

NOUS41 KWBC 031920
PNSWSH

Service Change Notice 21-81
National Weather Service Headquarters Silver Spring MD
320 PM EDT Fri Sep 3 2021

To: Subscribers:
 -NOAA Weather Wire Service
 -Emergency Managers Weather Information Network
 -NOAAPort
 Other NWS Partners and NWS Employees

From: Judy Ghirardelli
 NWS Office of Science and Technology Integration
 Meteorological Development Laboratory

Subject: Probabilistic Extra-Tropical Storm Surge (P-ETSS) Model
 and Extra-Tropical Storm Surge (ETSS) Model Updates to
 Correct the Timing of Station Tides at Hooper Bay, AK
 and Protection Point, AK, Effective September 7, 2021

On or about September 7, 2021, beginning with the 1200 Coordinated Universal Time (UTC) cycle, the NWS Meteorological Development Laboratory (MDL) will implement an update to the tide predictions at Hooper Bay, AK and Protection Point, AK for both the Probabilistic Extra-Tropical Storm Surge (P-ETSS) and the Extra-Tropical Storm Surge (ETSS) models. In the event that the implementation date is declared a Critical Weather Day (CWD) or significant weather is occurring or is anticipated to occur, implementation of this change will occur at 1200 UTC on the next weekday not declared a CWD and when no significant weather is occurring.

1. MODEL CHANGES

Both P-ETSS and ETSS models will be adjusted to use tidal constituents that have a phase shift based on the expected time zone of UTC (rather than local time) for Hooper Bay, AK and Protection Point, AK.

This should not impact any other grid or station product. The sole impact should be to shift the tide prediction at those two stations by 8 hours (which is the difference between UTC and the station's local time).

For more details, please see the following:
<https://vlab.noaa.gov/documents/6609493/7858383/TidalPhaseCorectionInAK.pdf/0fc155b1-90cf-0b39-1f3f-0d36324badaa?t=1628519190539>

2. TIMING CHANGES

None.

3. NEW PRODUCTS ON NCEP WEB SERVICES

None.

4. NOAAPORT/SBN CHANGES

None.

5. PRODUCTS ON NWS WEB SERVICES

There are no changes to the data locations, formats, or naming conventions. The only change will be in the values stored in the station CSV files and SHEF messages associated with Hooper Bay, AK and Protection Point, AK.

As a reminder:

At this time, no changes are being made to the availability of the data (file formats, or naming conventions) on the NWS web site (TGFTP) in the NWS National Digital Gridded Database (NDGD) area for ETSS and P-ETSS. NWS plans to remove the NDGD/TGFTP data with the next major implementation (estimated to be in 2022). Users are strongly encouraged to migrate to the identical data hosted on NOMADS with this implementation.

Preferred NOMADS locations:

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

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

Output (until 2022) will be available at the following locations:

<ftp://tgftp.nws.noaa.gov/SL.us008001/ST.expr/DF.gr2/DC.ndgd/GT.petss/>

Note: FTP link works for FTP-enabled web browsers only

<https://tgftp.nws.noaa.gov/SL.us008001/ST.expr/DF.gr2/DC.ndgd/GT.petss/>

<ftp://tgftp.nws.noaa.gov/SL.us008001/ST.expr/DF.gr2/DC.ndgd/GT.etss/> Note:
FTP link works for FTP-enabled web browsers only

<https://tgftp.nws.noaa.gov/SL.us008001/ST.expr/DF.gr2/DC.ndgd/GT.etss/>

A full description of the GRIB2 directory/file structure on TGFTP is available here:

<http://www.nco.ncep.noaa.gov/pmb/changes/docs/NDGD-PETSS.pdf>

Additionally, as mentioned in SCN 21-70, some duplicate text data for Alaska is being sent to a specific, non-NDGD, area for ETSS, and that data will also be removed with the next major implementation. So again, please migrate to the identical data hosted on NOMADS.

<ftp://tgftp.nws.noaa.gov/SL.us008001/DF.c5/DC.etss/DS.mrpfq/> Note: FTP link works for FTP-enabled web browsers only

<https://tgftp.nws.noaa.gov/SL.us008001/DF.c5/DC.etss/DS.mrpfq/>

NCEP encourages users to ensure their decoders are flexible and are able to adequately handle changes in content order, changes in the scaling factor component within the product definition section (PDS) of the GRIB files, and any volume changes that may be forthcoming. These elements may change with future NCEP model implementations. NCEP will make every attempt to alert users to these changes prior to any implementations.

Any questions, comments, or requests regarding this implementation should be directed to the contacts below. We will review any feedback and decide whether to proceed.

For questions regarding these model changes, please contact:

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For questions regarding the data flow aspects, please contact:

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NWS Service Change Notices are available here:
<https://www.weather.gov/notification/>

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