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NOUS41 KWBC 211350
PNSWSH

Service Change Notice 20-10
National Weather Service Headquarters Silver Spring MD
850 AM EST Mon Jan 21 2020

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

From:     Grant A. Cooper
          Acting Director
          National Centers for Environmental Prediction

Subject: Implement Near Sea Surface Temperature to Replace RTGSST and
SSTOI, Including an Update to CDAS SST Output: Effective on or about
February 11, 2020

Effective on or about February 11, 2020, with the 1200 Coordinated
Universal Time (UTC) cycle, the National Centers for Environmental
Prediction (NCEP) will implement the Near Sea Surface Temperature (NSST)
version 1.0.0.  NSST will interpolate the Global Data Assimilation System
(GDAS) NSST foundation temperature analysis to generate SST analysis
files.  These files are currently produced by the Real-Time Global Sea
Surface Temperature (RTGSST) and Optimum Interpolation Sea Surface
Temperature (SSTOI) analyses.

The structure of the output files (location, name, records) will not
change with this upgrade; however, the input to NSST is GDAS 1200 UTC
surface analysis and 1200 UTC blended sea ice analysis, with surface
masks, monthly RTG SST climatology and monthly salinity climatology as
ancillary data sets to support the interpolation.  The input for the
current SST analyses is observations from surface marine platforms and
satellite retrievals supplemented by a sea ice concentration analysis.

The below data on NCEP Web Services will be impacted by this change:

The science used to generate files under the following directories will
change, but file structure will remain the same:
https://nomads.ncep.noaa.gov/pub/data/nccf/com/gfs/prod/sst.YYYYMMDD
ftp://ftp.ncep.noaa.gov/pub/data/nccf/com/gfs/prod/sst.YYYYMMDD

Where YYYY is year, MM is month, DD is day.
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The following files will be impacted by the science change and will also no longer include the relative error variance record:
https://nomads.ncep.noaa.gov/pub/data/nccf/com/cdas/prod/cdas.YYYYMMDD/cdas.t00z.sstgrb.grib2
ftp://ftp.ncep.noaa.gov/pub/data/nccf/com/cdas/prod/cdas.YYYYMMDD/cdas.t00z.sstgrb.grib2

Where YYYY is year, MM is month, DD is day and CC is the cycle.

The below World Meteorological Organization (WMO) headers will be impacted; science will change, but file structure will remain the same:

HTXA88 KWBC
ETWA88 KWBI

For questions regarding these SST production and dissemination changes, please contact:

    Vijay Tallapragada
    EMC Modeling and Data Assimilation Branch Chief
    vijay.tallapragada@noaa.gov

For questions regarding the data flow aspects of these data sets, please contact:

    Carissa Klemmer
    NCO Implementation and Data Services Branch Chief
    ncep.list.pmb-dataflow@noaa.gov

National Service Change Notices are online at:

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

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