warning data and symbols look like when integrated into GIS tools.

Key Terminology

- IPAWS – Integrated Public Alert and Warning System
- EAS – Emergency Alert System
- WEA – Wireless Emergency Alerts
- CAP – Common Alerting Protocol
- GII – Geospatial Information Infrastructure
- COP – Common Operating Picture

Agenda

2:00pm – Introduction (*Rebecca Harned*)

2:05pm – IPAWS Overview (*Wade Witmer*)

2:15pm – IPAWS/WEA Enhancement Efforts (*Wade Witmer*)

2:25pm – IPAWS Data Integration & Availability in the GII for Local/State (*Lewis Summers*)

2:40pm – Public Alert & Warning Symbolology for Public Safety Mapping (*Rebecca Harned*)

2:50pm – Participant Questions & Answers (*All*)

IPAWS Overview & Enhancements

Wade Witmer



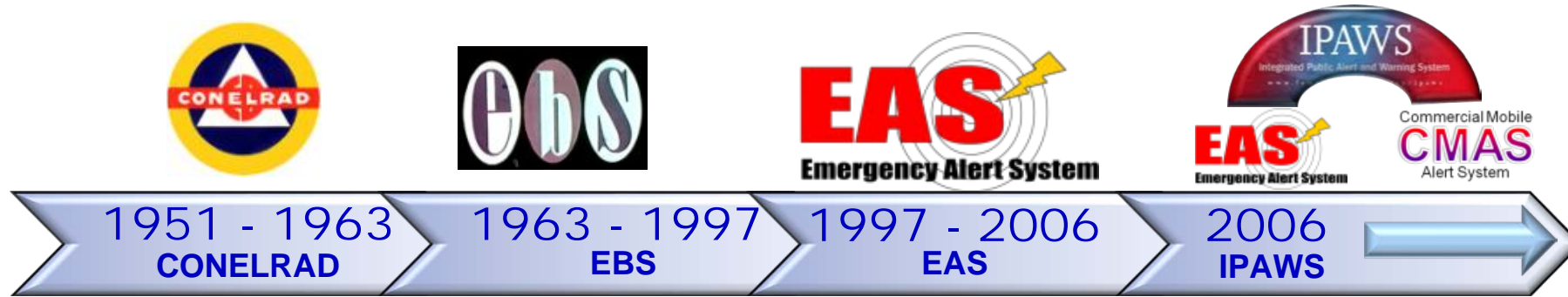
Advancements in Public Alert & Warning Capabilities for Building Safer Communities

Wade Witmer, Deputy Director
FEMA IPAWS
September 1, 2016



FEMA

The Evolution of Emergency Alerting



Originally called the “Key Station System,” the **CONTROL** of **ELECTROMAGNETIC RADIATION** (CONELRAD) was established in August 1951.

Participating stations tuned to 640 & 1240 kHz AM and initiated a special sequence and procedure designed to warn citizens.

EBS was initiated to address the nation through audible alerts. It did not allow for targeted messaging.

System upgraded in 1976 to provide for better and more accurate handling of alert receptions.

Originally designed to provide the President with an expeditious method of communicating with the American Public, it was expanded for use during peacetime at state and local levels.

EAS jointly coordinated by the FCC, FEMA and NWS.

Designed for President to speak to American people within 10 minutes.

EAS messages composed of 4 parts:

- Digitally encoded header
- Attention Signal
- Audio Announcement
- Digitally encoded end-of-message marker

Provided for better integration with NOAA weather and local alert distribution to broadcasters

IPAWS modernizes and integrates the nation’s alert and warning infrastructure.

Integrates new and existing public alert and warning systems and technologies thru adoption of new alert information exchange format - the Common Alerting Protocol or CAP

Provides authorities a broader range of message options and multiple communications pathways



FEMA

What is IPAWS?

IPAWS is a *National System* for *Local Alerting*

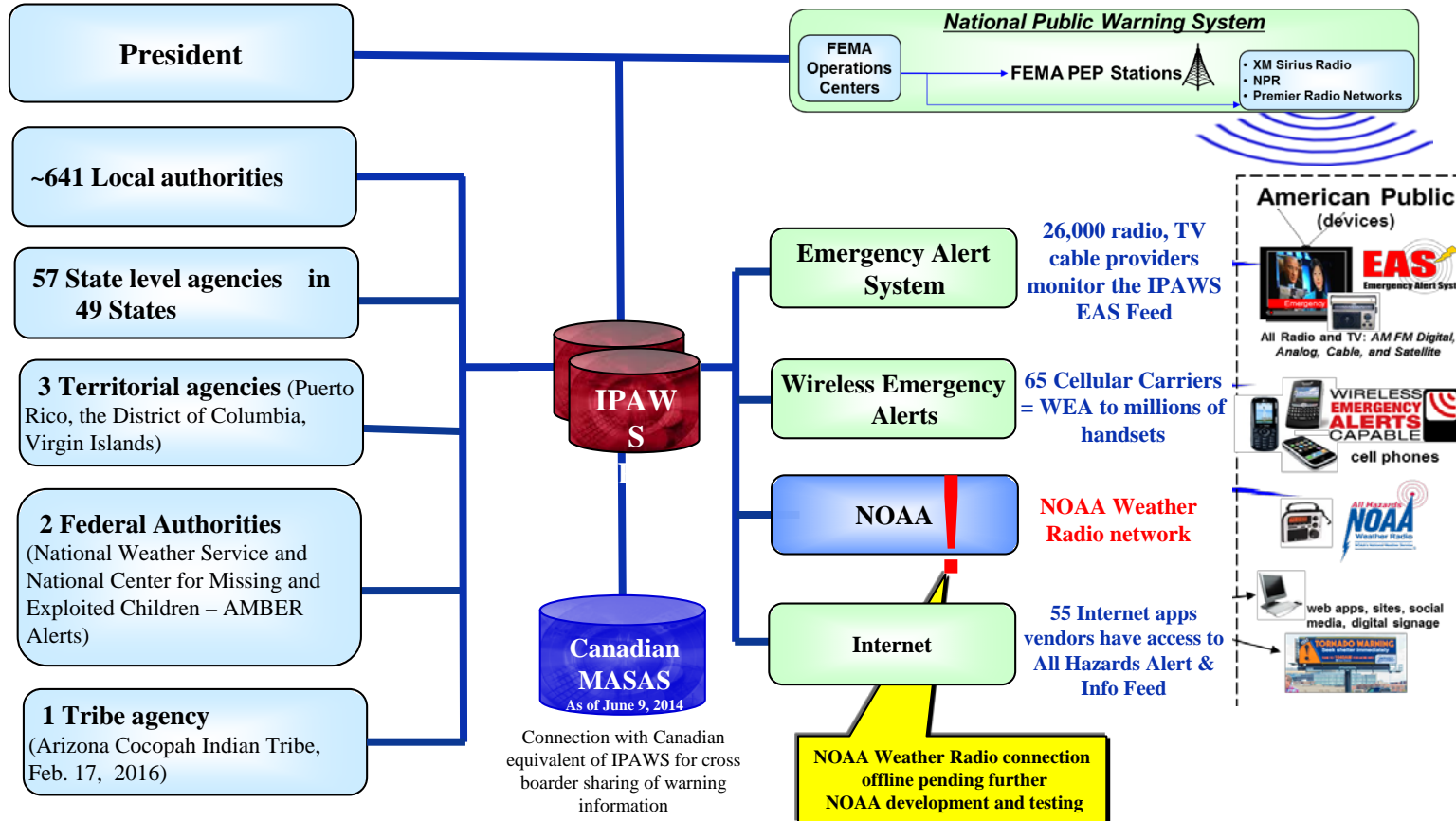
- Authenticated emergency alert and information messaging from emergency officials to the public through IPAWS connections to:
 - radio and television as Emergency Alert System broadcasts
 - cellular phones as Wireless Emergency Alerts
 - NOAA All Hazards Weather Radio
 - Internet applications and websites
- FEMA, tasked by DHS, is responsible for:
 - Development, operation, integration, and maintenance of the IPAWS which includes EAS, WEA, NOAA HazCollect, and IPAWS Alerts Feed components plus future connections for alerting
 - And making it available for state/local/territorial/tribal use
- Executive Order 13407:
 - “Include in the public alert and warning system the capability to alert and warn all Americans, including those with disabilities and those without an understanding of the English language.”

IPAWS is Not:

- Not a subscription based mass notification system
- Not an ETN or reverse dial phone system
- Not an SMS or email sign up service
- Not a paging or distribution list notification system
 - e.g. can't send a recall notice to a select group of employees
- **IPAWS supports:**
 - Emergency public warning information
 - urgent messages and information to protect and manage public safety
 - Warning all citizens in any given area
 - residents and visitors

IPAWS Users & Stakeholders

IPAWS Users as of March 2016: (IPAWS office receives approx. five new applications per week)



FEMA

When is IPAWS used?

When public safety officials need to warn of a threat to public safety:

- | | | |
|--------------------------|-------------------------|-------------------------------------|
| ✓ Evacuation | Distribution Location | ✓ Pipe Line Break |
| ✓ Shelter-In-Place | ✓ Emergency Relief | ✓ Extreme Weather |
| ✓ Law Enforcement | Location | ✓ Flooding |
| Situations | ✓ Emergency Shelter | ✓ Volcano |
| ✓ 911 Outage | Locations | ✓ Earthquakes |
| ✓ Road Closure | ✓ Dam Release Alert | ✓ Wildfires |
| ✓ Chemical Spill/Release | ✓ Critical Power Outage | ✓ Child Abductions/
AMBER Alerts |
| ✓ Water Contamination | ✓ Nuclear Accident | |
| ✓ Emergency Water | ✓ Landslide | |



IPAWS Usage

(As of March 2016)

39,849

- messages processed per month

21,712

- WEA Alerts by NOAA via IPAWS

3,094

- WEA Alerts sent by other Users via IPAWS

635

- WEA AMBER Alerts sent via IPAWS



FEMA

Feb 23-25, 2016 Tornadoes

“I have been doing (storm) surveys for over 25 years...never heard it all come together as well as this as told by the people in the path. With WEA, they got the warning and they immediately took action.”

-- Meteorologist-in-Charge, NWS State College (PA)



“Dozens and dozens of people yesterday told us how they got our tornado warnings via WEA on their cell phone (and) took action before their house was damaged or destroyed.”

-- Meteorologist-in-Charge, NWS New Orleans (LA)



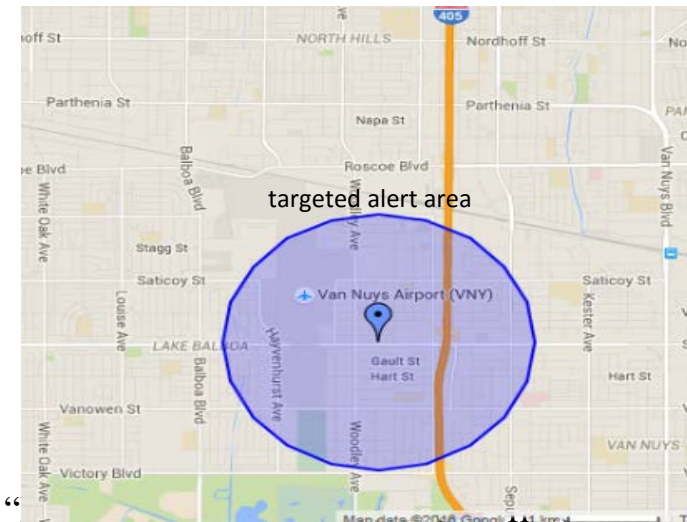
FEMA

WEA example:

Los Angeles Police Depart Active Shooter Warning



WEA broadcast to cellular phones in a 1-mile radius

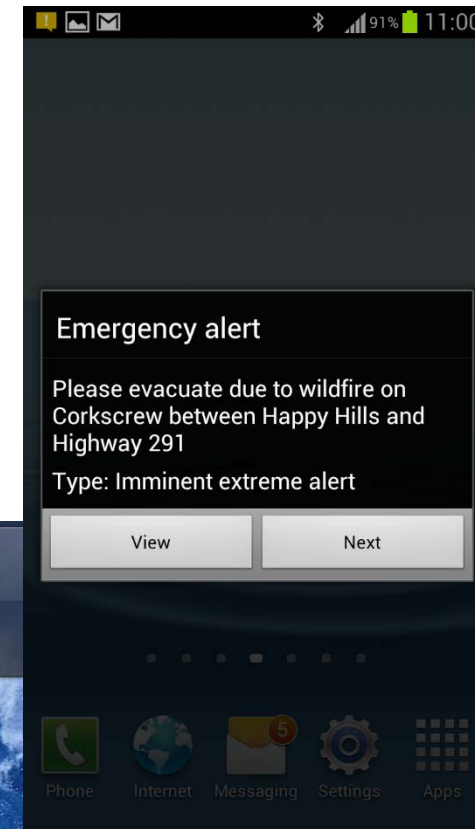
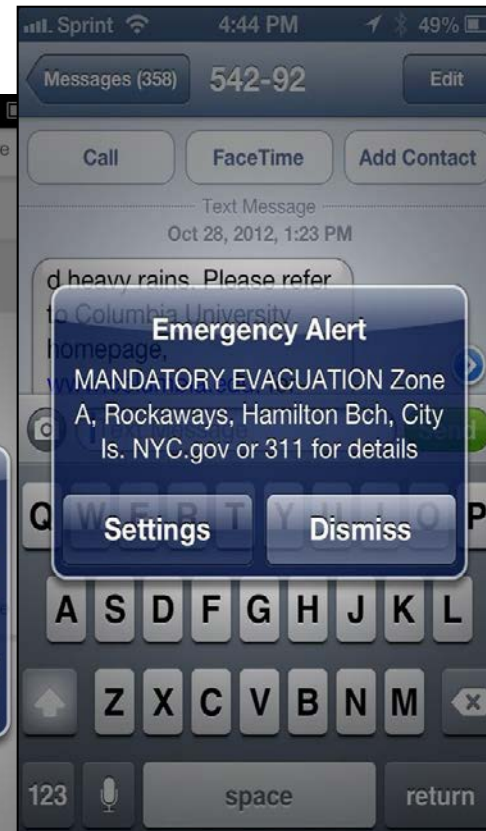


“... PD appeared to have sent an [emergency alert to cellphones](#) in the area at about 4 p.m., warning of “suspect shooting from balcony.” ... The unidentified man surrendered to police around 5:45 p.m. and was taken away in handcuffs.” - KTLA News 5 Report



FEMA

Effective WEA Use Examples:



FEMA

Collaborative Efforts

- FCC Notice of Proposed Rulemaking
- Radiological Emergency Preparedness Program (REPP) Community Integration
- IPAWS National Test
- IPAWS Modernization Act

Federal Communications Commission

Notice of Proposed Rulemaking (NPRM)

- March 2013 – FCC established a committee to make recommendations for WEA improvements
- November 2015 – FCC issued a NPRM requesting public comments
- January 2016 – FCC released new NPRM aimed at improving the Emergency Alert System and Wireless Emergency Alerts
- FCC Recommends
 - increasing WEA message length from 90 to 360 characters
 - allowing URLs and telephone numbers to be included in WEA messages (previously prohibited)
 - including multimedia in WEA messages
 - supporting multilingual WEA messages
 - improving geo-targeting capabilities

REPP Community Integration

- Is enhancing its alerting features and leveraging IPAWS
- Moving away from traditional siren-only alerting and incorporating WEA
- The REPP Program Manual encourages the integration of IPAWS with offsite alert and notification plans



FEMA

IPAWS/EAS National Test

- Phase I – Controlled test in the Joint Interoperability Test Command (JITC) laboratory
- Phase II – Series of ISSRTs using the National Periodic Test message event code
- Phase III – Live end-to-end IPAWS National Test, September 28, 2016

Integrated Public Alert and Warning System (IPAWS) Modernization Act of 2015 (Public Law 114-143)

- Became Public Law 114-143 upon signature of the President of the United States on April 11, 2016
- Ensures that the President of the United States can alert appropriate parties in the event of a disaster
- Incorporates multiple communication technologies
- Ensures accessibility to large portions of the population
- Makes information available to individuals with access and functional needs and those with limited English proficiency
- Calls for the establishment of National Advisory Council (NAC) Integrated Public Alert and Warning System (IPAWS) Subcommittee

Alerting the *Whole Community*

Effectively alerting all people including those with disabilities, access and functional needs, and limited English proficiency is a challenge!

- No *single* communications system will alert *everyone*
 - Not everyone will be watching TV or listening to the radio
 - Not everyone will hear sirens
 - Not everyone owns a weather radio
 - Not everyone will be subscribed to the local alerting phone list/app
- Reaching the whole community requires communicating on as many pathways as possible
 - Recent surveys note people with disabilities increasingly use smart phones to assist with communications
- Using IPAWS can assist
 - Distribute alert info *simultaneously* to many communications channels
 - Post alert detail to web pages/social media and inform local media
 - Make alerts available to assistive technology vendors and website tools



FEMA

The Symbology Initiative

- Working toward the development a common, national symbol set/symbol characteristics
- Seeking to make public alerts and warnings more effective for:
 - People with disabilities or Limited English Proficiency (LEP)
 - The whole community
- Although the first 16 symbols are WEA symbols, they are ultimately intended for use with:
 - WEA
 - EAS
 - Computer and phone apps (on maps, etc)
 - Television broadcasts of emergencies and incidents.

Symbology Partners

- FEMA IPAWS
- DHS Geospatial Management Office
- National Alliance for Public Safety GIS Foundation (NAPSG)

(symbol library: <http://www.napsgfoundation.org/all-resources/symbology-library/>)

And...all users and developers of alerts. We would like your input and support!


Current Public Alert and Warning Symbols (available in PNG, SVG, and TTF formats)

	Avalanche Warning (AVW)		Flood Warning (FLW)
	Blizzard Warning (BZW)		Hurricane Warning (HUW)
	Child Abduction Emergency (CAE)		Law Enforcement Warning (LEW)
	Civil Emergency Message (CEM)		Local Area Emergency (LAE)
	Dust Storm Warning (DSW)		Nuclear Power Plant Warning (NUW)
	Earthquake Warning (EQW)		Radiological Hazard (RHW)
	Fire Warning (FRW)		Shelter in Place Warning (SPW)
	Flash Flood Warning (FFW)		Tornado Warning (TOR)



FEMA

Symbology Device Depictions




FEMA

Alert Information View


Message Identifier: Sender: Sent Date:

Headline:




LAW ENFORCEMENT WARNING

A warning of a bomb explosion, riot, or other criminal event (e.g., a jailbreak). An authorized law enforcement agency may blockade roads, waterways, or facilities, evacuate or deny access to affected areas, and arrest violators or suspicious persons.



VEA TEXT

Test-Law Enforcement Warning, Evacuate Eastern Prince William, - PW EMA



EAS TEXT

A CIVIL AUTHORITY HAS ISSUED A LAW ENFORCEMENT WARNING FOR THE FOLLOWING COUNTRIES/AREA: ALEXANDRIA (CITY), VA, STAFFORD, VA ; AT 08:18 PM ON JUL 12 2016



QUESTIONS?

Wade Witmer
FEMA IPAWS



FEMA

IPAWS Data Integration & Availability in the GII for Local/State

Lewis Summers



Homeland
Security

Geospatial Information Infrastructure (GII)

**National Alliance for Public Safety GIS Foundation Webinar Presentation
Advancement in Public Alert & Warning**

Prepared by Lewis Summers - GMO
1 September 2016

- DHS Geospatial Information Infrastructure (GII)

- GII Portal Application

- IPAWS Layer

- Search
 - Metadata
 - Map
 - Access



[HOME](#) [GALLERY](#) [MAP](#) [SCENE](#) [GROUPS](#) [MY CONTENT](#) [MY ORGANIZATION](#)

Lewis

IPAWS

services, and applications for use by the Homeland Security community

Apps & Services



Powered by GII



Powered by GII



Powered by GII



Powered by GII



Powered by GII



Powered by GII

Coordination Resources



GeoCONOPS



HSIN



OGC

Geospatial Resources

GeoCONOPS, 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

Videos on How to Use the GII

GII Common



DHS RS IDIQ Readiness Report 8-19-16



RNC Cleveland Airport Imagery



RNC Cleveland Imagery



DNC Wells Fargo Center Imagery

IPAWS Discovery from Search Results



Homeland
Security

HOME GALLERY MAP SCENE GROUPS MY CONTENT MY ORGANIZATION

Lewis

IPAWS



Search Results

Show

11 results

All Results

Maps
Layers
Scenes
Apps
Tools
Files

☐ Show ArcGIS Desktop Content

Related Searches

Find items published by Esri related to "IPAWS"

Find groups related to "IPAWS"

Search External Sites

Geospatial Platform (Data.gov)

ArcGIS Online

Relevance Title Owner Rating Views Date

More Information

What types of items can I find here?

Advanced search options

Finding layer packages and other ArcGIS desktop content.



Open Details

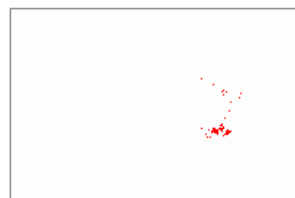
Integrated Public Alert and Warning System (IPAWS)
Common Alerting Protocol
Map Image Layer by LEWIS.SUMMERS
Last Modified: August 22, 2016
★★★★★ (0 ratings, 0 comments, 82 views)

Select Details to view
IPAWS Metadata



Open Details

IPAWS Alerts View - Southern Nevada
Copy of the IPAWS Alerts View map with the Las Vegas Valley Urban Disposal Boundary Added
Web Map by RICHARD.WELLS
Last Modified: June 5, 2014
★★★★★ (0 ratings, 0 comments, 31 views)



Open Details

IPAWS
Feature Layer by LEWIS.SUMMERS
Last Modified: August 22, 2016
★★★★★ (0 ratings, 0 comments, 12 views)

Integrated Public Alert and Warning System (IPAWS)



Common Alerting Protocol

Map Image Layer by LEWIS.SUMMERS

Source: Map Service

Last Modified: August 22, 2016

★★★★★ (0 ratings, 84 views)

OPEN

SHARE

EDIT

DELETE

MOVE

Description

During an emergency, alert and warning officials need to provide the modernization and integration of the nation's alert and warning information.

Common Alerting Protocol

Map Contents

Integrated Public Alert and Warning System (IPAWS)

<https://gii.dhs.gov/ags/rest/services/GEP/IPAWS/MapServer/0>

Properties

Click on URL to View more Metadata

Shared with	Organization
Credits	Common Alerting Protocol (CAP), IPAWS, FEMA, NWS
Size	1 KB
Delete Protection	Disabled
Extent	Left: -163.02 Right: -54.58 Top: 70.92 Bottom: 17.99

Fields:

- GEPFS.GES.InfoAreaGeom.OBJECTID (type: esriFieldTypeOID , alias: OBJECTID)
- GEPFS.GES.InfoAreaGeom.areaID (type: esriFieldTypeString , alias: Area ID , length: 50)
- GEPFS.GES.InfoAreaGeom.polygon (type: esriFieldTypeString , alias: Area polygon , length: 2048)
- GEPFS.GES.InfoAreaGeom.circle (type: esriFieldTypeString , alias: Area circle , length: 50)
- GEPFS.GES.InfoAreaGeom.geocode (type: esriFieldTypeString , alias: Area geocode , length: 50)
- GEPFS.GES.InfoAreaGeom.geocodeValue (type: esriFieldTypeString , alias: Area geocode value , length: 50)
- GEPFS.GES.InfoAreaGeom.identifier (type: esriFieldTypeString , alias: Message ID , length: 50)
- GEPFS.GES.InfoAreaGeom.infoID (type: esriFieldTypeString , alias: Info ID , length: 50)
- GEPFS.GES.InfoAreaGeom.SHAPE (type: esriFieldTypeGeometry , alias: SHAPE)
- SHAPE.STArea() (type: esriFieldTypeDouble , alias: SHAPE.STArea())
- SHAPE.STLength() (type: esriFieldTypeDouble , alias: SHAPE.STLength())
- GEPFS.GES.Info.OBJECTID (type: esriFieldTypeInteger , alias: OBJECTID)
- GEPFS.GES.Info.identifier (type: esriFieldTypeString , alias: Message ID , length: 50)
- GEPFS.GES.Info.language (type: esriFieldTypeString , alias: Language , length: 50)
- GEPFS.GES.Info.event (type: esriFieldTypeString , alias: Event type , length: 50)
- GEPFS.GES.Info.urgency (type: esriFieldTypeString , alias: Urgency , length: 50 , Coded Values: [Immediate: taken soon (within next hour)] , [Future: Responsive action SHOULD be taken in the near future] , ...2 more...)
- GEPFS.GES.Info.severity (type: esriFieldTypeString , alias: Severity , length: 50 , Coded Values: [Extreme: Extreme Possible threat to life or property] , ...2 more...)
- GEPFS.GES.Info.certainty (type: esriFieldTypeString , alias: Certainty , length: 50 , Coded Values: [Observed: but not likely (p <= ~50%)] , ...2 more...)
- GEPFS.GES.Info.audience (type: esriFieldTypeString , alias: Audience , length: 50)
- GEPFS.GES.Info.effective (type: esriFieldTypeDate , alias: Effective date/time , length: 36)
- GEPFS.GES.Info.onset (type: esriFieldTypeDate , alias: Onset date/time , length: 36)
- GEPFS.GES.Info.expires (type: esriFieldTypeDate , alias: Expiration date/time , length: 36)
- GEPFS.GES.Info.senderName (type: esriFieldTypeString , alias: Sender name , length: 250)
- GEPFS.GES.Info.headline (type: esriFieldTypeString , alias: Headline , length: 250)
- GEPFS.GES.Info.description (type: esriFieldTypeString , alias: Description , length: 1073741822)
- GEPFS.GES.Info.instruction (type: esriFieldTypeString , alias: Instructions , length: 2048)
- GEPFS.GES.Info.web (type: esriFieldTypeString , alias: Information URL , length: 2048)
- GEPFS.GES.Info.contact (type: esriFieldTypeString , alias: Contact info , length: 2048)
- GEPFS.GES.Info.infoID (type: esriFieldTypeString , alias: Info ID , length: 50)



Search Results

Show

11 results

[Relevance](#) [Title](#) [Owner](#) [Rating](#) [Views](#) [Date](#)

More Information

All Results

Maps
Layers
Scenes
Apps
Tools
Files

☐ Show ArcGIS Desktop Content

Related Searches

Find items published by Esri related to "IPAWS"

Find groups related to "IPAWS"

Search External Sites

[Geospatial Platform \(Data.gov\)](#)

[ArcGIS Online](#)



[Open ▾](#) [Details](#)

Integrated Public Alert and Warning System (IPAWS)
Common Alerting Protocol
Map Image Layer by LEWIS.SUMMERS
Last Modified: August 22, 2016
★★★★★ (0 ratings, 0 comments, 82 views)

Select Open to view
IPAWS in a Map

What types of items can I find here?

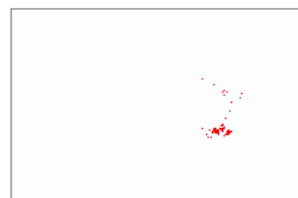
[Advanced search options](#)

[Finding layer packages and other ArcGIS desktop content.](#)



[Open ▾](#) [Details](#)

IPAWS Alerts View - Southern Nevada
Copy of the IPAWS Alerts View map with the Las Vegas Valley Urban Disposal Boundary Added
Web Map by RICHARD.WELLS
Last Modified: June 5, 2014
★★★★★ (0 ratings, 0 comments, 31 views)



[Open ▾](#) [Details](#)

IPAWS
Feature Layer by LEWIS.SUMMERS
Last Modified: August 22, 2016
★★★★★ (0 ratings, 0 comments, 12 views)

IPAWS Map



Homeland
Security

HOME ▾ My Map NEW MAP Lewis ▾

Details Add ▾ Basemap Save ▾ Share Print Directions Measure Bookmarks Find address or place

About Content Legend

Contents

☒ IPAWS - Alert Areas ☐ Streets

- Zoom to
- Transparency
- Set Visibility Range
- Move up
- Move down
- Rename
- Remove
- Copy
- Hide in Legend
- Remove Pop-up
- Configure Pop-up
- Change Style**
- Create Labels
- Show Table
- Filter
- Refresh Interval
- Show Item Details

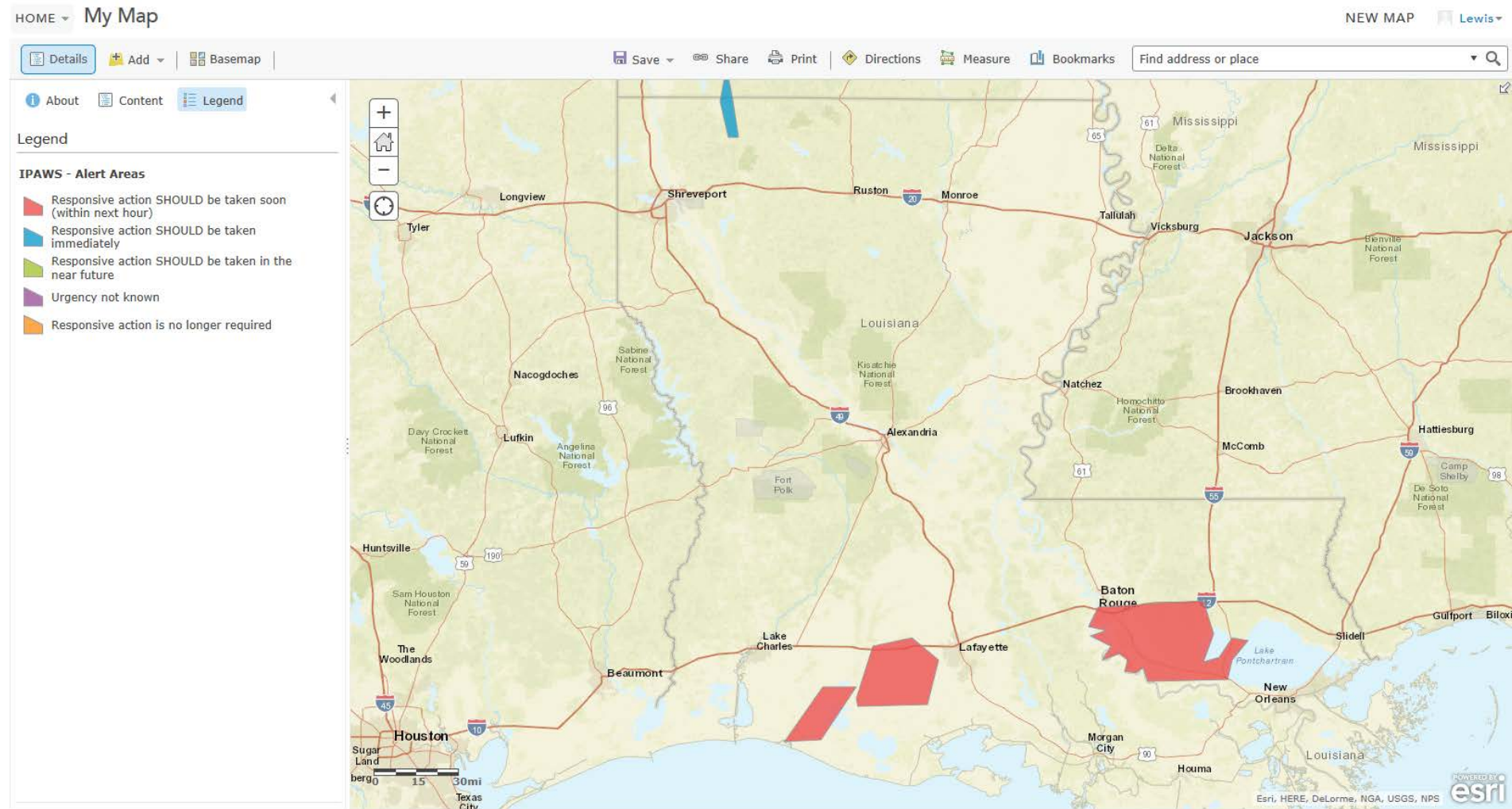
Map showing Louisiana and Mississippi with red alert areas. A pop-up window displays details for a flood advisory.

Message ID: NWS-IDP-PROD-2053756-1916103
Info ID: NWS-IDP-PROD-2053756-1916103_0
Message ID: NWS-IDP-PROD-2053756-1916103
Language: English
Event type: Flood Advisory
Urgency: Responsive action SHOULD be taken soon (within next hour)
Severity: Minimal to no known threat to life or property
Certainty: Likely (p > ~50%)
Audience: General public
Effective date/time: August 22, 2016
Zoom to Get Directions

IPAWS Map Continued



Homeland Security

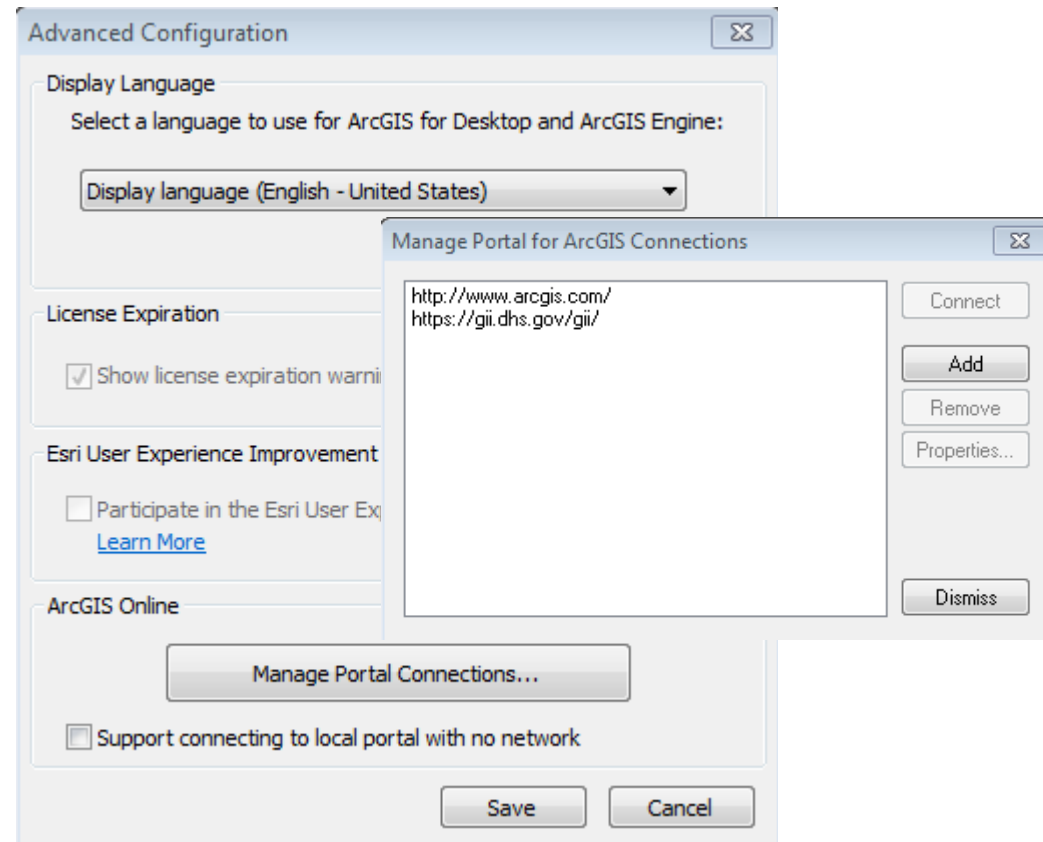


How to Access IPAWS in the GII



Homeland
Security

- Homeland Security Information Network (HSIN) User Account:
 - GII Portal:
<https://gii.dhs.gov/gii>
 - ArcGIS Desktop Access
 - User Guide
 - Story Map Video
- Public web service, consume URL in User Defined Operating Picture (UDOP) or AGOL/Portal
 - <https://gii.dhs.gov/ags/rest/services/GEP/IPAWS/MapServer/0>



Contacts and Questions?



Homeland
Security

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

Overview & Demo of Public Alert & Warning Symbolology





























Rebecca Harned

Background


















- 2014 NAPSG began developing set of standardized symbols for IPAWS Event Codes
 - Key partnerships with DHS GMO and FEMA IPAWS
- Over 30 local, state, federal public safety stakeholders informed symbol development
- Applies and is consistent with NAPSG's Incident Symbolology 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

Common Language through Common Symbols

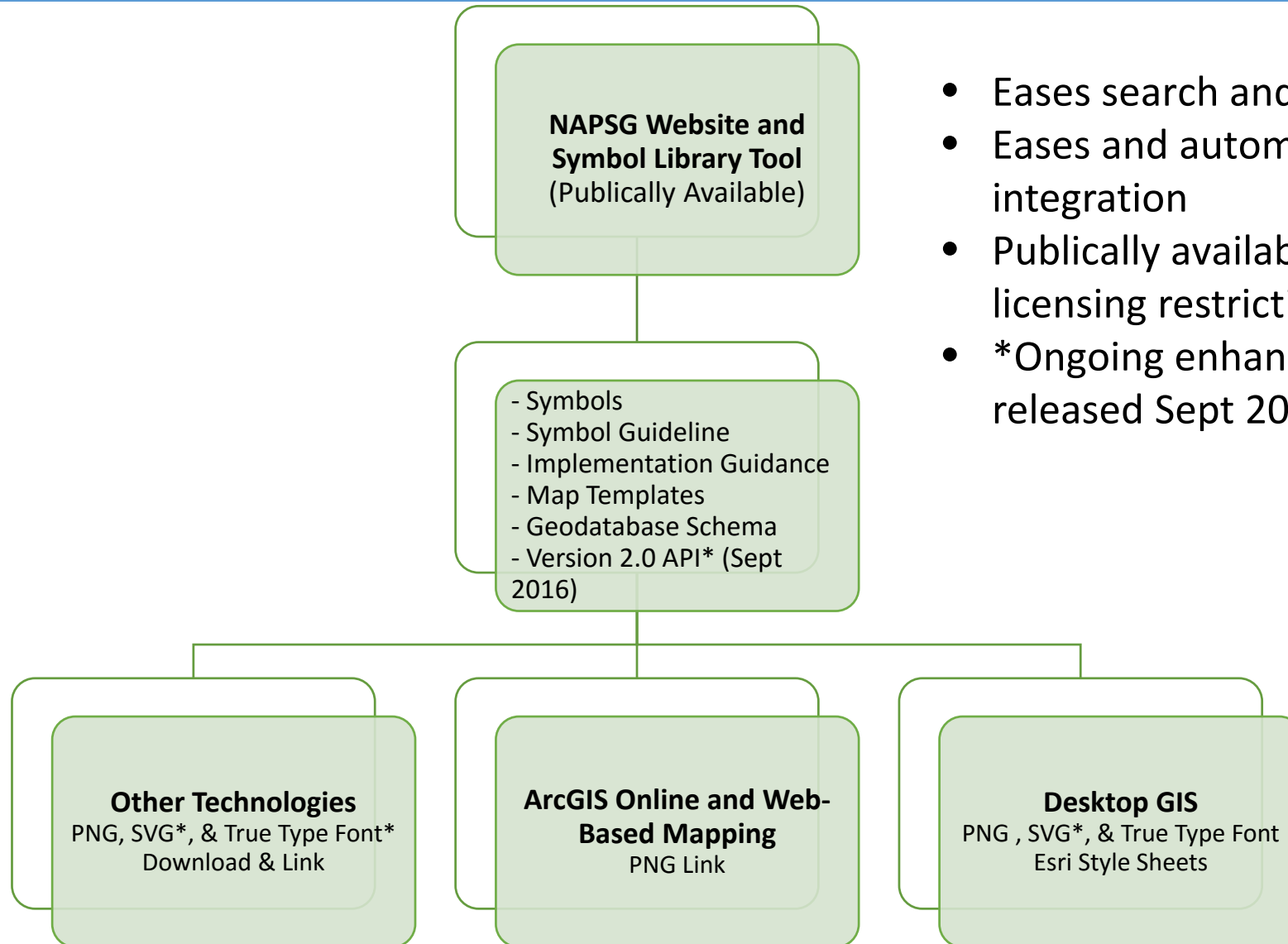
Public Alert & Warning Symbol Set – Part 1

Emergency Action Notification 	Avalanche Warning 	Avalanche Watch 	Blizzard Warning 	Child Abduction Emergency 	Civil Danger Warning 	Civil Emergency Message 
Coastal Flood Warning 	Costal Flood Watch 	Dust Storm Warning 	Earthquake Warning 	Evacuation Immediate 	Fire Warning 	Flash Flood Warning 
Flash Flood Watch 	Flash Flood Statement 	Flood Warning 	Flood Watch 	Flood Statement 	Hazardous Materials Warning 	High Wind Warning 
High Wind Watch 	Hurricane Warning 	Hurricane Watch 	Hurricane Statement 	Law Enforcement Warning 	Local Area Emergency 	911 Telephone Outage Emergency 

Public Alert & Warning Symbol Set – Part 2


Nuclear Power Plant Warning 	Radiological Hazard Warning 	Severe Thunderstorm Warning 	Severe Thunderstorm Watch 	Severe Weather Statement 	Shelter In Place Warning 	Special Marine Warning 
Special Weather Statem 	Tornado Warning 	Tornado Watch 	Tropical Storm Warning 	Tropical Storm Watch 	Tsunami Warning 	Tsunami Watch 
Volcano Warning 	Winter Storm Warning 	Winter Storm Watch 				

Symbol Library Tool Basics






- Eases search and discoverability
- Eases and automates use and integration
- Publically available at no-cost and no licensing restrictions or requirements
- *Ongoing enhancements to be released Sept 2016

Symbol Library Tool



HOME OVERVIEW EVENTS RESOURCES NEWS & NOTES CONTACT US



How to use the tool? Symbols are organized by category represented by the cards below. Click on the category of interest to review the symbols. You can also search for specific symbols by keyword in the search field to the right.


Want to download the symbols? Click the arrow next to the category name of interest and select Download Pack. This will provide you with the Style Sheet, fonts, and image files for those symbols.

MY ICONS (0)

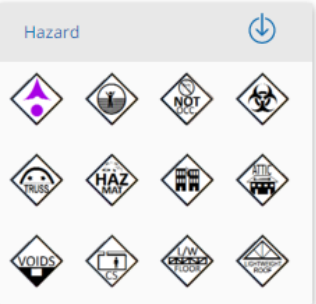
Search Icons Here

Symbology


Access Hazards




Hazard



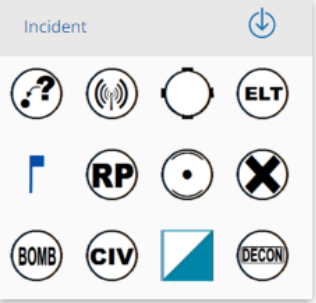
Hazardous Materials



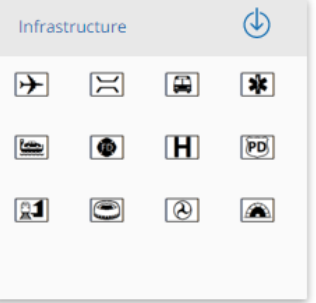
Human Caused Hazards




Incident



Infrastructure





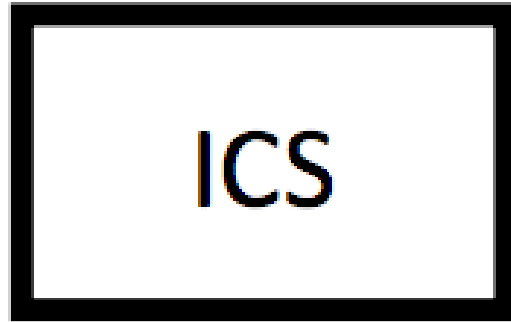
<https://www.napsgfoundation.org/all-resources/symbology-library/>

46

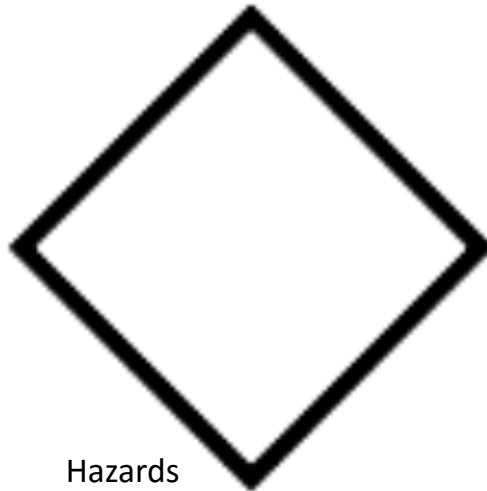
Reserved Shape



Public Alerts and Warnings



Infrastructure



Hazards

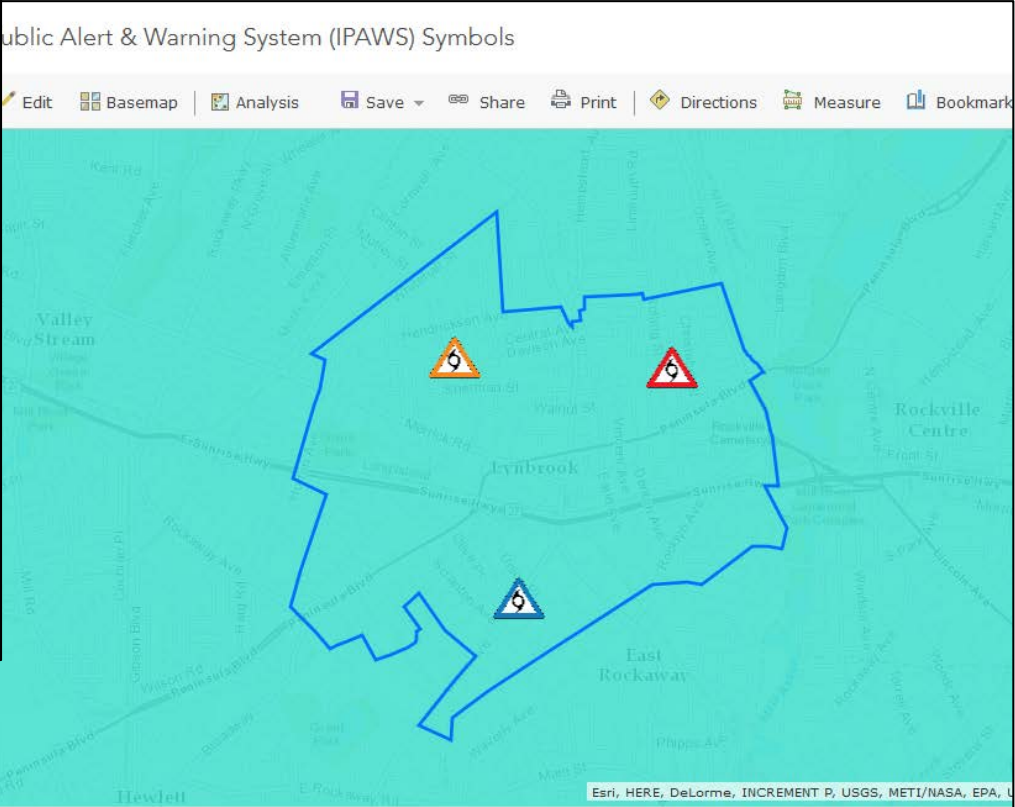
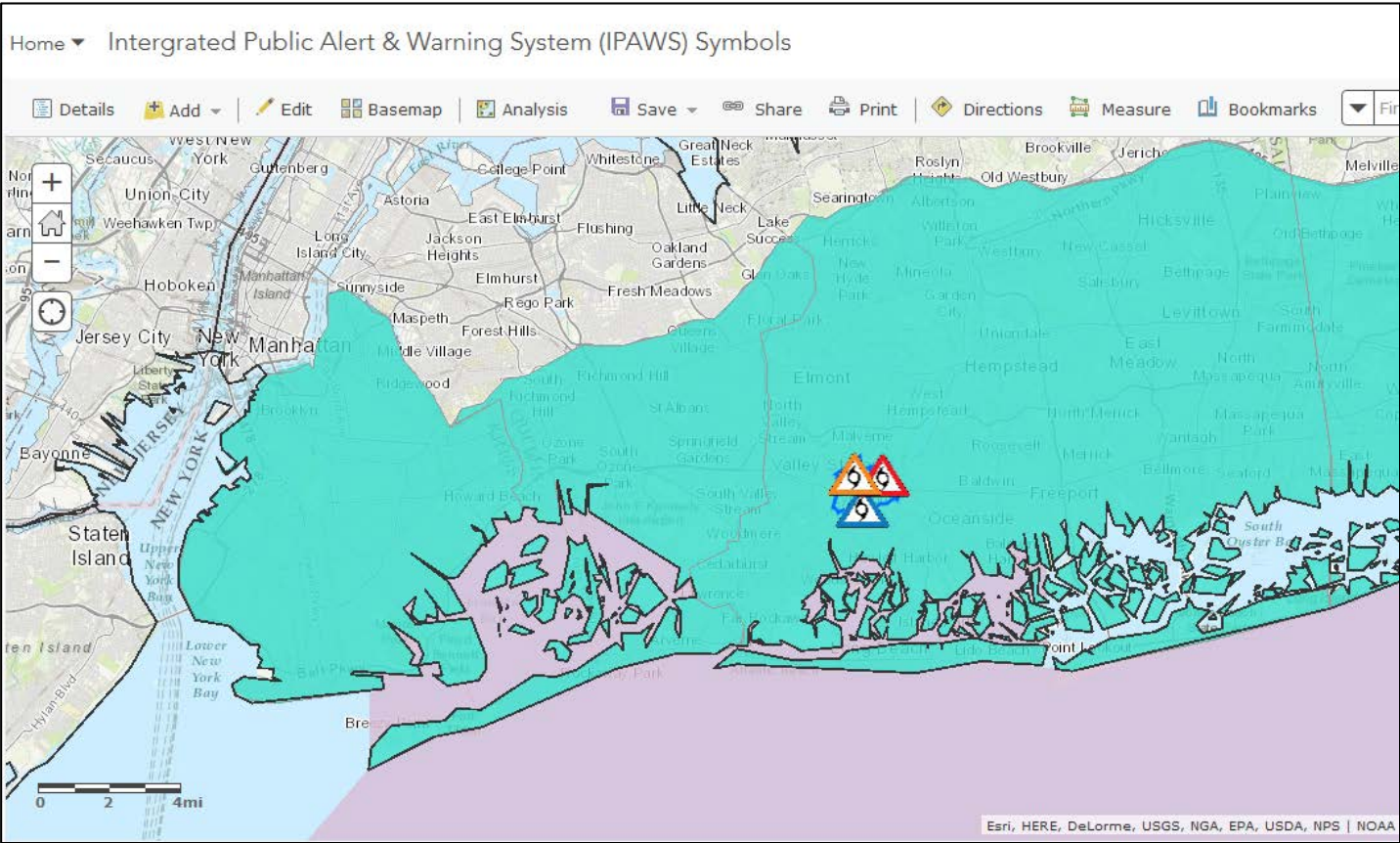
Selected a single Reserve Shape applied to all public alerts and warnings symbols to achieve standardization and consistency with the NAPSG Incident Symbology Guideline.

When possible achieved icon consistency across threats and hazards.

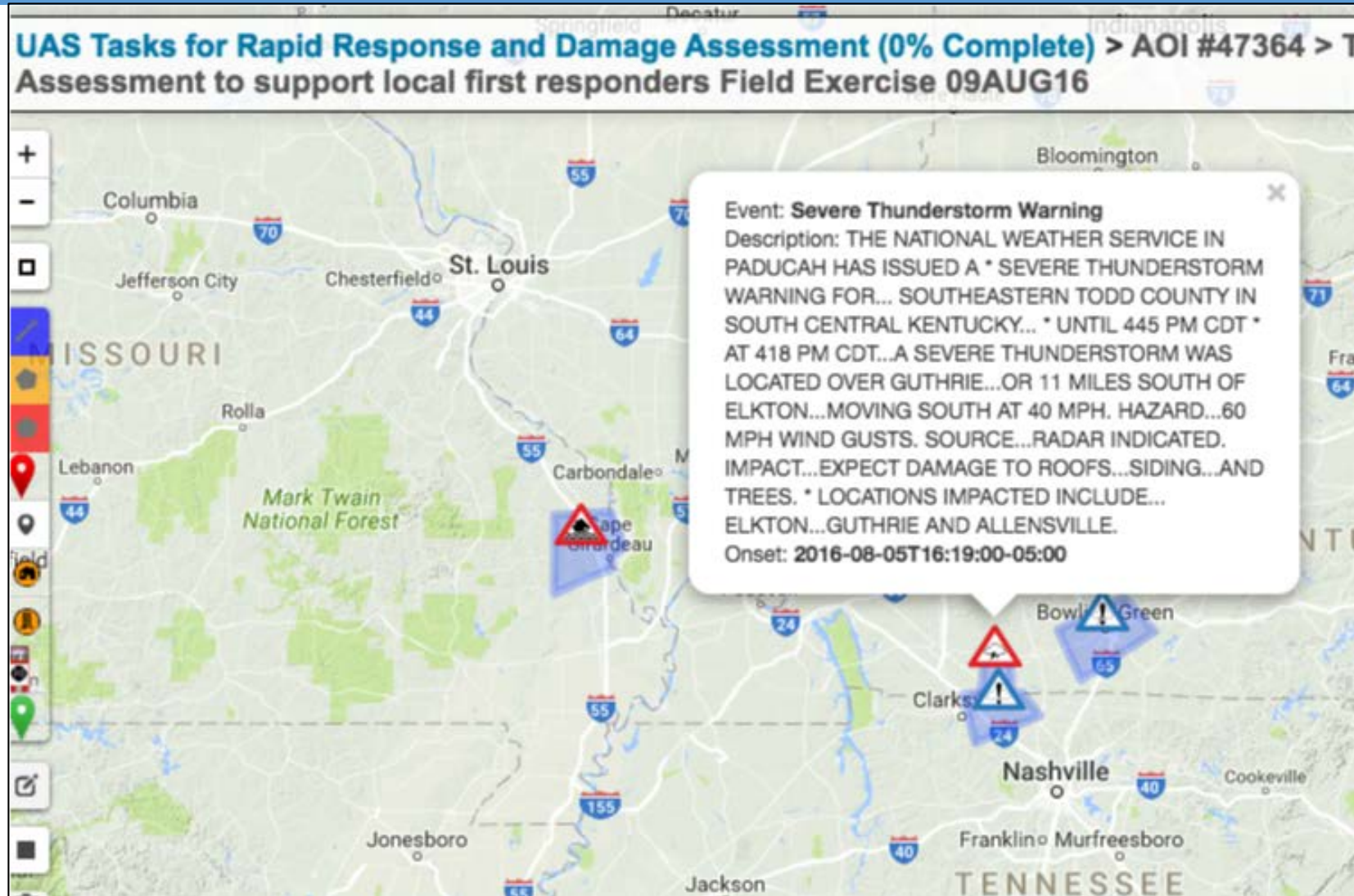
FLOOD



Test 1 – Symbols Applied in a Web-Based Map



Test 2 – Symbols Applied in Open Source Map (1)



Test 2 – Symbols Applied in Open Source Map (2)

GeoQ

Projects

Jobs

Map Items

Users

Help

No badges yet

Work Cell Details

Feature Details

Workcell Log

Layer Comparison

Geo Overview

Rotation Helper

YouTube

Geo Layers for Map

☐

AOI Base Maps

☒

Tasks/Jobs in this Project

☐

Features: UAS Exercise: EMA Pr

☐

Features: UAS Tasks for Rapid F

☐

Workcells: UAS Exercise: EMA P

☐

Workcells: UAS Tasks for Rapid

☐

Features

☒

Data Feeds

☐

Bing Maps

☐

Cell Sites - Huntsville

☐

Fire District Boundaries-Huntsvi

☐

Fire Stations - Huntsville

☐

Google Maps Hybrid

☒

Google Maps Terrain

☐

Huntsville Structures

☐

Hydrants

☒

National Weather Service Alerts

☐

Parcel Data - Huntsville/Madison

☐

Structures - Huntsville

☐

Warning Siren Coverage Areas-f

☐

Social Networking Feeds

☐

GeoJump Data Lookups

☒

Imports

Drag & Drop Import

Add A Layer

UAS Exercise: EMA Damage Reports (0% Complete) > AOI #47372 > Damage areas marked for UAS exercise

Event: Flood Advisory

Description: THE NATIONAL WEATHER SERVICE IN BIRMINGHAM HAS ISSUED A * SMALL STREAM FLOOD ADVISORY FOR... SOUTHWESTERN CLAY COUNTY IN EAST CENTRAL ALABAMA... TALLADEGA COUNTY IN EAST CENTRAL ALABAMA... * UNTIL 245 PM CDT * AT 1239 PM CDT...DOPPLER RADAR INDICATED HEAVY RAIN DUE TO THUNDERSTORMS. THIS WILL CAUSE SMALL STREAM FLOODING IN THE ADVISORY AREA. UP TO TWO INCHES OF RAIN HAVE ALREADY FALLEN ACROSS PORTIONS OF THE AREA WITH MORE TO COME.

Onset: 2016-08-08T12:41:00-05:00

10 km

Leaflet

© OpenStreetMap contributors, Bing, Huntsville City GIS, Fire District Huntsville, City of Huntsville GIS - Fire Stations, H

NAPSG

Foundation

50

NAPSG Foundation Support Services

Contact Us:
services@napsgfoundation.org



Geospatial Subject Matter Expertise

Our GIS Subject Matter Experts can augment your capabilities by providing technical assistance, solution development and implementation. We craft geospatial solutions that support your workflows, and the mission-critical decisions that must be made.



Business Planning & Documentation

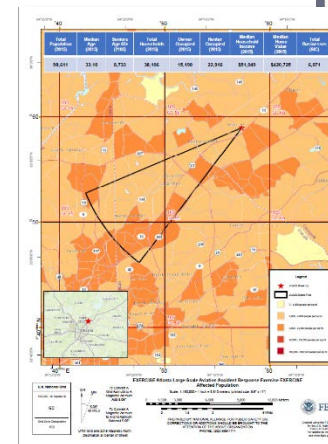
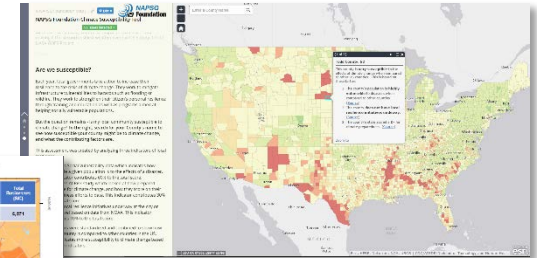
Just as success in public safety starts with planning, so does successfully implementing GIS capabilities. Whether it is assessing needs, documenting procedures, or strategic planning, we'll provide you a roadmap for success and help keep you on track.



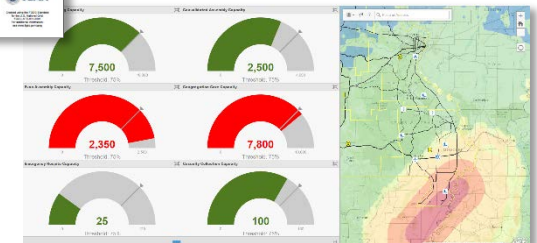
Training & Education

Training and education focused on your workflows and solutions helps ensure adoption and use of your GIS. We develop and conduct training where you need it most, and can help train staff to your standards and guidelines across the organization.

Map Journals



Geospatial Analysis



Operation Dashboards

Upcoming Events

Register Online:
napsfoundation.org/events

- Upcoming Virtual Training
 - November - Unifying Mutual Aid through Location Information and Decision Support
 - Others to be announced!
- National Geospatial Preparedness Summit
 - September 13-14, 2016 in Washington, DC
<http://conta.cc/1SYZZZP>

Thank You!

NAPSG Contact – Rebecca Harned rharned@publicsafetygis.org

- <https://www.napsgfoundation.org/all-resources/symbology-library/>

IPAWS –

- <http://www.fema.gov/integrated-public-alert-warning-system>

DHS GII –

- <https://gii.dhs.gov/HIFLD/>