

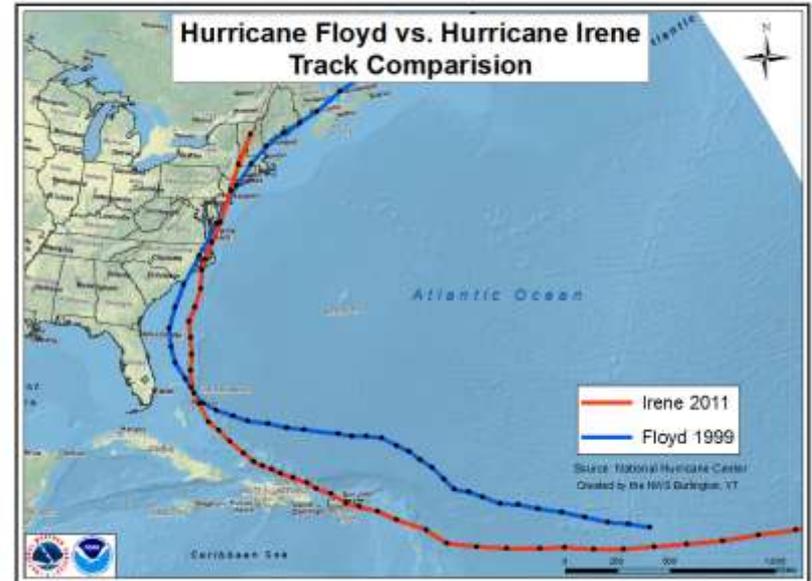
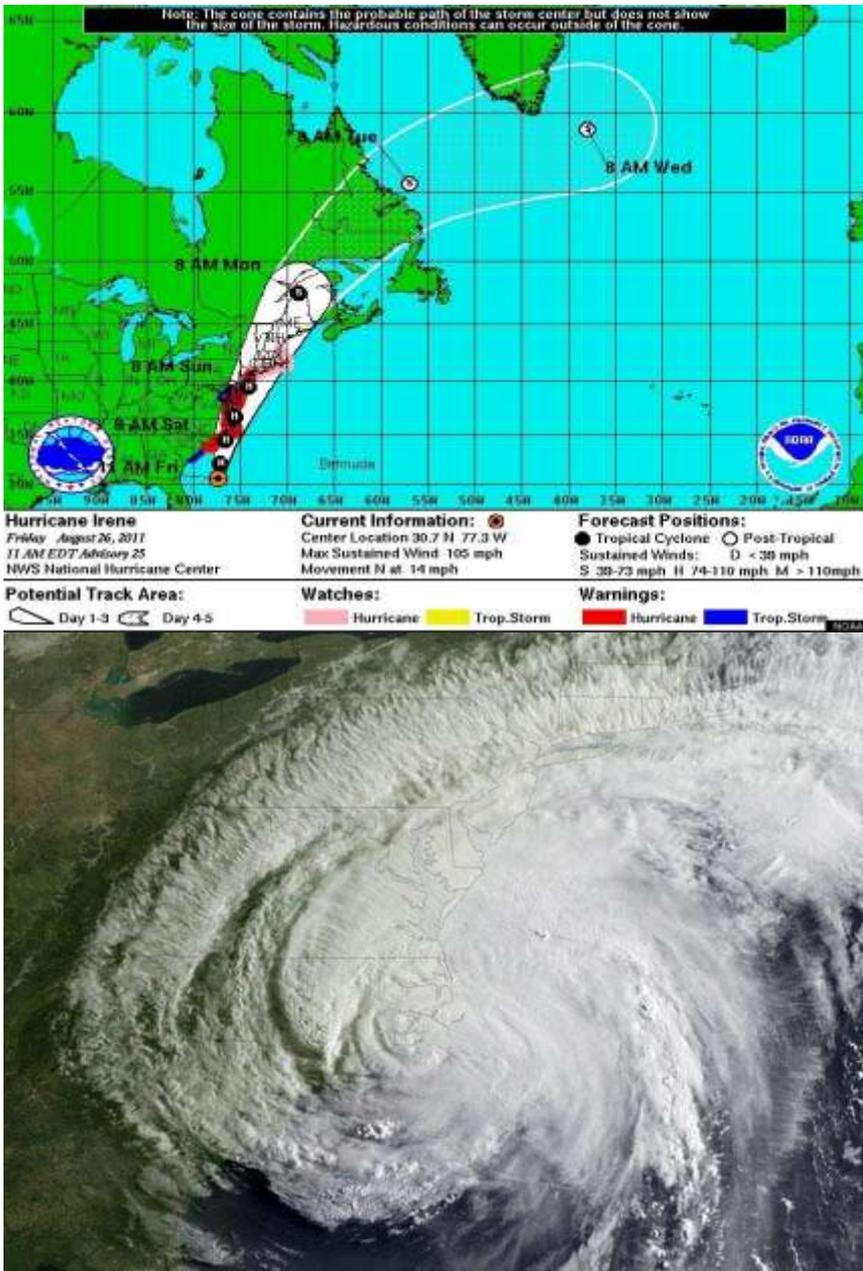
VCGI + Irene: Close Encounter



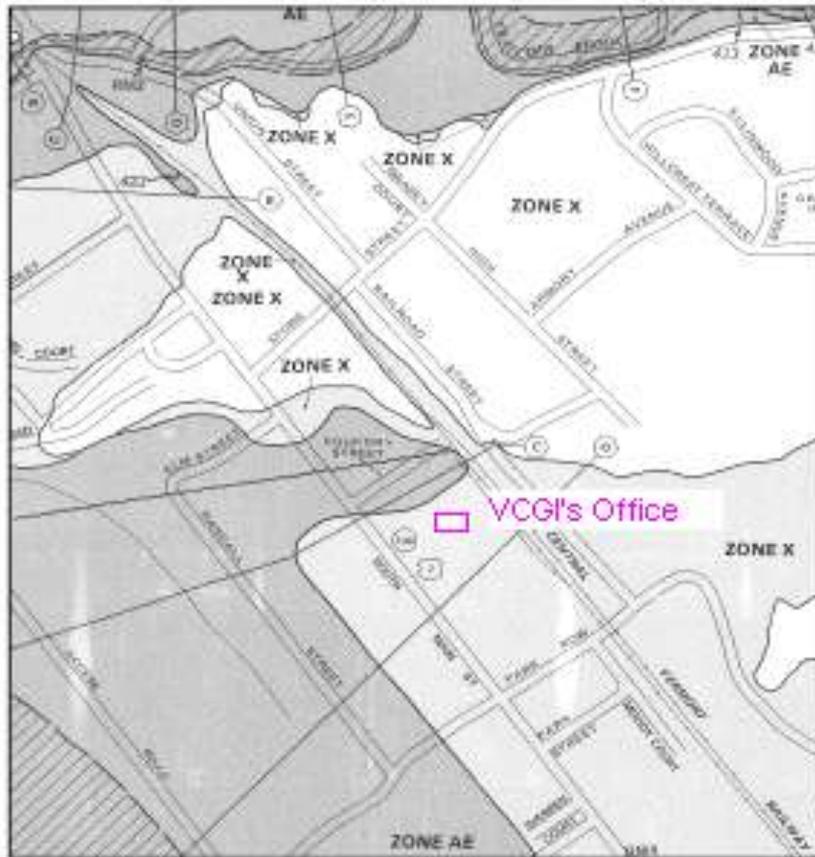
Steve Sharp, Senior Project Manager
VT Center for Geographic Information



Irene Storm Track



VCGI's Location



LEGEND



SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD

- ZONE A** No base flood elevations determined.
- ZONE AE** Base flood elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding; velocities also determined.
- ZONE A99** To be protected from 100-year flood by Federal flood protection system under construction; no base flood elevations determined.
- ZONE V** Coastal flood with velocity hazard (wave action); no base flood elevations determined.
- ZONE VE** Coastal flood with velocity hazard (wave action); base flood elevations determined.



FLOODWAY AREAS IN ZONE AE

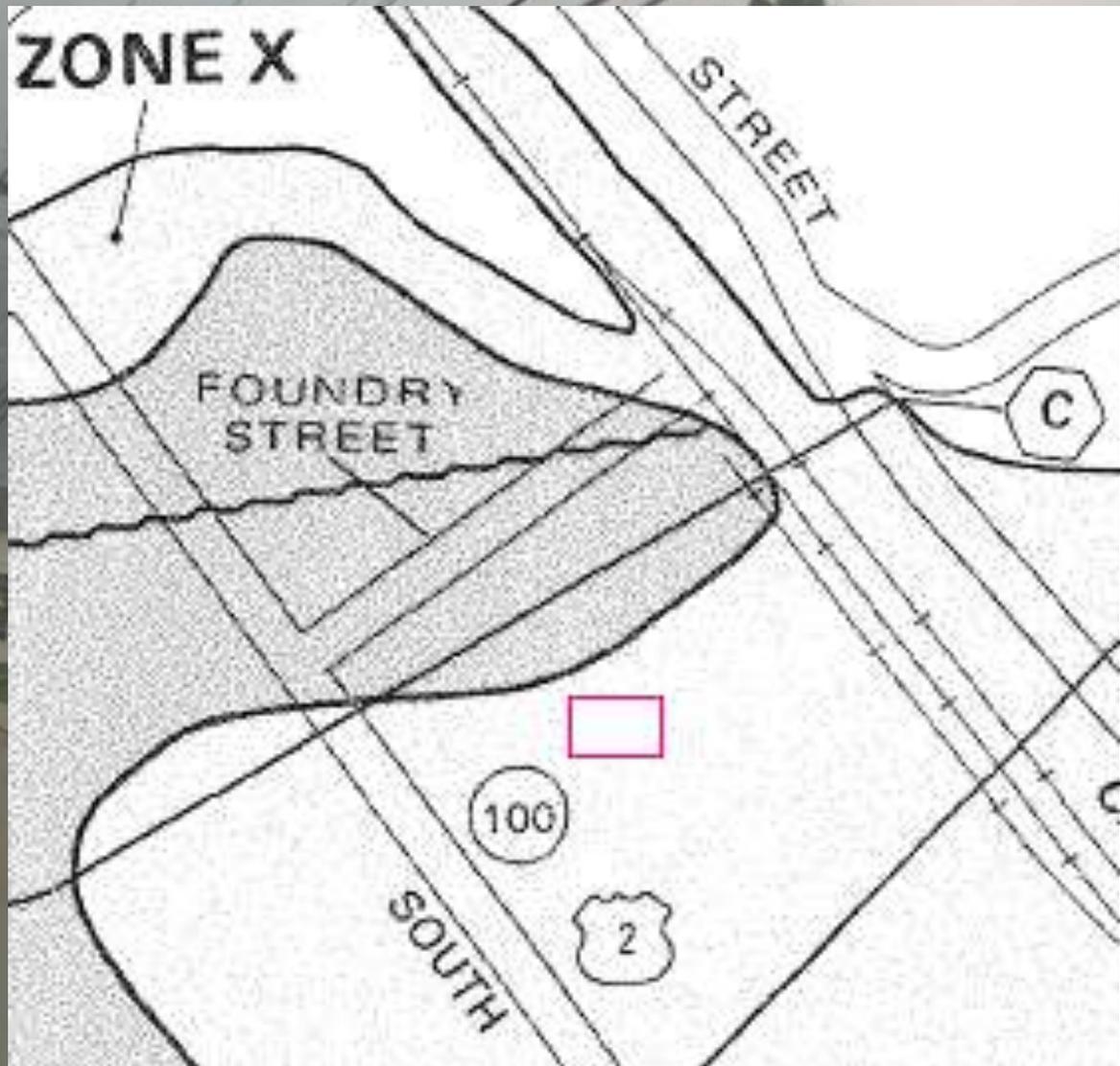


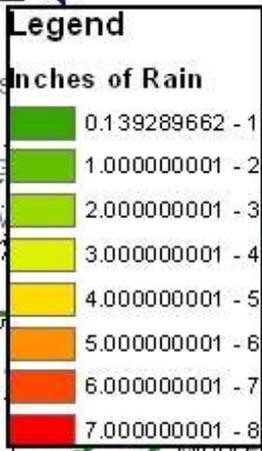
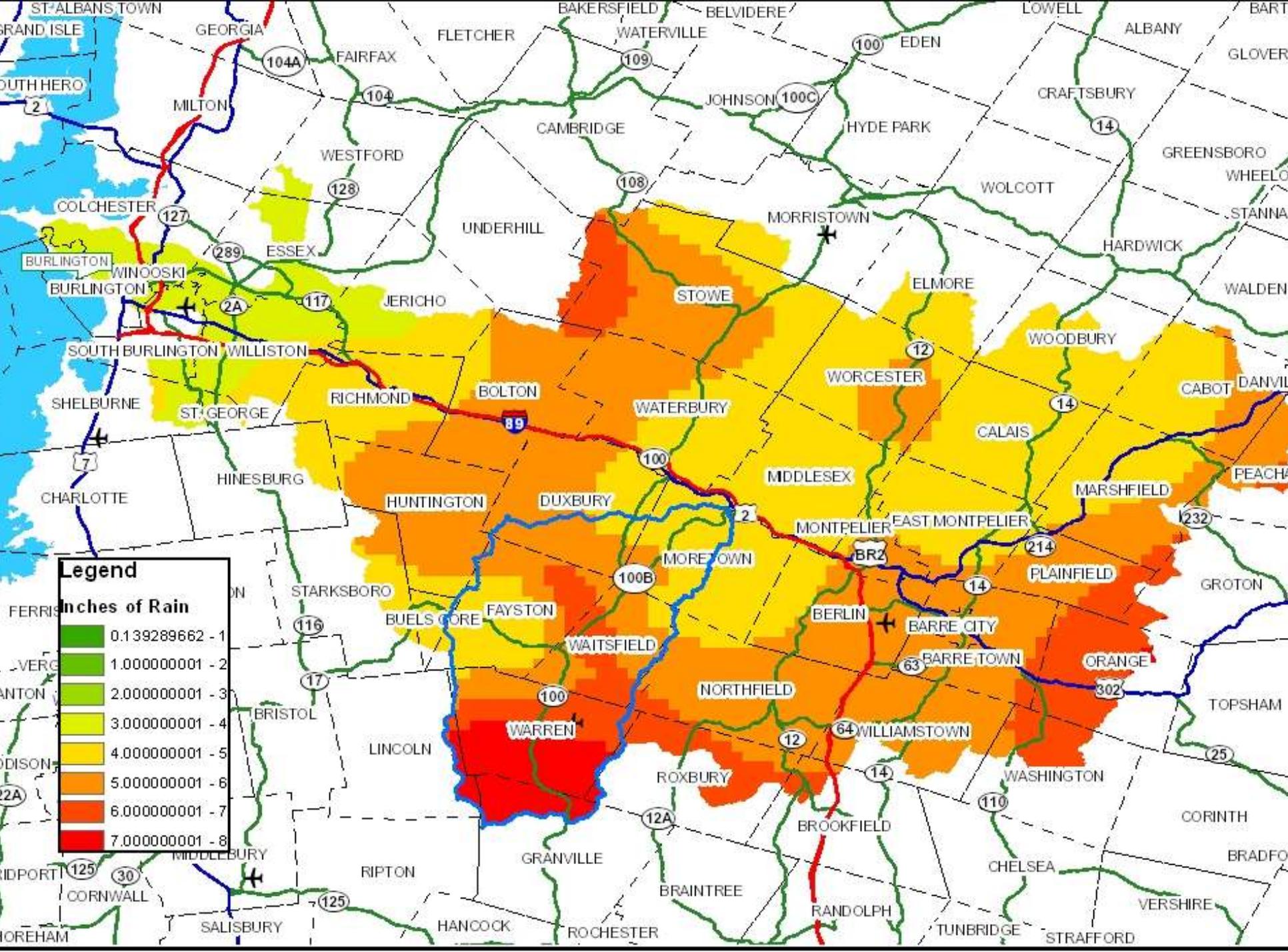
OTHER FLOOD AREAS

- ZONE X** Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year



Foundry St





Impacts in the Winooski watershed



Impacts in the Winooski watershed



Impacts in Waterbury



VCGI's Close Encounter

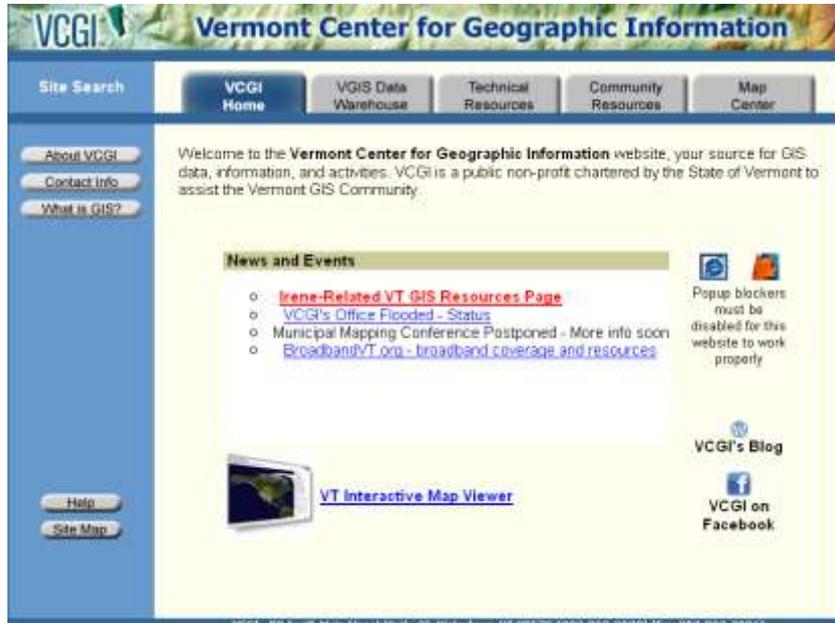


VCGI's Response – What a mess!



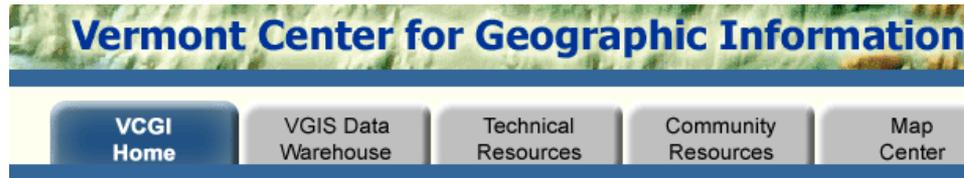
- This stuff is dirty man!
- What can be saved?
- What should be tossed?
- Toss into dumpster
- Load into truck
- Move to storage

VCGI's Response – Getting back online



- Servers were ok (top of rack)!
- Moved to Montpelier
- 133 State St – Data Center
- Back online by Wednesday
- Thanks to DII!
- Thanks to UVM SAL (Jarlath) for making data available while we were down!

VCGI's Response – Getting back in the game



Tropical Storm Irene GIS Resources

This resource page is a work in progress that will continue to evolve. Please check back or email dba at vcgi dot org to make suggestions.

Data:

- **New Imagery** (post-Irene)
 - + NextView Imagery (GeoEye | SPOT | WorldView) - *licensed to gov only*
 - + [Webinar on working with Irene satellite imagery \(9/9/11\)](#)
- **GIS data**
 - + [VT State Road Closure Status](#) (KMZ format)
 - + [VT State Bridge Closures](#) (KMZ format)
 - + [VT Town Road/Bridge Closures](#) (KMZ format)
 - + NWS Irene precip data ([Observation Pts](#) | [Precip Raster](#))
 - + [NGA/FEMA Damage Impact data \(9/1/2011\)](#)
- **LiDAR data**
 - + [Proposed footprint for post-Irene LiDAR](#) (SHP format)
- **Misc data**

- Who is doing what?
- Who is collecting what?
- Setup Irene resources page
 - Data
 - Apps/Mashups
 - Maps
 - Other resources
- Coordination & communication...more to do



VCGI's Response – Irene Resources Page

- **New Imagery (post-Irene)**
 - + **NextView Imagery (GeoEye | SPOT | WorldView)**
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 - + **[NGA/FEMA Damage Impact data \(9/1/2011\)](#)**
- **LiDAR data**
 - + **[Proposed footprint for post-Irene LiDAR](#) (SHP format)**
- **Misc data**
 - + **[List of Irene Data - provided by USGS](#) (PDF)**

VCGI's Response – Irene Resources Page

Apps and Mashups:

- [Google Crisis Map - Vermont Flooding 2011 - Road/Bridge closures](#)
- [VT 511 Closure Map - US & State highways only](#)
- [VT Power Outages Map](#)
- [VT Irene Crowd Map](#)
- **Regional Mashups**
 - + [Windham County - Road/Bridge Status Mashup](#)

Web Services (for use with Mashups and/or GIS apps):

- **New Imagery** (post-Irene)
 - + ...pending
- **Hazards Data Distribution System (HDDS)**
 - + [Rest Services](#)
- **Weather feeds**
 - + [USGS Real-time streamflow](#)
 - + [NOAA Watches & Warnings](#)

VCGI's Response – Lessons Learned?

- VCGI's office in 500 yr floodplain (very close to 100yr)
- If possible move office outside of floodplain, otherwise...
 - Move servers outside of floodplain **or** position servers at top of rack (which we did)
 - Place other important items (workstations, files) at least one foot above grade
- Build upon existing EGC Data Exchange protocol to have pre-staged “snapshots” of VGIS data available in an emergency
- More lessons need to be learned...

VCGI's Response – Waterbury or Bust!

- VCGI will be moving back into the office during the 1st week of October
- We want to support the recovery of Waterbury and VT by
 - Returning to “normal” operation
 - Facilitate coordination, communication, and data sharing
 - Federal
 - State
 - Regional
 - Local

VCGI's New Logo?

