Readme.pdf

URL based procedure to automatically download data in bulk from the Climate Data Online Website (https://climate.weather.gc.ca/)

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ENVIRONMENT AND CLIMATE CHANGE CANADA

To read this file online, please visit:

https://collaboration.cmc.ec.gc.ca/cmc/climate/Get_More_Data_Plus_de_donnees/

Folder: /Homebrew(MacOS)/Readme.pdf

Instructions on how to download all weather data for one station from Environment and Climate Change Canada's Climate website:

A daily updated list of Climate stations in the National Archive, including their Climate ID, Station ID, WMO ID, TC ID, and co-ordinates can be found in the following folder:

Get_More_Data_Plus_de_donnees > Station Inventory EN.csv

Use the following utility to download data:

• wget (GNU / Linux Operating systems)

• Cygwin (Windows Operating systems) https://www.cygwin.com

• Homebrew (OS X - Apple) http://brew.sh/

Example to download all available hourly data for Yellowknife A, from 1998 to 2008, in .csv format

Command line:

```
for year in `seq 1998 2008`;do for month in `seq 1 12`;do wget --content-disposition "https://climate.weather.gc.ca/climate_data/bulk_data_e.html?format=csv&stationID=1706&Year=${year}&Month=${month}&Day=14&timeframe=1&submit= Download+Data" ;done;done
```

WHERE;

• year = change values in command line (`seq 1998 2008)

• month = change values in command line (`seq 1 12)

• format= [csv|xml]: the format output

• timeframe = 1: for hourly data

• timeframe = 2: for daily data

• timeframe = 3 for monthly data

• Day: the value of the "day" variable is not used and can be an arbitrary value

• For another station, change the value of the variable stationID

• For the data in XML format, change the value of the variable format to xml in the URL.

Note: to download the hourly data in UTC rather than LTC, please add &time=utc after format=csv in the wget statement

For information in French, change Download+Data with ++T%C3%A9l%C3%A9charger+%0D%0Ades+donn%C3%A9es, also change _e with _f in the url.

For questions or concerns please contact us via Regional Climate Services:

https://climate.weather.gc.ca/contactus/climate_services_e.html

Region	Email
Nova Scotia, Prince Edward Island, New Brunswick, Newfoundland, Labrador	climatatlantique-climateatlantic@ec.gc.ca
Quebec, Ontario	climatcentre-climatecentral@ec.gc.ca
British Columbia, Yukon, Prairies, Northwest Territories, Nunavut	climatouest-climatewest@ec.gc.ca

Climate Data Online (CDO) Historical Climate Data Update Frequency:

- The derivations of MSC's daily data from hourly data are performed for each climate day, where the Climate Day (Day X) is defined as 0601UTC (Day X) to 0600UTC (Day X+1)
- Daily derivations are done twice per day (please refer to FAQ 17):
    - Calculations of daily values will occur twice during the day at 1000UTC and 1900UTC. The first run at 1000UTC will occur for all stations. The second run at 1900UTC will occur only for stations with late arriving values for that day and stations that have undergone hourly corrections in the MSC Archive QC tool.
- Hourly climate data on the Climate Data Online website is updated once per day.
- Monthly Climate Summaries data on the Climate Data Online is updated on the 5th day of the month (please refer to FAQ 16)