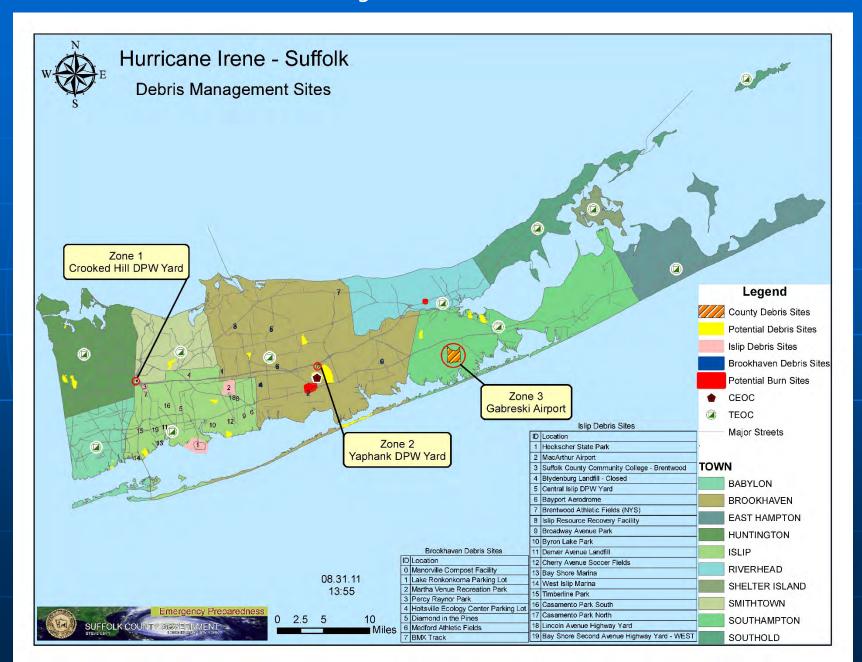
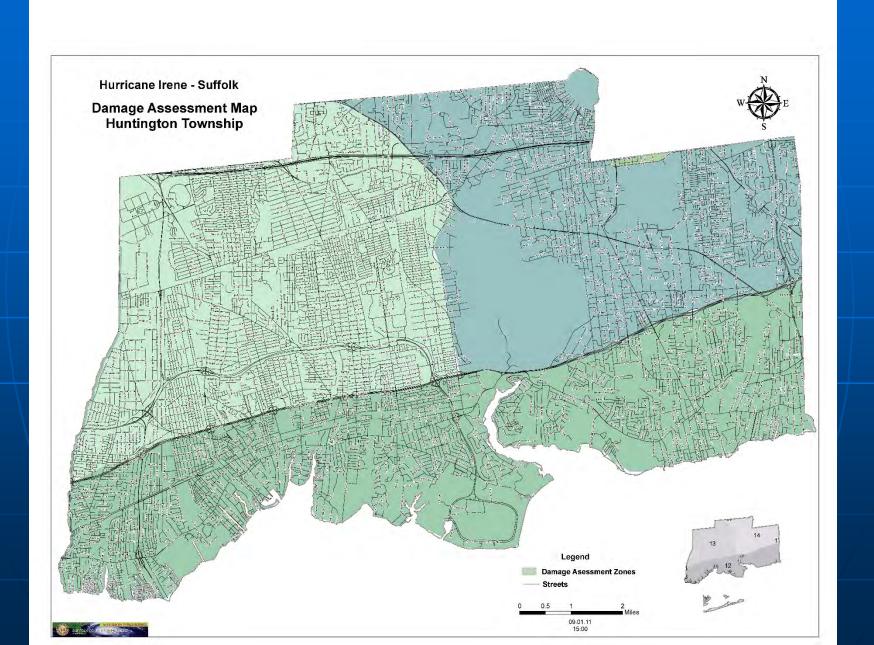
# Geospatial support for disasters the Ohio Incident Management Team and the International Charter Part II

2011 Northern Midwest Public Safety GIS Workshop October 14, 2011 Glenview, IL

> Richard Kotapish, GISP GIS Director, Lake County Ohio All-hazards IMT International Charter GISCorps





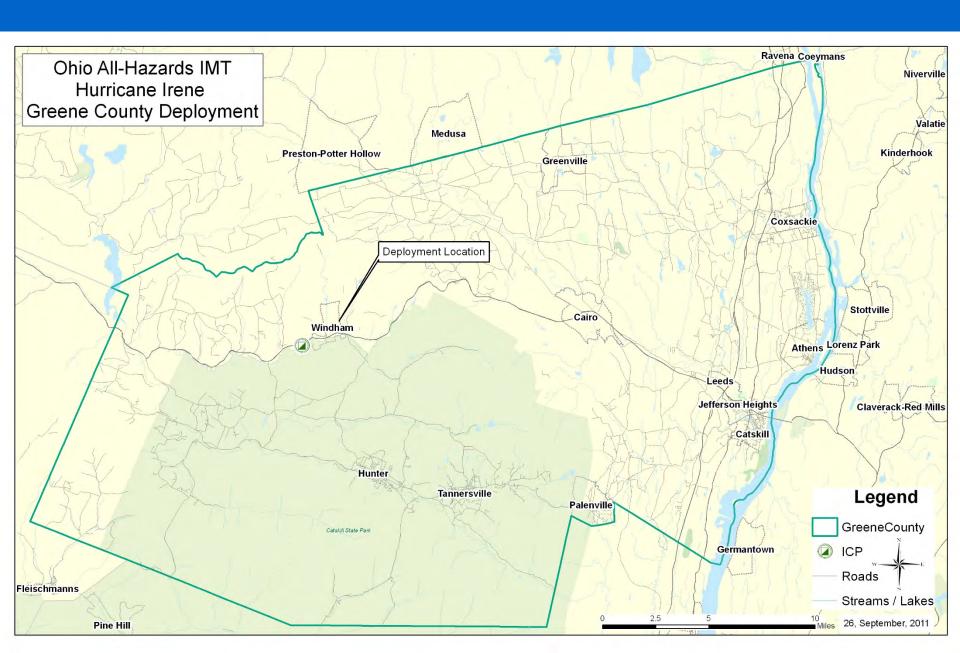


T-Card Board

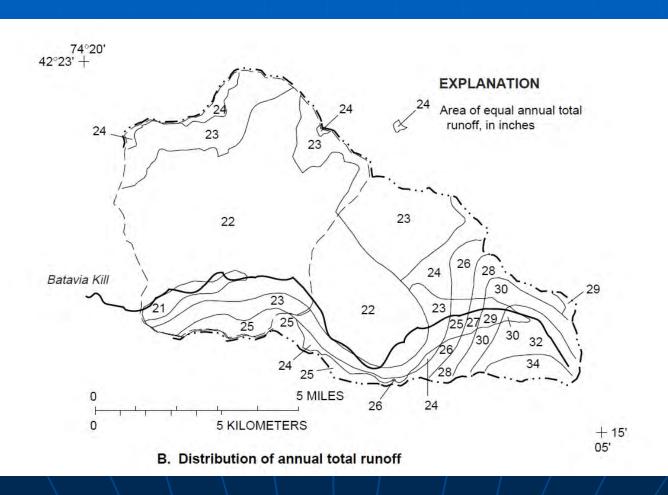


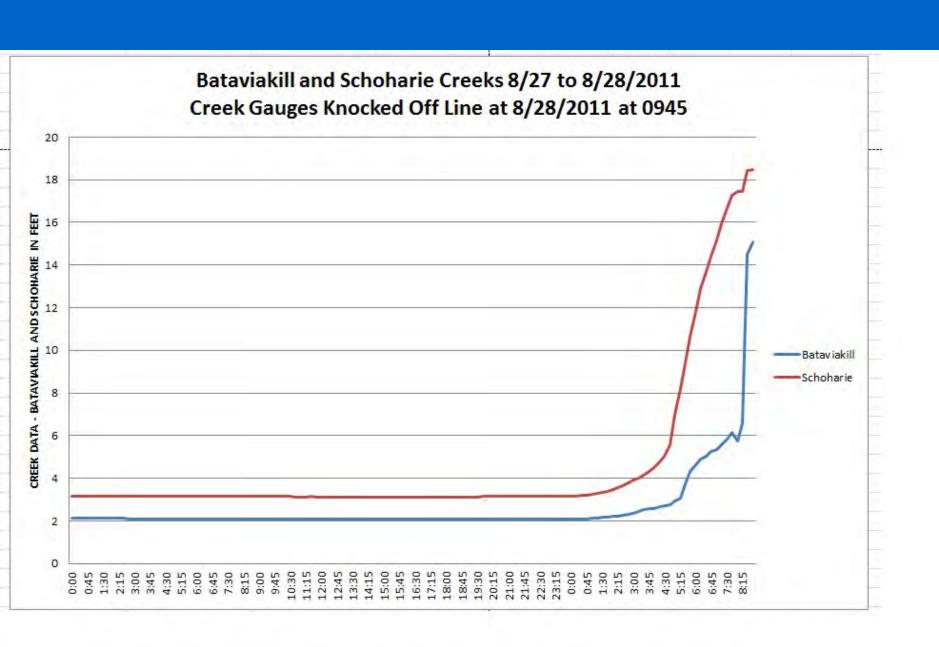
### **Information Board**

	7
What we know   AIR CURTAIN ABOVE - GRO	UND What we need to Know FROM
DPERATING CONDITIONS  WEATHER - MAXIMUM 20 MPH WIND SPEED  - NO RAINY DAYS  - DAYLIGHT HOURS, PREFERABLY 10 AM START (AVOIDING INVEKSIONS)  - MONDAY THRU SATURDAYS, NO HOLIDAYS " AND SOUND OF AND SOUND OF AND SOUND OF AND AND SOUND OF AND AND SOUND OF AND AND SOUND OF AND	DIOXINS, PM, PM2.5'  - COST SCHEDULE FROM MANUFACTURER  - ARE UNITS AVAILABLE IN NORTHEAST ?  - THROUGH PUT RATE IN TONS + CY HOUR  - TOTAL QUANTITY TONS/CY TO BE BURNED TOB  - HOW MANY UNITS DO WE NEED?  - GROUND SITE - PAVED OR DIRT?



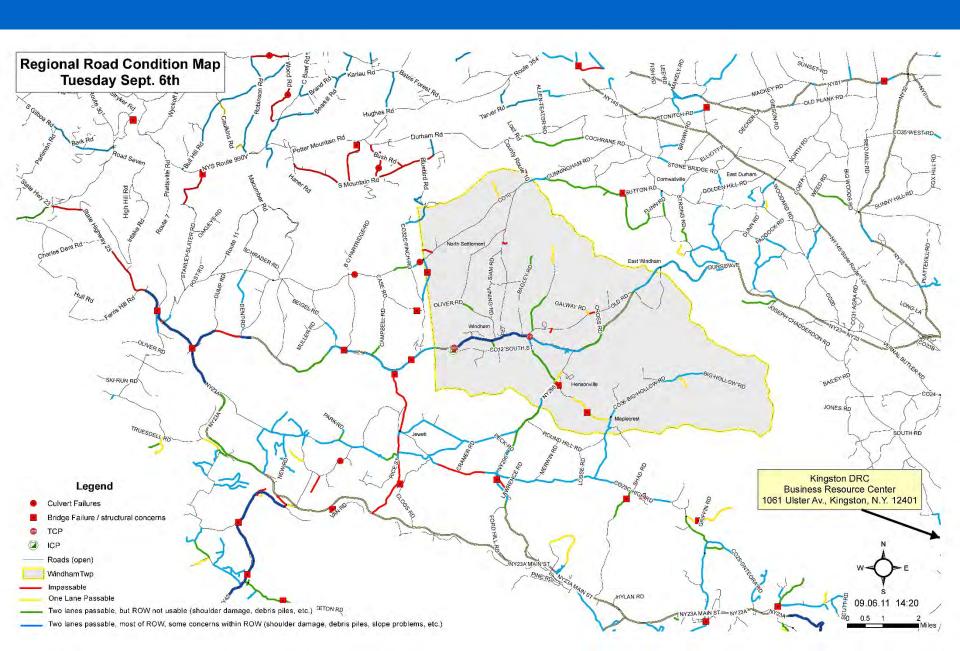
The hilly terrain funneled to the torrential rain and the river saw a 27 foot rise in a matter of hours and then the gauge broke off.

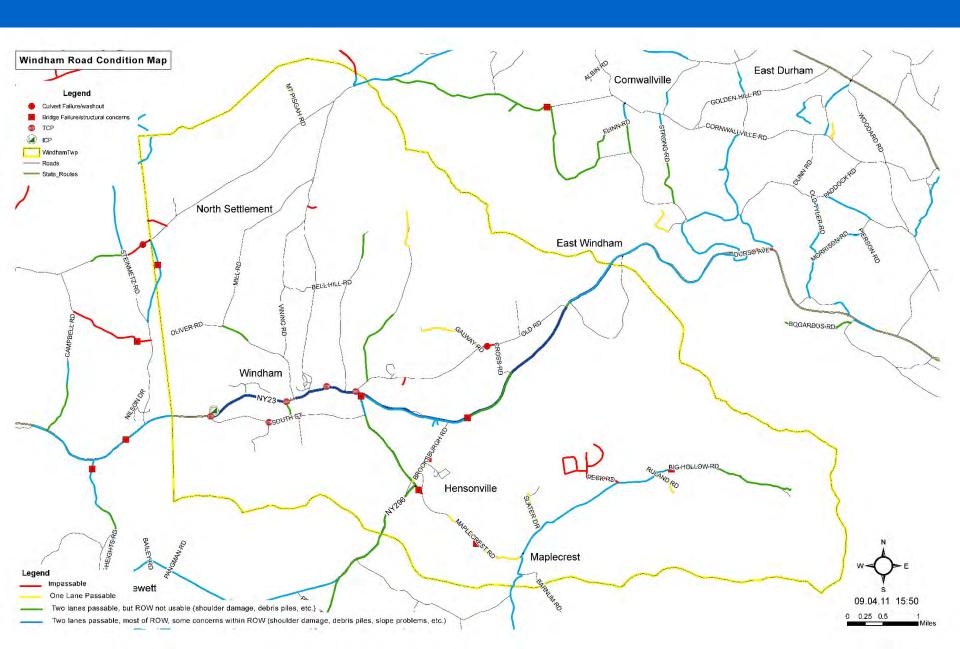


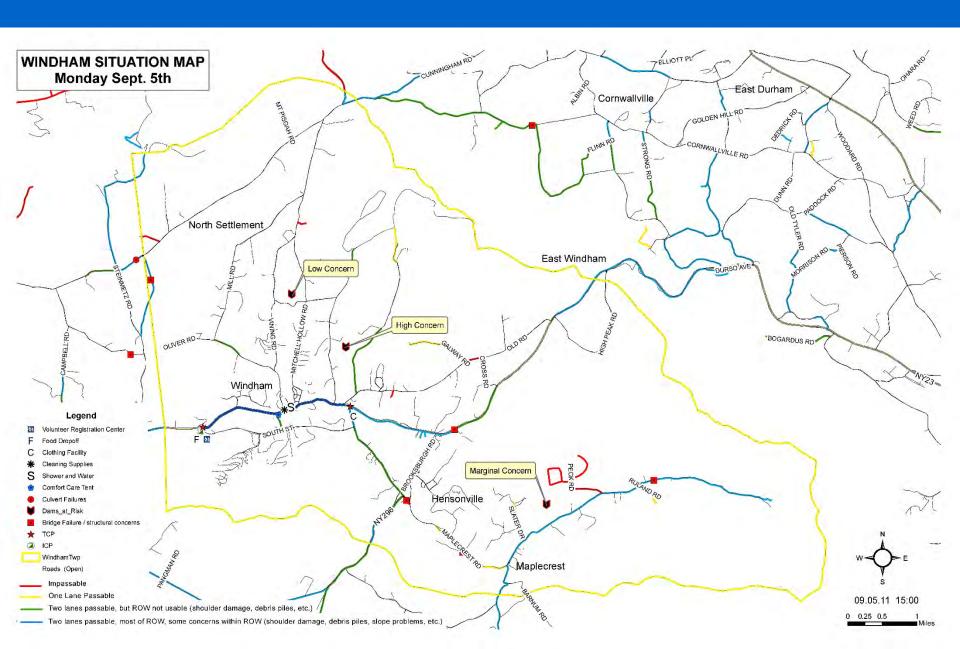


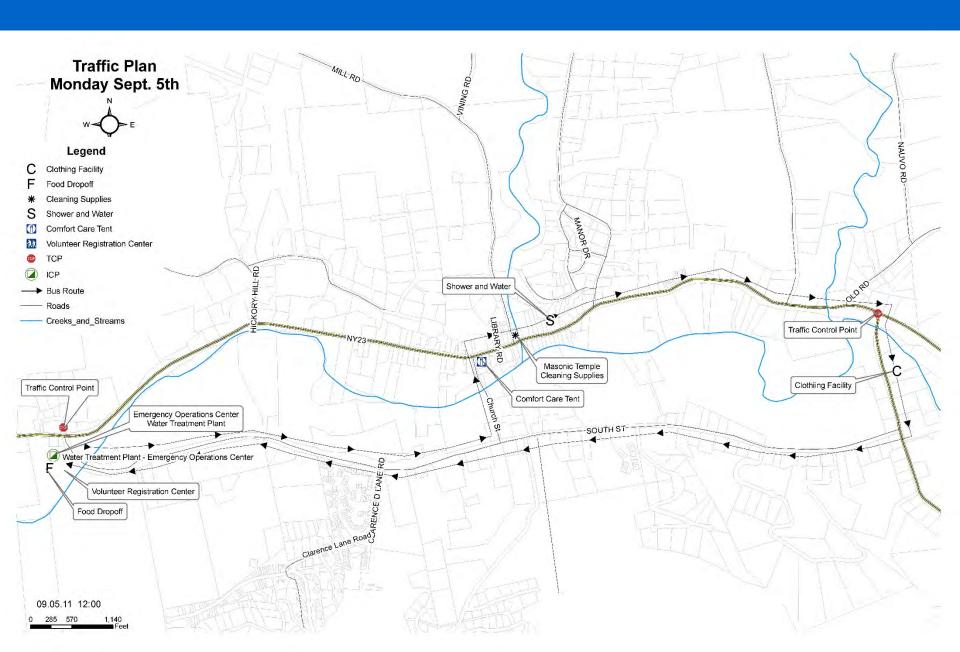


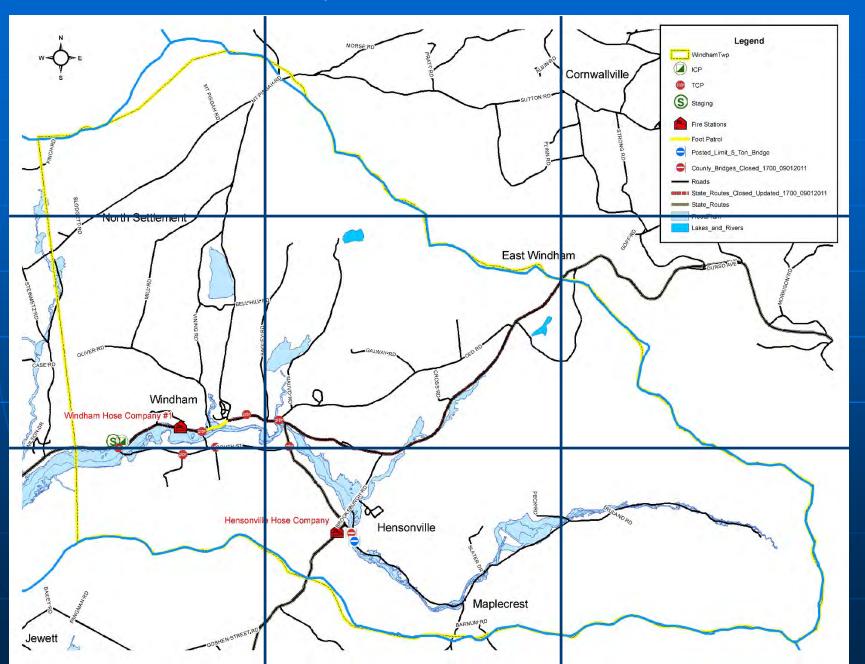












**Data Sources** 

**USGS/International Charter Telecons** 

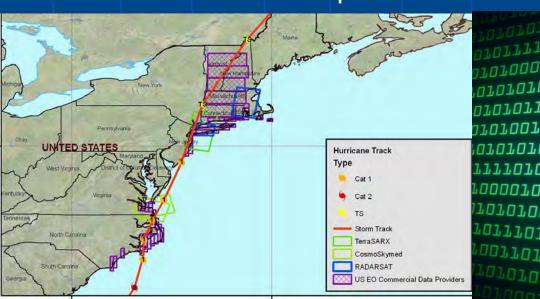
**HDDS** 

Data sources web page

Delta State USNG Geo-PDF Download Viewer

New York State GIS Clearinghouse

Local GIS Departments



**Data Sources** 

### USGS/International Charter Telecons

#### Irene RSWG Telecon Notes

#### August 29, 2011

- 1. 79 attendees from various Federal, State, and local agencies
- 2. Maryland No aerial collection plans
- New York -Have serious impacts upstate. Exploring aerial collection options with the CAP and RIT. Need specific AOIs for the flooded areas as the concerns have shifted from the coastal damage to inland flooding.
- 4. North Carolina In the process of flying. The Outer Banks are accessible only by boat. Waiting for the imagery to be processed. NOAA will provide a link for historical Lidar data for the state.

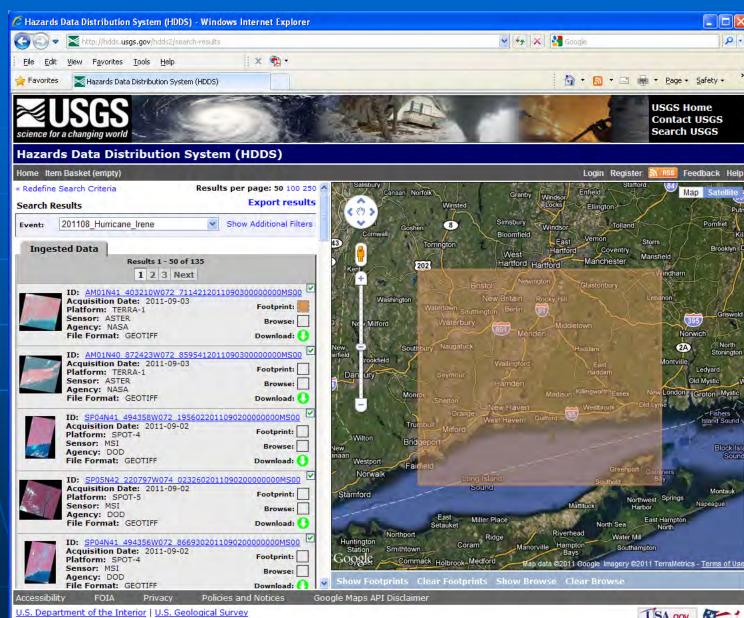
http://csc-s-maps-q.csc.noaa.gov/dataviewer/viewer.html

We are serving historical lidar data of the Cape Hatteras area and Highway 12 from 1996, 97, 98, 99, 04, 05 and 08.

- 5. Rhode Island Imagery is being collected through the Charter and CAP requests. They have 37 AOIs. EagleVision is collecting SPOT today.
- Vermont The primary GIS facility for the State is flooded. Most of the southern part of the state is affected. Will provide a list of primary areas needed for collections. Need to get Vermont added to the maps showing the affected state.
- 7. Connecticut Will supply a list of AOIs needed for collection. Radarsat 1 collected yesterday covers Connecticut.
- 8. NOAA King Air is flying today. Filling holes in the Lidar and DSS coverage and then flying north to Chesapeake Bay.
- EagleVision SPOT collections are posted on the servers. They will be doing coastal collections today and have also scheduled some Cartosat collections on the 31<sup>st</sup>, 1<sup>st</sup> and 2<sup>nd</sup>.
- 10.USACE Waiting for HQs tasking. They have posted pre-event imagery for Long Island and coast from New Jersey to Maryland on HDDS. It should be up by Wed or Thurs. It is 30 cm imagery that goes 500-1000 meters in land. They are not flying up the Hudson.
- 11.NGA Focusing on the New York and New Jersey areas working to capture the flash and standing flooding. Have completed assessments for NC and VA. Will being working on VT and MA.
- 12.NASA ASTER will be collected from Myrtle Beach to Raleigh and from Moorehead City to Philadelphia. September 1 collect from Wilmington to Bangor. Need AOIs to schedule more collects. East New York and the Hudson Valley were suggested and the Connecticut River valley.

### **Data Sources**

### **HDDS**



URL: http://hdds.usgs.gov/hdds2/search-results Page Contact Information: eocustserv@usqs.gov Page Last Modified: 2011-10-6





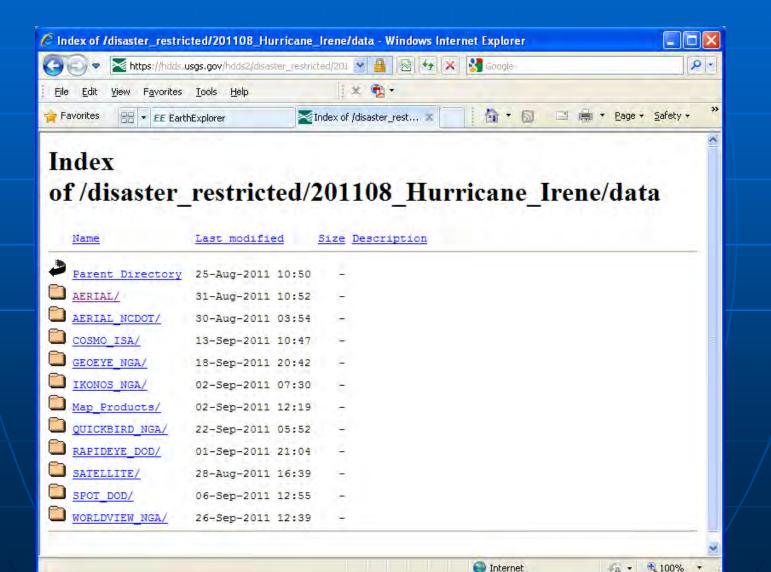
# Hurricane Irene Data Sources HDDS RESTRICTED

Access may be granted on a need to know basis. You will need to be officially involved in the disaster response to gain access to this site of restricted data.

Contact the author of this presentation for details on acquiring credentials for access

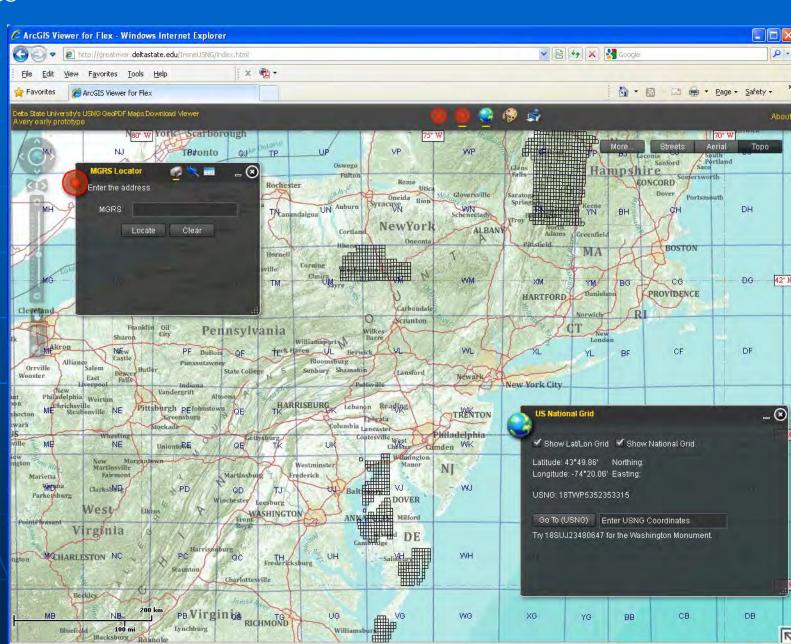
# Hurricane Irene Data Sources

### **HDDS RESTRICTED**



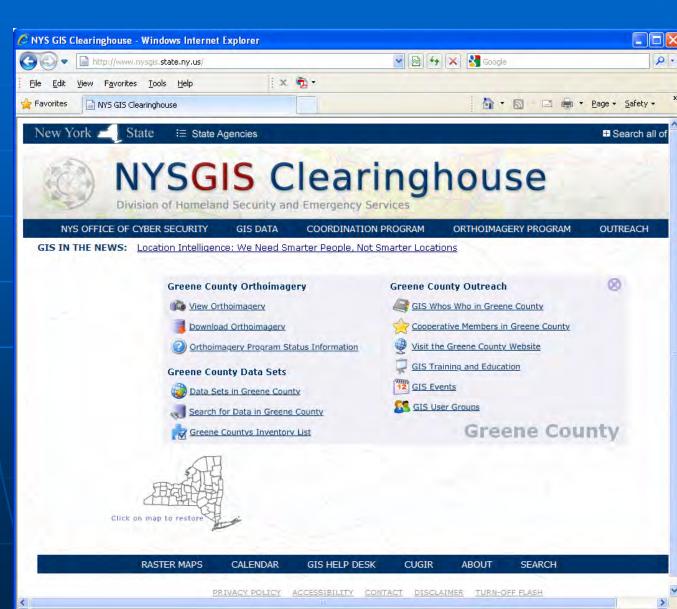
### **Data Sources**

Delta State USNG Geo-PDF Download Viewer



# Hurricane Irene Data Sources

New York State GIS Clearinghouse

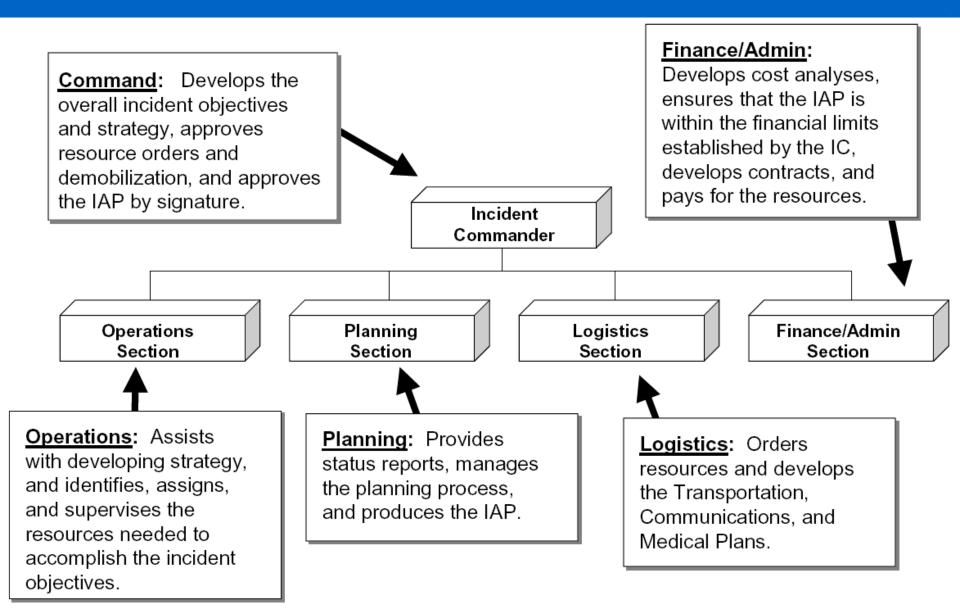


### Windham, NY - Hurricane Irene Incident Command System 101

During the initial stages of incident management, planners must develop a simple plan that can be communicated through concise verbal briefings. Frequently, this plan must be developed very quickly and with incomplete situation information.

As the incident management effort evolves over time, additional lead time, staff, information systems, and technologies enable more detailed planning and cataloging of events and "lessons learned."

### **Incident Command System 101**



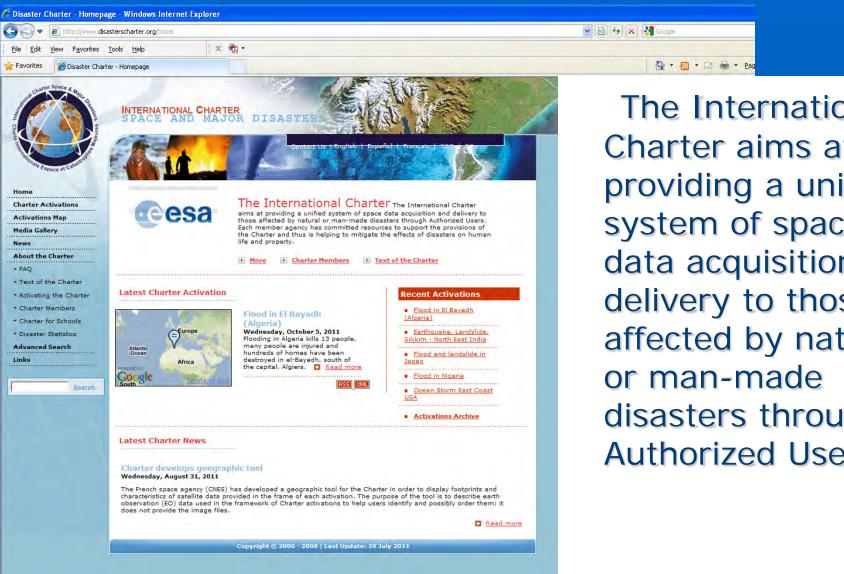
### The Planning P

### Planning involves:

- Evaluating the situation.
- Developing incident objectives.
- Selecting a strategy.
- Deciding which resources should be used to achieve the objectives in the safest, most efficient and cost-effective manner



### International Charter

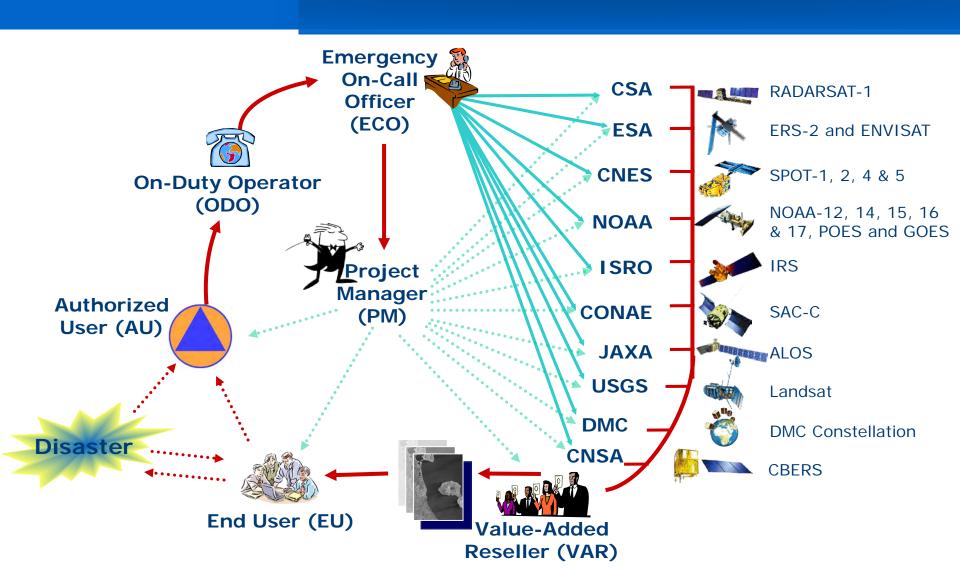


The International Charter aims at providing a unified system of space data acquisition and delivery to those affected by natural disasters through Authorized Users.

# Charter Member Agencies



## Charter Operational Loop



### **Activation Distribution Map**



#### Home

**Charter Activations** 

**Activations Map** 

**Media Gallery** 

News

**About the Charter** 

- → FAQ
- → Text of the Charter
- → Activating the Charter
- → Charter Members
- → Charter for Schools
- → Disaster Statistics

**Advanced Search** 

Links

Search

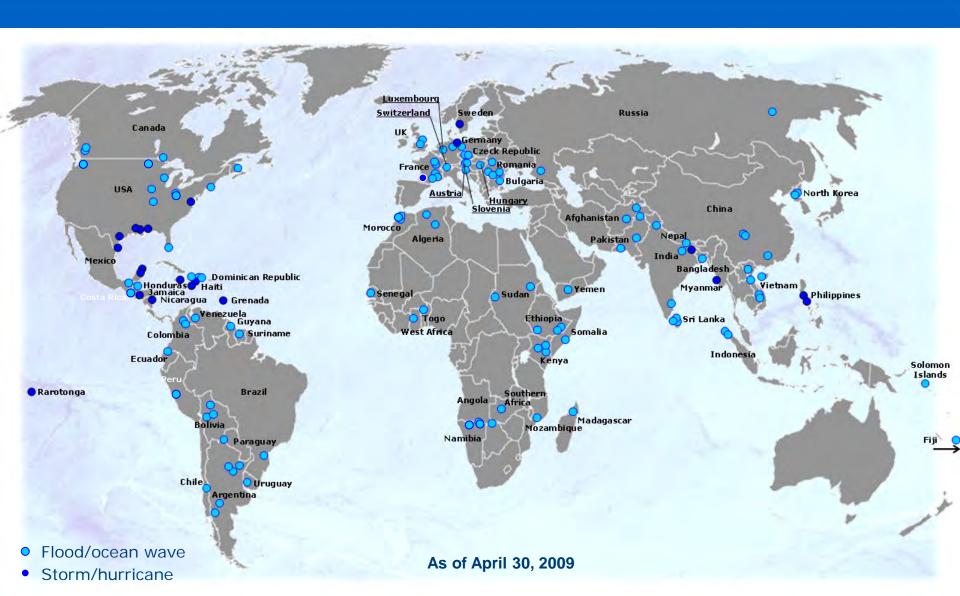




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Activation	Date	Description
Flood in El Bayadh (Algeria)	05 October 2011	Flooding in Algeria kills 13 people, many people are injured and hundreds of homes have been destroyed in el-Bayadh, south of the capital, Algiers.
<u>Earthquake,</u> Landslide, Sikkim - North East India	18 September 2011	The epicentre of India's North-eastern state, Sikkim, was struck by an earthquake at a magnitude of 6.8 on Sunday. Shortly after the quake, two strong aftershocks followed also affecting Nepal and Tibet.
Flood and landslide in Japan	04 September 2011	Typhoon Talas hit Kinki and Shikoku regions, Japan, on Saturday. The typhoon passed into the Sea of Japan on Sunday. At least 26 people have died and 55 people are missing after the storm.
Flood in Nigeria	29 August 2011	A devastating flood which resulted from an over spill from Lake Eleyele swept over communities in Ibadan, Nigeria.
Ocean Storm East Coast USA	27 August 2011	A North Atlantic tropical cyclone, Hurricane Irene, inflicted extensive damage on the Caribbean causing landfall in North Carolina and the East Coast of the United States. The cyclone passed through inland New York and Vermont causing devastating damage.
Flood in Niigata, Japan	30 July 2011	Local governments in Niigata and Fukushima prefectures on Friday issued evacuation advisories to thousands of residents due to record rainfall in the two prefectures.

# Activation Distribution Floods and storms



# The International Charter 'Space and Major Disasters' website:

## www.disasterscharter.org