

GeoSupport to Sandy



FEMA

Feb 2013



FEMA GeoCONOPS

Business Process



GeoCONOPS

- 5 year study provided by DHS
- 1000 Total Layers
 - 68 FEMA Layers
- Enter data once, view in multiple systems
- Information management

Cloud

68 Layers

Common Storage

- Reduces operation and maintenance cost
- Enhances information sharing and distribution of work to Regions, IMATs, USAR, etc.
- Only limited by ideas, not technology

Output



Dissemination

- Discovery
- Whole Community
- "Create your own" view
- Easily integrated in other mediums (i.e., mobile, web)



Program
(non-GIS)
Updates

Files are added
to the Cloud



FEMA GeoOperations



Whole Community approach to geospatial operations
FEMA's Modeling Task Force

On-call, distributed analysis

Real-time storm surge sensors

850+ High Water Marks

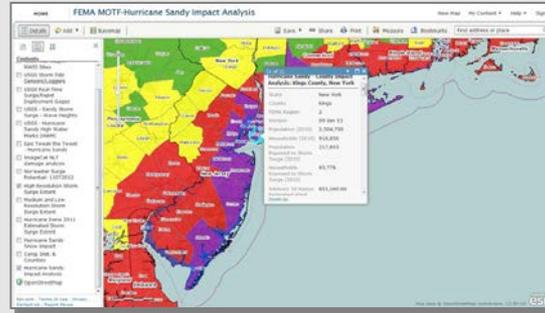
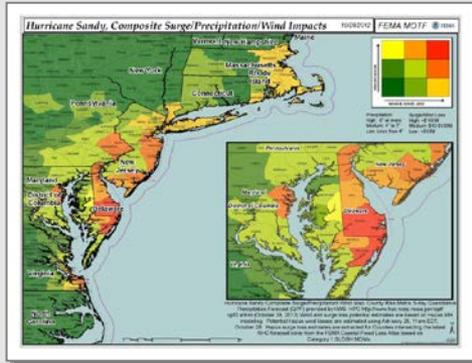
Civil Air Patrol/NOAA collected 157,000+ images

Over 147,000 individual structural assessments

44,000 applicants received expedited rental assistance

Supported IA housing and planning efforts

FEMA Modeling Task Force (MOTF)



Pre-Landfall Risk Matrix

Relative County risk based on:

- Precipitation (QPF)
High: 8" or greater
Medium: 4" to 7"
Low: Less than 4"
- Hurricane Storm Surge and Wind Loss:
High: >\$100M
Medium: \$10-\$100M
Low: <\$10M

County Impact Analysis

- Comprehensive list of exposure and loss impacts aggregated to the county level

Storm Surge Analysis

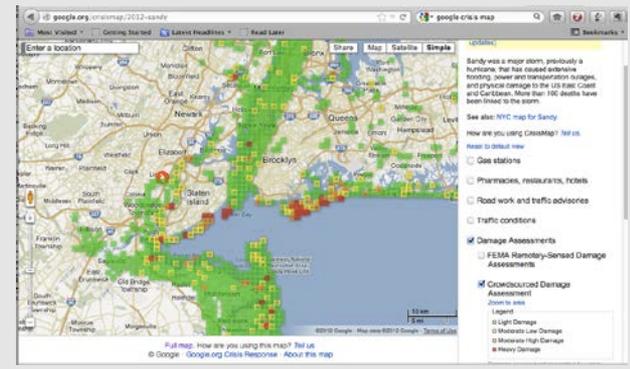
- Mission Assignment to USGS
- 850+ High Water Marks collected

FEMA GeoInnovation

MAPMILL

<http://sandy.hotosm.org/>

Crowd-Sourced Damage Assessments

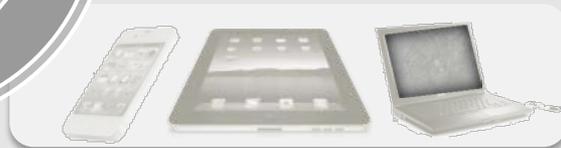


- 35,527 aerial images (CAP/NOAA)
- Potentially 157k

- ~6000 volunteers
- Volunteers take (approx.) 15 sec to make an assessment

- 137,000 individual assessments
- Coordinated with Google Crisis Map

FEMA GeoDissemination



Resource Center Show: Web Content Only Help Sign In

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FEMA GeoPortal Online

U.S. DEPARTMENT OF HOMELAND SECURITY

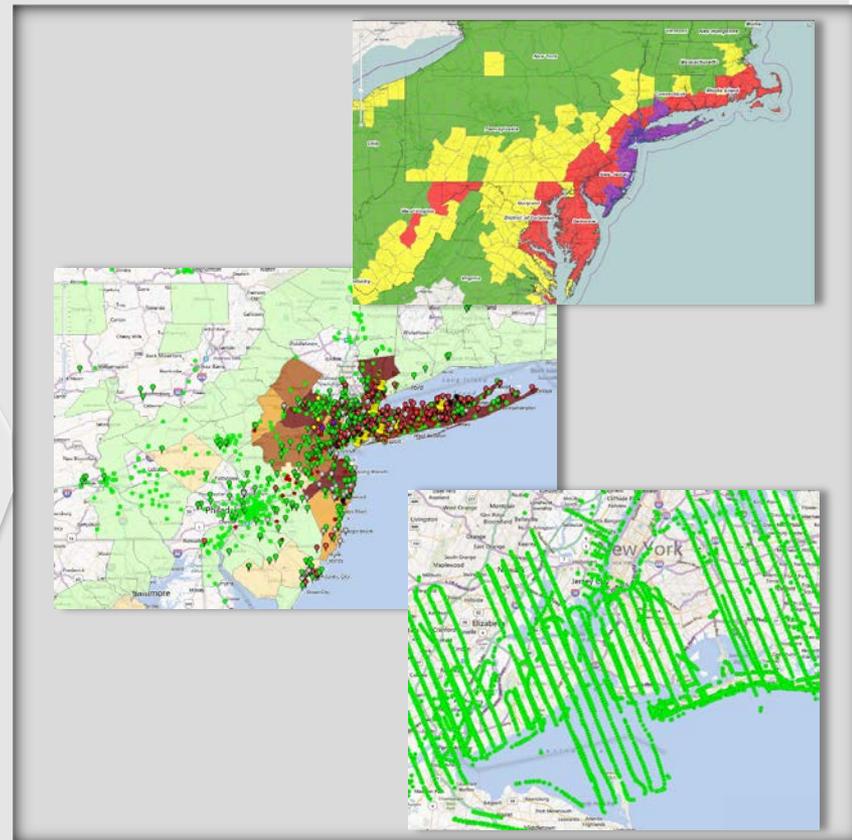
Map thumbnails:

- NFIP Flood Insurance Policies In Sandy Affected
- Hurricane Sandy-Remote Sensing Collection
- Hurricane Sandy - Force Laydown & Response
- FEMA Social Media Tool App

Make a Map »

ArcGIS Online for Developers »

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GeoPlatform



<http://fema.maps.arcgis.com/home>