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PNSWSH

Service Change Notice 19-36
National Weather Service Headquarters Silver Spring MD
1110 AM EDT Mon Apr 29 2019

To: Subscribers:
           -NOAA Weather Wire Service
           -Emergency Managers Weather Information Network
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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
Coordinated Universal Time (UTC) run, the Space Weather Prediction Center
(SWPC) will upgrade the Wang-Sheeley-Arge (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/wsa_enlil.YYYYMMDD/
https://www.ftp.ncep.noaa.gov/data/nccf/com/wsa_enlil/prod/wsa_enlil.YYYYMMDD/
ftp://ftpprd.ncep.noaa.gov/pub/data/nccf/com/wsa_enlil/prod/wsa_enlil.YYYYMMDD/

Where YYYYMMDD is year, month, and day.

- 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_*

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.

- 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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National Service Change Notices are online at:

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

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