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Technical Implementation Notice 15-20
National Weather Service Headquarters Washington DC
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To: Subscribers:
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 -NOAA Weather Wire Service
 -Emergency Managers Weather Information Network
 -NOAAPort
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From: Tim McClung, Chief Operating Officer
 NWS Office of Science and Technology Integration

Subject: Distribution of CFS-DNG data via NOAAPort: Effective June 16, 2015

Effective June 16, 2015, NWS will add Climate Forecast System, Downscaled Numerical Guidance (CFS-DNG) temperature and precipitation data to NOAAPort. Details are at the site below:

<http://cfs.ncep.noaa.gov/cfsv2.info>

The CFS data being added to NOAAPort are the following:

minimum temperature (deg. K) at 2 meters above ground
maximum temperature (deg. K) at 2 meters above ground
precipitation rate (kg/m²/sec)

The data are available for each 6-hour time step from each forecast run in gridded binary version 2 (GRIB2) format. The forecast runs are made four times each day starting at 00Z, 06Z, 12Z and 18Z. The data will be available for the entire forecast horizon. The forecast horizon is variable from 279 days to 308 days; as a result, the time steps span from hour 0 to between 6696 hours and 7392 hours. The data are available for the entire globe on a Gaussian grid. This grid has a resolution of approximately 0.9375 degrees longitude and latitude but varies slightly near the poles.

The World Meteorological Organization (WMO) headers for the CFS products will be as follows:

Min Temperature: ZTCZ98 KWBF
Max Temperature: ZTCZ98 KWBF
Total Precipitation Rate: ZECZ98 KWBF

Note that these WMO headers will be used for all forecast hours. Users must use the values in the GRIB Product Definition Template (PDT) to determine for which forecast hour the data is valid.

Except for the addition of the data described above to NOAAPort, there are

no changes to current dissemination of CFS output. CFS output is available on the NCEP server via http and ftp at:
<http://www.ftp.ncep.noaa.gov/data/nccf/com/cfs/prod> and
<ftp://ftp.ncep.noaa.gov/pub/data/nccf/com/cfs/prod>

Also, CFS output from the previous 7 days is on NOAA National Operational Model Archive and Distribution System (NOMADS) at:
<http://nomads.ncep.noaa.gov/pub/data/nccf/com/cfs>

Users should ensure their decoders are flexible and can adequately handling changes in content, changes in the scaling factor component within the product definition section of the GRIB2 files, and any volume changes which may occur.

For questions concerning the CFS model, please contact:

Suranjana Saha
NCEP/Global Climate and Weather Modeling Branch
College Park, MD
Phone: 301-683-3727
Email: suranjana.saha@noaa.gov

For questions about the flow of this data, please contact:

Kelly Kempisty
NCEP/NCO Dataflow Team
College Park, MD
Phone: 301-683-0567
Email: ncep.list.pmb-dataflow@noaa.gov

National Technical Implementation Notices are online at:

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

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