

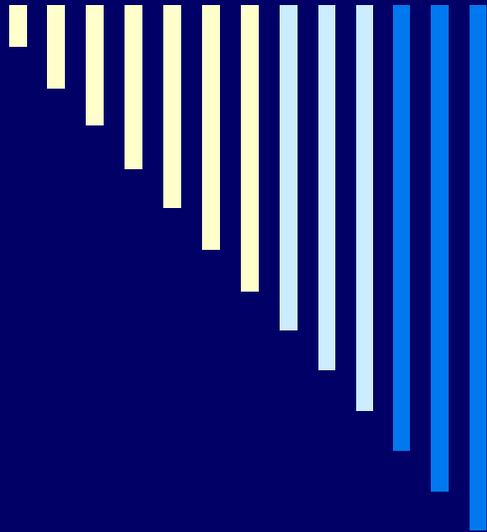
# WebEOC

**Connecting Carroll County  
Government Departments and Our  
Partner Organizations**

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# Building Partnerships

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## ❖ Introductions

Cynthia Parr, Deputy Chief of Staff

Scott Campbell, Public Safety Administrator

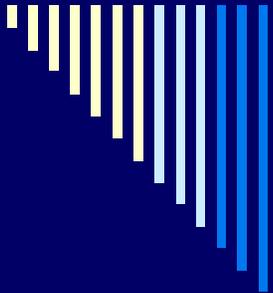
Mark Ripper, Director of Technology Services

Kimberley Frey, Client Services Analyst

Jeff Waltman, GIS

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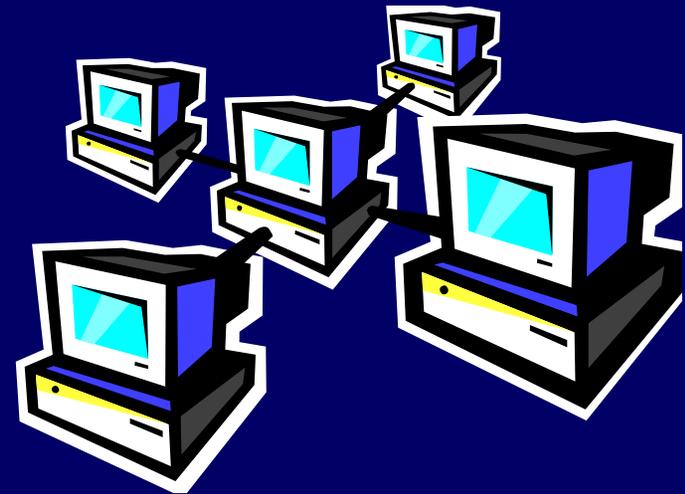


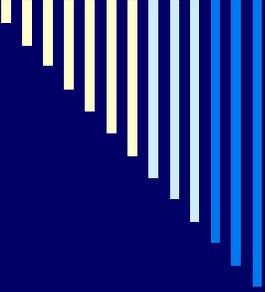


# What is WebEOC?

WebEOC is emergency  
information  
management system

WebEOC can be used  
very efficiently on a  
daily basis to share  
information among  
County departments  
and Government  
partners

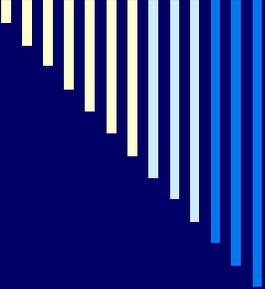




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# What is WebEOC?

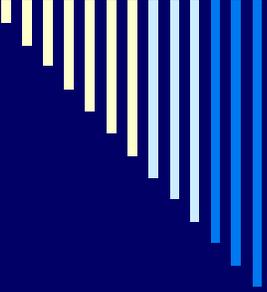
- ❖ WebEOC is a Web-Enabled incident management System
  - ❖ WebEOC provides real-time incident viewing and tracking
  - ❖ Web EOC is a data base that contains incident records
  - ❖ Because WebEOC is Web-Enabled it can be accessed from the office, at home or on the road providing you have an internet connection
-



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## What does WebEOC do?

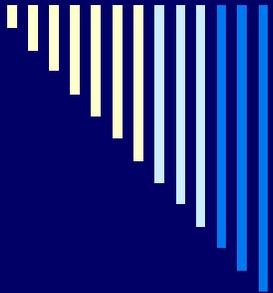
- ❖ WebEOC is used in the State Emergency Operations Center (SEOC) to coordinate the use of state's assets
  - ❖ Provides a link from the SEOC to local and tribal Emergency Operations Centers during real-time events and exercises
  - ❖ Allows an unlimited number of users to have access to real-time information simultaneously without having to purchase a product
  - ❖ User friendly, easy to learn
-



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## More about WebEOC

- ❖ Customized to meet our local and state needs
  
  - ❖ Complies with:
    - The National Incident Management System (NIMS)
    - Incident Command System (ICS)
    - Emergency Support Functions (ESF)
  
  - ❖ Information Sharing
-

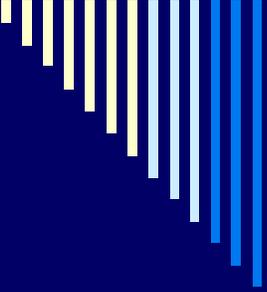


FEMA



- Other Maryland Counties
- Commonwealth of Pennsylvania
- Washington DC
- West Virginia
- Commonwealth of Virginia
- Delaware

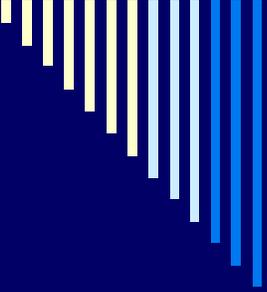




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# Security

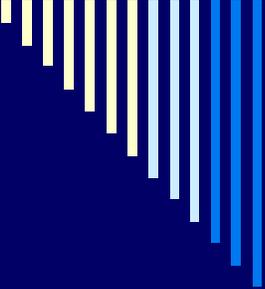
- ❖ Administrative Profiles Manager controls privileges
  - ❖ Automatic Account lockout after failed attempts
  - ❖ Each record is automatically time-stamped & IDs the user
  - ❖ Strong Passwords
-



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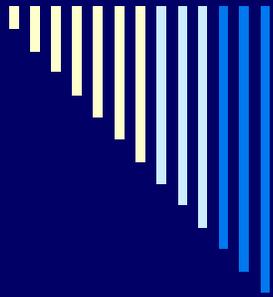
## 3 Levels of Operating Picture

- Global
  - Incident wide
  - Individual user
-



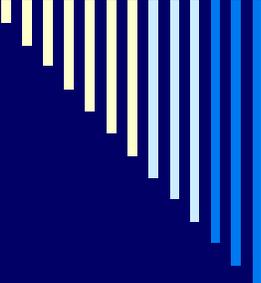
## What is GIS ?

- ❖ It is estimated that approximately 80% of all information has a "spatial" or geographic component. In other words, most information is tied to a place and can be viewed on a map.
  - ❖ GIS can very simply be described as computerized, interactive mapping.
  - ❖ GIS is used to display and analyze spatial data which are tied to databases. This connection is what gives GIS its power: maps can be drawn from the database and data can be referenced from the drawn maps.
-



## How does GIS Help in Public Safety?

- ❖ When making decisions during an emergency event, geography plays a significant role. GIS data layers are used to overlay different types of information. Each data layer represents a category of information.
- ❖ Examples of GIS data maintained by public safety include, roads, address points, commercial and retail occupancies, census population data, emergency shelters, public and private schools, fire districts, frequently flooded roads, critical infrastructure such as water distribution, sewer facilities, communications equipment, and locations of mass resource inventories often necessary during a disaster.
- ❖ The Office of Public Safety (OPS) uses GIS on a daily basis in the 911 emergency communications center where it instantaneously maps the locations of 911 callers.
- ❖ GIS is also used in the mass notification (Reverse 911) system to advise county residents of emergencies that may affect them, such as hazardous materials accidents, power outages, and police events.

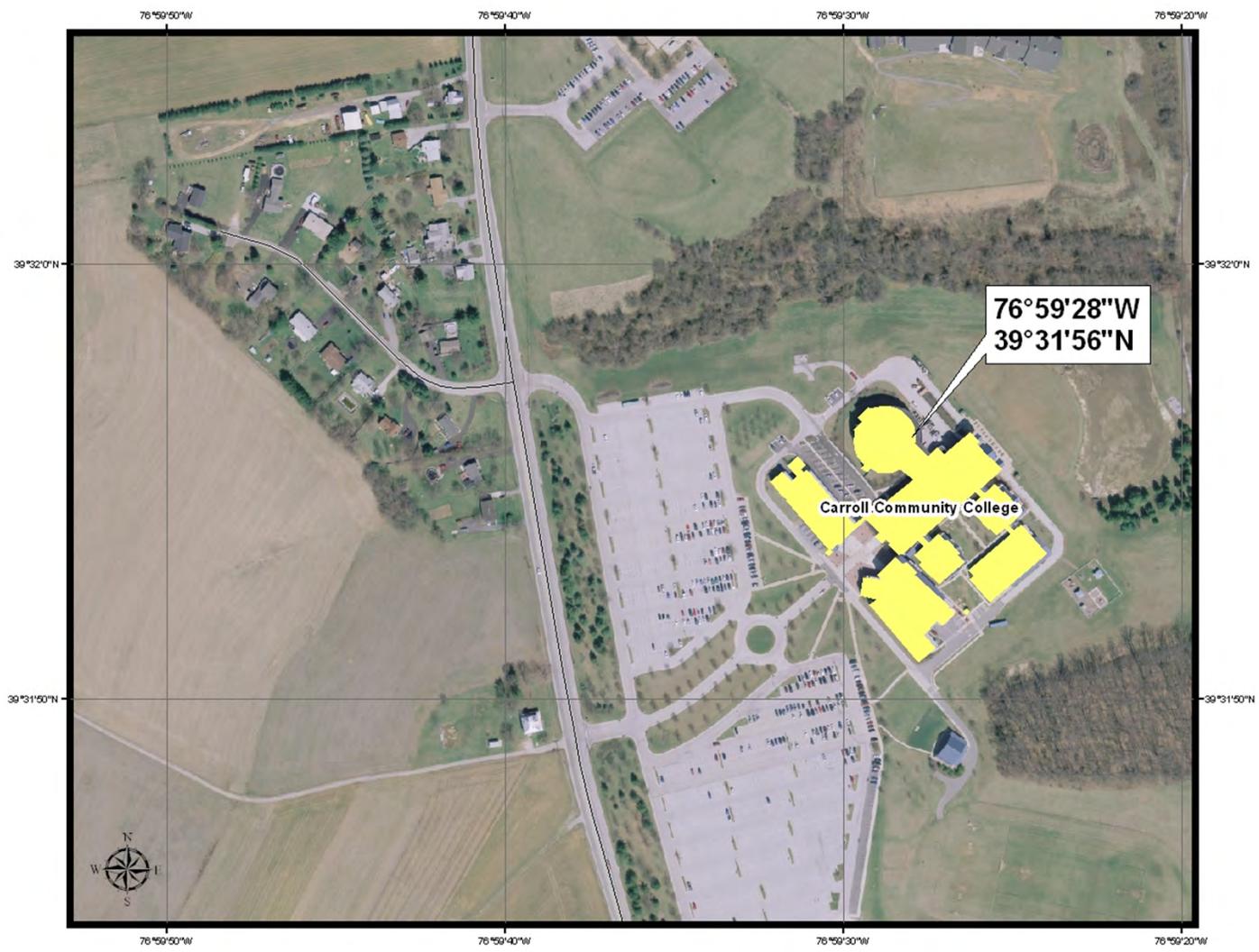
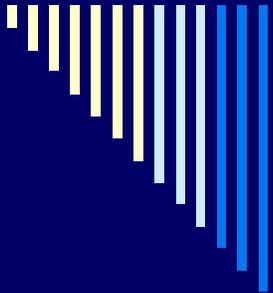


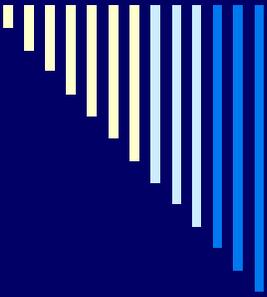
# How Can GIS Help You In The EOC?

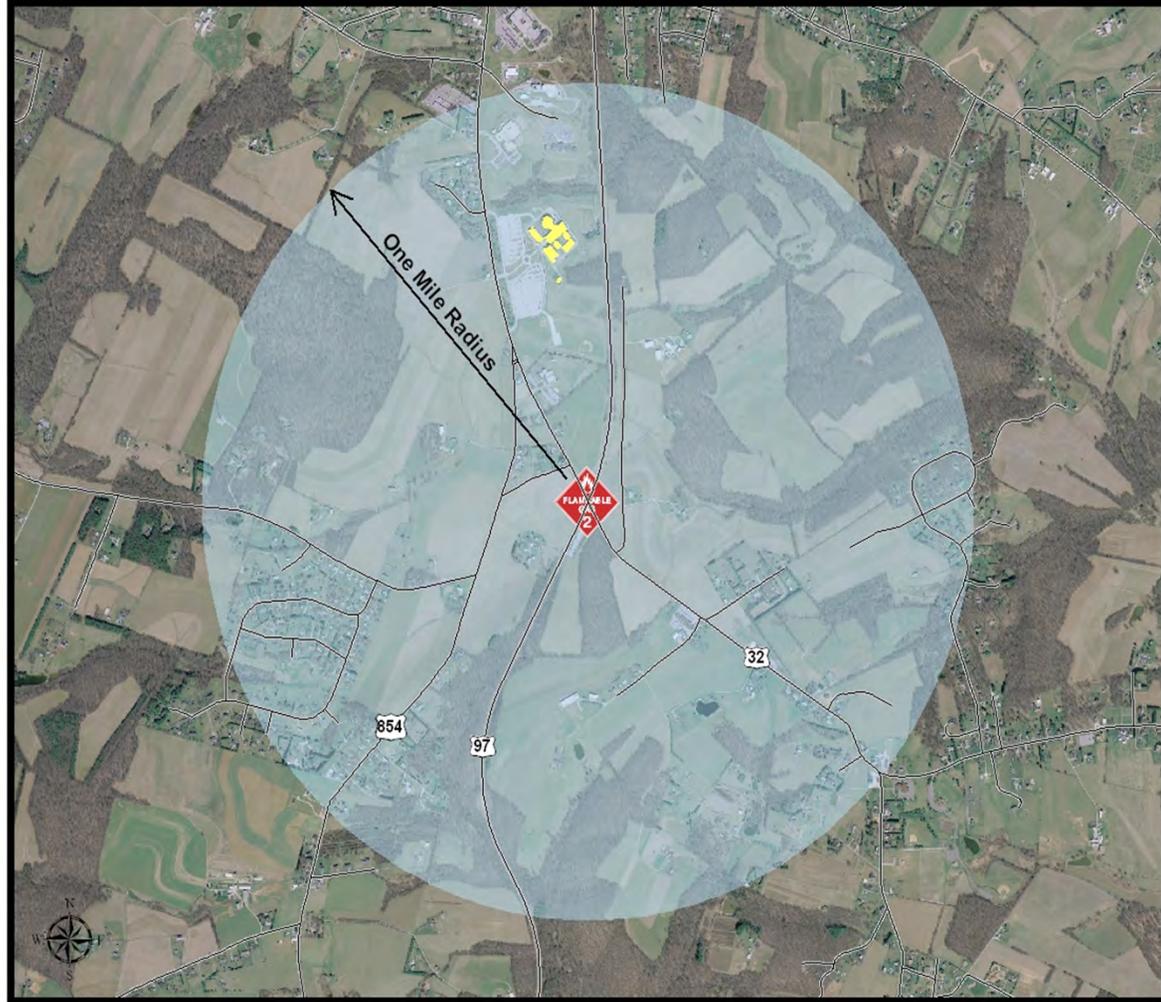
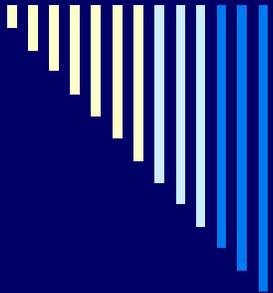


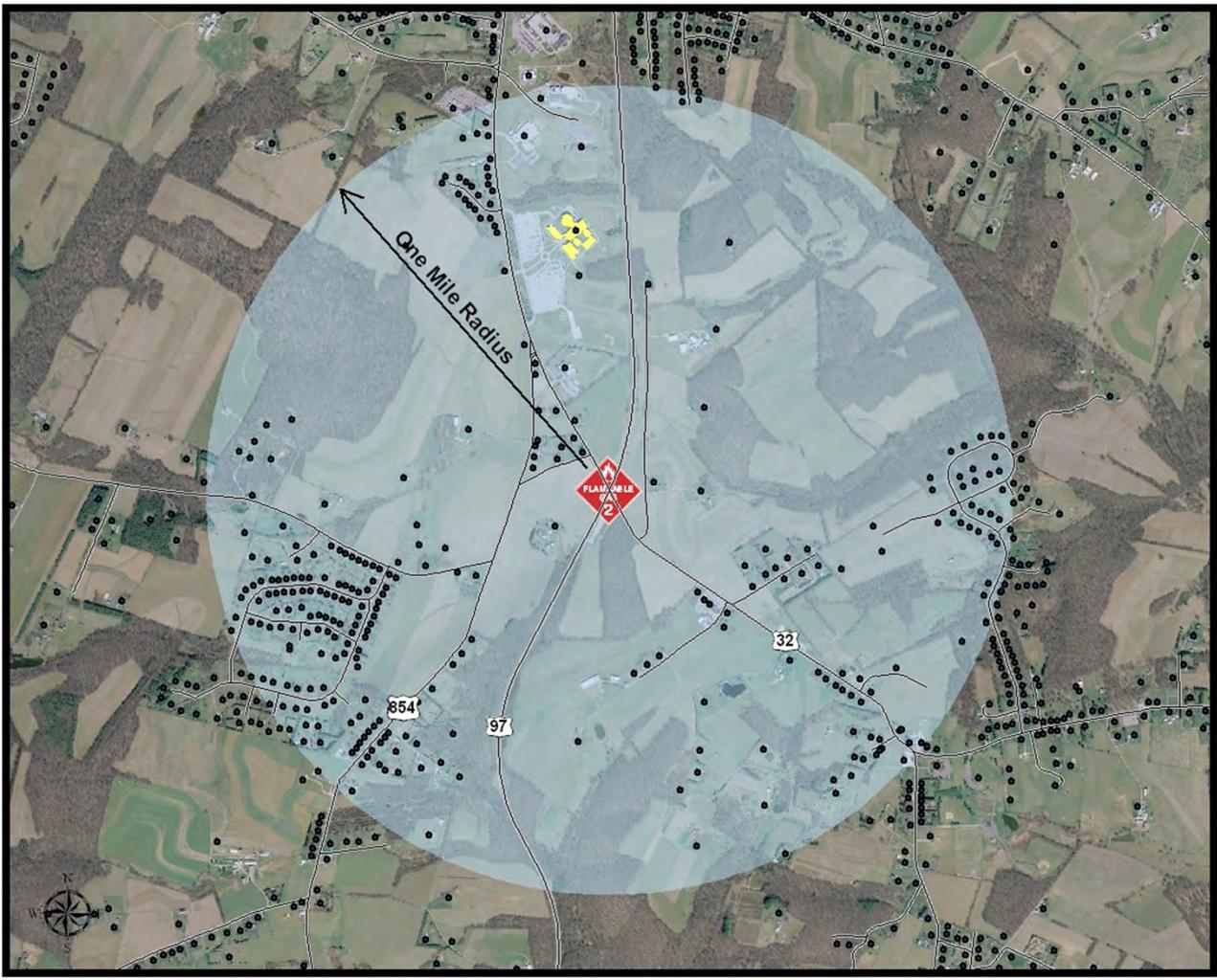
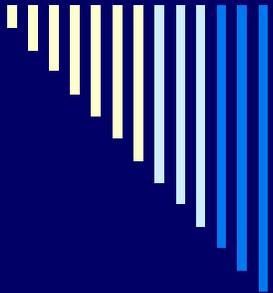
## Emergency Management Mapping Application

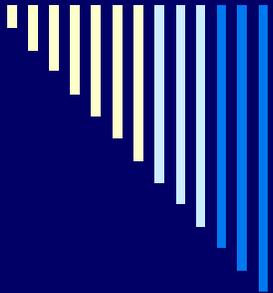
- ❖ EMMA is a product of Towson University's Center for Geographic Information Sciences
- ❖ EMMA Mapping software integrates with WebEOC
- ❖ *Incorporates location into the decision making process*

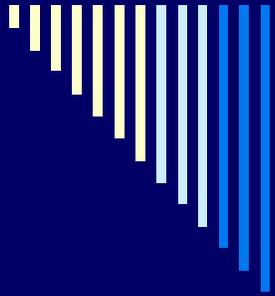












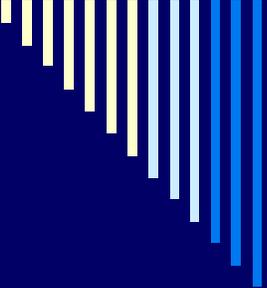
# EMMA

## Emergency Management Mapping Application

- ❖ Customized Layered Web-based mapping program

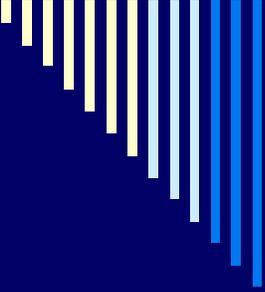
That provides direct links to :

- Roads
- Schools
- Hospital Status
- Police and Fire/Rescue/EMS Stations & Activities
- Traffic Cameras
- Power Outages



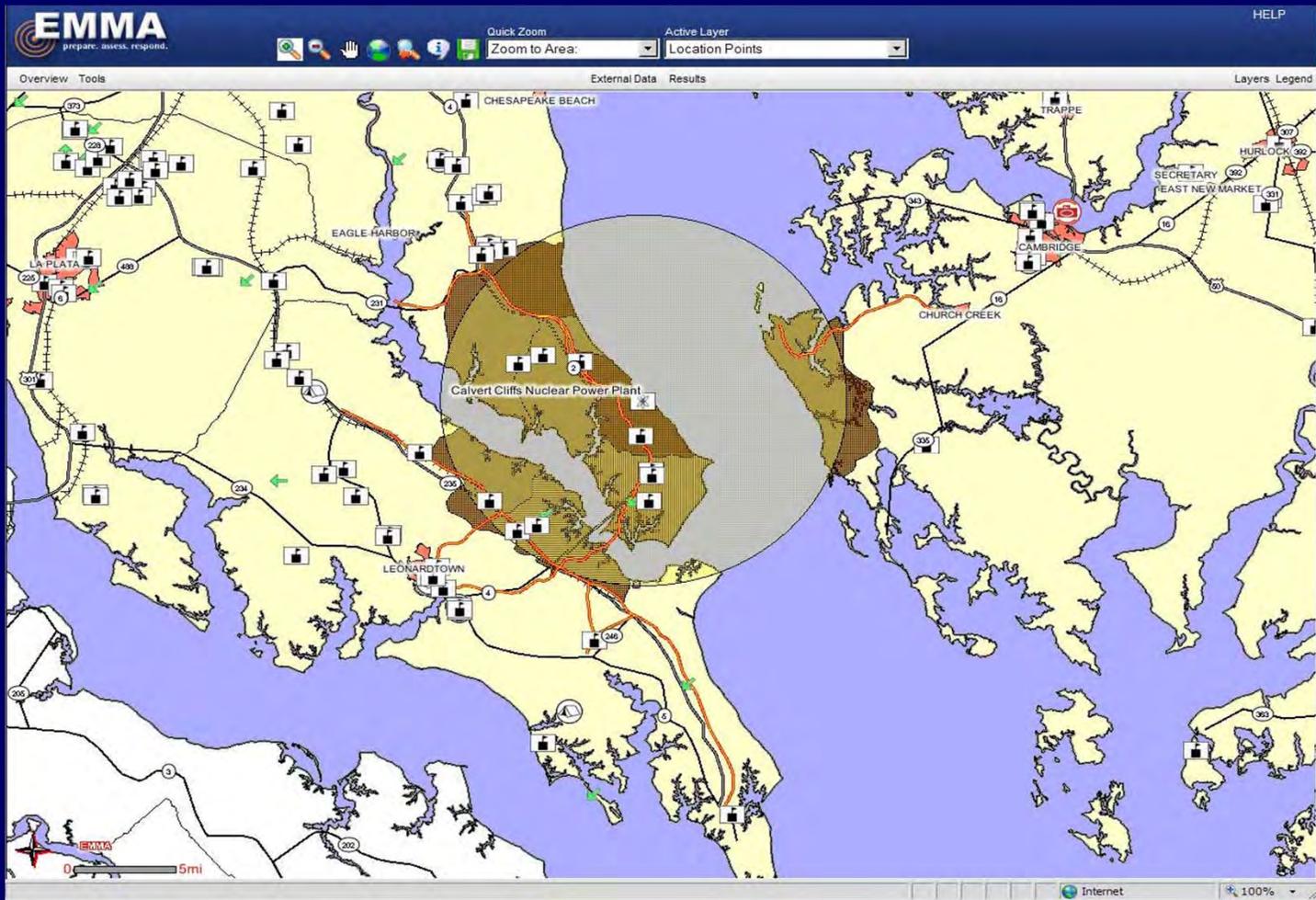
# EMMA Functionality

- ❖ • Identify an incident location
  - ❖ • Field to EOC communication
  - ❖ • Generate a location report
  - ❖ • EOC to field communication
  - ❖ • Visualize an incident location
  - ❖ • Integrate multiple data sets into one view
  - ❖ • Analyze an incident location
  - ❖ • Analyze an impacted area
  - ❖ • Coordinate resources
  - ❖ • Real time, resource tracking
-



# Value of Geospatial Data During Incident Management

- ❖ • Adds a spatial component to the decision making process
  - ❖ • “Common Operating Picture”
    - ❖ – A picture is worth a thousand words...
  - ❖ • Turns data into information
    - ❖ – Map visualization
    - ❖ – Location analysis
    - ❖ – Report generation
    - ❖ – Real time resource tracking
-



Information from established emergency plans from specific facilities has been included in EMMA's core dataset layers

2. Incident Log Ops - Windows Internet Explorer

https://webeoc.mema.state.md.us/eoc6/board.aspx?ops=true&permlevel=2&tableid=234&viewid=509&ppid=6&displayviewid=511

Entry Sort Filter

New Record

Save Spell Check Cancel Retrieve Record

Data Links

Post to BMC Regional Awareness

Post to NCR Regional Awareness

Report As MEMA-GIS

Name Mick

Originator

Date/Time 3/12/2007 2:56 PM

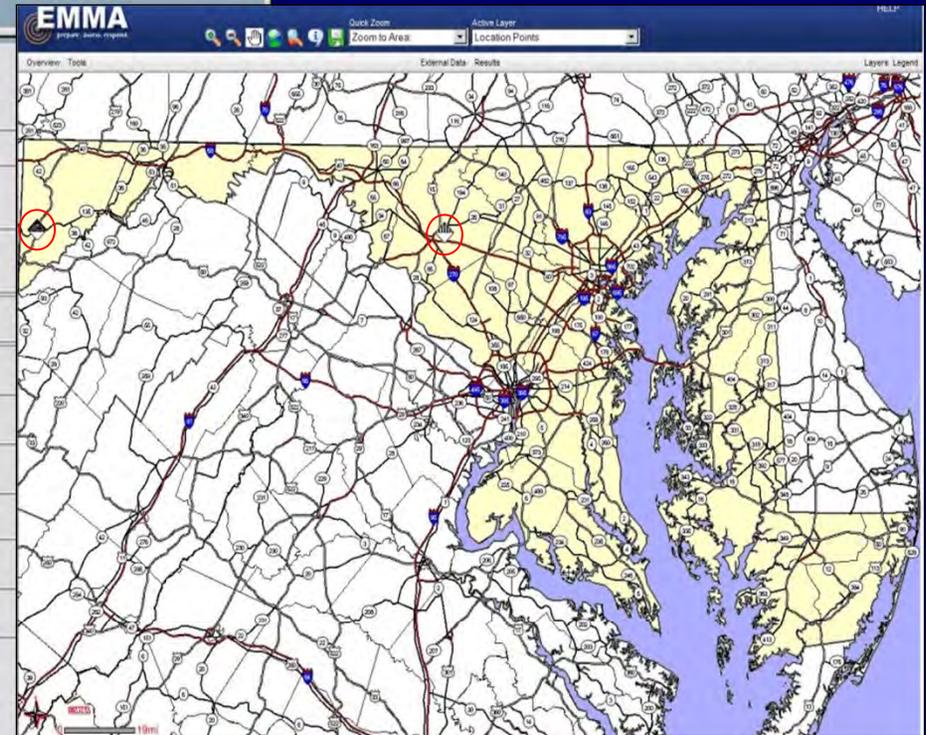
Event Type

Event Location

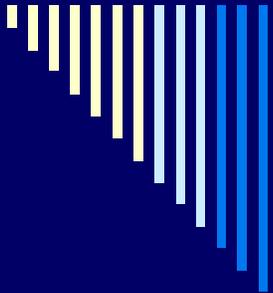
Subject

Description

Priority Define Location by Map Define Location by Address



EMMA is tightly integrated into WebEOC so active incidents can be displayed on the map



# EMMA Real-time Data

## Base Datasets:

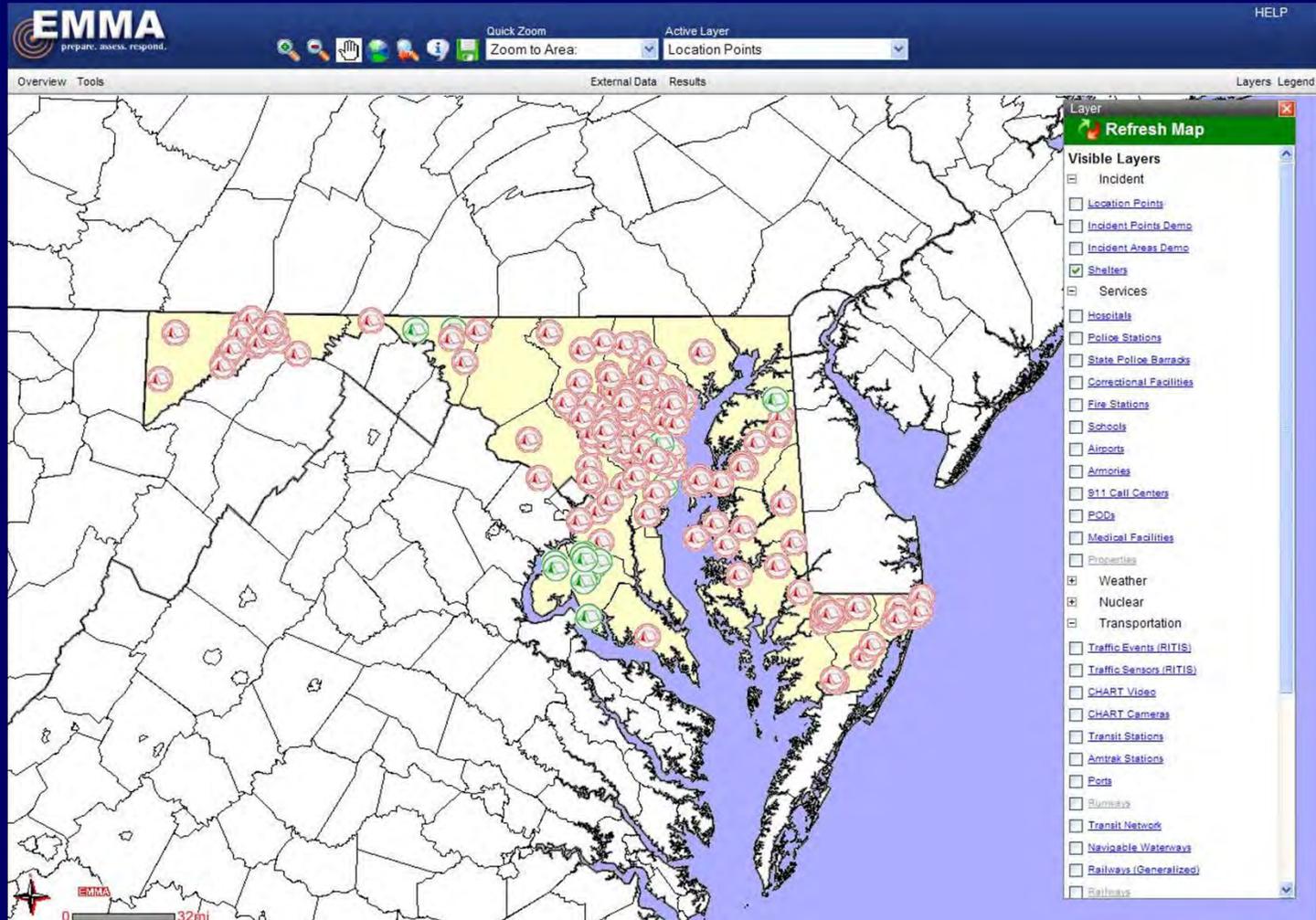
- ❖ Weather AWS Weather stations  
NOAA weather alerts  
(by county)
- ❖ Transportation  
RITIS Traffic Events  
RITIS Traffic Sensors  
CHART Cameras  
CHART Video
- ❖ Hydrology  
USGS Stream Gauge  
Stations
- ❖ Energy  
Power outages (by county)
- ❖ Emergency Shelters  
(from WebEOC)

## External Datasets:

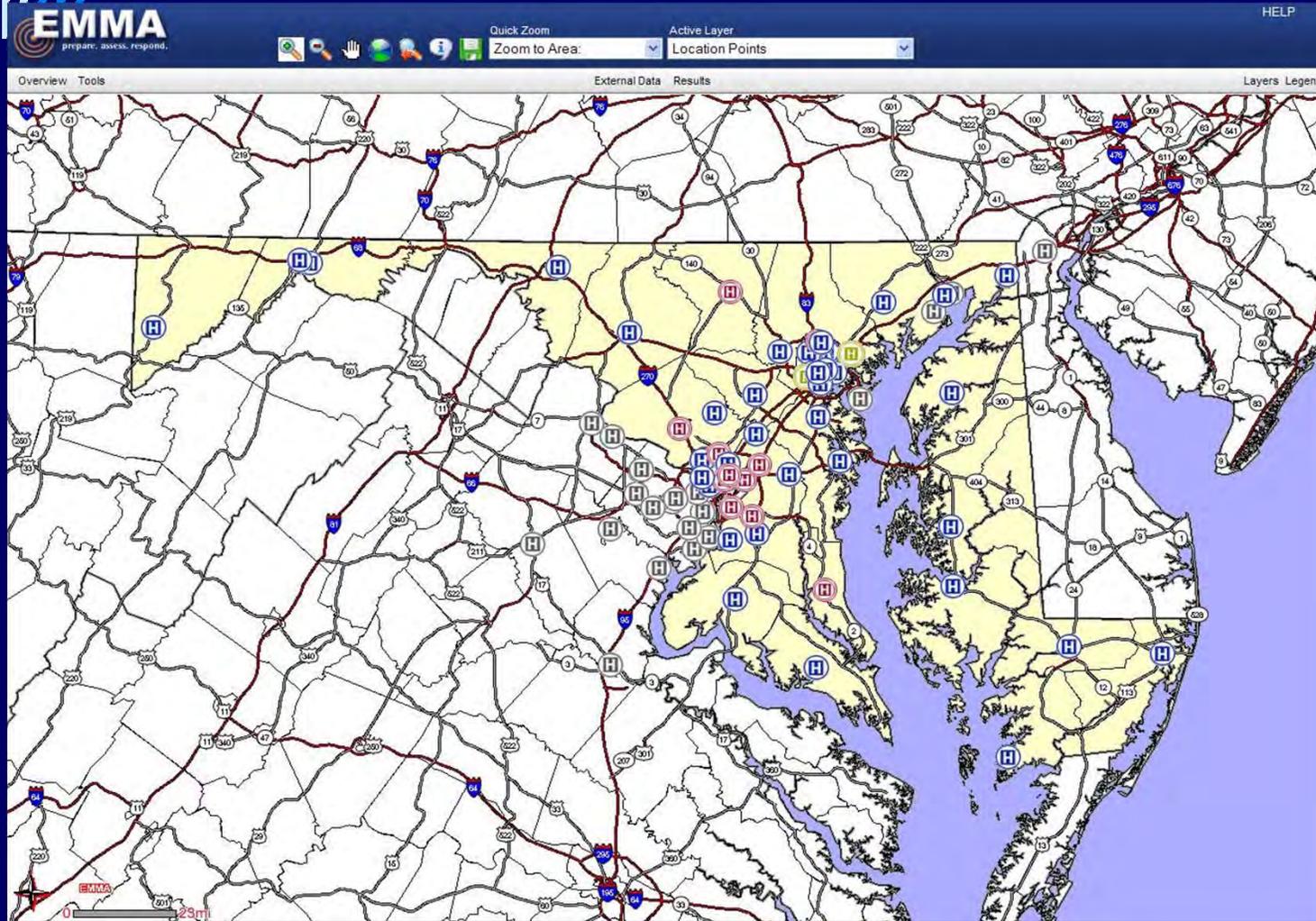
- ❖ Weather NOAA plume  
modeling for Chemical  
Facilities
- ❖ NOAA Weather RADAR



# Shelter Status

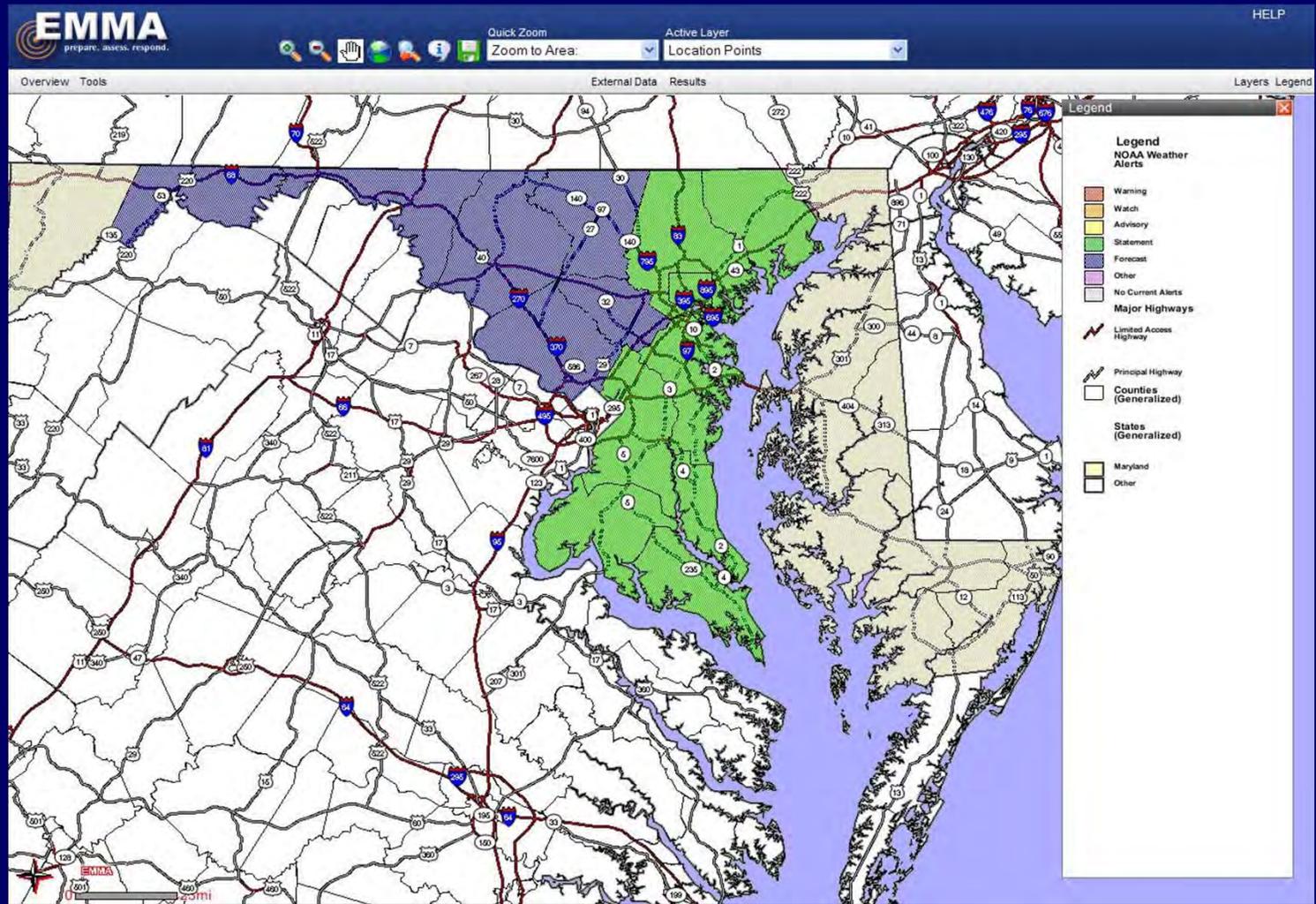


# Hospital Status



# NOAA Alerts by County

We can show a picture of color coded real-time weather alerts.



# NOAA Alerts by County

**EMMA**  
prepare. assess. respond.

Quick Zoom    Active Layer  
Zoom to Area:    NOAA Weather Alerts

Overview Tools    External Data Results    Layers Legend

EFFECTIVEDATE	EXPIRESDATE	COUNTY	AREADESCRIPTION	URL
2007-04-27 09:50:00	2007-04-27 13:00:00	Baltimore	Northern Baltimore (Maryland)	<a href="http://www.weather.gov/alerts/MD.html#MDZ006.LWXNOWLV">http://www.weather.gov/alerts/MD.html#MDZ006.LWXNOWLV</a>
2007-04-27 09:50:00	2007-04-27 13:00:00	Baltimore	Southern Baltimore (Maryland)	<a href="http://www.weather.gov/alerts/MD.html#MDZ011.LWXNOWLV">http://www.weather.gov/alerts/MD.html#MDZ011.LWXNOWLV</a>
2007-04-27 06:03:00	2007-04-27 12:00:00	Baltimore	Southern Baltimore (Maryland)	<a href="http://www.weather.gov/alerts/MD.html#MDZ011.LWXSPLWLV">http://www.weather.gov/alerts/MD.html#MDZ011.LWXSPLWLV</a>

**Refresh Map**

**Visible Layers**

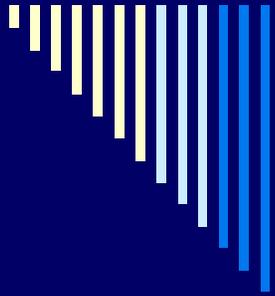
- Incident
- Location Points
- Incident Points Demo
- Incident Areas Demo
- Shelters
- Services
- Hospitals
- Police Stations
- State Police Barracks
- Correctional Facilities
- Fire Stations

**Short Term Forecast**  
**Northern Baltimore (Maryland)**

SHORT TERM FORECAST  
NATIONAL WEATHER SERVICE BALTIMORE MD/WASHINGTON DC  
755 AM EDT FRI APR 27 2007  
DC001-MD0505007-0094111-013-014-016-018-VA20505057-271400-  
DISTRICT OF COLUMBIA-CARROLL-NORTHERN BALTIMORE-HARFORD-  
MONTGOMERY-HOWARD-SOUTHERN BALTIMORE-PRINCE GEORGES-ANNE ARUNDEL-  
CHARLES-ST. MARYS-CALVERT-ORANGE-CILPEPER-  
PRINCE WILLIAM/MANASSAS/MANASSAS PARK-FAIRFAX-  
ARLINGTON/FALLS CHURCH/ALEXANDRIA-STAFFORD-SPOTSYLVANIA-  
KING GEORGE-  
755 AM EDT FRI APR 27 2007  
JOM  
- - -  
SHOWERS WILL CONTINUE TO AFFECT THE REGION EARLY THIS MORNING.  
MOST LOCATIONS WILL SEE A TENTH TO A QUARTER INCH OF RAIN THROUGH  
10 AM...HOWEVER SOME OF THE HEAVIER SHOWERS WILL HAVE THE  
POTENTIAL TO BRING A HALF INCH OF RAIN.  
AREAS OF DENSE FOG WILL AFFECT SOME COMMUNITIES ALONG THE SHORES  
OF THE TIDAL POTOMAC RIVER AND HARBORLAND CHEESAPEAKE BAY. MOTORISTS  
SHOULD USE CAUTION AND ALLOW EXTRA TIME FOR THE MORNING COMMUTE.  
\$\$

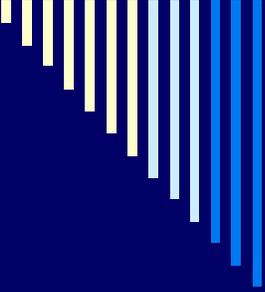
**Short Term Forecast**  
**Harford (Maryland)**

SHORT TERM FORECAST  
NATIONAL WEATHER SERVICE BALTIMORE MD/WASHINGTON DC  
755 AM EDT FRI APR 27 2007  
DC001-MD0505007-0094111-013-014-016-018-VA20505057-271400-  
DISTRICT OF COLUMBIA-CARROLL-NORTHERN BALTIMORE-HARFORD-  
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CHARLES-ST. MARYS-CALVERT-ORANGE-CILPEPER-  
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ARLINGTON/FALLS CHURCH/ALEXANDRIA-STAFFORD-SPOTSYLVANIA-  
KING GEORGE-  
755 AM EDT FRI APR 27 2007



# File Library

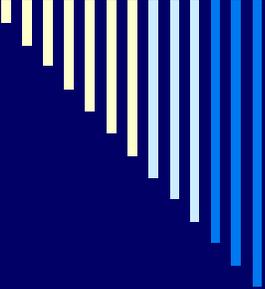
- ❖ The File Library Plug-in allows WebEOC users to share documents and files such as:
  - Declarations
  - Plans
  - Situation Reports
  - Shelter Status's
  - News Releases
  - And many others



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# The Plan

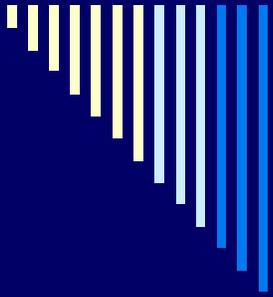
- ❖ Countywide rollout- connectivity
  - ❖ Identify administrators and users
  - ❖ Basic and advanced training for users
  - ❖ Assign access rights and privileges
-



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# WebEOC Exercise

- ❖ County-wide
    - ❖ Identify Shortcomings
      - ❖ Initiate Corrective Actions
        - ❖ Ensure Competency
-



Questions???????