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From: Bob Maxson, Acting Director
National Centers for Environmental Prediction

Subject: Upgrade of WSA-Enlil Heliospheric Model and
Downscaled Products Effective May 28, 2019

Effective on or about Tuesday, May 28, 2019, beginning with the
1200 Universal Coordinated Time (UTC) run, the Space Weather
Prediction Center (SWPC) will upgrade the WSA-Enlil Heliospheric
model. There will be no changes to the WSA coronal component.

Changes will include:

- Upgrade of Enlil from version 2.6 to 2.9, compatible with
time-dependent driving in anticipation of subsequent upgrades
- Retuned Enlil model free parameters, providing a more accurate
representation of ambient solar wind structure

Changes in WSA-Enlil output

The following WSA-Enlil changes will apply to products on the
NCEP Web Services:
https://nomads.ncep.noaa.gov/pub/data/nccf/com/wsa_enlil/prod/ws
a_enlil.YYYYMMDD/
https://www.ftp.ncep.noaa.gov/data/nccf/com/wsa_enlil/prod/wsa_e
nlil.YYYYMMDD/
ftp://ftpprd.ncep.noaa.gov/pub/data/nccf/com/wsa_enlil/prod/wsa_enl
il.YYYYMMDD/

Where YYYYMMDD is year, month, and day

A) The wsa_enlil.CC.suball.nc (Where CC is cycle) NetCDF files
will no longer contain FLD arrays which consist of all points
along magnetic field lines connecting the respective observing
points (Earth, StereoA, StereoB) to the solar surface:
- EARTH_FLD_*
- STEREO_A_FLD_*
- STEREO_B_FLD_*

B) Within the NetCDF files, the following changes have been made
to the header information:
- "crpos" field removed
- Valid entries for the "observatory" field have been changed from "gong" to "gongb"/"gongz" indicating whether non-zeropoint corrected (gongb) or zeropoint corrected (gongz) input maps were used

C) The hosting time of the files will be earlier, with the new range of time being from HH:17-HH:25. The previous version would post between HH:26-HH:31 (Where HH is hour).

NCEP will evaluate all comments and decide whether to proceed. For questions regarding these changes, please contact:

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For questions regarding the dataflow aspects of these data sets, please contact:

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College Park, MD
Phone: 301-683-0567
Email: ncep.list.pmb-dataflow@noaa.gov

NWS Service Change Notice are online at: https://www.weather.gov/notification

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