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PNSWSH

Public Information Statement 20-13
National Weather Service Headquarters Silver Spring MD
845 AM EDT Tue Mar 24 2020

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From: Vijay Tallapragada, Chief
 Modeling and Data Assimilation Branch
 NCEP/Environmental Modeling Center

Subject: Soliciting Public Comments on the Proposed Upgrade of the HMON
Hurricane Operational Model through April 7, 2020

The Environmental Modeling Center (EMC) is proposing to upgrade the
Hurricanes in a Multi-scale Ocean-coupled Non-hydrostatic (HMON) model in
the early summer of 2020. The NWS is seeking comments on this proposed
change through April 7, 2020.

The full list of potential changes for HMON is described here:

[https://www.emc.ncep.noaa.gov/gc_wmb/vxt/zack/FY20_HWRF_HMON/FY20_HMON_on
eslide_upgrade.pptx](https://www.emc.ncep.noaa.gov/gc_wmb/vxt/zack/FY20_HWRF_HMON/FY20_HMON_on_eslide_upgrade.pptx)

Expected benefits from this upgrade include improved track and intensity
forecast skill for tropical cyclones in the North Atlantic, East Pacific
and Central Pacific basins. There are also expected reductions in
intensity bias and storm size errors. For verification statistics for
HMON in the North Atlantic Basin, see:

[https://www.emc.ncep.noaa.gov/gc_wmb/vxt/zack/FY20_HWRF_HMON/HMONstats NA
TL/stats.php](https://www.emc.ncep.noaa.gov/gc_wmb/vxt/zack/FY20_HWRF_HMON/HMONstats_NA_TL/stats.php)

East Pacific Basin, see:

[https://www.emc.ncep.noaa.gov/gc_wmb/vxt/zack/FY20_HWRF_HMON/HMONstats EP
AC/stats.php](https://www.emc.ncep.noaa.gov/gc_wmb/vxt/zack/FY20_HWRF_HMON/HMONstats_EP_AC/stats.php)

The following World Meteorological Organization (WMO) header for tcvitals
converted to Binary Universal Form for the Representation of
meteorological data (BUFR) format will be discontinued with this HMON
upgrade:

ISXA40 KWN0

This is a process that repackages tcvitals into BUFR format. As a replacement, original tcvitals in text format are available here:

<https://nomads.ncep.noaa.gov/pub/data/nccf/com/hur/prod/inphwrf/>

The NWS will evaluate all comments to determine whether to proceed with this upgrade.

Send comments on this proposal for HMON by April 7, 2020 to:

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National Public Information Statements are online at:

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

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