

NOUS41 KWBC 281650  
PNSWSH

Service Change Notice 24-60  
National Weather Service Headquarters Silver Spring MD  
1250 PM EDT Tue May 28 2024

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

From:         Ben Kyger, Director  
              NCEP Central Operations

Subject: New Data Available Publicly on NCEP Web Services; GFS, GDAS, and  
RAP BUFR Observations and U.S. Navy HYCOM: Effective May 22, 2024

Effective on May 22, 2024, the National Weather Service added data products to their National Centers for Environmental Prediction (NCEP) Web Services which include (1) an upgrade to the Observation Processing (ObsProc) software package to include high resolution (temporally and spatially) satellite wind observations and Binary Universal Form for the Representation (BUFR) formatted high resolution upper air radiosonde profiles, (2) removal of 0-byte sevcsr files and (3) add the U.S. Navy Hybrid Coordinate Ocean Model (HYCOM) products.

1) ObsProc v1.2 additions

Data will be available under the corresponding model subdirectory:

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

a) The new observations and corresponding BUFR dump files generated:

- GFS and GDAS \*satwhr\*.bufr\_d

It includes:

i) High temporal resolution (15-20 minute) National Environmental Satellite, Data, and Information Service (NESDIS) generated satellite Atmospheric Motion Vectors (AMVs) over the contiguous U.S. (CONUS).  
ii) Hurricane tailored high spatial and temporal resolution satellite AMVs over the domain of Tropical cyclones activity (a seasonal product).

- Global Forecast System (GFS), Global Data Assimilation System (GDAS), and Rapid Refresh (RAP) \*uprair\*.bufr\_d BUFR formatted high resolution upper air radiosonde profiles.

- GFS gfs.tCCz.TYPE.tm00.bufr\_d, Where TYPE is BUFR formatted files \*ahicsr\*, \*crisf4\*, \*crsfdb\*, \*gsrasr\*, \*gsrcsr\*, \*omi\*, \*ompslp\*, \*ompsn8\*, \*ompst8\*, \*satwhr\*, \*sevasr\*, \*uprair\*.

- GDAS gdas.tCCz.TYPE.tm00.bufr\_d, Where TYPE is BUFR formatted files \*ahicsr\*, \*avcsam\*, \*avcspm\*, \*crsfdb\*, \*gsrasr\*, \*gsrcsr\*, \*omi\*, \*ompslp\*, \*ompsn8\*, \*ompst8\*, \*satwhr\*, \*sevasr\*, \*uprair\*.

- RAP rap.tCCz.TYPE.tm00.bufr\_d, Where TYPE is BUFR formatted files \*gsrasr\*, \*gsrcsr\*, and \*uprair\*.

b) Updated contents in prepbufr files for:

- GFS, GDAS and RAP \*prepbufr\*.nr

The \*uprair\* observations will be added to the prepbufr's Automated Data Processing Upper Air (ADPUPA) component.

All of the above new and updated BUFR dump files will be generated at the temporal frequency of the existing observational products (CC is the analysis time).

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

2) Removal of GFS and GDAS \*sevcsr\* buffer files

The following zero (0) bytes files will no longer be sent to their corresponding ObsProc directories:

gfs.tCCz.sevcsr.tm00.bufr\_d  
gdas.tCCz.sevcsr.tm00.bufr\_d

Where CC is 00, 06, 12, 18.

3) Navy HYbrid Coordinate Ocean Model (HYCOM)

Data will be available here:

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

hycom\_glb\_regp01\_YYYYMMDD00\_tfff.nc.gz  
hycom\_glb\_regp06\_YYYYMMDD00\_tfff.nc.gz  
hycom\_glb\_regp07\_YYYYMMDD00\_tfff.nc.gz  
hycom\_glb\_regp17\_YYYYMMDD00\_tfff.nc.gz  
hycom\_glb\_sfc\_u\_YYYYMMDD00\_tfff.nc.gz

Where YYYYMMDD is the forecast date and fff is the forecasted hour.

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 BUFR dump file upgrade at the Environmental Modeling Center (EMC), please contact:

Dr. Daryl Kleist  
Chief, Data Assimilation and Quality Control Group  
NCEP Environmental Modeling Center  
College Park, MD  
Email: [daryl.kleist@noaa.gov](mailto:daryl.kleist@noaa.gov) or [obsproc\\_support@noaa.gov](mailto:obsproc_support@noaa.gov)

For questions regarding the data flow aspects, please contact:

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[ncep.pmb.dataflow@noaa.gov](mailto:ncep.pmb.dataflow@noaa.gov)

National Service Change Notices are online at:

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

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