

CADB v2 Weekly Summary Output Documentation

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This document describes the weekly summary output files from the Climate Assessment Database (CADB). These files contain weekly summary values based on global station observations. The weekly summary file is updated every Sunday by 8am local eastern time (New York), and is based on the previous week's (Sunday-Saturday) data.

Background and changes

Below is a list of changes compared to the previous version of the weekly summary files:

- The station ID format is changed to have 6 characters in accordance with version 3 of the daily summary files (column 1).
- The full city name is added (column 3).
- The state abbreviation is added for U.S. sites (column 4); Region ID number is subsequently removed.
- The country name is added (column 5)
- The final day of the valid period used in the weekly summary is added (column 6).
- The latitude (column 7) and longitude (column 8) values now have a precision of 4 decimal places (ten-thousandths, i.e. 30.0000 deg N)
- The longitude values are modified to be in the range of -180 to 180 degrees East (as opposed to degrees West as in CADBv1) (column 8).
- The precipitation flag is no longer included

File name and formatting

weekly_summary_YYYY\$mm\$dd_v2.csv - ASCII file is comma-delimited. YYYY\$mm\$dd denotes the final valid day of the weekly summary (Example: The weekly summary that runs on 10/20/2019 uses data from the week 20191013-20191019 and produces an output file called weekly_summary_20191019_v2.csv) . Below contains more information about the content and format of the data.

Header - First row - contains column names.

Delimiter- Comma delimited with header of column names (CSV).

Missing values - A missing value for all variables is set to -99999

Column info:

Each of the columns in the file are listed in order below (left to right cols). Below info is formatted as:

Name of col - (unit, # decimals) description | Any related format info or notes

stn_id - (NA, NA) Station ID | Represented by 6 characters, prepending Metar station IDs (without a numeric only synoptic ID) with '99' (e.g. KCHO -> 99KCHO).

call - (NA, NA) Station call letters | 4 character identifier for each station

city - (NA, NA) City name. Does not contain commas, apostrophes, or spaces. May contain other symbols.

state - (NA, NA) United States state abbreviation. Represented by 2 characters. For non-U.S. locations this field value is denoted as a missing value.

country - (NA, NA) Country name. Does not contain commas, apostrophes, or spaces. May contain other symbols.

date - (date, NA) Valid date | Formatted as YYYYmmdd for the final day of the weekly summary (will be a Saturday)

lat - (deg N, ten-thousandths) Latitude of station | Values range from -90.0000 to 90.0000.

lon - (deg E, ten-thousandths) Longitude of station | Values range from -180.0000 to 180.0000. Negative values are treated as deg W.

elev - (meters, ones) Elevation of station.

atmp - (Deg C, tenths) Average temperature.

ntmp - (Deg C, tenths) Normal average temperature.

amax - (Deg C, tenths) Average maximum temperature.

nbmax - (int, NA) Number of days with maximum temperature reported

amin - (Deg C, tenths) Average minimum temperature.

nbmin - (int, NA) Number of days with minimum temperature reported

himax - (Deg C, tenths) Extreme maximum temperature.

lomin - (Deg C, tenths) Extreme minimum temperature.

totpcp - (mm, tenths) Precipitation total.

nmpcp - (mm, tenths) Normal precipitation total.

nbdypcp - (int, NA) Number of days with final precipitation value

nbtmp - (int, NA) Number of maximum/minimum temperature pairs times 2 (maximum value 14)

nbobs - (int, NA) Number of observations taken at station