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PNSWSH

Technical Implementation Notice 14-12 Corrected  
National Weather Service Headquarters Washington DC  
750 AM EDT Thu Jul 3 2014

To:           Subscribers:  
              -Family of Services  
              -NOAA Weather Wire Service  
              -Emergency Managers Weather Information Network  
              -NOAAPort  
              Other NWS Partners, Users and Employees

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

Subject: Corrected: Experimental Probabilistic Tropical Cyclone Storm  
Surge and Tide above Datum Products will Transition to Operational:  
Effective July 8, 2014

This notice was corrected to provide information as to where to download  
data from the National Digital Guidance Database.

This notice was amended to provide an effective date of July 8, 2014 and  
for the guidance being available one 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:

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).  
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 (CONUS), 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 SBN and NOAAPort in gridded binary version 2 (GRIB2) format. The World Meteorological Organization (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](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 shapefiles, and KMZ formats will be available for download from the above website.

Additionally, GRIB2 data will be available from the National Digital Guidance Database. The above datum data will be available here when posted:

<http://weather.noaa.gov/pub/SL.us008001/ST.opnl/DF.gr2/DC.ndgd/GT.slosh/AR.conus/>

Please note that these files will replace the current P-Surge 1.0 data. In addition, there will be a name change from ds.surgeexcd to ds.psurgeexcd.

For questions regarding this notice, please contact:

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