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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

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:


East Pacific Basin, see:


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 KWNO
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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or

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National Public Information Statements are online at:

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

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