



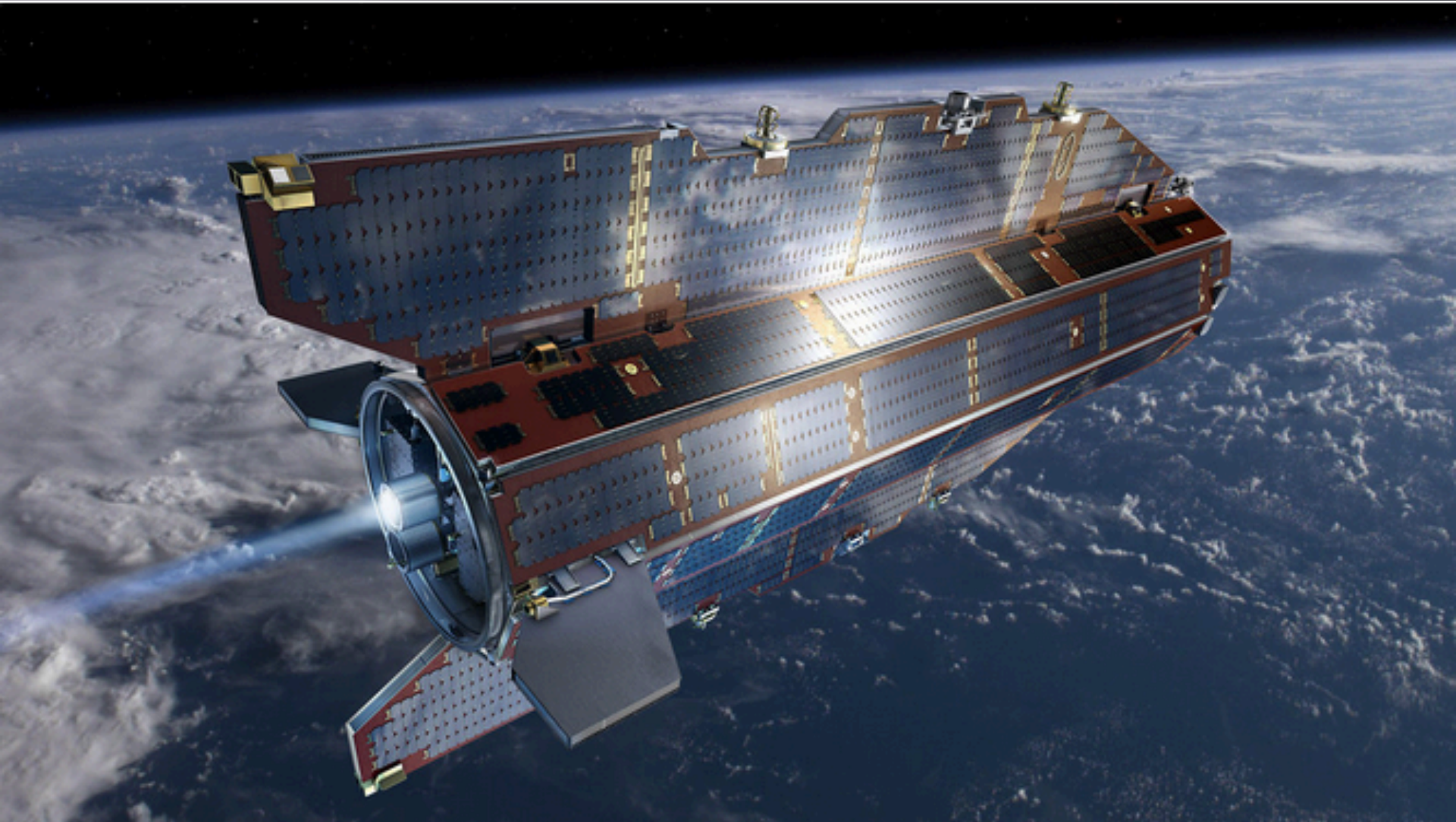
CRISIS RESPONSE A SPECIAL SPATIAL SPOTLIGHT

2013 NYGeoCON
Saratoga Springs, NY

Goals of Session

- ▣ Have fun!
- ▣ Learn a little about GIS and emergency management at various levels of government
- ▣ Consider what other GIS derived information is needed by the public
- ▣ Do a bit of thinking outside the box!

Look on the Bright Side!
We're Already Ahead of the Game !



Panelists

- ▣ Julia O'Brien, FEMA Region II Geospatial Coordinator
- ▣ Tim Ruhren, Mapping Technologist, NYS Office of Information Technology Services
- ▣ Doug Schuetz, GIS Director, Rockland County
- ▣ Don Meltz, Don Meltz Planning & GIS

Session Agenda

- ▣ The session will be divided into 2 parts: 15 minutes of introductory information & 75 minutes of facilitated discussion
- ▣ Part 1 – Presentation on issues and keys to the successful use of GIS for emergency management
- ▣ Part 2 – Scenario Exercise w/Facilitated Discussion
 - Audience & panelist answers
 - “Lessons learned”

“Typical” GIS Emergency Management Issues

- ▣ Lack of understanding of Emergency Mgt. needs
- ▣ Lack of understanding of GIS capabilities
- ▣ Lack of understanding of Emergency Mgt protocols
- ▣ Lack of adequate GIS preparation
- ▣ Lack of adequate GIS resources at the local level
- ▣ Lack of good communication on GIS
- ▣ Lack of distribution of GIS work

“Typical” GIS Emergency Management Issues

- ▣ Lack of information to the public
- ▣ Lack of access to event specific data (people coming in)
- ▣ Timing
 - Getting GIS staff together quickly
 - Getting products out in the first 1-2 hours
 - Meeting general expectations
- ▣ Having adequate data on location and extent of event

Keys to Successful Use of GIS that Emergency Managers Need to Know

- ▣ Learn how can GIS assist emergency managers in responding to events
- ▣ Have a GIS team selected and trained in ICS
- ▣ Integrate the use of GIS into standard operating procedures/emergency management workflow
- ▣ Provide regular communication with the GIS team on needs, expectations and product delivery timetables.

Keys to Successful Use of GIS that Emergency Managers Need to Know

- ▣ Provide your GIS team with regular training on GIS software/tools as well as incident scenarios
- ▣ Integrate the use of GIS into emergency management drills/scenarios
- ▣ Educate emergency mgt staff on the benefits of GIS
- ▣ Provide a space in the EOC for the GIS team to work together/collaborate

Keys to Successful Use of GIS that Emergency Managers Need to Know

- ▣ Provide appropriate bandwidth, Internet connectivity, servers, printers/plotters, supplies and IT staff support
- ▣ Designate a GIS liaison to work with the emergency managers and first responders to meet their needs and suggest support
- ▣ Provide the GIS professionals a clearly defined org chart
- ▣ Enable proper coordination with State and Federal Governments when appropriate

Keys to Successful Use of GIS that GIS Professionals Need to Know

- ❑ Know what are the major issues facing emergency managers and first responders for common incidents
- ❑ Determine what GIS products can be of the greatest assistance to them for those incidents
- ❑ Establish a schedule for delivery of standard products
- ❑ Identify what data is required to produce those products and place as much as possible in a centralized location
- ❑ Create basemaps, templates and standard forms whenever possible

Keys to Successful Use of GIS that GIS Professionals Need to Know

- ▣ Work with emergency management staff to integrate these elements into the daily briefings and emergency management workflow
- ▣ Ensure that you have the proper bandwidth (or establish what you have available), Internet connectivity, servers, printers/plotters and any other equipment
- ▣ Establish a risk avoidance plan for what to do without the items/services discussed with management and/or other key items with high probabilities of failure.

Keys to Successful Use of GIS that GIS Professionals Need to Know

- ▣ Speed is critical! Products need to be delivered on time in order for emergency managers and responders to make informed decisions
- ▣ Develop training on software/tools, scenarios, and emergency management drills, and conduct this training on a regular basis
- ▣ Understand the organization chart in place during the event
- ▣ Create a staff list with contact information and shift preference pre-event that can be used during the response.

Keys to Successful Use of GIS that GIS Professionals Need to Know

- ▣ Communication is critical during a response
 - Communicate with management and requestors about expectations, needs, and products available
 - Establish a procedure for processing standard products as well as new product requests
 - Conduct regular GIS team communication
 - Coordinate with State and Federal Governments when appropriate
- ▣ Create metadata “lite”
 - Include basic information such as the incident name, description, source of the data, contact information, the date and time it was created/collected and limitations

POTENTIAL RESOURCES

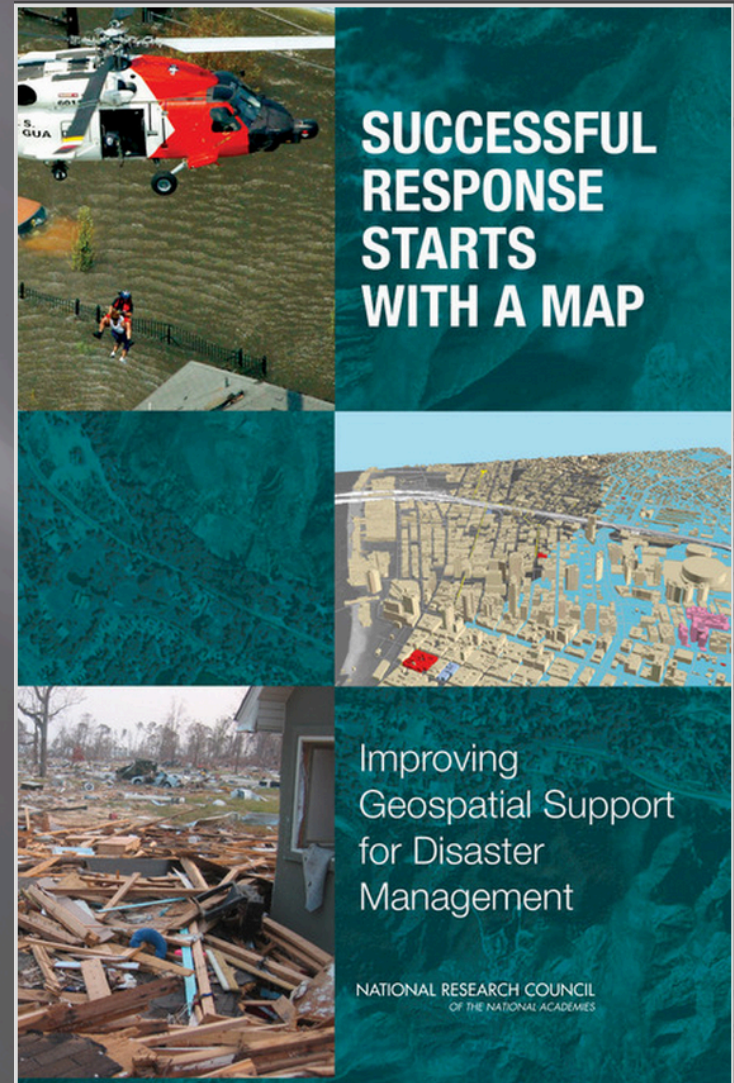
National Research Council

▣ National Research Council

[http://www.nap.edu/
catalog.php?
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■ GIS Preparedness Check List

[http://www.nap.edu/
openbook.php?
record_id=11793&page=1
63](http://www.nap.edu/openbook.php?record_id=11793&page=163)



FEMA

- Federal Emergency Management Agency (<http://gis.fema.gov/>)

The screenshot displays the FEMA GIS website interface. At the top left is the FEMA logo, and at the top right are links for "Contact Us", "A-Z Index", "Frequently Asked Questions", and "Español". Below the logo is the text "FEMA" and an "Advanced Search" field with a "Go" button. A navigation menu includes "Home", "Plan & Prepare", "Recover & Rebuild", "Apply for Assistance", "Disasters & Maps", "FEMA Audiences", "About FEMA", and "News & Media". A blue banner contains a notice: "NOTICE: Due to the lapse in federal funding, portions of this website may not be updated and some non-disaster assistance transactions submitted via the website may not be processed or responded to until after appropriations are enacted. [Mark Info](#)".

On the left side, there is a sidebar menu with the following items: "Enterprise GIS Services", "Missions and Functions", "GIS Activities", "Data Feeds", "Disclaimer", and "Contact FEMA GIS". The main content area is titled "FEMA Enterprise GIS Services" and includes a "Print Preview" icon. The text describes the agency's mission and the services provided, mentioning the Mapping and Analysis Center (MAC) and the Deployable Emergency GIS program (DEGS).

The central part of the interface features a map of the United States with various cities labeled. To the right of the map is a "Layers" panel with the following options:

- Base Map Layers
 - OpenStreetMap
 - World Imagery (ESRI)
 - Street Map (ESRI)
- FEMA Overlays
 - Disaster Recovery Centers
 - Designated Counties
 - Hurricane Evacuation Routes

At the bottom of the map area, there is a search bar with the text "Type your address" and a "SEARCH" button. Below the search bar is a scale bar showing "1000 km" and "1000 mi". At the very bottom, there is a "Decimal Degrees" dropdown menu.

NYS Division of Homeland Security and Emergency Services

- NYS Division of Homeland Security and Emergency Services
- NYS ITS GIS Program Office
 - NYS GIS Clearinghouse - <http://gis.ny.gov/>
 - New York State's Critical Infrastructure Response Information System (CIRIS)

New York State State Agencies Search all of NY.gov

NYS GIS Clearinghouse

NYS ITS GIS DATA COORDINATION PROGRAM ORTHOIMAGERY DATA SHARING COOPERATIVE

Office of Information Technology Services

With the passage of the 2013-14 State budget, the functions, powers, and duties of the Office of Cyber Security (OCS) have been transferred to the Office of Information Technology Services (ITS). The statewide GIS activities formerly associated with OCS are continuing without interruption, but now organizationally assigned to ITS. You will see us identified as the GIS Program Office within ITS. We remain located at the Headquarters office of the NYS Division of Homeland Security and Emergency Services and will continue to support their GIS requirements.

WHAT'S NEW

- 2012 Orthoimagery Now Available For Download
- Online GIS Parcel Data Resources - Updated
- Tioga County Parcel Data
- Schoharie County Parcel Data
- Cortland County Parcel Data
- Cattaraugus County Parcel Data
- NYS Elevation Data

ELEVATION RASTER MAPS OUTREACH GIS HELP DESK CUGIR

NAPSG

- National Alliance for Public Safety GIS:

<http://www.napsgfoundation.org/>

- Standard Operating Guidance Documents

[://www.napsgfoundation.org/blog/napsg-blog/148-napsg-standard-operating-guidance-documents](http://www.napsgfoundation.org/blog/napsg-blog/148-napsg-standard-operating-guidance-documents)

- SOG for Multi-Agency Coordination Centers
- SOG for Coastal Oil Spills
- SOG for Wildfires

- Capability and Readiness Assessment Tool (CARAT)

<http://carat.napsgfoundation.org/>

The screenshot shows the NAPSG Foundation website homepage. The header includes the NAPSG Foundation logo, social media icons for Twitter, Facebook, and YouTube, and a search bar. The main navigation menu includes Home, About, Programs, Events, Partnerships, Resource Portal, and Blog. A red banner at the top left displays an error message: "Error loading feed data." Below this is a large image of a train with a yellow sign that reads "NEIGHBOURHOOD WATCH ALL SUSPICIOUS ACTIVITY REPORTED" and text that says "FOR PREPAREDNESS, MITIGATION, RESPONSE AND RECOVERY". The page is divided into several sections: "LATEST NEWS" with links to "Implementation Guide to USNG" and "Virtual Training: Coastal Oil Spill SOG"; "LATEST BLOG" with a link to "NAPSG Standard Operating Guidance documents"; "LATEST EVENTS" with "No events"; "TOOLS & RESOURCES" with links to "Capability & Readiness Assessment Tool Prototype", "Public Safety Data Model", "Public Safety GIS Workshops - Coming to Your Region", and "Best Practices"; "OUR MISSION" with a description of supporting public safety and homeland security communities; "RECENT TWEETS"; "JOIN OUR NEWSLETTER" with a form for Name and E-mail; and "RESOURCE PORTAL LOG-IN" with fields for Username and Password, a "Remember Me" checkbox, a "LOGIN" button, and links for "Forgot your password?", "Forgot your username?", and "Create an account". The footer includes "Thank You to Our Supporters" and logos for NAVTEQ, esri, Constellation Energy, CSX TRANSPORTATION, and Microsoft.

NSGIC

▣ NSGIC (www.nsgic.org)

- GIS Inventory Public Safety Interface
<http://publicsafety.gisinventory.net/>
- GIS Emergency Contacts (all levels of government)
- Lessons learned from Sandy

The screenshot shows the 'PUBLIC SAFETY INTERFACE' of the 'GIS INVENTORY' website. The header includes the PSI logo and navigation links: HOME, DATA LAYERS, STATUS MAP, DIRECTORY, MY PROFILE, GETTING STARTED, ABOUT, and SUPPORT. A 'LOG IN' button is visible in the top right. The main content area features several informational boxes: NAPSG (National Alliance for Public Safety GIS Foundation), HIFLD (Homeland Infrastructure Foundation-Level Data), CARAT (Capability and Readiness Assessment Tool), U.S. National Grid (USNG National Implementation Center (TUNIC)), and NSGIC (National States Geographic Information Council). On the right side, there are links to 'GeoCONOPS Full Guide', 'GeoCONOPS Quick Start', 'Sources for GIS Data', 'Geospatial Platform', and 'Digital Coast'. A footer section contains the NSGIC logo and a welcome message: 'Welcome to the Public Safety Interface of the GIS Inventory'. Below this, a paragraph explains that the GIS Inventory is produced by the National States Geographic Information Council (NSGIC) as a tool for states and their partners, with the primary purpose of tracking data availability and GIS implementation in state and local governments.

NOAA

- National Oceanic and Atmospheric Administration
 - Digital Coast <http://www.csc.noaa.gov/digitalcoast/>

The screenshot displays the NOAA Digital Coast website. At the top left is the NOAA logo and the text "DIGITAL COAST NOAA COASTAL SERVICES CENTER". A search bar is located at the top right. A navigation menu includes links for Home, About, Data, Tools, Training, Apply It, Stories, and GeoZone Blog. The main heading is "Sea Level Rise and Coastal Flooding Impacts Viewer". Below this, it lists "Contributing Partners: NOAA Coastal Services Center". A progress bar shows "Overview" as the active step, followed by "In Action", "Support", and "Get It Now". A paragraph describes the tool's purpose: "Being able to visualize potential impacts from sea level rise is a powerful teaching and planning tool, and the Sea Level Rise Viewer brings this capability to coastal communities. A slider bar is used to show how various levels of sea level rise will impact coastal communities. Additional coastal counties will be added in the near future. Maps are not available for Alaska due to elevation data accuracy and vertical datum transformation gaps." The "Features" section lists: "Displays potential future sea levels", "Provides simulations of sea level rise at local landmarks", "Communicates the spatial uncertainty of mapped sea levels", "Models potential marsh migration due to sea level rise", "Overlays social and economic data onto potential sea level rise", and "Examines how tidal flooding will become more frequent with sea level rise". The "Acknowledgements" section states: "The NOAA Coastal Services Center would like to acknowledge those organizations that provided direct content used in this tool or feedback, ideas, and reviews over the course of the tool's development. Specifically the Center would like to acknowledge the following groups". A "View First Time Tips Video" button is at the bottom left. On the right, a "Digital Coast Webinar Series" box highlights "Mapping and Visualizing Sea level Rise and Coastal Flooding Impacts" with a "View recorded webinar" link. Below that, a "Related Training" box lists: "Climate Adaptation for Coastal Communities", "Coastal Inundation Mapping", and "Planning for Climate Change". A central image shows a map interface with a legend and a data panel.

DHS


- ▣ Dept. of Homeland Security
 - ▣ Homeland Security Infrastructure Program (Freedom & Gold)

The screenshot shows the DATA.GOV website interface. At the top left is the DATA.GOV logo with the tagline 'EMPOWERING PEOPLE'. To the right are search bars for 'Search Data Catalog' and 'Search site content', along with 'Open ID' and 'Login' links. Below the search bars is a navigation menu with links for HOME, ABOUT, DATA, METRICS, OPEN GOVERNMENT, BLOGS, and COMMUNITIES. The main content area features a map titled 'SANDY DAMAGE ESTIMATES BY BLOCK GROUP' showing the Lower New York Bay area. The map displays various colored areas representing damage levels, with a 'sandy damage' label pointing to a specific area. The U.S. Department of Housing and Urban Development logo is visible in the bottom right corner of the map area. To the right of the map is a 'Latest Datasets' section with a list of datasets:

- TIGER/Line Shapefile, 2011, Series In...
- Multibeam Collection for EX1304: Nort...
- EX1305: Summer Ecosystem Monitoring S...
- Chile Triple Junction 2012: NE Lau Ba...
- Sub-bottom Profiler Collection for EX...
- Singlebeam Collection for EX1304: Nor...
- Scientific Computing System (SCS) Dat...
- EX1304: Northeast U.S. Canyons Explor...
- Library holdings for Cradle of the Ea...
- Multibeam Collection for EX1304: Nort...

USGS

- United States Geological Survey – Emergency Operations Portal <http://hdds.usgs.gov/EO/>



USGS
science for a changing world

USGS Home
Contact USGS
Search USGS

Emergency Operations Portal

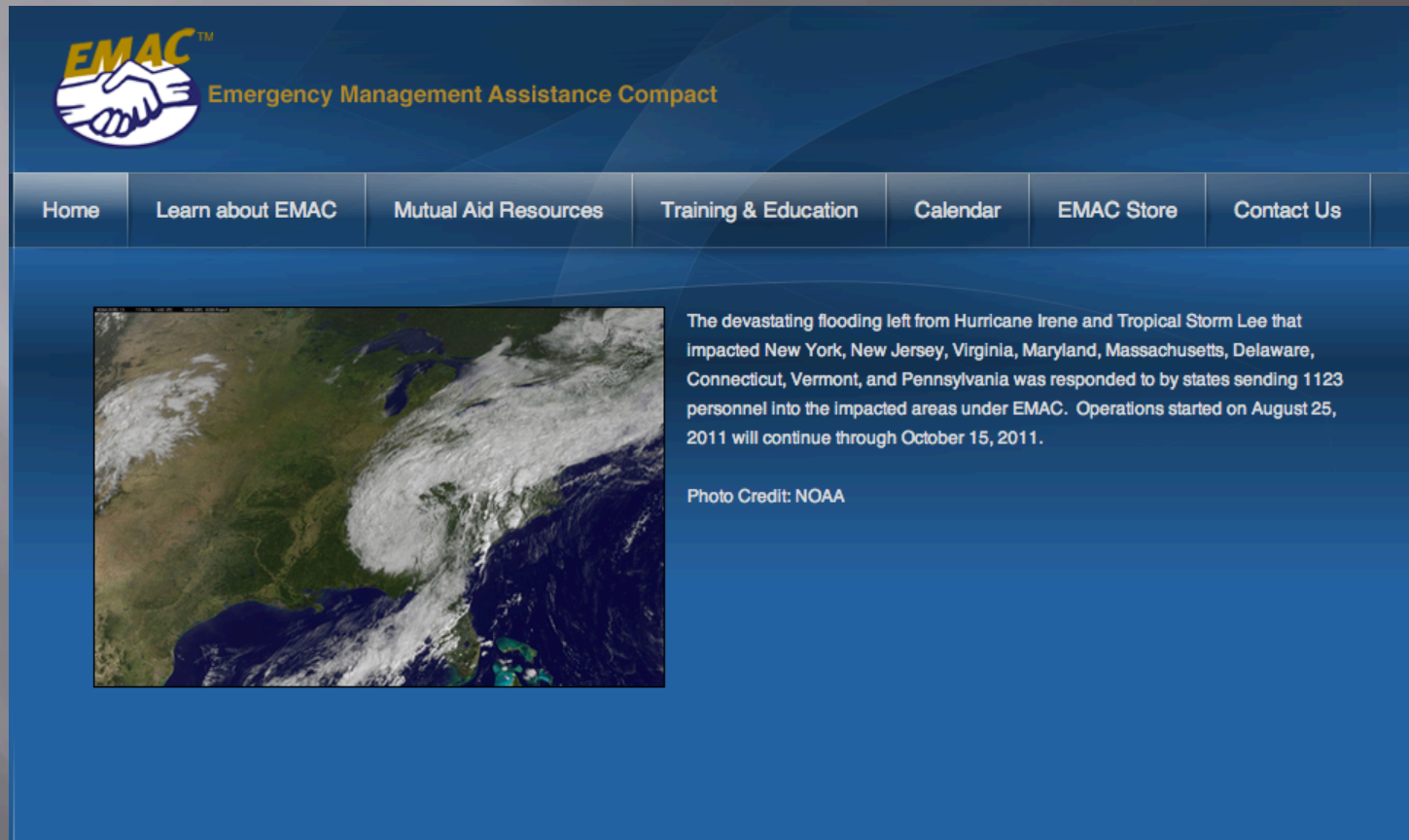
- **Quick Downloads of U.S. and International Imagery**
Access disaster response imagery in predefined tiled downloads (HDDS).
- **Interactive GIS Map Viewer**
Use the interactive map to specify your area of interest and choose data layers.
- **GIS Resources**
Find Web map services.
- **Digital Library**
Locate related Web sites, resources, maps, products, presentations, meeting notes, and much more.

Emergency Operations

Explore critical pre- and post-disaster images and datasets online for immediate viewing and downloading. The U.S. Geological Survey (USGS) Emergency Operations, in support of the Department of Homeland Security, provides these images for use in disaster preparations, rescue and relief operations, damage assessments, and reconstruction efforts. We supply satellite and aerial images for analysis of disaster areas before, during, and after a disaster.

EMAC

- Emergency Management Assistance Compact (<http://www.emacweb.org/>)



EMAC™
Emergency Management Assistance Compact

Home | Learn about EMAC | Mutual Aid Resources | Training & Education | Calendar | EMAC Store | Contact Us

The devastating flooding left from Hurricane Irene and Tropical Storm Lee that impacted New York, New Jersey, Virginia, Maryland, Massachusetts, Delaware, Connecticut, Vermont, and Pennsylvania was responded to by states sending 1123 personnel into the impacted areas under EMAC. Operations started on August 25, 2011 will continue through October 15, 2011.

Photo Credit: NOAA

International Charter

▣ <http://www.disasterscharter.org/>

The screenshot shows the homepage of the International Charter Space & Major Disasters. The header features a globe logo with the text 'International Charter Space & Major Disasters' and 'Charte Internationale Espace et Catastrophes Majeures'. A navigation bar includes 'Contact Us | English | Español | Français | 日本語 | 中文'. The main content area is titled 'INTERNATIONAL CHARTER SPACE AND MAJOR DISASTERS' and features a NOAA logo. The text describes the charter's mission: 'The International Charter aims at providing a unified system of space data acquisition and delivery to those affected by natural or man-made disasters through Authorized Users. Each member agency has committed resources to support the provisions of the Charter and thus is helping to mitigate the effects of disasters on human life and property. Read [more](#).' Below this, there are three sections: 'Latest Charter Activation' featuring 'Typhoon Haiyan in the Philippines' with a map and a 'Read more' link; 'Recent Activations' listing events like 'Typhoon Haiyan in the Philippines', 'Volcano in Indonesia', 'Flood in Cambodia', 'Typhoon Nari in Vietnam', and 'Fires in Australia'; and 'Latest Charter News' with a link to the '12th Annual Report of the Charter' dated Thursday, October 17, 2013. A sidebar on the left contains a menu with items like 'Home page', 'Charter Activations', 'Map of Activations', 'Media Gallery', 'News', 'About the Charter', 'Advanced search', and 'Useful Links'. At the bottom of the sidebar are 'RSS' and 'XML' icons.

SETTING THE STAGE FOR THE EVENT!

Tuesday, November 26th 2013

- ▣ It's two days before Thanksgiving
- ▣ Folks have finalized plans for busiest travel time of the year
- ▣ Beautiful weather is predicted for the majority of the country for the remainder of the week
- ▣ One of the exceptions is the east coast where a major coastal storm is projected to hit landfall around New York City and head inland from there!

National Weather Service

Customize Your Weather.gov

City, ST

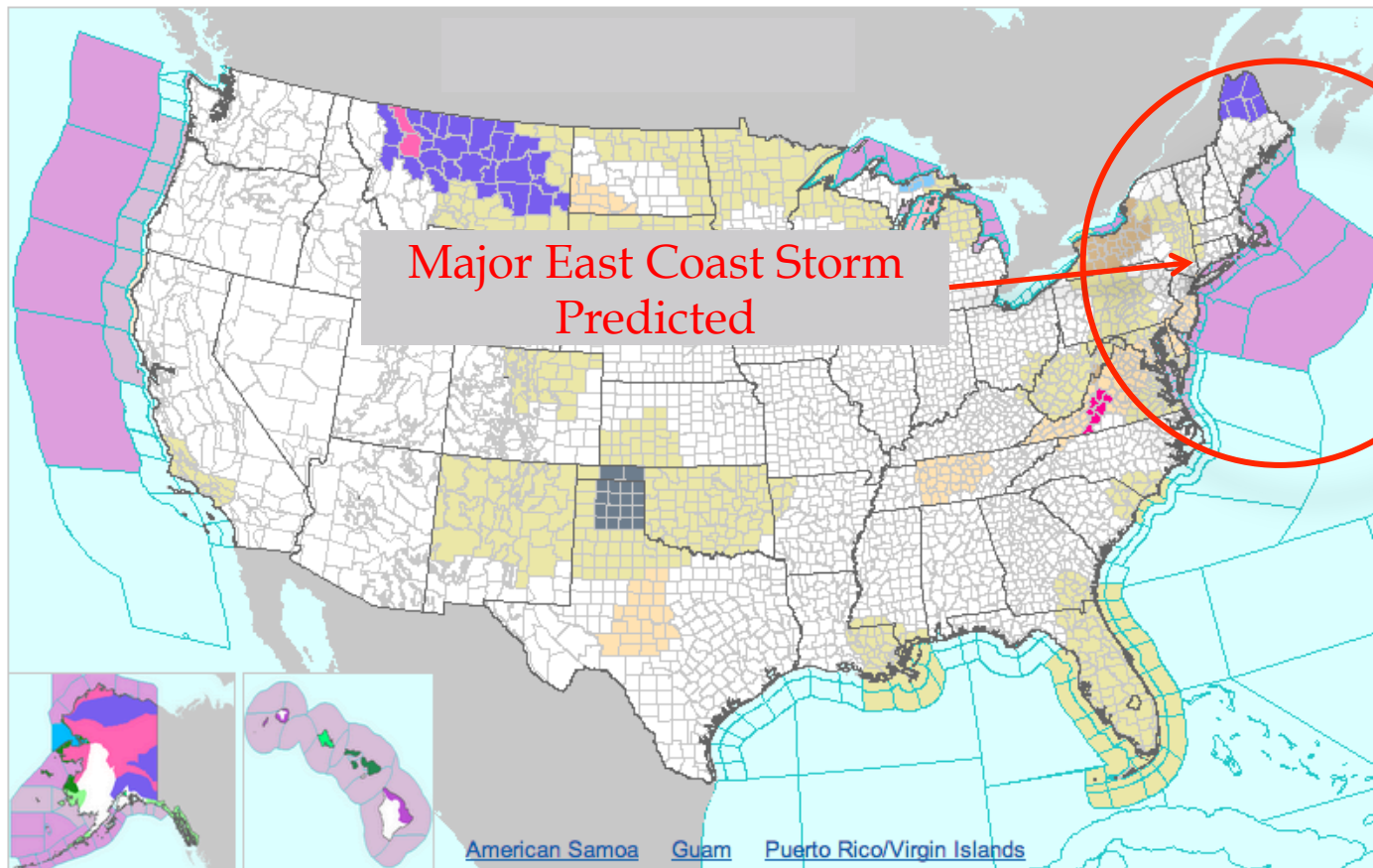
Enter Your City, ST or ZIP Code

Remember Me

Get Weather

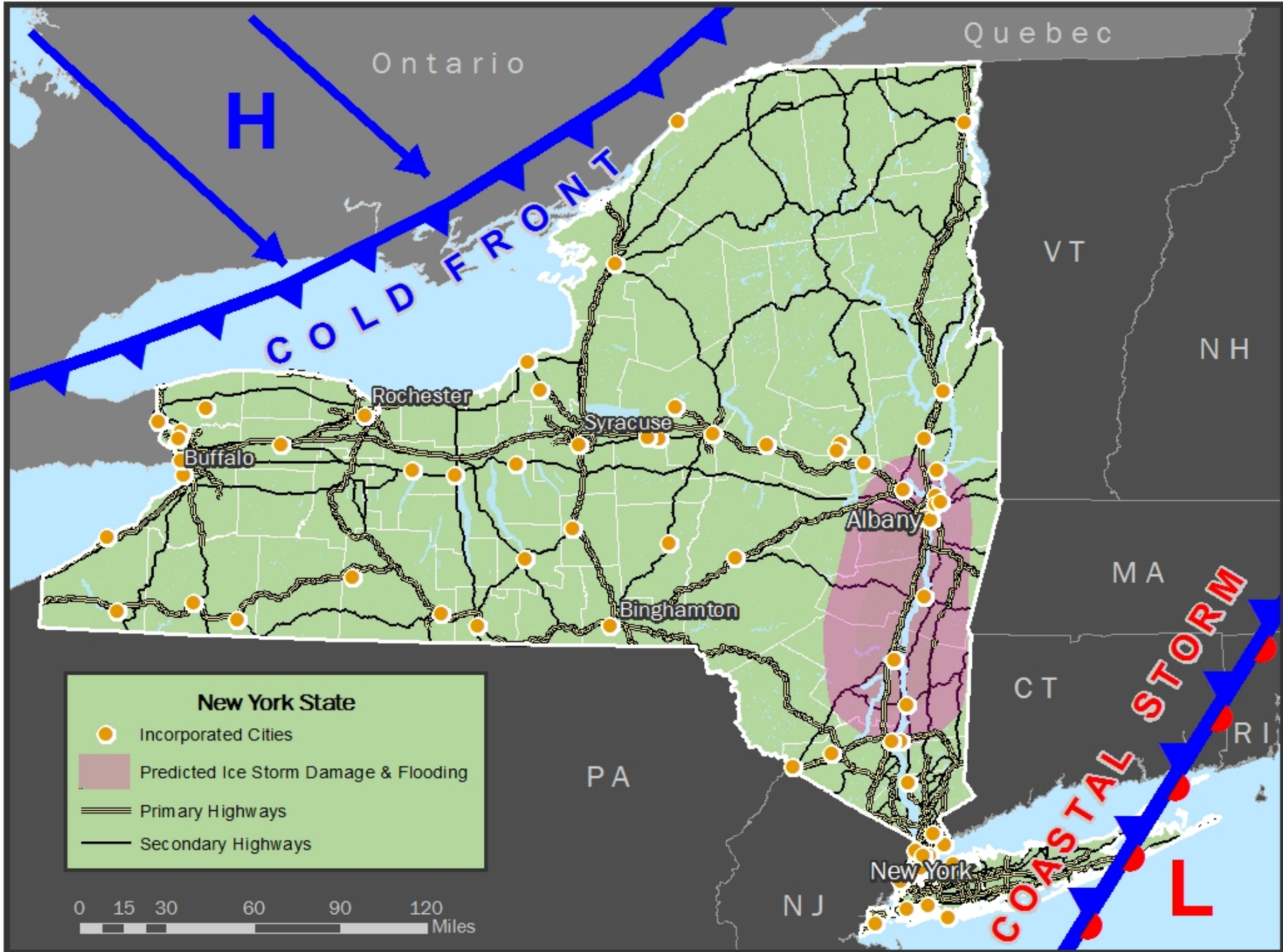
[Privacy Policy](#)

[ACTIVE ALERTS](#) [FORECAST MAPS](#) [RADAR](#) [RIVERS, LAKES, RAINFALL](#) [AIR QUALITY](#) [SATELLITE](#) [PAST WEATHER](#)



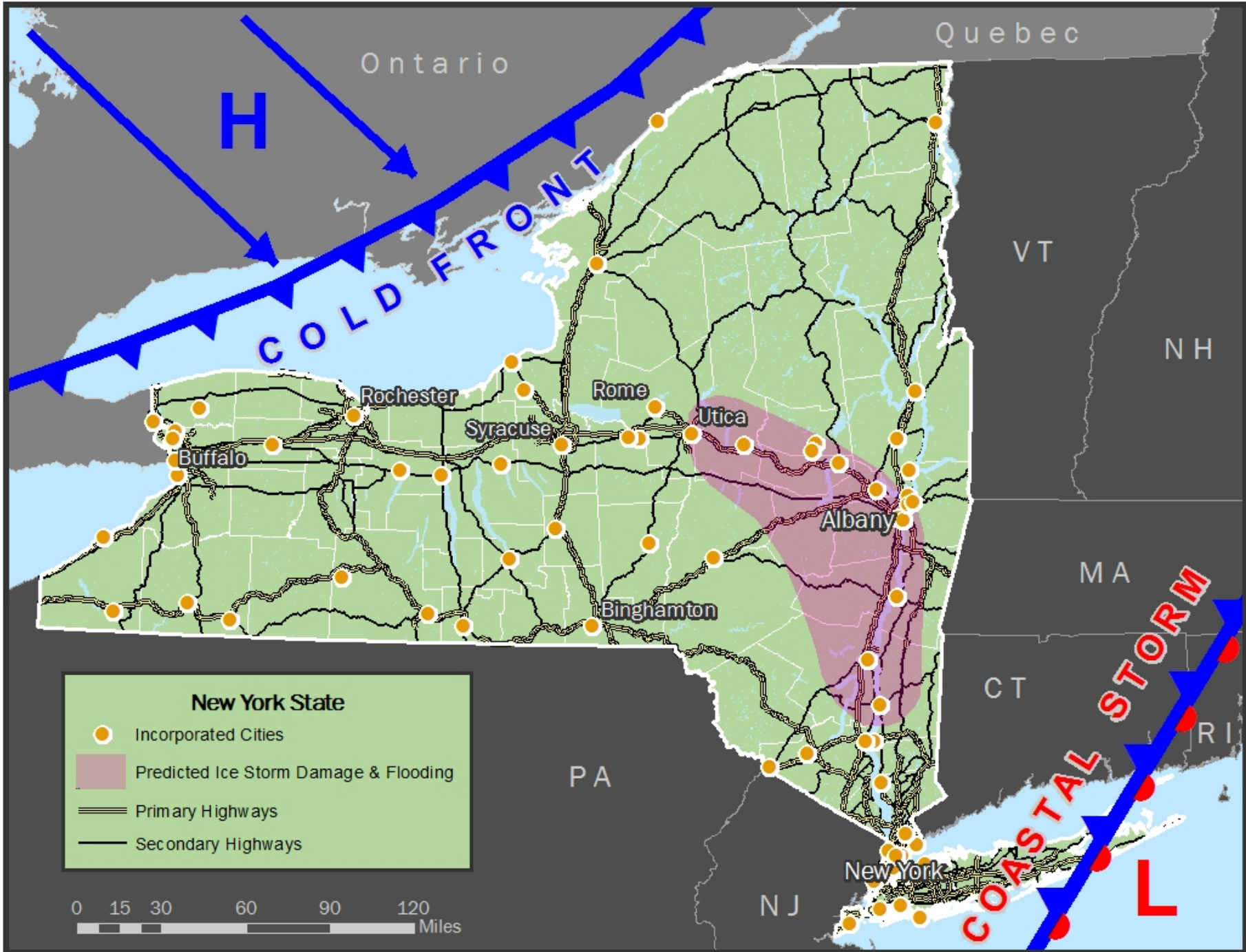
Wednesday, November 27th 2013

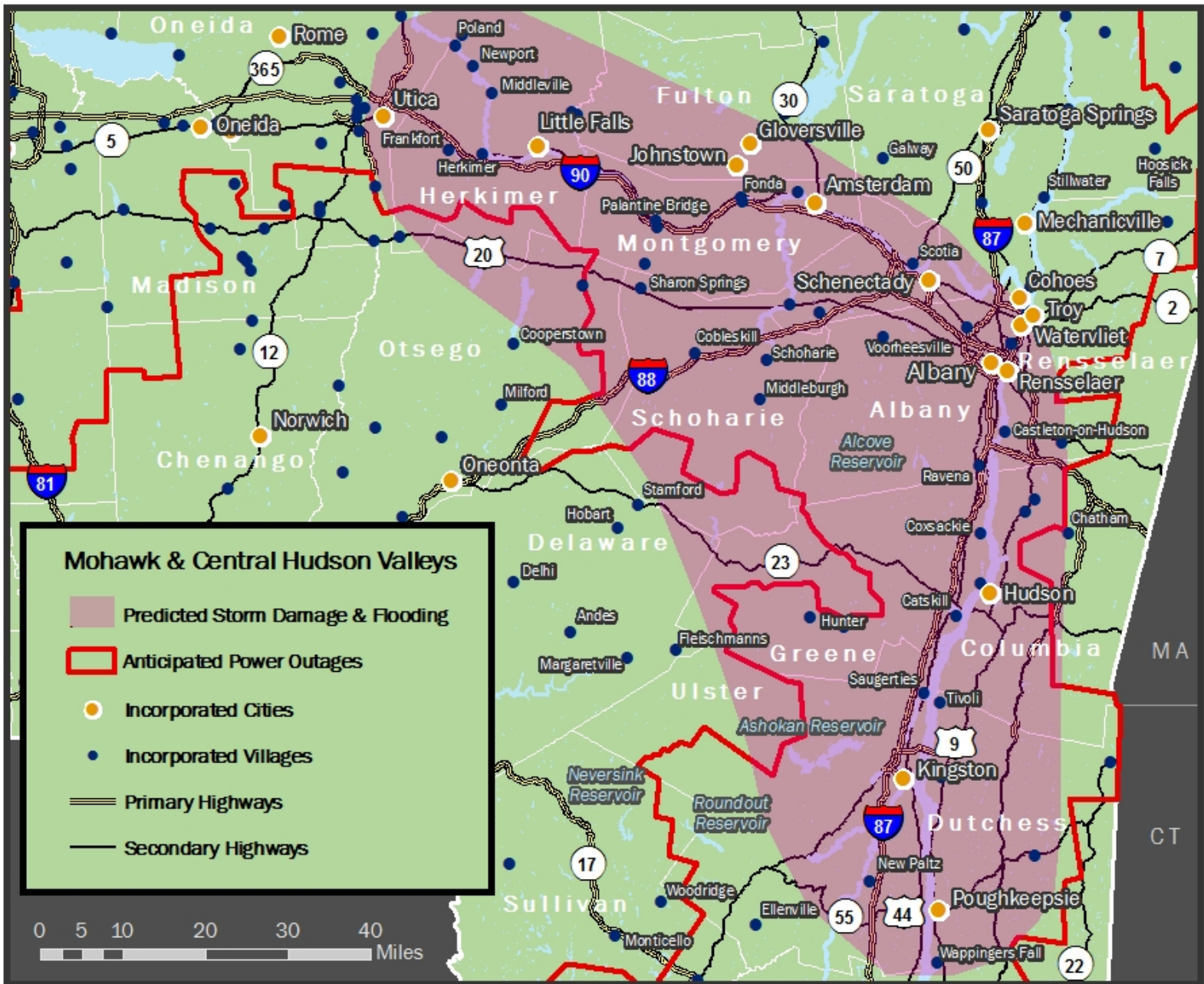
- ▣ The National Weather Service predicts heavy rain and wind for the coast.
- ▣ Potential for heavy snow and/or ice further inland.
- ▣ Possible flooding and heavy snow
- ▣ It appears that NYC may be spared the brunt of the storm



Wednesday Evening, November 27th 2013

- ❑ Cold air comes in after midnight;
- ❑ Instead of snow ice forms and covers back roads and some highways
- ❑ The wind increases causing tree limbs to snap
- ❑ Widespread power outages occur
- ❑ More roads become impassable because of ice, tree limbs, etc. down.
- ❑ The Albany “International” Airport closes





Oneida

Rome

365

5

Oneida

Madison

Norwich

Chenango

81

12

20

Herkimer

Otsego

Oneonta

Delaware

Margaretville

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Sullivan

Monticello

Little Falls

Johnstown

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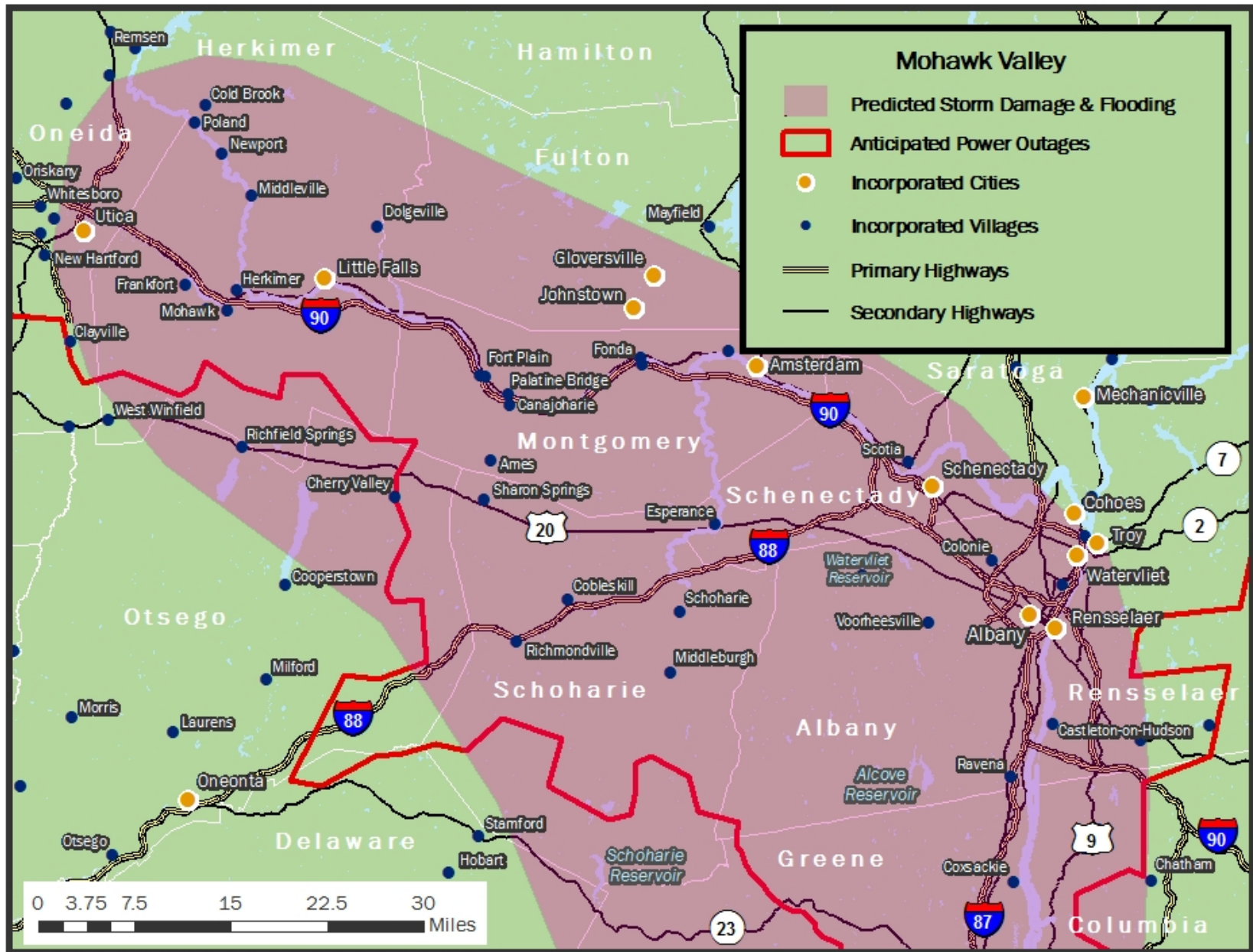
Fleischmanns

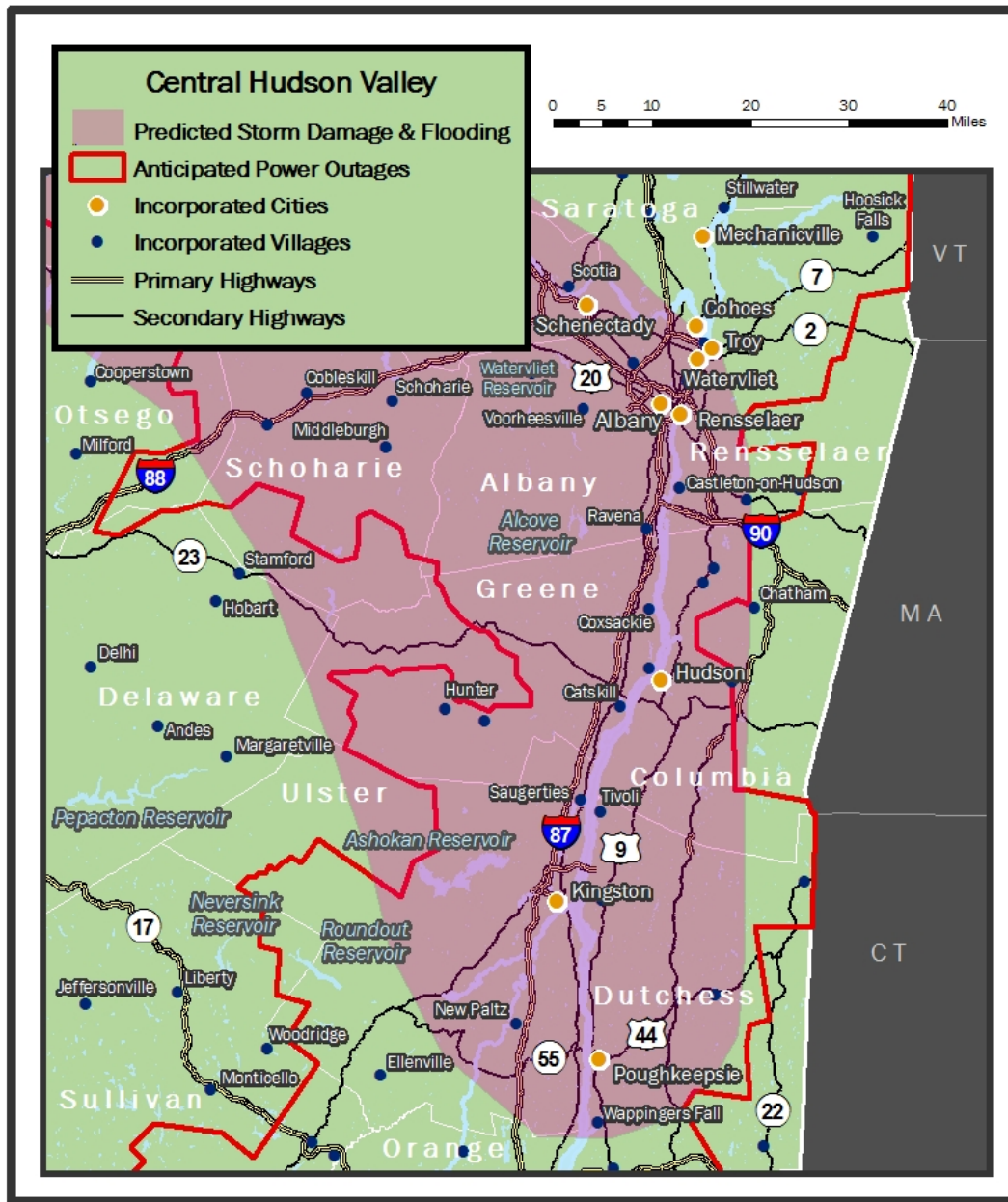
Neversink Reservoir

Roundout Reservoir

Woodridge

Ellenville





Thursday, November 28th 2013

- ▣ The cold front slides north
- ▣ Rain resumes and more flooding occurs
- ▣ Parts of the Thruway, I-90 and many local roads are closed
- ▣ Thursday night - more ice
- ▣ The Stewart “International” Airport closes



Friday, November 29th 2013

- ▣ More rain and flooding
- ▣ Late that day another cold front comes in and pushes the coastal storm out to sea
- ▣ Friday night is clear and very cold
- ▣ More icing occurs



Saturday, November 30th 2013

- ▣ It remains clear and very cold
- ▣ Reports of some flat building roofs (big box stores) collapse under the weight of the ice

Sunday, December 1st 2013

- ▣ More of the same
 - It remains clear and very cold
 - Reports of more flat building roofs (big box stores) collapsing under the weight of the ice

Questions

- ▣ What are the major issues?
 - Audience?
 - Panel?

- ▣ What are the major needs?
 - Audience?
 - Panel – Are we missing things?

- ▣ How could GIS Help?
 - What “GIS driven” information should be provided?
 - Who needs that information?
 - How do you see that information being best provided?

Questions

- ▣ What are the missing pieces?
 - Panel – Who normally does what & how (at the Federal, State, County and Local Governments)
 - Audience – Are their missing pieces?

- ▣ What does the public need to know?
 - Audience – What does the public need to know?
What is the best way to get them that information?

JUST WHEN YOU THOUGHT YOU
HAD ALL THE ISSUES NAILED!

ZOMBIES!



ZOMBIES

EAT BRAINS!
(YOU'RE SAFE)



THANKS FOR COMING!

We hope gained knowledge and had
fun doing it!