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Service Change Notice 24-15
National Weather Service Headquarters Silver Spring MD
1110 AM EST Fri Feb 9 2024

To: Subscribers:
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 -Emergency Managers Weather Information Network
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From: Ben Kyger, Director
 NCEP Central Operations (NCO)

Subject: Notification of Upgrade to the Model Analyses and Guidance (MAG)
Website to Version 5.0: Effective March 13, 2024

The Model Analyses and Guidance (MAG) website (<https://mag.ncep.noaa.gov>) will be upgraded to version 5.0, on or about March 13, 2024, starting with the 1200 Coordinated Universal Time (UTC) cycle. In the case of Critical Weather Day or Enhanced Caution Event declaration, the upgrade will take place on the next working day that does not have significant weather. The upgrade includes the following:

- Addition of new model Automated Tropical Cyclone Forecasting (ATCF) model
- Addition of the Pacific (PAC-REGION) domain for Global Forecast System (GFS) model
- Addition of the following new products for High Resolution Ensemble Forecast (HREF) model: lpmm_mean_precip_p01, lpmm_mean_precip_p03, lpmm_mean_precip_ptot, eas_prob_1h_rain_0.01in, eas_prob_1h_rain_0.25in, eas_prob_1h_rain_0.5in, eas_prob_3h_rain_0.01in, eas_prob_3h_rain_0.25in, eas_prob_3h_rain_0.5in, eas_prob_1h_snow_0.1in, eas_prob_1h_snow_0.3in, eas_prob_3h_snow_0.1in, eas_prob_3h_snow_0.3in, pmm_refd_1km (no emsl), pmm_refd_max (no emsl), prob_lowIFR_IFR
- Rename of the following products for High Resolution Ensemble Forecast (HREF) model: from pmm_refd_1km to pmm_refd_1km_emsl, from pmm_refd_max to pmm_refd_max_emsl
- Addition of the following new products for North American Ensemble Forecast System (NAEFS) model: precip_p06 (only for 00 UTC and 12 UTC cycles), precip_p24 (only for 00 UTC and 12 UTC cycles), precip_ptot (only for 00 UTC and 12 UTC cycles), prob_precip_0.25in (only for 00 UTC and 12 UTC cycles), prob_precip_0.5in (only for 00 UTC and 12 UTC cycles), prob_precip_1in (only for 00 UTC and 12 UTC cycles), 10th_percentile_10m_wnd, 50th_percentile_10m_wnd, 90th_percentile_10m_wnd, extreme_index_10m_wnd, 10th_percentile_2m_temp, 50th_percentile_2m_temp, 90th_percentile_2m_temp, extreme_index_2m_temp, extreme_index_mslp

- Improvement of the 700mb relative humidity (RH) wind, height (700_rh_ht) product for the High Resolution Rapid Refresh Analysis and Forecast System (HRRR) model by adding Omega
- Improvement of North American Ensemble Forecast System (NAEFS) and Global Ensemble Forecast System - Mean and Spread (GEFS-MEAN-SPRD) product titles by unifying units
- Improvement of temperature/dew point color fill for Fire Weather (FIREWX) and Real-Time Mesoscale Analysis (RTMA) models
- Improvement of Hurricane Analysis and Forecast System (HAFS-A/B) NESTED products by removing unnecessary border whitespace
- Improvement of Hurricane Analysis and Forecast System (HAFS) products by: unifying wind barb color (to black), increasing surface temperature contour from 17C to 33C, increasing 500 RH contour intervals
- Improvement of grid point display for the 2m_apparent_temp, 2m_dewp_10m_wnd, and 2m_temp_10m_wnd products for the Hawaii and Puerto Rico (PR) domains for National Blend of Models (NBM)
- Fixed scale factor for the mean_snow_total product for High Resolution Ensemble Forecast (HREF)
- Increased image resolutions from 1024x768 to 1280x1024 pixels (excluding SREF-CLUSTER, STORM-TRACKS, SKEWT, UAIR, GFS and NAM Sounding products)
- Changed display order of HFSA/HFSB on Tropical Guidance webpage (so that HFSA is first).

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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