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PNSWSH

Technical Implementation Notice 14-17 Amended  
National Weather Service Headquarters Washington DC  
255 PM EDT Fri Jun 20 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: Amended: Multi-Grid Hurricane Wave Model Added to SBN and  
NOAAPort: Effective July 8, 2014

Amended to change the effective date from June 24, 2014 to July 8, 2014.

Effective on or around July 8, 2014, with the 1200 Coordinated Universal Time (UTC) run, the Multi-Grid Hurricane Wave model produced by the National Centers for Environmental Prediction (NCEP) will be added to the Satellite Broadcast Network (SBN) and NOAAPort.

The Multi-Grid Hurricane Wave model is run as a mosaic of ten grids:

- 0.5 degree global domain grid
- 0.25 degree regional domain for North Atlantic
- 0.25 degree regional domain for North Pacific
- 10 arc min grid for the North Atlantic regional waters
- 10 arc min grid for the North Pacific regional waters
- 10 arc min grid for the Pacific Islands and Hawaii
- 10x15 arc min grid for the Alaskan waters
- 4 arc min grid for the U.S. East Coast
- 4 arc min grid for the U.S. West Coast (including the coastal waters of Hawaii)
- 8x4 arc min grid for the Alaskan coast

The grids have internal two-way coupling and exchange information during the computational cycle. Wind forcing for the global, Alaskan and Pacific Island grids will be from the Global Forecast System (GFS) winds while all the other grids are currently using a blend of the GFS and Geophysical Fluid Dynamics Laboratory (GFDL) hurricane model winds. The only exception is the Hawaiian Islands, part of the Pacific Island grid, which also will have a blend of GFS and hurricane model wind forcings.

The forecast interval will be provided over the SBN and NOAAPort as follows: 0 to 72 hours - three hours; 72 to 126 hours - six hours.

Gridded binary version two (GRIB2) files will be available five hours after the synoptic time (00, 06, 12, 18 UTC). The per cycle data volume

will be approximately 900 MB.

The World Meteorological Organization (WMO) Headings for these products will be as follows:

T1: Data Format of GRIB2 /E/  
T2: Parameter Code /One of ABCJKLMNPOQRWY/  
A1: Grid Code /One of ABCDEFGHMQ/  
A2: Forecast Time /One of ABCDEFGHIJKLMNOPQRSTUVWXYZ/  
II: Layer or Level /88/  
CCCC: KWBU

Information on WMO Headers and NECP GRIB messages is online at:

<http://www.nco.ncep.noaa.gov/pmb/docs/on388/appendixa.html>

For a complete listing of WMO Headings, please refer to the following webpage:

[http://www.nws.noaa.gov/os/notification/mc/hurr\\_wave.pdf](http://www.nws.noaa.gov/os/notification/mc/hurr_wave.pdf)

For questions concerning the Multi-Grid Hurricane Wave model, contact:

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National Technical Implementation Notices are online at:

<https://www.weather.gov/notification/archive>

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