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PNSWSH

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From: Mark Willis
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Subject: Soliciting Comments on Proposed Changes to the Probabilistic Tropical Cyclone Storm Surge (P-Surge) Model through February 20, 2026

The NWS Meteorological Development Laboratory (MDL) is proposing to upgrade the Probabilistic Tropical Cyclone Storm Surge (P-Surge) model for the 2026 Hurricane Season. NWS is seeking comments on the proposed changes through February 20, 2026. The changes to P-Surge being proposed include:

A. Replace the underlying computational grid for Puerto Rico thereby enabling P-Surge to properly support the 625m output resolution.

B. Update the NHC forecast error statistics used for the Atlantic (i.e., the CONUS and Puerto Rico domains) and Central Pacific (i.e., the Hawaiian domains). This adds four newer tropical cyclones which made landfall (2024: Beryl, Francine, Helene, and Milton) while dropping an older one (2019: Dorian).

C. Adjust how the code detects land when constructing the primary storm parameterization thereby allowing the code to properly decay the storm. This enables it to hold the previous over-ocean forecasts for both maximum wind speed and radius of maximum winds constant until landfall as opposed to prematurely decaying them. This adjustment is only being applied to the CONUS for this implementation, with other regions to be considered in the future.

D. Improve the algorithm for detecting when to stop running a storm. The previous algorithm did not properly consider very large tropical cyclones (TC) which were bigger than a SLOSH basin. The result of the oversight was that large TC perturbations were prematurely stopped.

E. Generate experimental Standard Hydrologic Exchange Format (SHEF) output at stations. The data will be available via NOAA's Operational Model Archive and Distribution System (NOMADS) with this implementation. Follow on implementations will gather WMO headers to enable it to be placed on the

Satellite Broadcast Network (SBN)

For providing comments on the proposal, please use the feedback form which can be accessed via this link: https://forms.gle/cHvFb2u9sYRFSmHW6

Alternatively, you can provide questions, comments, or requests before February 20, 2026 by sending an email to: arthur.taylor@noaa.gov and mark.willis@noaa.gov with a subject of: "P-Surge v3.2 feedback"

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