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Service Change Notice 23-56
National Weather Service Headquarters Silver Spring MD
420 PM EDT Tue May 2 2023

To: Subscribers:
 -NOAA Weather Wire Service
 -Emergency Managers Weather Information Network
 -NOAAPort
 Other NWS Partners, Users and Employees

From: Ben Kyger
 Director, NCEP Central Operations

Subject: Notification of Upgrade to the Model Analyses and Guidance (MAG)
Website to Version 4.0: Effective May 31, 2023

The Model Analyses and Guidance (MAG) website (<https://mag.ncep.noaa.gov>) will be upgraded to version 4.0, on or about May 31, 2023 starting with the 1200 Coordinated Universal Time (UTC) cycle. In the case of a 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 Global Ensemble Forecast System Wave (GEFS-WAVE) model:

- Products: Peak Wave Direction and Period (peak_dir_per), Significant Wave Height and Wind (sig_wv_ht), Wind Sea Direction and Period (wsea_dir_per), Wind Sea Wave Height and Wind (wsea_wv_ht), Primary Swell Wave Height and Wind (swell1_wv_ht), Primary Swell Direction and Period (swell1_dir_per), Secondary Swell Direction and Period (swell2_dir_per), Secondary Swell Wave Height and Wind (swell2_wv_ht), Tertiary Swell Direction and Period (swell3_dir_per), Tertiary Swell Wave Height and Wind (swell3_wv_ht).

- Domains: Africa, Alaska, Arctic, North Atlantic and North Pacific Ocean (ATL-PAC), Atlantic, Eastern and Western Gulf of Alaska (EAST-GOA, WEST-GOA), Eastern Pacific (EAST-PAC), Europe, Gulf of Mexico (GOM), Guam, Hawaii, India, U.S. Mid-Atlantic Coast (MID-ATL), North Pacific (NORTH-PAC), Pacific Regions (PAC-REGION), Polar, Puerto Rico (PR), U.S. Northeast and Southeast Coast (NE-COAST, SE-COAST), Northern and Southern California (NORTH-CAL, SOUTH-CAL), American Samoa (US-SAMOA), Washington/Oregon (WA-OR), Western Atlantic (WEST-ATL).

Addition of the following new products for Global Forecast System Wave (GFS-WAVE) model: Tertiary Swell Direction and Period (swell3_dir_per), Tertiary Swell Wave Height and Wind (swell3_wv_ht).

Addition of the following new domains for Global Forecast System Wave (GFS-WAVE) model: Africa, Eastern and Western Gulf of Alaska (EAST-GOA, WEST-GOA), Europe, Guam, India, Mid-Atlantic Coast (MID-ATL), Polar, Puerto Rico (PR), American Samoa (US-SAMOA).

Addition of the following domain for the North American Mesoscale - High Resolution (NAM-HIRES) model: Hawaii.

For the National Blend of Models (NBM):

- Addition of the following domains: Alaska, Hawaii and Puerto Rico (PR).
- Unified color scale between apparent/min/max temperature products: 2m_temp_10m_wnd, 2m_dewp_10m_wnd, 2m_apparent_temp, 2m_max_temp, 2m_min_temp.
- Addition of 2m_max and 2m_min temperature products for the 00/06 and 12 UTC valid cycles.

Addition of the following product for the Global Forecast System (GFS), North American Mesoscale (NAM), North American Mesoscale 3km (NAM-HIRES) [excluding Hawaii and Alaska domains], High Resolution Rapid Refresh Analysis and Forecast System (HRRR): precipitation rate type (precip_rate_type).

Addition of buttons on the user interface (UI) to go to previous/next cycles.

Improvement of the color fill of the precipitable water (precip_pwat) product for the Fire Weather (FIREWX) model by using the precip-alike color fills.

Improvement to the Fire Weather (FIREWX) products:

- Update the Maximum 1-hour 10-m Wind (10m_maxwnd) product's color fill and wind barbs to be consistent with HRRR products.
- Remove the negative color fill for the Ventilation Rate (vent_rate) product.
- Update color fills for the 850mb Temperature, Wind and Height (850_temp_ht) product to be consistent with HRRR/NAM-Hi-res products.

Improvement to the 10m_wnd_2m_temp, 850_temp_mslp_precip, 850_temp_ht, 925_temp_ht Polar products to have temperature contours every 5 degrees Celsius, label every other isotherm and reduced line width.

Improvement to the 850_temp_mslp_precip product for the GFS, NAM, NAM-HIRES, HRRR) models to plot 850 isotherms on top of precipitation.

Addition of pressure lines to the Accumulated Precipitation (precip_ptot) product.

For the Storm-Tracks probability product, use of contour instead of color fill (default) when a processing exception occurs.

For technical questions regarding this notification, please contact:

Software Development Branch
NCEP Central Operations
sdb.support@noaa.gov

National Service Change Notices are online at:

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

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