

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, Users and 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  
eight 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 National Centers for Environmental Prediction (NCEP) Web Services

None.

4. NOAAPort/Satellite Broadcast Network (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 comma-separated values (CSV) files and Standard Hydrometeorological Exchange Format (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 website (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 the NOAA Operational Model Archive and Distribution System (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 gridded binary version two (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 [Service Change Notice \(SCN\) 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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National Service Change Notices are online at:

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

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