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PNSWSH

Service Change Notice 21-72
National Weather Service Headquarters Silver Spring MD
1210 PM EDT Wed Aug 4 2021

To: Subscribers:
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 -Emergency Managers Weather Information Network
 -NOAAPort
 Other NWS Partners, Users and Employees

From: Daryl Kleist
 Chief, Data Assimilation and Quality Control Group
 Modeling and Data Assimilation Branch

Subject: RTMA, RAP, NAM, GFS and GDAS Sfcshp and Prepbufr Output File
Content Change Due to Addition of BUFR Format Ships and C-MAN Data:
Effective August 10, 2021

Effective August 10, 2021, the National Weather Service will deploy an upgrade to the observation processing to include Binary Universal Form for the Representation of meteorological data (BUFR) format ships and Coastal Marine Automated Network (C-MAN) platform data. The BUFR format is prioritized over Traditional Alphanumeric Codes (TAC) format in cases of duplicate reports. TAC format reports are retained when unique. This upgrade includes the following:

- The current Global Forecast System (GFS), Global Data Assimilation System (GDAS) and North American Mesoscale model (NAM) sfcshp BUFR dump files on National Centers for Environmental Prediction (NCEP) web services (NOAA Operational Model Archive and Distribution System (NOMADS) and ftpprd) will contain BUFR format ships and C-MAN platform data (NC001101, NC001113, and NC001104).
- The current GFS, GDAS and NAM sfcshp BUFR dump files on NCEP web services (NOMADS and ftpprd) will no longer contain Tide Gauge data (subset NC001005).
- New GFS, GDAS and NAM Tide Gauge (tideg) BUFR dump files will be available on NCEP web services (NOMADS and ftpprd).
- The sfcshp subset of the current GFS, GDAS, NAM, Rapid Refresh (RAP) and Real-Time Mesoscale Analysis (RTMA) prepbufr files will no longer have tide gauge data encoded from the legacy datastream. Instead, these tide gauge data encoded in prepbufr files will be originating from C-MAN platforms.

New Files:

With this upgrade, the following data types will be available on NCEP web services:

<https://nomads.ncep.noaa.gov/pub/data/nccf/com/gfs/prod/gfs.YYYYMMDD/CC/atmos>

<https://nomads.ncep.noaa.gov/pub/data/nccf/com/gfs/prod/gdas.YYYYMMDD/CC/atmos>

<ftp://ftpprd.ncep.noaa.gov/pub/data/nccf/com/gfs/prod/gfs.YYYYMMDD/CC/atmos>

<ftp://ftpprd.ncep.noaa.gov/pub/data/nccf/com/gfs/prod/gdas.YYYYMMDD/CC/atmos>

gfs.tCCz.tideg.tm00.bufr_d
gdas.tCCz.tideg.tm00.bufr_d

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

<ftp://ftpprd.ncep.noaa.gov/pub/data/nccf/com/nam/prod/nam.YYYYMMDD>

nam.tCCz.tideg.tm*.bufr_d

Discontinued Files:

No files are discontinued.

Altered Files:

With this upgrade, the content of the following data types will be altered on NCEP web services:

<https://nomads.ncep.noaa.gov/pub/data/nccf/com/gfs/prod/gfs.YYYYMMDD/CC/atmos>

<https://nomads.ncep.noaa.gov/pub/data/nccf/com/gfs/prod/gdas.YYYYMMDD/CC/atmos>

<ftp://ftpprd.ncep.noaa.gov/pub/data/nccf/com/gfs/prod/gfs.YYYYMMDD/CC/atmos>

<ftp://ftpprd.ncep.noaa.gov/pub/data/nccf/com/gfs/prod/gdas.YYYYMMDD/CC/atmos>

gfs.tCCz.sfcshp.tm00.bufr_d.nr
gfs.tCCz.prepbufr.nr
gdas.tCCz.sfcshp.tm00.bufr_d
gdas.tCCz.prepbufr.nr

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

<ftp://ftpprd.ncep.noaa.gov/pub/data/nccf/com/nam/prod/nam.YYYYMMDD>

nam.tCCz.sfcshp.tm*.bufr_d
nam.tCCz.prepbufr.tm*.nr

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

<ftp://ftpprd.ncep.noaa.gov/pub/data/nccf/com/rap/prod/rap.YYYYMMDD>

rap.tCCz.sfcshp.tm00.bufr_d.nr

rap.tCCz.prepbufr.tm00.nr

<https://nomads.ncep.noaa.gov/pub/data/nccf/com/rtma/prod>
<ftp://ftpprd.ncep.noaa.gov/pub/data/nccf/com/rtma/prod>

rtma_ru.YYYMMDD/rtma_ru.tCCCCz.prepbufr.tm00

NCEP encourages users to ensure their processing is flexible to adequately handle segregated tideg data, as well as increased file sizes for sfcshp and prepbufr data. Even though content within the files has changed, downstream file readers should not need to change in response.

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 any comments/feedback on the GPS-RO BUFR dump file upgrade at the Environmental Modeling Center (EMC), please contact:

Dr. Daryl Kleist
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For questions regarding the data flow aspects, please contact:

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ncep.pmb.dataflow@noaa.gov

National Service Change Notices are online at:

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

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