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Technical Implementation Notice 11-22
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From: Tim McClung
 Chief, Science Plans Branch
 Office of Science and Technology

Subject: Global Ensemble CCPA Changes: Effective August 23, 2011

On or about Tuesday, August 23, 2011, beginning with the 1200 Coordinated Universal Time (UTC) run, the Climatologically Calibrated Precipitation Analysis (CCPA) product will be updated to include 3-hourly accumulations.

CCPA 3-hourly accumulated precipitation analyses are generated by splitting each 6-hourly accumulated precipitation analysis based on a ratio calculated from hourly Stage II (over the Northwest River Forecast Center) or Stage IV (over other continental U.S. (CONUS) River Forecast Centers) values at each Hydrologic Rainfall Analysis Project (HRAP) grid cell. The analysis is then interpolated from the HRAP grid to other grids. The 3-hourly CCPA covers the same domain as the 6-hourly analysis and is available on the same five output grids:

- HRAP Grid (same as the Stage IV grid).
- National Digital Forecast Database (NDFD) CONUS grid.
- 0.125 degree CONUS latitude/longitude grid (Grid ID 110).
- 0.5 degree latitude/longitude grid with data coverage over CONUS only.
- 1.0 degree latitude/longitude grid with data coverage over CONUS only (Grid ID 3).

For specifications of Grid IDs 3 and 110, see
<http://www.nco.ncep.noaa.gov/pmb/docs/on388/tableb.html>

The 6-hourly CCPA data is currently disseminated via the NCEP server and is available at:

<http://www.ftp.ncep.noaa.gov/data/nccf/com/gens/prod/gefs.YYYYMMDD/XX/ccpa/>
/
or
<ftp://ftp.ncep.noaa.gov/pub/data/nccf/com/gens/prod/gefs.YYYYMMDD/XX/ccpa/>

where YYYYMMDD is the date and XX is the model cycle. In addition to the currently existing 6-hourly files, on August 23rd, there will be two new files for each grid, corresponding to the two 3-hourly sub-periods.

Data delivery timing will be slightly impacted by this implementation as additional time will be needed to compute the 3-hourly analyses.

Test data will be available at:

ftp://ftp.emc.ncep.noaa.gov/gc_wmb/yluo/ccpa

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

[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_precipitation_analysis.pdf)

http://www.emc.ncep.noaa.gov/gmb/ens/ccpa_upgrade_08Mar2011.ppt

Disclaimer: NCEP would encourage 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 gridded binary (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.

For questions regarding these changes, please contact:

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

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