

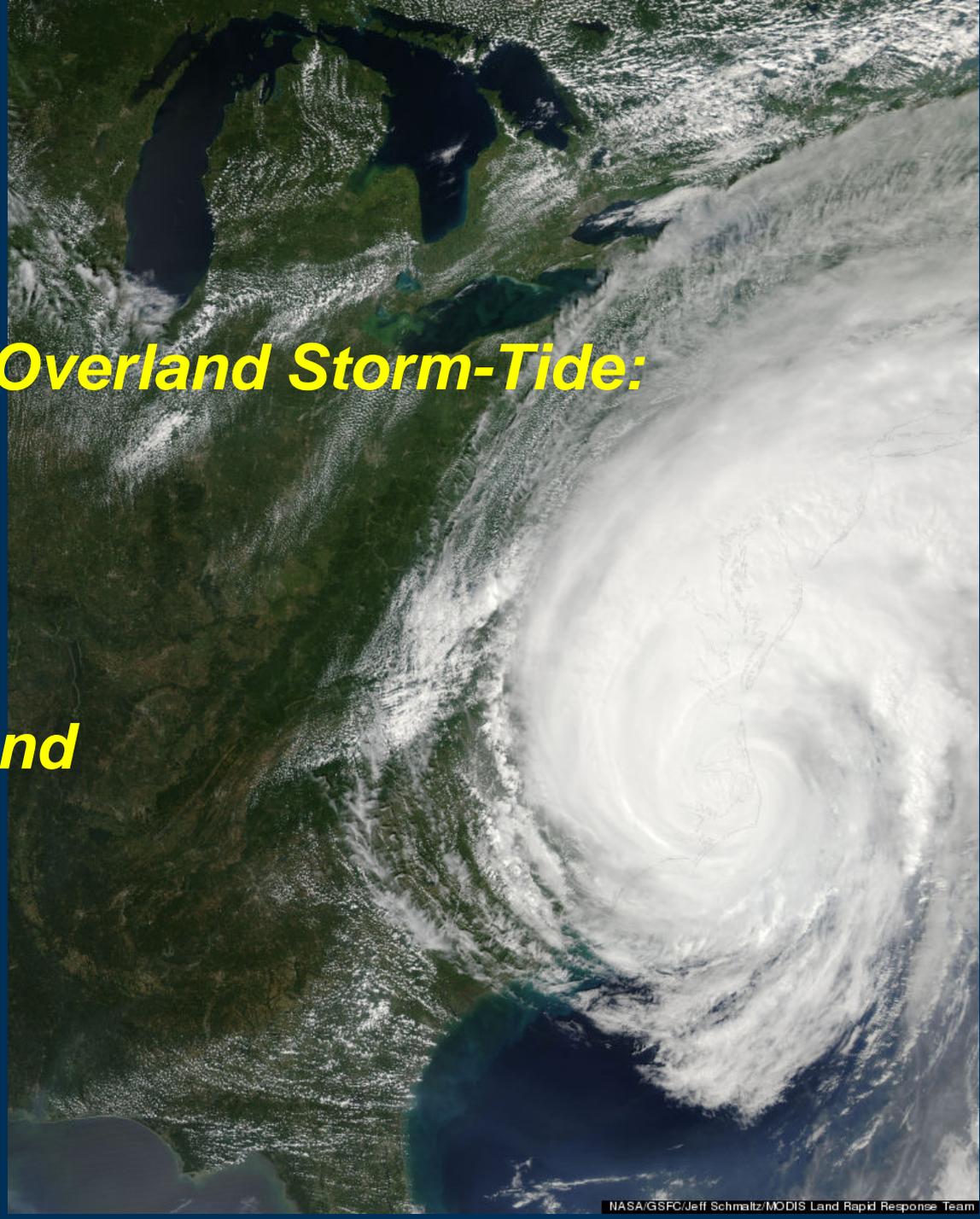


# ***USGS Monitoring of Overland Storm-Tide: An Update***

***NOAA Brown Bag  
July 31, 2014  
Silver Spring, Maryland***

**Robert Mason, John Fulton,  
and Harry Jenter  
U.S. Geological Survey**

U.S. Department of the Interior  
U.S. Geological Survey



# Katrina Raised Many Questions!



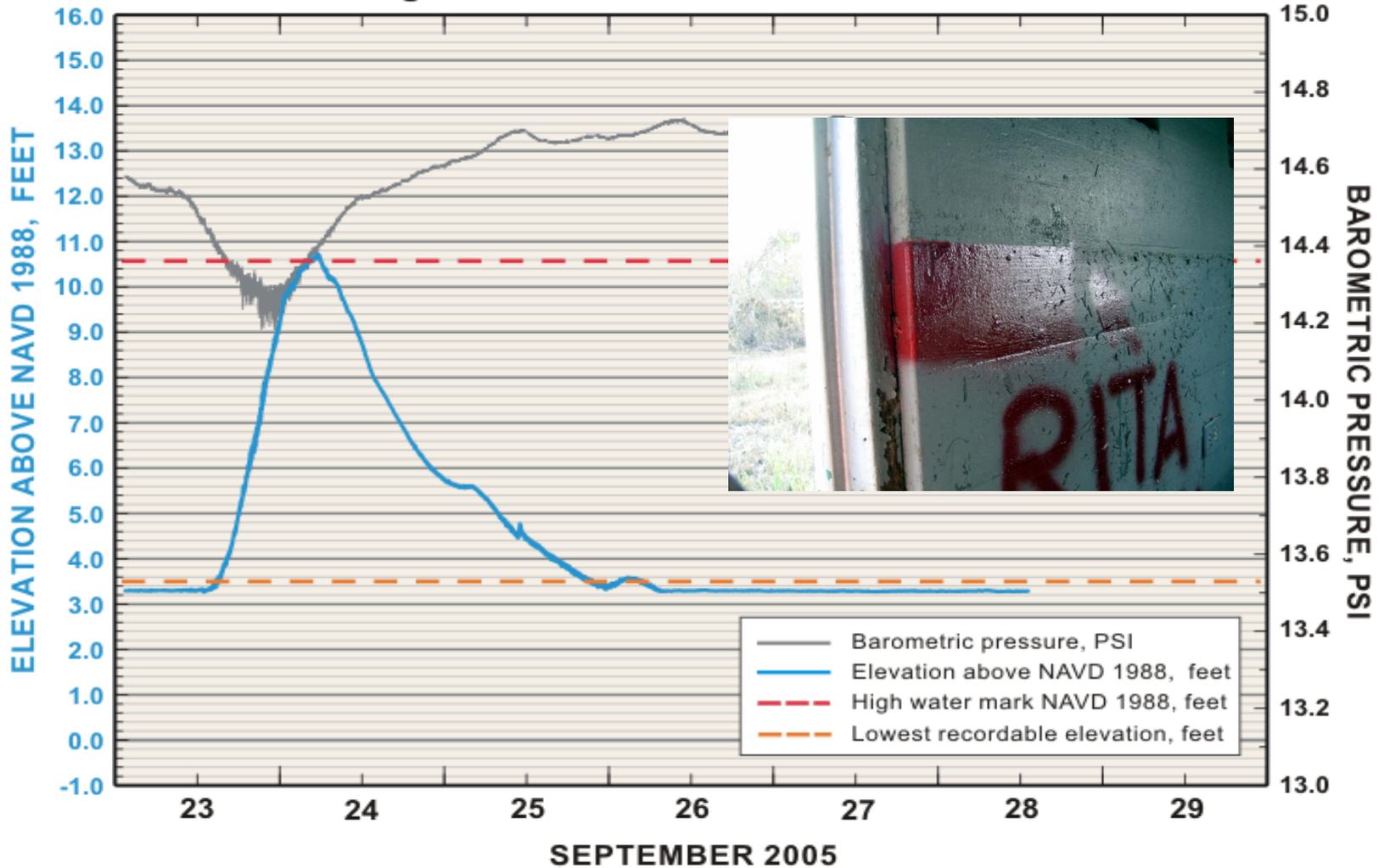
[http://water.usgs.gov/osw/programs/storm\\_surge1.html](http://water.usgs.gov/osw/programs/storm_surge1.html)

# USGS Storm-Tide Deployment

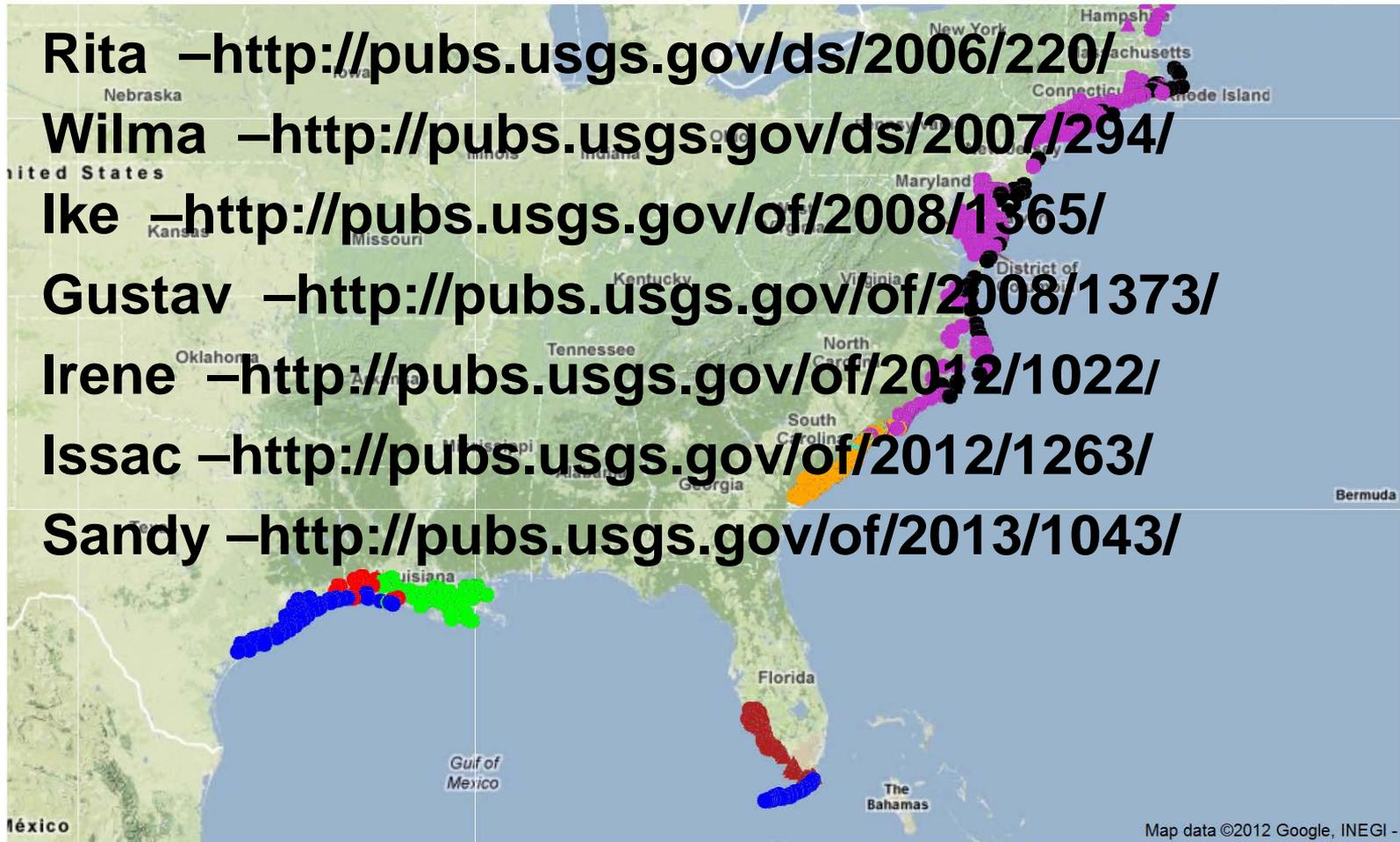
- Use new water-level sensor technology
- Mobile networks
- Rapid, opportunistic deployments
- Post-storm recovery and processing and QA/QC



# Storm Surge Data from Hurricane Rita - - Site: La9b



# Hurricane Storm-Tide Network Coverages



Rita –<http://pubs.usgs.gov/ds/2006/220/>

Wilma –<http://pubs.usgs.gov/ds/2007/294/>

Ike –<http://pubs.usgs.gov/of/2008/1365/>

Gustav –<http://pubs.usgs.gov/of/2008/1373/>

Irene –<http://pubs.usgs.gov/of/2012/1022/>

Issac –<http://pubs.usgs.gov/of/2012/1263/>

Sandy –<http://pubs.usgs.gov/of/2013/1043/>

Explanation							
Rita(2005)	Wilma(2005)	Ernesto(2006)	Gustav(2008)	Hanna(2008)	Ike(2008)	Earl(2010)	Irene(2011)
-- Temporary storm tide sensor,  -- USGS real-time streamgage							5

# USGS Hurricane Sandy Science Plan

1. Coastal topographic and bathymetric data to support hurricane impact assessment & response.
2. Impacts to coastal beaches and barriers.
3. Impacts of storm surge, including disturbed estuarine and bay hydrology.
4. Impacts on environmental quality, including exposure to chemical and microbial contaminants.
5. Impacts to coastal ecosystems, habitats, and fish & wildlife, particularly for DOI lands and trust resources.

