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Service Change Notice 21-57
National Weather Service Headquarters Silver Spring MD
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From: Ben Kyger
 Director, NCEP Central Operations (NCO)

Subject: Upcoming Changes to the Model Analysis and Guidance (MAG)
Website: Effective July 13, 2021

This Service Change Notice is intended to inform users of upcoming changes to the Model Analysis and Guidance (MAG) website, <https://mag.ncep.noaa.gov>, on or about July 13, 2021 starting at 1400 Coordinated Universal Time (UTC). Listed below are the upcoming changes:

- Addition of new products to take advantage of the Global Forecast System Wave (GFS-WAVE) model upgrade: Wave Sea Height (wsea_wv_ht), primary Swell Height and Wind (swell1_wv_ht), primary Swell Direction and Period (swell1_dir_per), secondary Swell Height and Wind (swell2_wv_ht), and secondary Swell Direction and Period (swell2_dir_per).

- Addition of the following model areas for GFS-WAVE products: Arctic domain, US States Alaska, Hawaii, Northern California (NORTH-CAL) and Southern California (SOUTH-CAL), Washington/Oregon (WA-OR), U.S. Northeast and U.S. Southeast Coasts, Gulf of Mexico and Pacific Region, including regions in the far South Pacific.

- Addition of domains to Global Ensemble Forecast System (GEFS) Storm Tracks and Probabilistic Storm Tracks: Contiguous United States (CONUS), Atlantic, Northern Pacific (NORTH-PAC), Asia and Europe.

- Addition of product probability of composite reflectivity greater than 40 dbz (prob_cref_40dbz), precipitation type to weighted mean of maximum reflectivity (pmm_refd_max) and weighted mean of reflectivity at 1 km (pmm_refd_1km) products for the High Resolution Ensemble Forecast (HREF) model.

- Addition of the Alaska domain for the High Resolution Rapid Refresh (HRRR) model.

- Addition of Accumulated Maximum Updraft Helicity (accu_max_updraft_hlcy) product to the HRRR, North American Mesoscale High Resolution (NAM-HIRES), High Resolution Window/Advanced Research Weather Research and Forecast Model (HRW-ARW), High Resolution Window/Advanced Research Weather Research and Forecast Model - Member 2 (HRW-ARW2), High Resolution Window/Non-

Hydrostatic, Hybrid Vertical Coordinate Mesoscale (HRW-FV3), and NAM Fire Weather high resolution (FIREWX) models.

- Addition of the North American domain (NAMER) to the Rapid Refresh (RAP) model.

- Addition of forecast hours forty eight (48) to sixty (60) for simulated radar at 1 km for high resolution models (sim_radar_1km_HR) on 4-PANELS.

- Migration of all products under the Wave Watch III (WW3) model to the GFS-WAVE model to reflect the WWW3 model being updated and coupled into the GFS model with its latest upgrade.

- Rename of the following model areas under the Observation and Analyses section of the MAG website: the Gulf Coast region of the United States changes from GULFCOAST to GULF-COAST, the Mid-Atlantic region of the United States changes from MIDATL to MID-ATL, the Midwest region of the United States changes from MIDWEST to MID-WEST, the New England region of the United States changes from NEWENG to NEW-ENG, the Ohio Valley region of the United States changes from OHVALLEY to OHIO-VALLEY, and the Pacific Northwest region of the United States changes from PACNW to NW-PACIFIC.

- Replacement of the RAP model simulated radar at 1 km (sim_radar_1km) with HRRR model simulated radar at 1 km (sim_radar_1km) for simulated radar (sim_radar) on 4 PANELS; extension of forecast hours twenty one (21) to forty eight (48).

For technical questions regarding this notification, please contact:

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National Service Change Notices are online at:

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

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