

IT in Maryland

Kenny Miller

Deputy Geographic Information Officer
Department of Information Technology

Major Initiatives

- IT services support
- Network MD
- Web improvements
- Cyber Security/Dual authentication
- Removing silos
- Master IT contracts
- FirstNet – national public safety broadband network for data
- MD First - 700 MHz radio

Mapping Landscape in Maryland

- State Enterprise GIS system – MD iMap
- Public safety
- Emergency Management
- Data sources – live feeds, static data, imagery, etc
 - Collected from many sources – feds, state agencies, local governments, private sector

Data for Emergencies

- Road closures
- Evacuation areas
- Locations of “vulnerable populations”
- Areas without power
- Resource staging areas
- Data comes from on-the-ground, local and data owners
 - Federal, state, local, commercial, . . .

Public Safety Tools

- WebEOC (<https://webeoc.mema.maryland.gov/eoc7>)
 - Secure version at MEMA
 - Local EOC's have, or can get, accounts
- OSPREY
 - Public version (<http://geodata.md.gov/ospreypublic/>)
 - Secure version (WebEOC)
- Dashboards
 - OSPREY (<http://mema.maryland.gov/Pages/OSPREYdashboard.aspx>)
 - Power Outage (<http://mema.maryland.gov/Pages/PowerOutagesData.aspx>)

Quick Reference

- › [CyberSecurity](#)
- › [Interoperability](#)
- › [IT Bid Board](#)
- › [Maryland Relay](#)
- › [OMBN](#)
- › [SDLC](#)
- › [Statewide IT Master Plan](#)

IT Communities

- › [Agency CIO Directory](#)
- › [County IT Listing](#)
- › [DoIT Directory](#)
- › [IT Advisory Council \(ITAC\)](#)
- › [Maryland Council on Open Data](#)
- › [Maryland IT Jobs](#)
- › [Maryland's Mapping Portal](#)
- › [NASCIO State Profiles](#)
- › [Statewide Web Managers \(WEBCOM\)](#)

What We're Doing...

Maryland Funding Accountability & Transparency

Maryland Spending Data

Maryland Funding Accountability & Transparency





MD iMAP

MARYLAND'S MAPPING & GIS DATA PORTAL



- HOME
- DASHBOARDS
- MAPS
- DATA
- INITIATIVES
- INNOVATE
- SUPPORT
- TRAINING
- PARTNERS

MD iMAP Maryland's Mapping & GIS Data Portal

Maryland's Address Look-Up

Address Look-Up
Enter a Location
Anywhere USA Search

Street Address
A street address consists of a building number, street name, city, state, and ZIP code. A building number, street name, and ZIP code is required. Only Maryland addresses are provided.
Example: 600 S Rose St, Baltimore, MD 21224

INTERSECTION
An intersection is a point where two streets connect. Street names are required. Results include the ZIP code where the intersection exists.
Example: York Rd @ Burke Ave 21204 or York Rd & Burke Ave 21204

News & Alerts

[Quick Link](#) | [Training Documents](#)

Find instructions on how to apply color infrared symbology to an image service, access an image service via MicroStation, add MD iMAP services to desktop software, geocode, build your first ArcGIS Online application and more...

MD iMAP 2.0 Server Maintenance Schedule

Regular maintenance of the MD iMAP 2.0 servers will occur on the 3rd Tuesday and Wednesday of each month from 7PM to 11PM

Tweets



- New Map Gallery Items from MTA and DHCD | Read more at lnks.gd/2/Lxzr2
- Barney Krucoff** @BarneyKrucoff 12 May SB094 signed. MD geo-data easier to give away & even less lucrative to



Maryland Smart Energy Investment Dashboard

This dashboard tracks the Maryland Energy Administration's (MEA) investments and illustrates MEA's contributions to the growth of affordable, reliable, renewable energy and energy efficiency industries in the State of Maryland. Data from this dashboard can be viewed and downloaded from Maryland's Open Data Portal. Developed by ESRGC for the Maryland Energy Administration (MEA) in conjunction with the Maryland Department of Information Technology and Salisbury

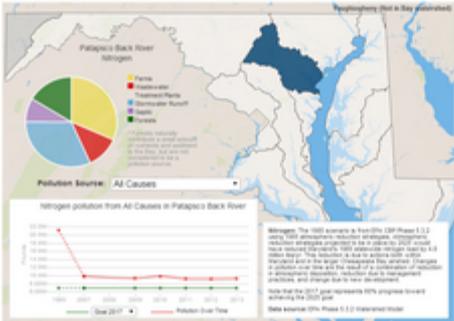
University.



OSPREY Dashboard Public

This dashboard provides a snapshot of what's going on by Marylandregion. The status of power outages, weather, hospitals and shelters are displayed color coded in an easy-to-digest table. The automated alerts include power, weather, traffic, hospitals and shelters. A mouse click or tap on an alert box will provide details about the alert(s) and relevant links.

This is a public facing application, no password is required. Created by CGIS for the Maryland Emergency Management Agency (MEMA).



BayStat - Causes Map

BayStat - Solutions Map

ESRGC has developed a series of dashboards which allow the public to explore the causes of and solutions to Chesapeake Bay pollution. The Causes Map provides insight into an array of assaults the Chesapeake Bay endures from our actions in the air, water and land. The Solutions Map measures actions and associated goals for reducing pollution, restoring habitats and fostering smarter, greener growth and living in Maryland. Provided by the BayStat Program, a multi-agency initiative.

Data

- > Overview
- > GIS Data Catalog
- > Imagery
- > LiDAR
- > Data Downloads and Services
- > FAQ

Policies and Procedures

- > Data Categories
- > Data Management Plan
- > Data Submission Policy

Quick Links

- > How to Access Image Service in MicroStation
- > How to Add Web Services in ArcGIS Desktop
- > How to Add WFS Services to ArcGIS Desktop
- > How to Apply Color Infrared Symbology to an Image Service
- > How to Geocode in ArcGIS Desktop
- > How to Use the

Data Overview

The Geographic Information Office (GIO) strives to meet the needs of our customers by providing everyone with the best possible data available. Through collaboration with our partners, we have been able to provide access to a large collection of data via MD iMAP that can be leveraged for use in many applications and analyses.

GIS Data Catalog

Quickly search for the latest data and geographic content from Maryland contributors. Use keyword or geographic searches to find and quickly display content. Also download into multiple formats or access via APIs for local use.



Open Data Portal

Numerous, additional geographic and non-geographic data sets are available for search. Built-in tools allow for visualization of the data in a table, graph or map format. The Portal is managed by StateStat with contributions from many State agencies.



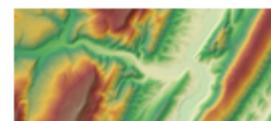
Imagery

Aerial imagery is essential for giving 9-1-1 dispatchers the proper context in the event of an emergency call. Thanks to a dedicated funding stream from Maryland's Emergency Number Systems Board and support from local governments, publicly accessible aerial imagery for the entire state is available and updated on a three year cycle.



LiDAR

The Maryland LiDAR server has been created to provide open access to statewide elevation information for use in a variety of studies and applications. The Maryland LiDAR server maintains the best available elevation data and provides image services in both county and statewide extents.



Data Downloads and Services

Search an inventory of available spatial and non-spatial data download sites. From these sites users can download or, in some cases, order data. Additional resources are provided to organizational web mapping applications where data



Composite Locator

- > Overview
- > Address Look-Up
- > Data Sources
- > Code

Composite Locator Overview

Thanks to a collaborative effort between State agencies and local jurisdictions, Maryland's Composite Locator was developed to provide a single, robust geocode service for Maryland. The composite locator maps tabular data by matching it against geospatial features from multiple data sources.

The composite aspect of the locator refers to its design to match tabular data with the first in a list of data sources. If a match is not found, the locator then "cascades" down the list of data resources searching each for the best match.

The composite locator can be accessed via Esri's Desktop software or programmatically via the REST endpoint.

Address Look-Up

Web users can access the available address look-up to identify single data locations. Users can compare the matching accuracies of the different data sources.

Data Sources

The composite locator currently boasts eleven (11) data sources which participate in the cascade. They are a combination of local, state and federal datasets. They include address points, mile markers and place names (e.g. - Oriole Park at Camden Yards).

Composite Locator Code

A snippet of code is available as an example of how to incorporate the geocoder service into an application using the JavaScript programming language.

Please contact the GIO Office at gio.doit@maryland.gov for more information.



> Code

The exact match of the location you entered could not be found. Here are the closest results available.
Click on a row to see additional details.

Name	Locator	Score
1414 Harmony Ln, Annapolis, Md, 21409		93.2%
1414 Harmony Lane, Annapolis, Md, 21409		89.04%
1414 Harmony Ln, Md, 21409		89.04%



Search Again



EMERGENCY MANAGEMENT AGENCY



Enter search term



*A Prepared Marylander
Creates a Resilient Maryland*

Before

- [Weather Information](#)
- [Are you in a Flood Prone Area?](#)
- [Preparedness Resources for Homeowners](#)
- [Preparing for a Flood](#)
- [Preparing for Thunder and Lightning](#)
- [Download the Maryland Prepares Mobile App](#)

Flooding Precautions mobile app!



News Updates

[Maryland Emergency Management Agency](#)

[MAY 24-30 is Maryland Hurricane Preparedness Week](#)

[Maryland Emergency Management Agency, Partners Prepare for Upcoming Atlantic Hurricane Season](#)

[Governor Hogan's Request For Physical Disaster Declaration Approved By U.S. Small Business Administration](#)

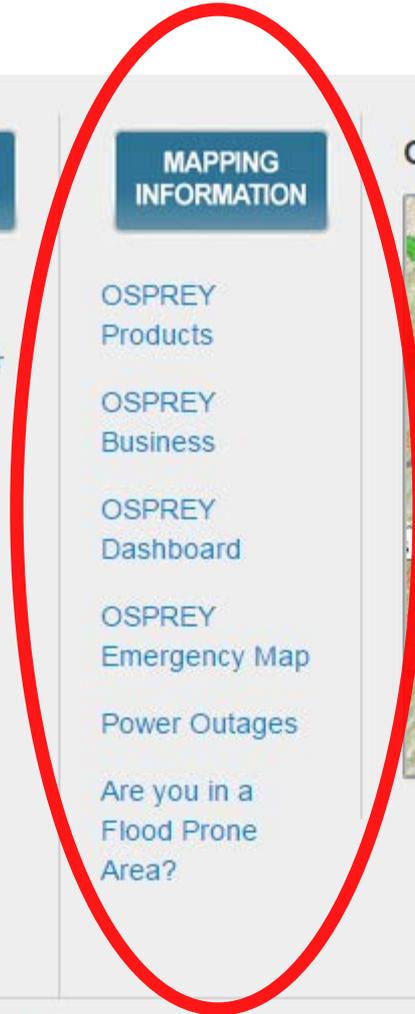
During

ALERT INFORMATION

- [The State Response Activation Levels](#)
- [National Terrorism Advisory System](#)
- [Emergency Alert System](#)

RELATED INFORMATION

- [Newsroom](#)
- [Weather Center](#)
- [Local Emergency Centers](#)
- [Training & Exercise Calendar](#)
- [Create a Training Account](#)
- [Internships with MEMA](#)



MAPPING INFORMATION

- [OSPREY Products](#)
- [OSPREY Business](#)
- [OSPREY Dashboard](#)
- [OSPREY Emergency Map](#)
- [Power Outages](#)
- [Are you in a Flood Prone Area?](#)

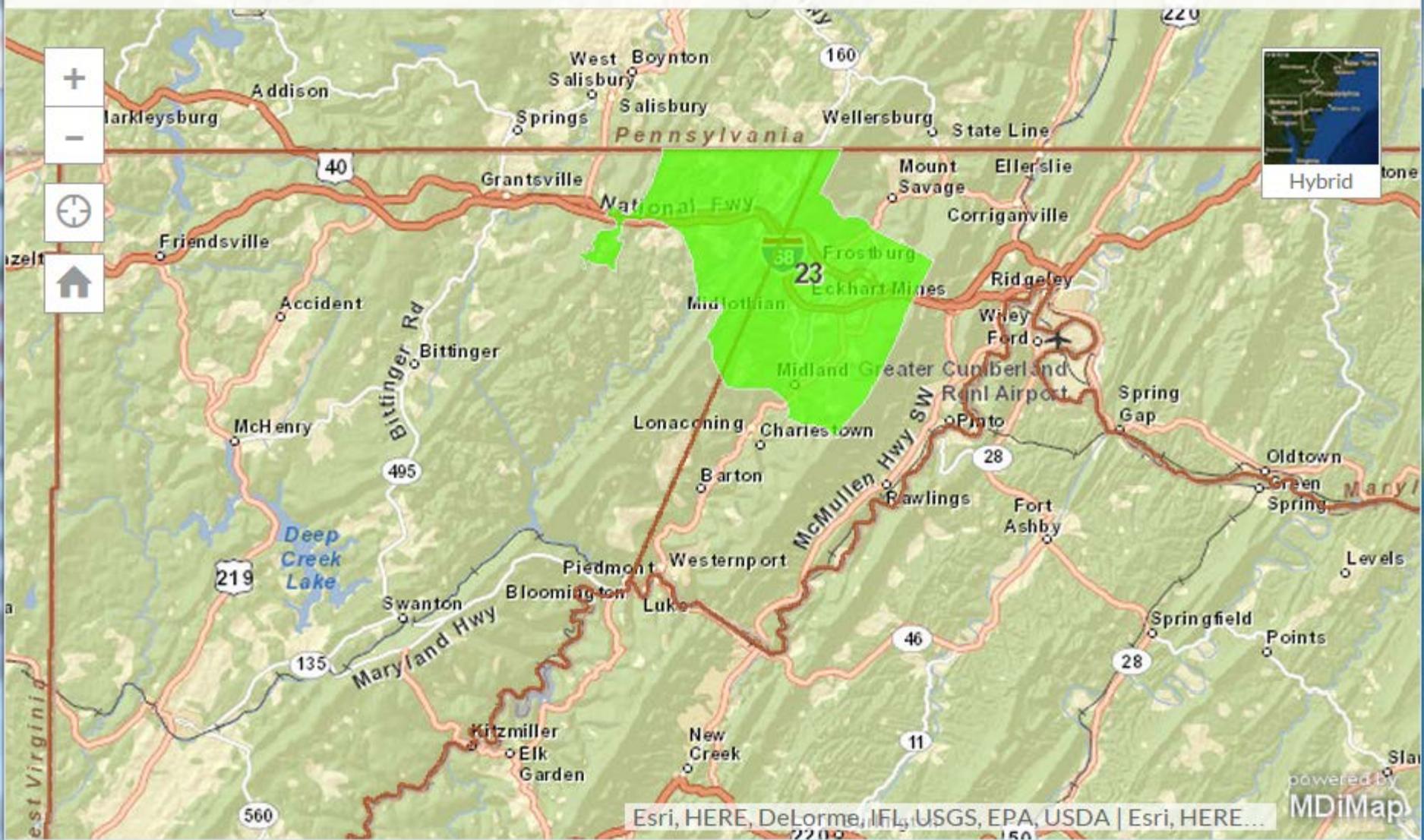
OSPREY Map (Traffic & Power)

[View Full Map](#)



OSPREY Public

Search for an Address



Updated once a minute: 6/9/2015 3:54 PM

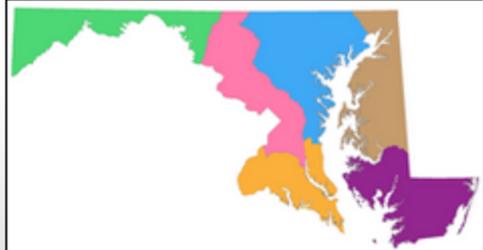
REGION	WESTERN	CAPITAL	CENTRAL	SOUTH	UPPER EASTERN SHORE	LOWER EASTERN SHORE
POWER	Green	Green	Green	Green	Green	Green
WEATHER	Green	Green	Green	Green	Green	Green
TRAFFIC	Green	Red	Green	Green	Green	Green
HOSPITALS	Green	Green	Green	Green	Green	Green
SHELTERS	Green	Green	Green	Green	Green	Green
FLOOD	Green	Green	Green	Green	Green	Green



View the legend
What do the colors mean?



MEMA region map



View site in demonstration mode



Call 911 if you have an emergency

The OSPREY system brings together data from multiple automated sources in near real-time, MEMA does not certify the accuracy, timeliness, or correctness of the data displayed

Updated once a minute: 6/9/2015 3:54 PM

Back

MEMA Western Region Traffic

Alert Thresholds

Allegany 1



Red

Red Status in Allegany County for all lanes closed, emergency maintenance @ MD 135 EAST/WEST PAST MD 36.

Last update: 6/9/2015 3:54:01 PM

HOSPITALS

SHELTERS

FLOOD

View site in demonstration mode

WebEOC 7.7



Ken.Miller as SEOC - PLN - Situation Awareness Unit - GIS Mapping

Log Off

[WebEOC Training](#)

Boards

****Sign In / Sign Out ****



After Action Review (AAR)



Archived Situation Reports



Battle Rhythm*



ESF Activation



File Library



GIS Support Requests



Incident Action Plan



Maryland Special Events Calendar*



Press Release and Talking Points



Requests and Tasks



SEOC Reports



Shelters



Situation Report



Unresolved Issues



User Profile



Boards StateOfMaryland

Event Reporting - Maryland Events



Event Reporting - Position Log



Jurisdiction Situation Status



Menus

Electronic Performance Support System »



NCR Boards »



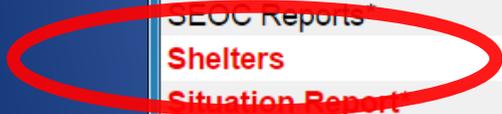
OSPREY Applications »



Position Specific Videos »



Radiological Emergencies* »



All Shelters Pet Friendly Special Needs Open Shelters Full Shelters

Search: Search Clear Search

Filter: All

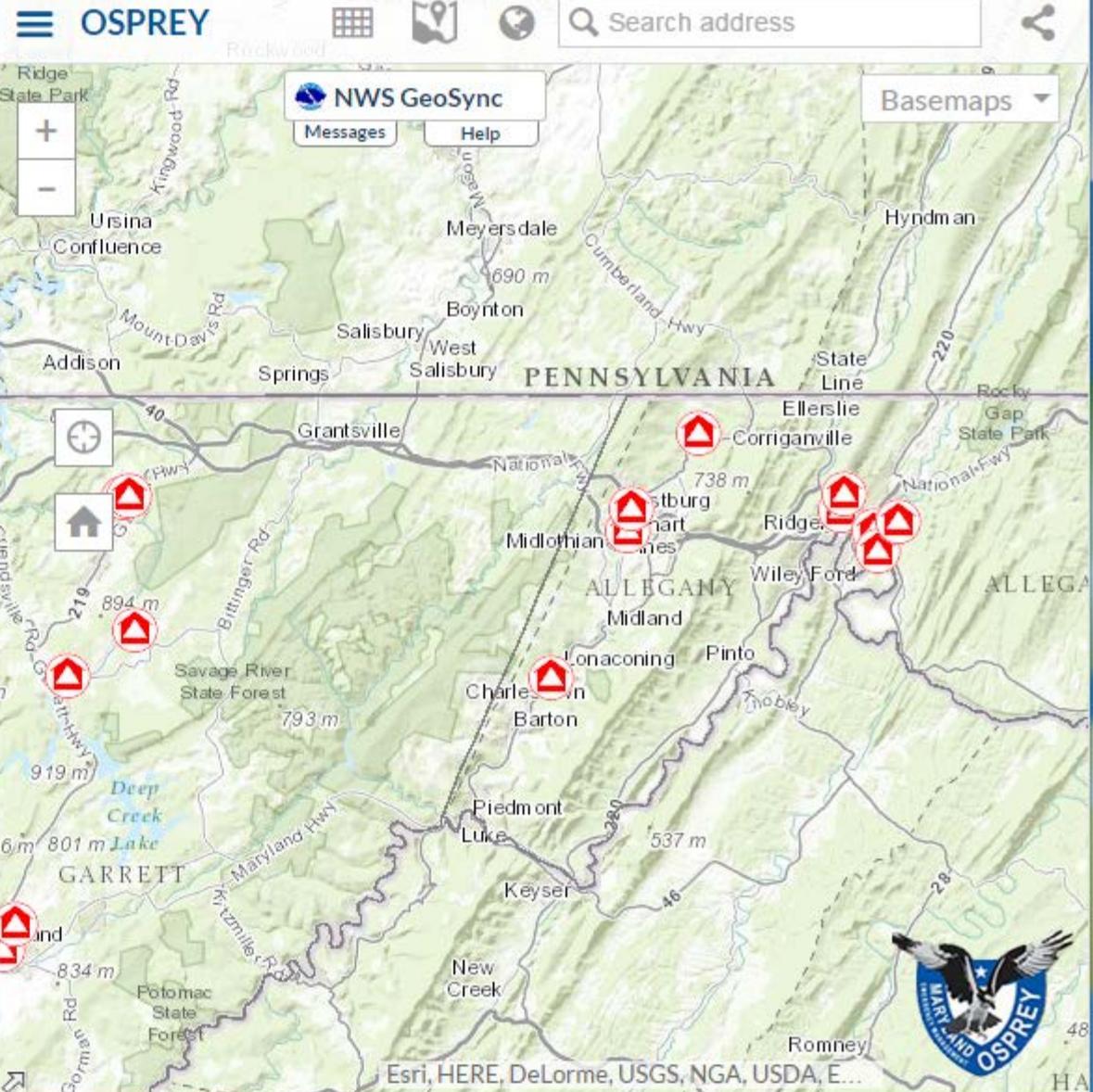
Name	Status	Jur.	Available (Evacuation)	Occupancy (Evacuation)	Generator	ARC	SN	PF	Detail
Aberdeen High School	CLSD	Harford	500	0	Yes	+	♿		
Albert Einstein HS	CLSD	Montgomery	576	0	Yes	+			
Allegany College of Maryland	CLSD	Allegany	614	0			♿		
Allegany High School	CLSD	Allegany	878	0	Yes		♿		
American Red Cross	CLSD	Washington	70	0	No	+	♿		
ANNAPOLIS HIGH SCHOOL	CLSD	Anne Arundel	1000	0	No	+	♿		
Arbutus Middle	CLSD	Baltimore County	160	0	Yes	+			

County X Search

Open All Open Checked Close All

- Event
- ESF #1 Transportation
- ESF #2 State Communications
- ESF #3 Public Works & Engineering
- ESF #4 Fire Fighting
- ESF #6 Mass Care & Sheltering
 - Very High Risk Census Tracts
 - DHR Container Locations
 - MD Census Tracts
 - Shelters
 - Open Shelters
- ESF #7 Resource Support & Logistics
- ESF #8 Public Health & Medical Services
- ESF#9 Search and Rescue
- ESF #12 Utilities & Energy
- ESF #13 Law Enforcement
- ESF #16 Agriculture & Animal Welfare
- ESF #17 Military Support
- Hazards
 - Weather
 - Radiological

- Legend
- About
- Layers
- Tools
- Search
- Analytics
- NWS Layers
- NWS Legend



- ### Layers
- Open Shelters (MEMA)
 - Hospitals (DHMH)
 - Planned Construction (CHART)
 - Traffic Incidents (CHART)
 - Traffic Signal Events (CHART)
 - Traffic Cameras (CHART)
 - Live Traffic
 - Power Outages (Real Time)
 - Weather Alerts (NOAA)



Thanks for Listening

Kenny

Ken.Miller@maryland.gov