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PNSWSH

Service Change Notice 18-36 Updated
National Weather Service Headquarters Silver Spring MD
1025 AM EDT Fri Sep 21 2018

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

From: Dave Myrick
          NWS Office of Science and Technology Integration

Subject: Update: Probabilistic Tropical Cyclone Storm Surge
          (P-Surge) Update to NDGD NWS Web Service:
          Effective October 23, 2018

Updated to correct storm identification number as a sub-
directory on the NWS National Digital Graphical Database (NDGD)
Web Services. This update refers to the P-Surge upgrade on May
7, 2018. On October 23, 2018, NCEP will correct the routing of
data into that directory and users should be looking for NDGD
data in the following location:

http://tgftp.nws.noaa.gov/SL.us008001/ST.opnl/DF.gr2/DC.ndgd/CYC
/
ftp://tgftp.nws.noaa.gov/SL.us008001/ST.opnl/DF.gr2/DC.ndgd/CYC/

Where CYC is the cycle output time (00z, 06z, 12z, 18z)
And the sub-directory labeling with "basin" "storm ID" (al01,
al02, etc.) will be removed.

Effective on or about May 7, 2018, starting with the 1200
Coordinated Universal Time (UTC) cycle, the National Centers for
Environmental Prediction (NCEP) upgraded the Probabilistic
Hurricane Storm Surge model (P-Surge) to version 2.7.

P-Surge is based on an ensemble of Sea, Lake, and Overland Surge
from Hurricanes (SLOSH) model runs derived from the National
Hurricane Center (NHC) official advisory along with historic
errors in its track, size and intensity. P-Surge is run when
hurricane watches and/or warnings are in effect for the Atlantic
and Gulf Coasts of the continental United States and on a case-
by-case basis for tropical storms.

P-Surge version 2.7 includes the following updates:
- NOAAPORT/SBN major WMO header changes
- NDGD Web directory changes
- Removal of some probability of surge + tide products
- New exceedance products
- Updated climatological error statistics

NOAAPort/SBN Changes:

1. Begin disseminating extended forecast hours from hour 78 to
102 for the CONUS grid over NOAAPort.
2. Change every P-Surge WMO header to mimic the Probabilistic
Extra-Tropical Storm Surge (P-ETSS) structure.

A complete list of all new WMO Headers for all products can be
found here:
https://slosh.nws.noaa.gov/psurgeDocs/P-Surge-2.7-Headers.pdf

Web Product Changes:

The NWS NDGD Web Service:
http://tgftp.nws.noaa.gov/SL.us008001/ST.opnl/DF.gr2/DC.ndgd/
ftp://tgftp.nws.noaa.gov/SL.us008001/ST.opnl/DF.gr2/DC.ndgd/

The NCEP NOMADS Web Service:
http://nomads.ncep.noaa.gov/pub/data/nccf/com/psurge
ftp://ftp.ncep.noaa.gov/pub/data/nccf/com/psurge

1. NWS NDGD directory structure changes
   A. Adding "Cycle" sub-directories
   B. Change directory from "slosh" to "psurge"
NDGD Web Services: /DC.ndgd/GT.psurge/AR.conus/CYC/
Where CYC is the cycle run time

2. Generate new 90% exceedance products
   A. 6 hourly to hour 102, cumulative above ground level
      NDGD File: VD.agl/ds.psurgeexcd90cum.bin
      NCEP File:
psurge.tDATEz.IDYYYY_e90_cum_agl.hFFF.conus_625m.grib2
   B. 6 hourly to hour 102, incremental above ground level
      NDGD File: VD.agl/ds.psurgeexcd90inc.bin
      NCEP File:
psurge.tDATEz.IDYYYY_e90_inc_agl.hFFF.conus_625m.grib2
   C. 1 hourly to hour 102, incremental above NAVD-88 (datum)
      NDGD File: ds.psurgeexcd90inc.bin
      NCEP File:
psurge.tDATEz.IDYYYY_e90_inc_dat.hFFF.conus_625m.grib2
Where DATE is Year, Month, Day, Cycle; where ID is Storm
Identification; where YYYY is year; and where FFF is forecast
hour

3. Discontinue producing probability of surge + tide greater
than 20 feet above NAVD-88 (cumulative grouping)
      Remove NDGD File: ds.psurgeabvPP.bin
      Remove NCEP File:
psurge.tDATEz.IDYYYY_gtPP_cum_dat.hFFF.conus_625m.grib2
Where PP is the respective probability (21, 22, 23, 24, 25) for
0-80 hours and 0-102 hours

4. The output time of the meta file has changed to disseminate

at the end of the operational portion of the P-Surge run,
allowing it to be used as a trigger for downstream applications
by users.
    NDGD File: ds.psurge.txt
    NCEP File: psurge_DATE_IDYYYY.meta

A sample set of parallel data is available on the NCEP server
via the following URL:
http://para.nomads.ncep.noaa.gov

Graphical versions as well as ESRI shape files of the products
will be posted online at:
  http://slosh.nws.noaa.gov/psurge2.0

NCEP urges all users to ensure their decoders can handle changes
in WMO headers and volume changes. These elements may change
with future NCEP model implementations. NCEP will make every
attempt to alert users to these changes before implementation.

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 this notice, please contact

    Arthur Taylor
    NWS Meteorological Development Laboratory
    Silver Spring, MD
    301-427-9444
    Arthur.Taylor@noaa.gov
or

    Tatiana Gonzalez
    NWS Meteorological Development Laboratory
    Silver Spring, MD
    301-427-9500
    tatiana.gonzalez@noaa.gov

For questions regarding the data flow aspects, please contact:

    Carissa Klemmer
    NCEP/NCO Dataflow Team Lead
    College Park, MD
    301-683-0567
    ncep.list.pmb-dataflow@noaa.gov

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

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