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PNSWSH

Technical Implementation Notice 14-12 Amended
National Weather Service Headquarters Washington DC
245 PM EDT Tue Jul 1 2014

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From: Mark Tew
Chief, Marine and Coastal Weather Services Branch

Subject: Amended: Experimental Probabilistic Tropical Cyclone
Storm Surge and Tide above Datum Products Will
Transition To Operational: Effective July 8, 2014

This notice was amended to provide an effective date of July 8, 2014, and to clarify that guidance will be available 1 hour after the National Hurricane Center (NHC) nominal advisory time (i.e., 5 am, 11 am, 5 pm, 11 pm).

Effective July 8, 2014, the experimental Probabilistic Hurricane Inundation Surge Height (also known as P-Surge above ground level) guidance, which incorporates tide will become operational and be made available over the Satellite Broadcast Network (SBN) and NOAAPORT.

This is a replacement of the older P-Surge model that did not incorporate tide and used older National Geodetic Vertical Datum of 1929 (NGVD-29) bathymetry and topography data.

The Probabilistic Tropical Cyclone Storm Surge and Tide above North American Vertical Datum of 1988 (NAVD-88) guidance consists of two suites of products for the Gulf of Mexico and Atlantic coastal areas:

- a) Probabilities, in percent, of storm surge exceeding 2 through 25 feet above NAVD-88, at 1 foot intervals (e.g. 2, 3, 4...25 feet).
- b) Heights, above NAVD-88, that are exceeded by specific probabilities ranging from 10 to 90 percent at 10 percent intervals.

Each of the probabilistic products mentioned will be provided out to 78 hours as a cumulative probability, defined as the overall probability the event will occur at each grid cell from the start of the run until 78 hours.

The products are based on an ensemble of Sea, Lake, and Overland Surge from Hurricanes (SLOSH) model runs using the NHC official advisory and account for track, size, and intensity errors based on historic errors.

The products will be generated when hurricane watches and/or warnings are in effect for the Atlantic and Gulf Coasts of the continental United States and on a case by case basis for tropical storms.

The products will be available 1 hour after the NHC nominal advisory time (i.e., 5 am, 11 am, 5 pm, 11 pm EDT).

The products will be available over the Satellite Broadcast Network (SBN) and NOAAPORT in GRIB2 format. The WMO Headers used by the older P-Surge model (which did not consider tides and used the NGVD-29 datum) will be reused by the newer P-Surge model. A complete list of WMO Headers can be found online at:

http://www.nws.noaa.gov/os/notification/mc/psurge_abvdatum.pdf

Graphical versions of the products will be posted online at:

<http://www.nws.noaa.gov/mdl/psurge2.0/>

GRIB2, ESRI shape files, and KMZ formats will be available for download from the above website.

For questions regarding this notice, please contact

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National Technical Information Notices are online at:

<http://www.weather.gov/os/notif.htm>

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