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Service Change Notice 21-39
National Weather Service Headquarters Silver Spring MD
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To: Subscribers:
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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 GRIB reference date off by +24 hours.
NCEP identified a bug in the code is implementing the fix. NCEP
ask 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 gridded binary (GRIB) files.

Test data will be available at:

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

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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