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Public Information Statement 19-12  
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From:         Stephan Smith  
              NWS Office of Science and Technology Integration  
              Meteorological Development Laboratory

Subject: Updated data-feed for experimental ETSS and P-ETSS  
          websites effective May 28, 2019

On Tuesday, May 28, 2019, beginning with the 1200 Universal Coordinated Time (UTC) cycle, the data-feed to the Meteorological Development Lab's (MDL) Extra-Tropical Storm Surge (ETSS) and Probabilistic Extra-Tropical Storm Surge (P-ETSS) websites, which display experimental data, will be updated to include several improvements to the experimental model. These updates include the following:

- ETSS and P-ETSS models will use an initial water level condition in each basin based on the average anomaly of the observations in the domain, (instead of using 0).
- ETSS and P-ETSS models will use updated and expanded BUFR tanks for observations, enabling the models to produce guidance at more stations with matching observations, primarily on the U.S. East Coast.
- P-ETSS model will use the 42 member North American Ensemble Forecast System's (NAEFS) ensemble members for all cycles (instead of just the 00 and 12Z cycle).
- P-ETSS model will use the updated East Coast (EXM) and Gulf of Mexico basin (EGLC).

These model improvements are in addition to the improvements already part of the experimental model data-feed that include:

- ETSS model will use the updated East Coast (EXM) which covers Puerto Rico and the Virgin Islands, and the Gulf of Mexico basin (EGLC) which covers the entire Gulf.
- ETSS model will use 1-hr, 13-km wind forcing (versus 3-hr 0.5 degree (55-km)) Global Forecast System (GFS) winds.

- ETSS and P-ETSS models will use enhanced and expanded station lists for all regions.

- P-ETSS model will use the 42 member NAEFS (instead of the 21 member Global Ensemble Forecast System (GEFS)) at the 00 and 12Z cycles.

MDL's ETSS and P-ETSS websites with experimental data are respectively located here:

<https://slosh.nws.noaa.gov/etss/station/etss2.3/>  
<https://slosh.nws.noaa.gov/etss/station/petss1.1/>

This update will NOT impact MDL's ETSS and P-ETSS websites with operational data, online at:

<https://slosh.nws.noaa.gov/etsurge2.0/>  
<https://slosh.nws.noaa.gov/petss/>

If you have any questions about this, please contact:

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