

NOUS41 KWBC 251253
PNSWSH

Technical Implementation Notice 14-31
National Weather Service Headquarters Washington DC
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From: Tim McClung
Science Plans Branch Chief
Office of Science and Technology

Subject: Extra-Tropical Storm Surge (ETSS) enhancements:
Effective August 26, 2014

On Tuesday, August 26, 2014, beginning with the 1200 Universal Coordinated Time (UTC) cycle, the Extra-Tropical Storm Surge (ETSS) model will reflect three changes.

1. Use 0.5 degree gridded wind input from the Global Forecast System model instead of 1 degree
2. Use a corrected mask for merging data over the Bering Sea
3. Begin generating 2.5 km National Digital Forecast Database (NDFD) CONUS GRIB2 files and 3 km NDFD Alaska GRIB2 files

For the NWS FTP server, the 2.5 km CONUS products will be available in the National Digital Guidance Database (NDGD):

<http://weather.noaa.gov/pub/SL.us008001/ST.expr/DF.gr2/DC.ndgd/GT.slosh/AR.conus/ds.etss-2p5.bin>

NWS will discontinue the 5 km CONUS products in that directory:

- grib2.mdlsurgegrid.00con
- grib2.mdlsurgegrid.06con
- grib2.mdlsurgegrid.12con
- grib2.mdlsurgegrid.18con

The 3 km Alaska products will be available here:

<http://weather.noaa.gov/pub/SL.us008001/ST.expr/DF.gr2/DC.ndgd/GT.slosh/AR.alaska/ds.etss-3p0.bin>

NWS will discontinue the 6 km Alaska products:

- grib2.mdlsurgegrid.00ala
- grib2.mdlsurgegrid.06ala
- grib2.mdlsurgegrid.12ala
- grib2.mdlsurgegrid.18ala

For the NCEP FTP server the new products will be available here:

<ftp://ftp.ncep.noaa.gov/pub/data/nccf/com/gfs/prod/gfs.YYYYMMDDHH/>

where YYYY is the current year, MM is the current month, DD is the current day, and HH is the current hour. They will have names of: grib2.mdsurgegrid.2.5km.HHcon for CONUS and grib2.mdsurgegrid.3km.HHala for Alaska.

The new products are already available in parallel at:

<ftp://ftp.ncep.noaa.gov/pub/data/nccf/com/gfs/para/gfs.YYYYMMDDHH/>

NWS will discontinue the 5 km CONUS product (grib2.mdsurgegrid.HHcon) and the 6 km Alaska product (grib2.mdsurgegrid.HHala).

For the Satellite Broadcast Network and NOAAPORT, NWS will provide both the original and new products. The new products will have WMO headers of:

WMO Heading	Region
MHU... KNHC	NDFD CONUS 2.5 km grid
MHR... KNHC	NDFD Alaska 3 km grid

The ... in the WMO heading will be replaced by DHH, where D is the day of the forecast. A=Day 0, B=Day 1, ... F=Day 5 and HH is the hour of day when the forecast is valid. A full chart of the header combinations per forecast cycle is available here:

<http://www.nws.noaa.gov/mdl/etsurge/docs/headers2.xls>

Once AWIPS is ready, NWS will discontinue the old products with WMO heading of LHU... KNHC and LHR... KNHC.

If you have any questions about these changes and additions to the ETSS guidance, please contact:

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NWS Technical Implementation Notices are online at:

<http://www.nws.noaa.gov/om/notif.htm>

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