

The Furies of Haiyan & Sandy

**AMS Washington
Forum**

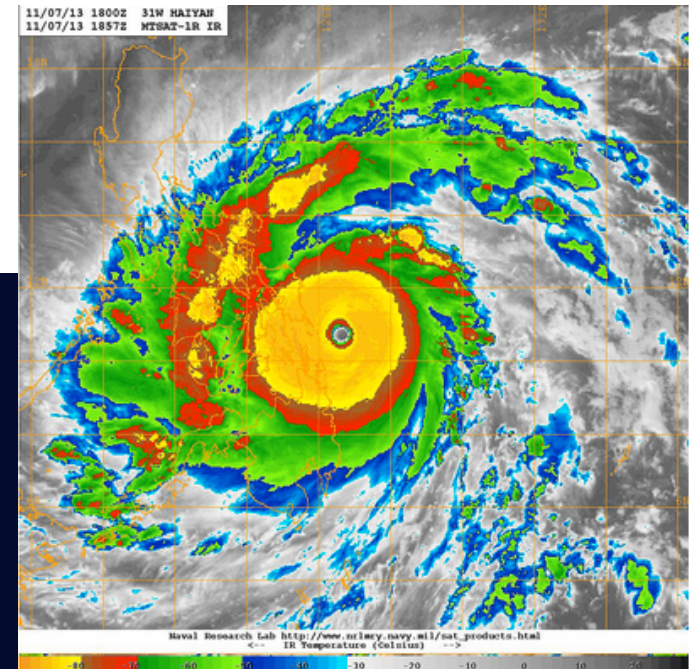
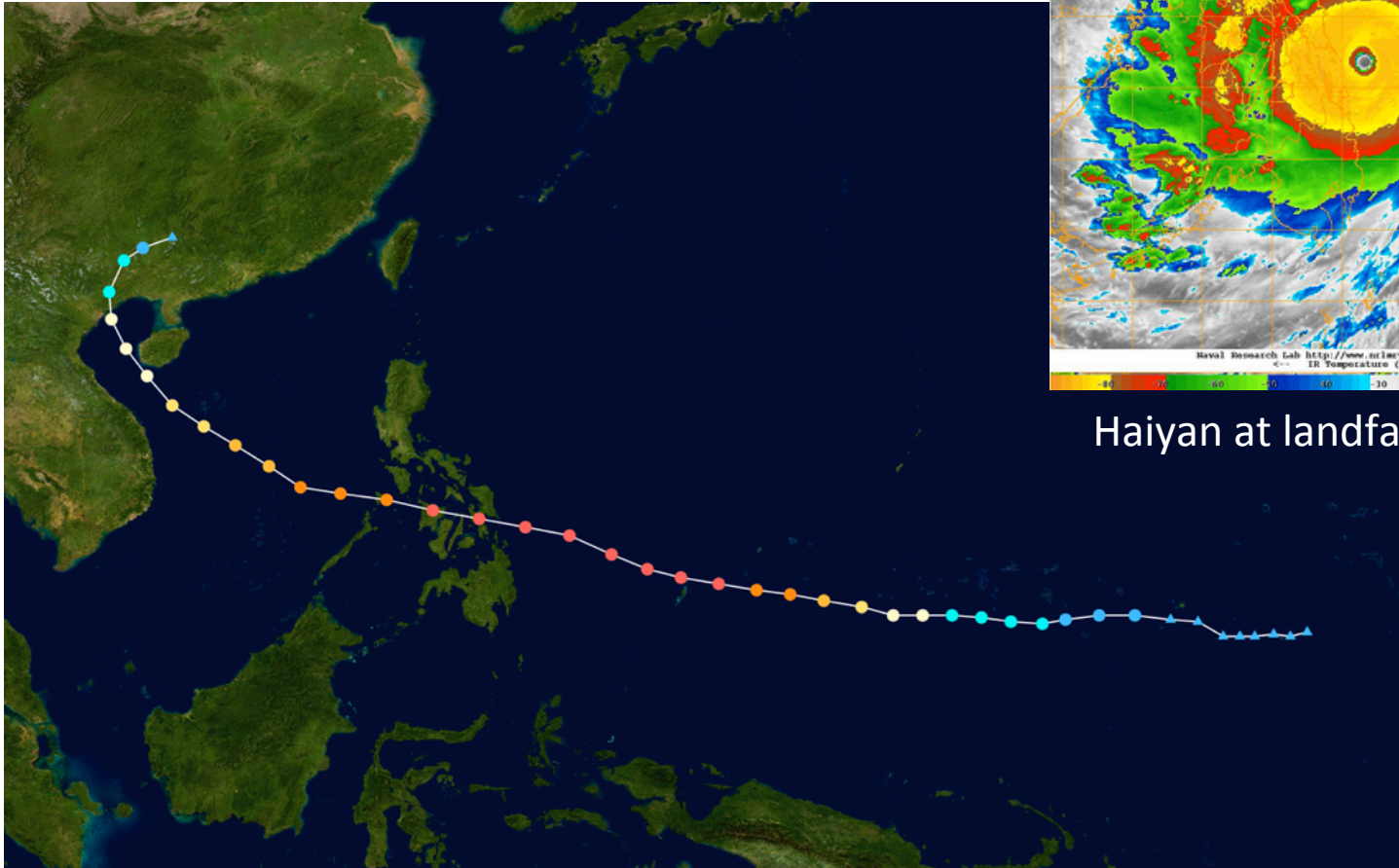
**Dr. David A. Robinson
Professor, Department of Geography &
New Jersey State Climatologist
Rutgers University**

April 3, 2014



Track of Typhoon Haiyan: November 2-11, 2013

(moving to the west, plotted at 6
hour intervals)

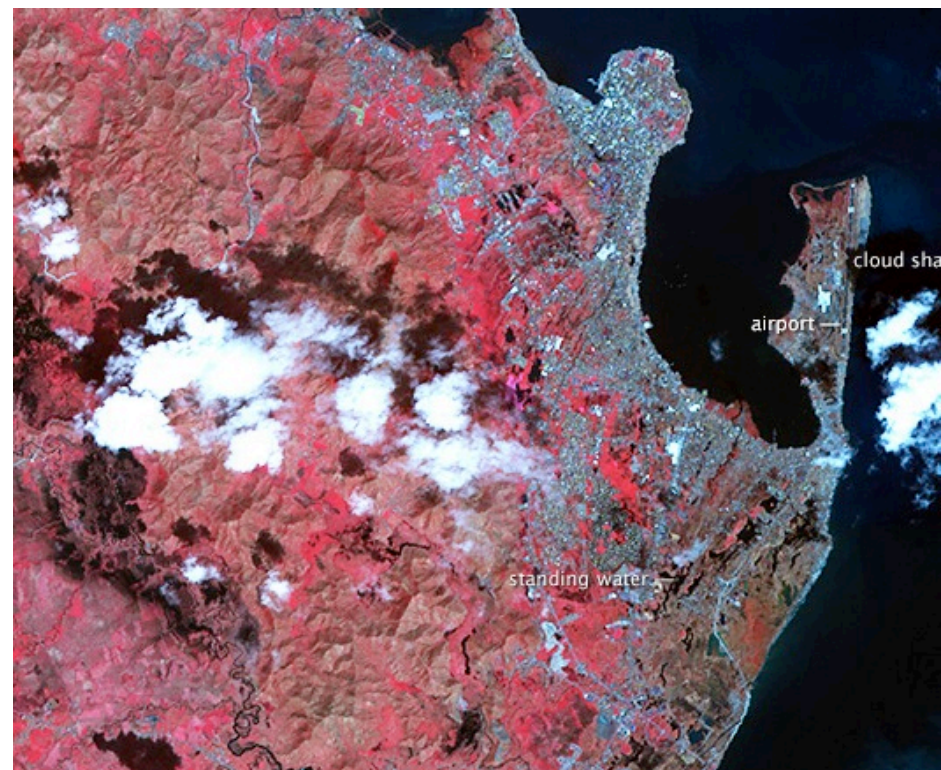


Haiyan at landfall: November 7

Tacloban, Philippines

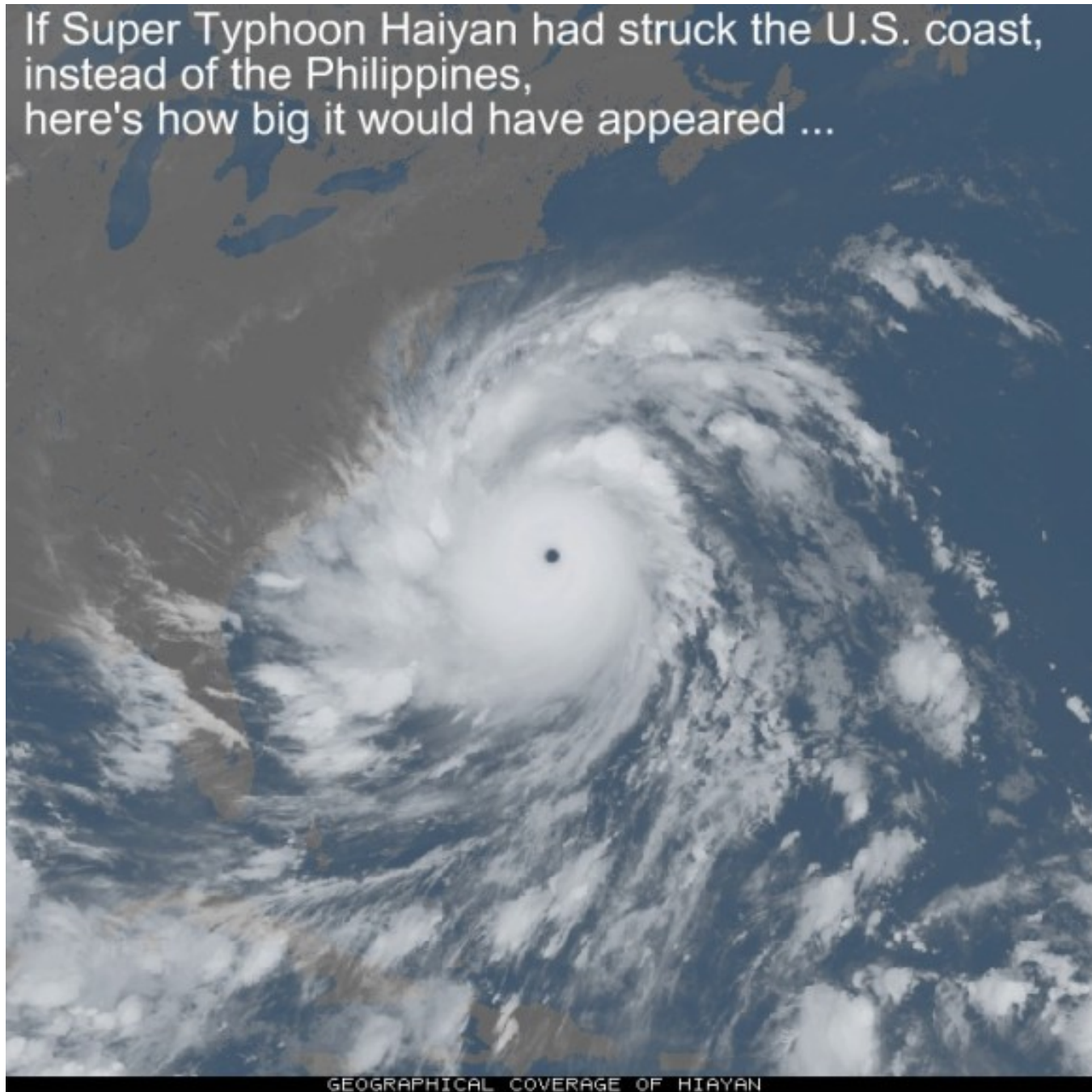


April 3, 2004



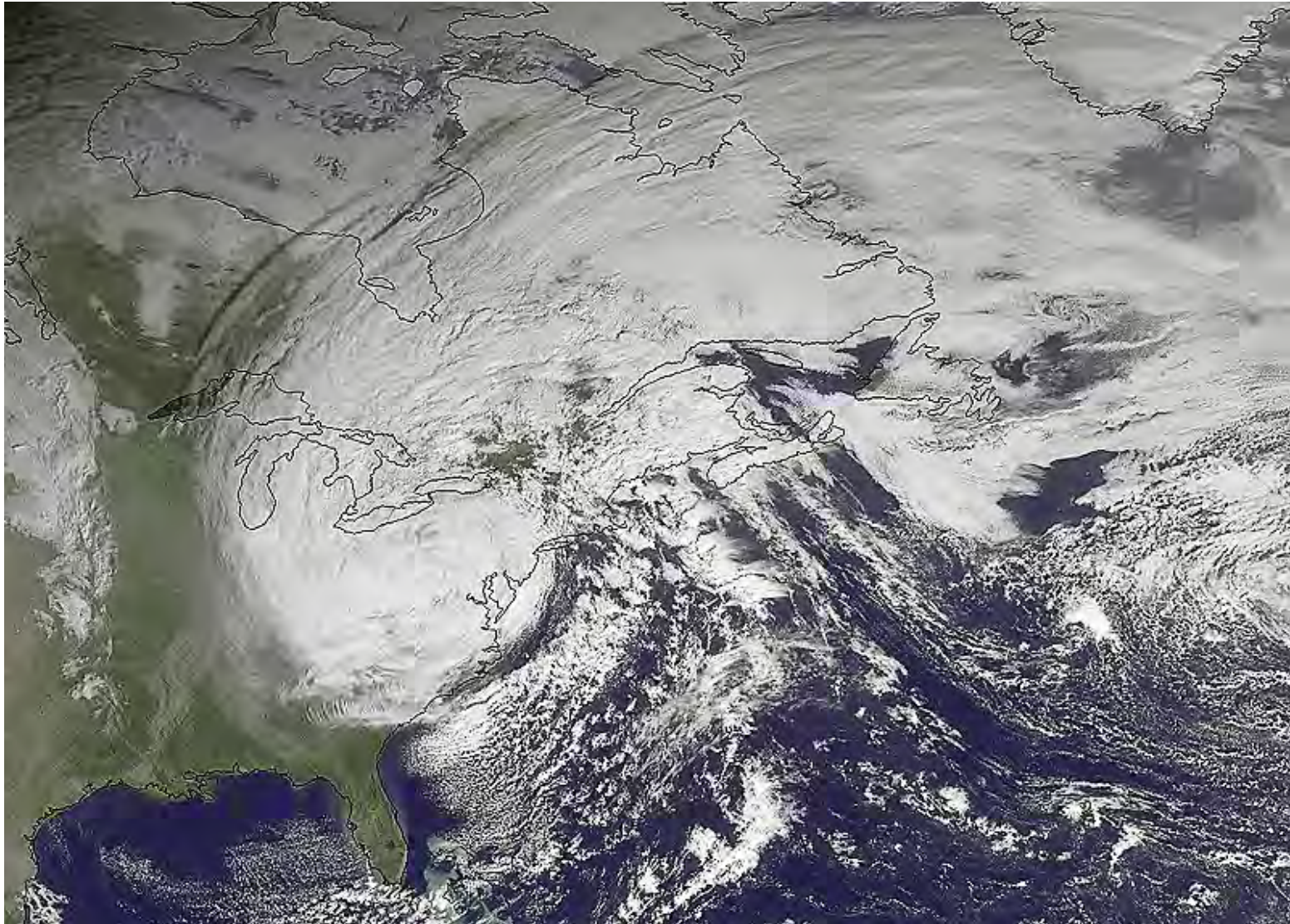
November 15, 2013

If Super Typhoon Haiyan had struck the U.S. coast,
instead of the Philippines,
here's how big it would have appeared ...

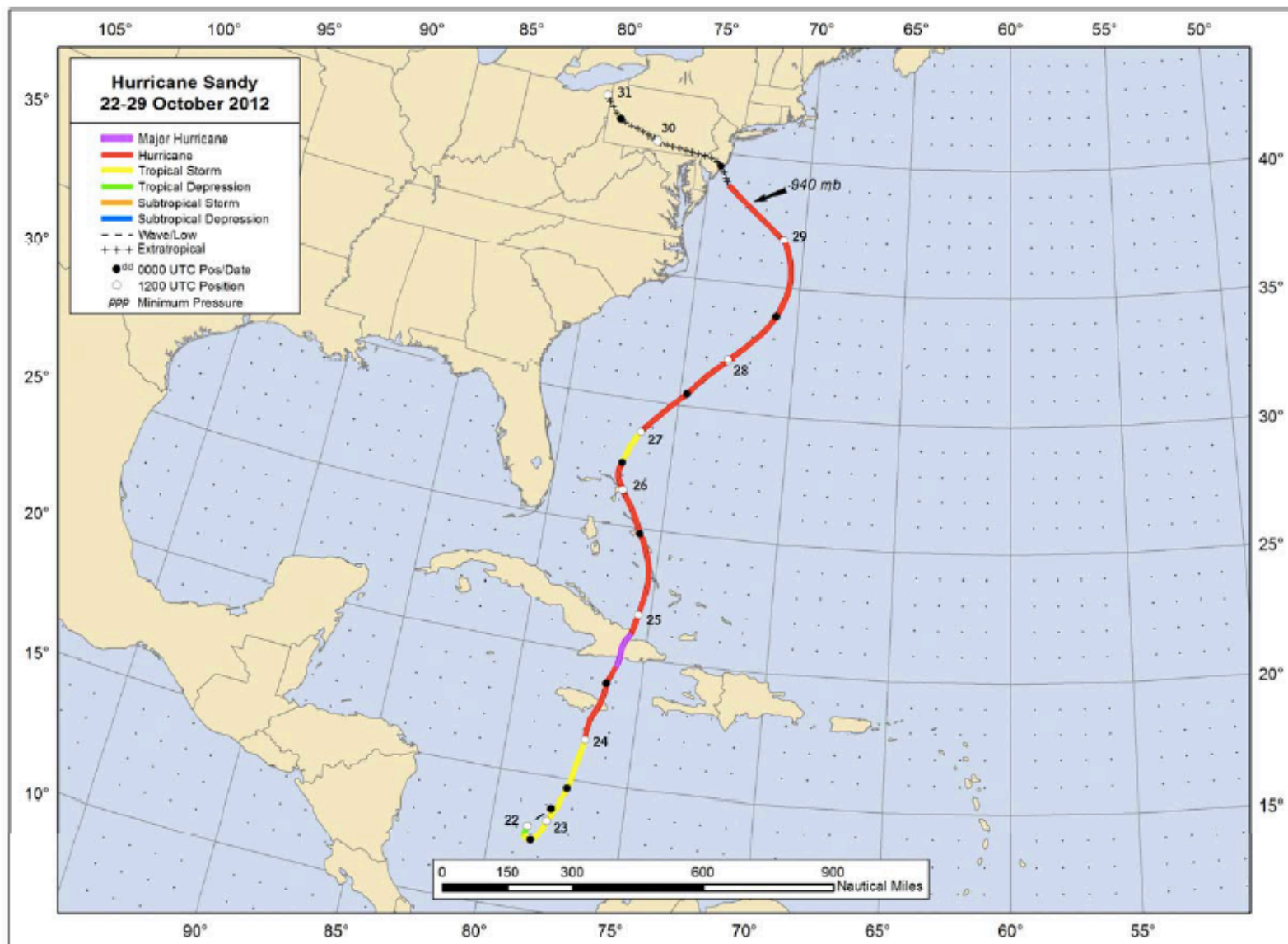


GEOGRAPHICAL COVERAGE OF HAIYAN

Post tropical cyclone Sandy: Tuesday, Oct. 30, 2012:
the morning after landfall



Sandy: October 22 – 31, 2012



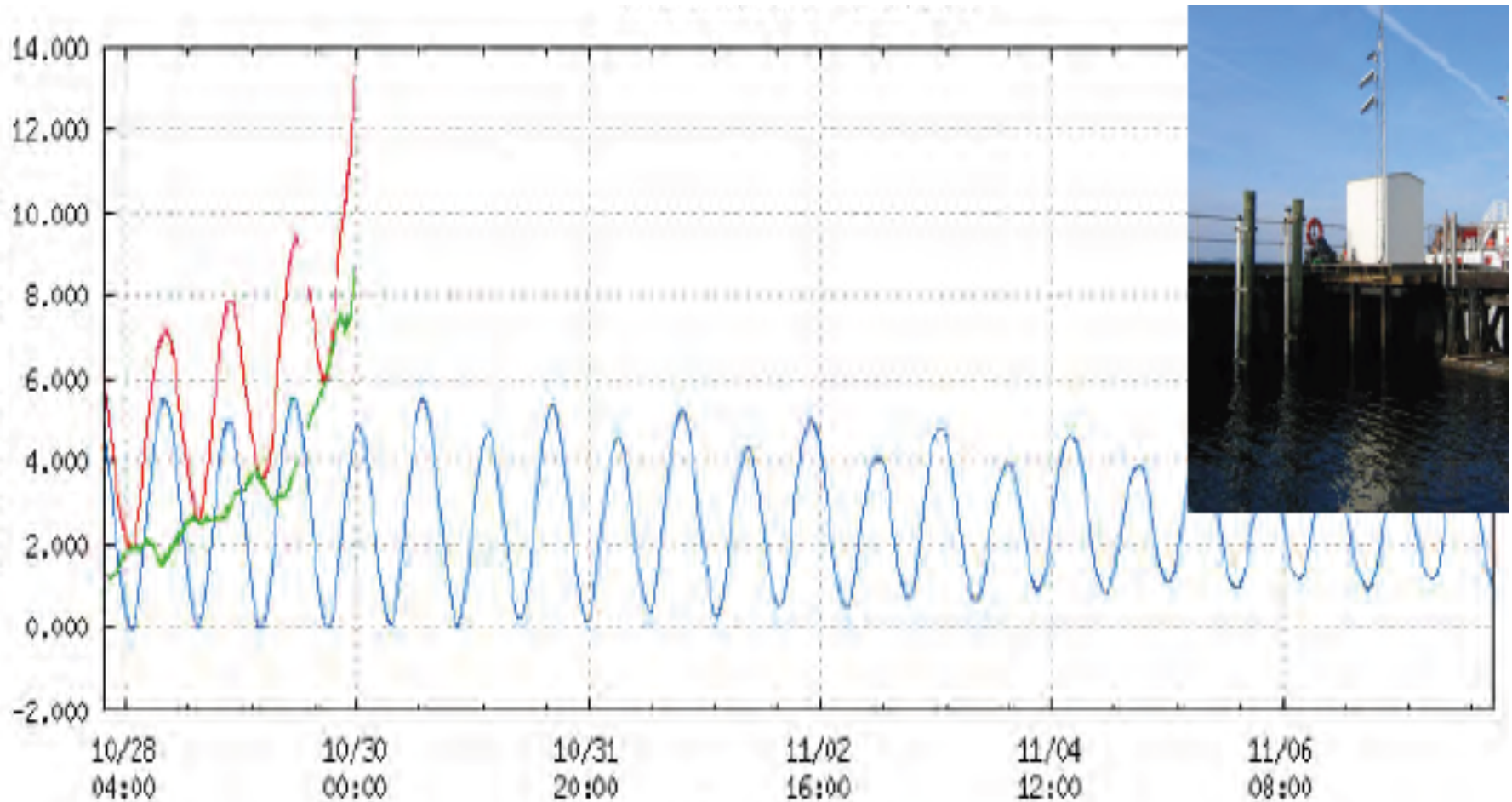


Camp Osborn in Normandy Beach, NJ



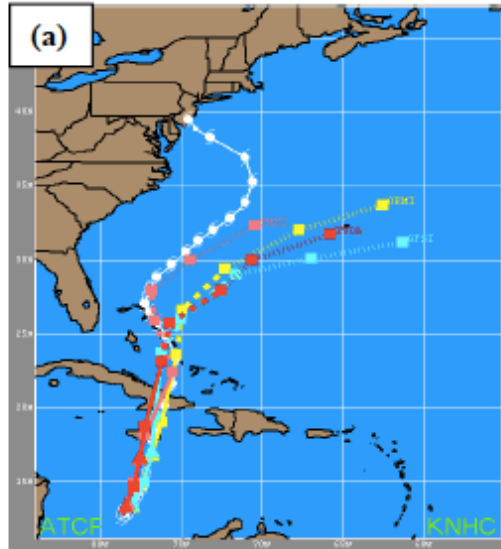
Sandy Hook, NJ storm surge

(gauge was destroyed at 13.5 feet, estimated surge 14.4 feet)

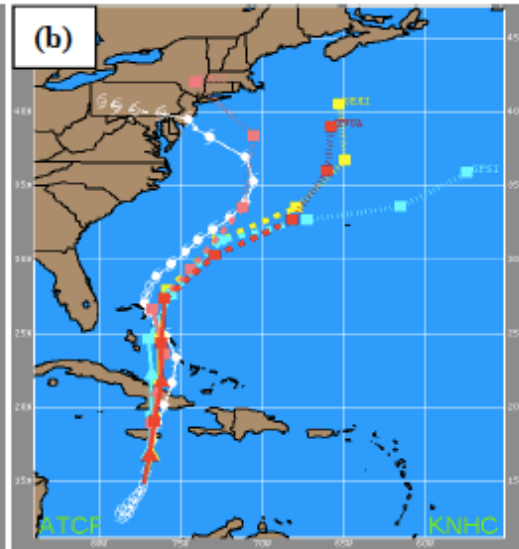


Forecasting Sandy

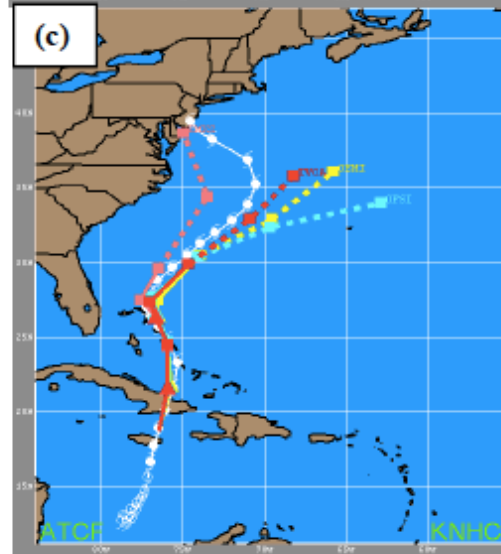
10/23



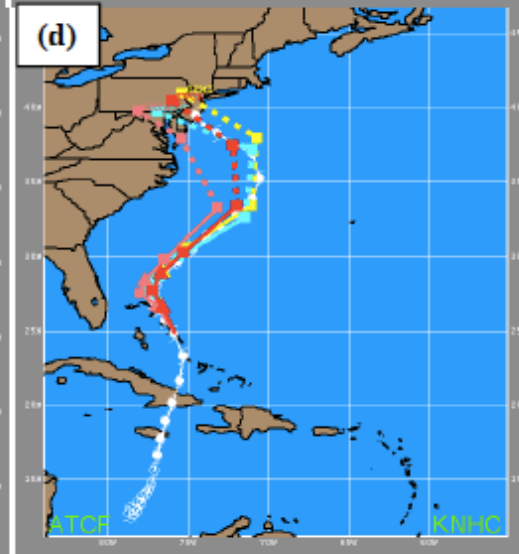
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10/26



Model forecast tracks for Sandy at 0000 UTC 23 October (a), 0000 UTC 24 October (b), 0000 UTC October 25 (c), and 0000 UTC 26 October (d). Solid color lines are the forecasts through 72 h, while dashed lines are from 72-120 h, and dotted lines represent the 120-168 h forecasts (top panels only). The ECMWF is in coral, the GFS ensemble in yellow, the GFS is in cyan, and the TVCA model consensus is in red.

Estimates of the contribution of historical sea-level rise to flooding at the Battery (lower Manhattan)

