

GeoSupport for Hurricane Sandy

“The Importance of NOAA Satellites” Panel
NOAA Satellite Conference 2013

12 April, 2013

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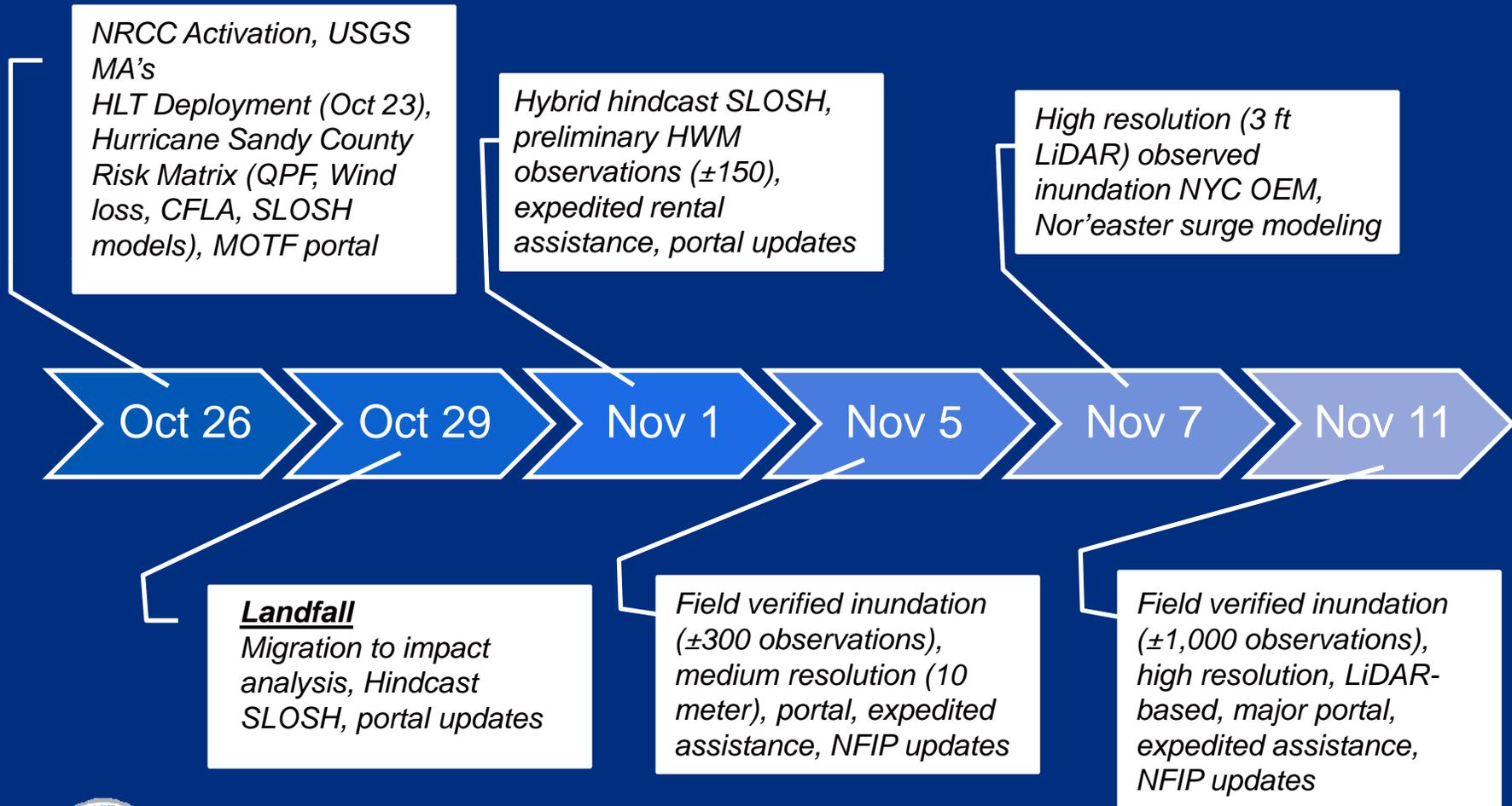
FEMA

Outcome Based Results

- Whole Community approach to geospatial operations
- FEMA's Modeling Task Force
 - On-call, distributed analysis
 - Real-time analysis to affect decisions
- Civil Air Patrol/NOAA collected 157,000+ images
- Over 147,000 individual structural assessments
 - Expedited rental assistance
 - Supported multiple interagency programs
- Ability to Innovate

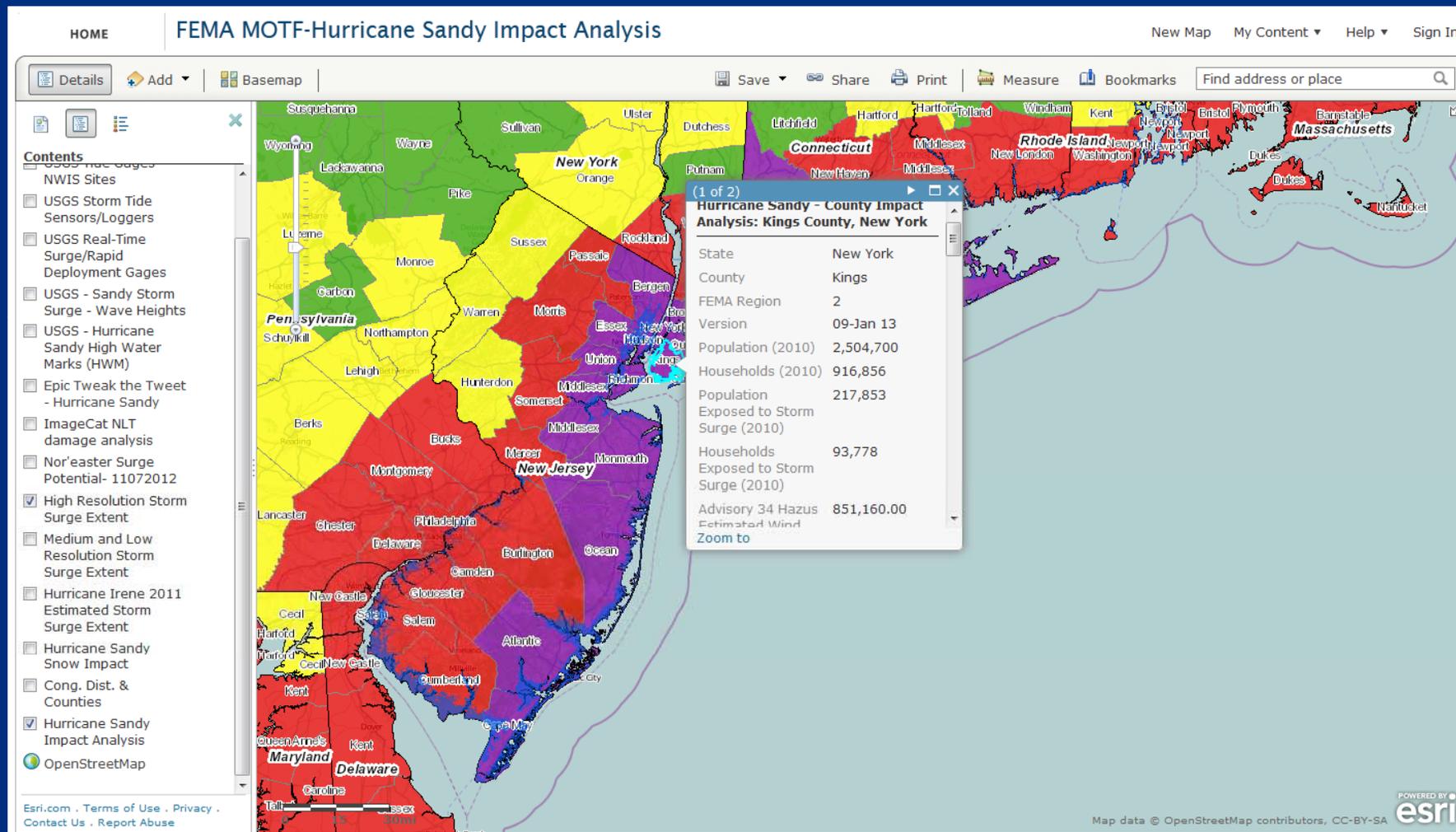


Hurricane Sandy MOTF Timeline



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Hurricane Sandy County Impact Analysis



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CAP Response Highlights



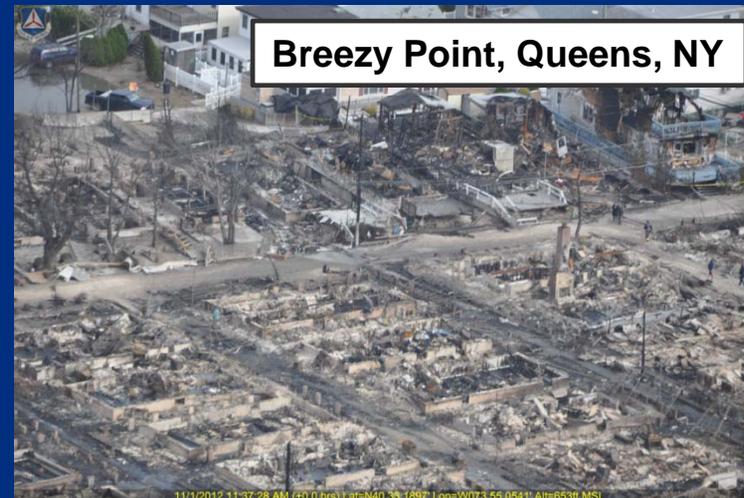
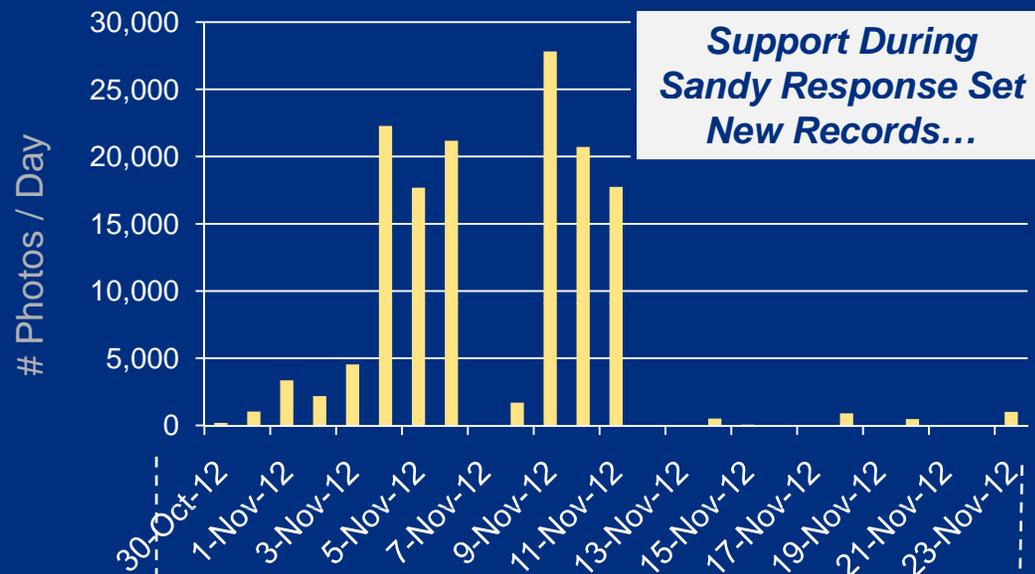
- Tasked by three FEMA regions
 - Airborne imagery, light air transportation, shelter management, and other
- 250+ members from 21 Wings/states
- 73 aircraft--1,407 flight hours--696 sorties
- Provided 158,012 geo-tagged images
- CAP liaison at NRCC as well as at state EOCs



FEMA

Leveraging Civil Air Patrol

Provides Rapid Imagery Collection and Cost-Savings



Breezy Point, Queens, NY

Photo Credit: Civil Air Patrol (New York Wing)

6

Sandy's Landfall



Photo Credit: U.S. Air Force (Balik)

>150k Images Collected



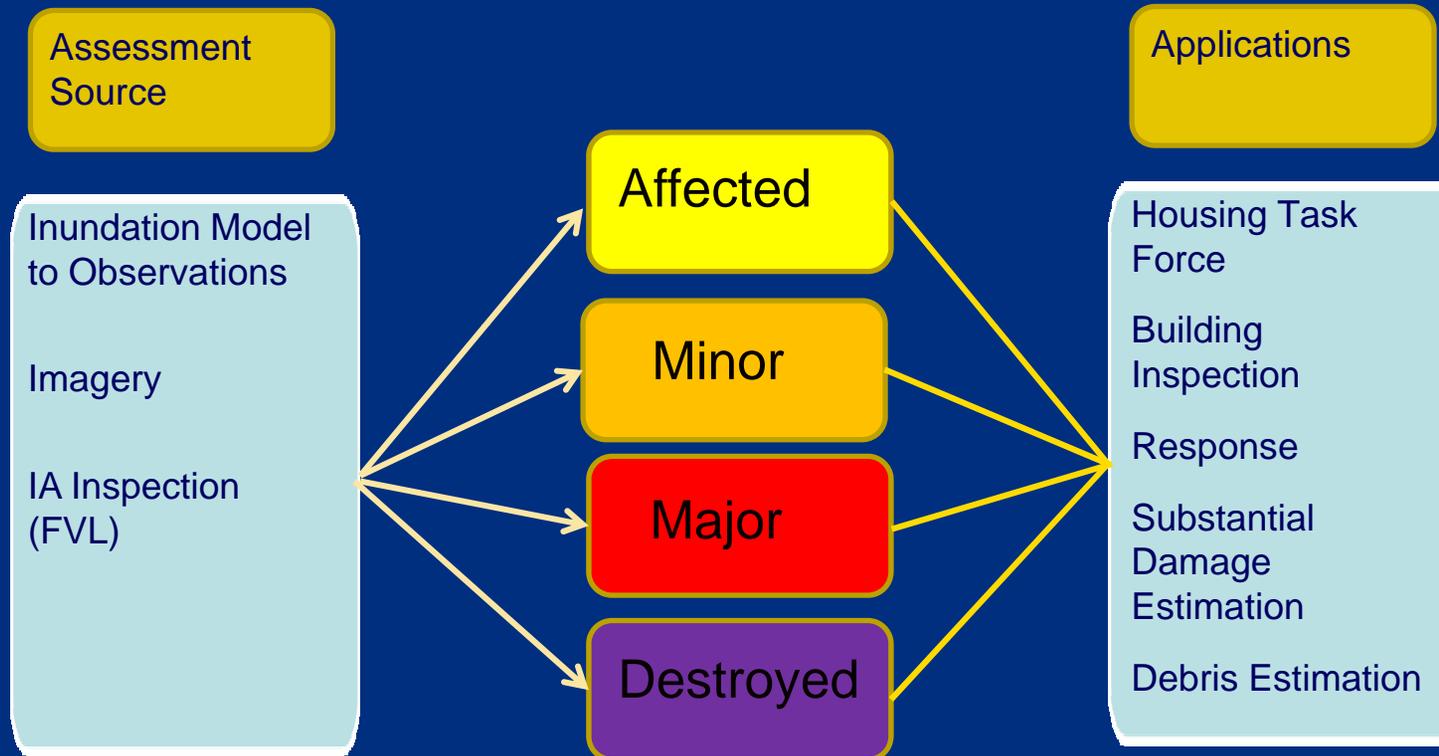
Seaside Heights, NJ

Chris Vaughan February 26, 2013
Photo Credit: Civil Air Patrol (New Jersey Wing)



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Geospatial Damage Assessments



How are the GDAs done?

Part 1: The Web

list_all_assigned_groups Longitude Latitude Move to [grid_completed](#) and a new grid will

Grid Notes

Map loaded

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Structure damage determination

Click on 'add determination' button, click on map to place pin, drag pin to correct location if needed, fill in form then submit

User Determination

ID **45996**

Last updated **2012-11-03 12:27:36**

Longitude

Latitude

Damage States

Evidence of Inundation Yes No

Water Depth (ft)

When in doubt, please consult protocol document on how to fill in the correct values
[download protocol version 2](#)

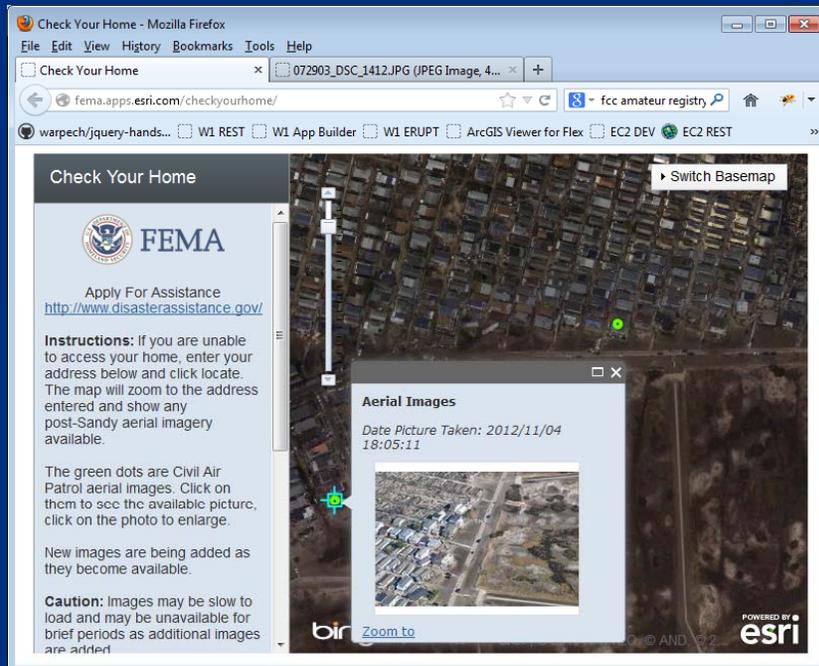
Notes

Due To water pattern and debris



Innovation

Check Your Home

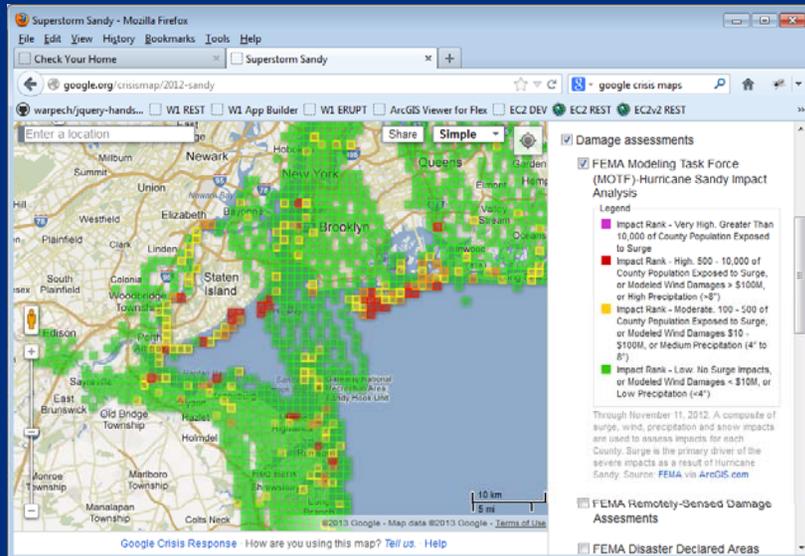


- Built within a few hours overnight
- Utilized CAP and NOAA imagery
- Innovation on CAP imagery upload procedures allowed images to be added within minutes or hours not days
- First time this data has been easily accessible to the public
- Over 16,000 visits the first day



Innovation

External partners and crowd sourcing



- MapMill provided over 6,000 volunteers
- USNG 1k grid output from assessments
- Partnered with Google Crisis Map, over 15 million unique visits

Thank You Mapping Volunteers

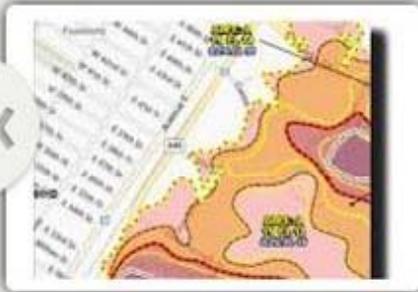




FEMA

FEMA GeoPlatform

Providing geospatial data and analytics in support of e



Advisory Base Flood Elevations Map



FEMA MOTF-Hurricane Sandy Impact Analysis



FEMA is a partner of the FGDC's

Make a Map »

Create a map that can be viewed in a browser, desktop or mobile device. Share it on a blog, via email, or embed it in a website.

Gallery

Highest Rated



FEMA MOTF-Hurricane...
FEMA MOTF-Hurricane Sandy Impact Analysis



USA Topo Maps
This map features detailed USGS topographic maps for the United States at multiple scales.



Baltimore, Maryland in...
City of Baltimore, Maryland in Community Map

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eat wave risk of Europ...

the share of green (vegetated) and blue (water) areas within cities (2006) and how they influence the urban heat island ef...

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Flood Insurance Rates In Sandy Affected

www.geoplatform.gov

that incorporate your maps



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