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Service Change Notice 19-89
National Weather Service Headquarters Silver Spring MD
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From: Jon Gottschalck
 Chief, Operational Prediction Branch

Subject: CPC to Update Station-based Precipitation and Temperature Data
Files and Tables on or about January 31, 2020

On or about January 31, 2020, the NWS National Centers for Environmental Prediction (NCEP) Climate Prediction Center (CPC) will be updating its station-based precipitation and temperature data files and tables on its public website.

Previously, only a subset of the U.S. stations were available on the website with an archive of data going back seven days for daily summaries, six weeks for the weekly summaries and six months for the monthly summaries. CPC will be migrating the data to a new format using an interactive webpage that allows users to query daily, weekly and monthly-summarized station data from an archive beginning from July 2019.

All data currently available on the legacy page will be included on the new page, as well as additional variables. Coverage of the available stations will expand from a subset of the United States to global coverage. Files will still be available for direct download from the webpage.

The format of the files also will change. CPC will offer Comma Separated Value (CSV) files rather than fixed width text files. Users can find documentation on the station-based summaries on the website, including formatting information for ingest.

Current webpage:

https://www.cpc.ncep.noaa.gov/products/analysis_monitoring/cdus/prcp_temp_tables/

Current available variables:

Daily:
Minimum/maximum temperatures, reported precipitation, weather characters,
ID and city name

Weekly:

Station ID, average temperature, normal temperature, reported and normal precipitation, city name

Monthly:

Station ID, average temperature, normal temperature, reported and normal precipitation, city name

New variables (in addition to current):

Daily:

latitude, longitude, vapor pressure, vapor pressure deficit, sea level pressure, min/max relative humidity, wind speed, wind chill

Weekly:

latitude, longitude, average maximum and minimum temperature, number of days with maximum and minimum temperature reported, extreme maximum and minimum temperatures, number of days with precipitation, number of observations taken at station

Monthly:

latitude, longitude, number of years for temperature and precipitation normal, average maximum and minimum temperature, number of days with maximum and minimum temperature reported, extreme maximum and minimum temperatures, day of month with extreme temperatures, number of days with precipitation, number of observations taken at station

Current file versions:

Daily:

https://www.cpc.ncep.noaa.gov/products/analysis_monitoring/cdus/prcp_temp_tables/dly_glob1.txt

Weekly:

https://www.cpc.ncep.noaa.gov/products/analysis_monitoring/cdus/prcp_temp_tables/wly_glob1.txt

Monthly:

https://www.cpc.ncep.noaa.gov/products/analysis_monitoring/cdus/prcp_temp_tables/mly_glob1.txt

Examples of the new proposed format are located at:

Daily:

ftp://ftp.cpc.ncep.noaa.gov/cadb_v2/SCN_examples/daily_summary_20191017_v3.csv

Weekly:

ftp://ftp.cpc.ncep.noaa.gov/cadb_v2/SCN_examples/monthsum.dat.v3.csv

Monthly:

ftp://ftp.cpc.ncep.noaa.gov/cadb_v2/SCN_examples/weeksum.dat.v3.csv

For more information, please contact:

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National Service Change Notices are online at:

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

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