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Service Change Notice 21-39  
National Weather Service Headquarters Silver Spring MD  
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To:           Subscribers:  
              -NOAA Weather Wire Service  
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              Other NWS Partners, Users and Employees

From:         Jason Levit  
              National Centers for Environmental Prediction  
              Environmental Modeling Center

Subject: Metadata Correction to 1-Hourly Climatology Calibrated  
Precipitation Analysis (CCPA) Product: Effective May 4, 2021

Effective on or about Tuesday, May 4, 2021, beginning with the 1200 Coordinated Universal Time (UTC) run, the National Centers for Environmental Prediction (NCEP) will correct a minor error in the 1-hourly Climatology Calibrated Precipitation Analysis (CCPA) product.

Following the implementation of the CCPAv4 upgrade on July 18, 2018, an error was found in the 1-hourly CCPA product under the 00 directory: an erroneous gridded binary (GRIB) reference date off by +24 hours. NCEP identified a bug in the code is implementing the fix. NCEP asked CCPA users to evaluate the fix and they confirmed the error has been corrected in the new version.

Affected output data are 1-hour accumulation files for the 00Z cycle only, named `ccpa.t00z.01h.GRID.conus.gb2`, where GRID is the spatial resolution including all six grids (`hrap`, `ndgd5p0`, `ndgd2p5`, `0p125`, `0p5` and `1p0`). XX is the accumulation ending time that consists of 19Z, 20Z, 21Z, 22Z, 23Z and 00Z.

The only changes are corrections to the reference date encoded in these GRIB files. Test data will be available at:

[ftp://ftp.emc.ncep.noaa.gov/gc\\_wmb/yluo](ftp://ftp.emc.ncep.noaa.gov/gc_wmb/yluo)

More information regarding the CCPA and its scientific implementation can be found at:

<http://journals.ametsoc.org/doi/abs/10.1175/JHM-D-11-0140.1>

[http://www.emc.ncep.noaa.gov/gmb/ens/NAEFS-5th/Session 3/Hou precipitation analysis.pdf](http://www.emc.ncep.noaa.gov/gmb/ens/NAEFS-5th/Session%203/Hou%20precipitation%20analysis.pdf)

[http://www.emc.ncep.noaa.gov/gmb/yzhu/imp/i201801/CCPAv4 upgrade 2017.pdf](http://www.emc.ncep.noaa.gov/gmb/yzhu/imp/i201801/CCPAv4_upgrade_2017.pdf)

NCEP encourages all users to ensure their decoders are flexible and are able to adequately handle changes in content order, parameter fields changing order, changes in the scaling factor component within the Product Definition Section (PDS) of the GRIB files and also any volume changes which 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 implementation.

Questions, comments or requests regarding this change should be directed to the contacts below. We will review feedback and decide whether to proceed.

For questions regarding these changes, please contact:

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For questions regarding the dataflow aspects of this data set, please contact:

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National Service Change Notices are online at:

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

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