A quick guide on how to use Matlab netCDF functions
Prepared by HP Huang (hp.huang@asu.edu), Sept 2009. **Revised March 2015.** Please email HPH for any questions/comments.

A netCDF file contains two parts: A "header" that describes the names, dimensions, etc., of the variables stored in the file, and the main body that contains the real data. To process a netCDF file, we need to first extract the information in the header and determine what portion/segment of the data we want to use. This is usually done by using a set of stand-alone tools. This is, in fact, the more tedious task which we will discuss in Part (A). Once the content of a netCDF file is known, it is rather straightforward to read the data as will be discussed in Part (B).

(A) Inspect the content of a netCDF file

We will use the netCDF data file, **precip.mon.ltm.nc**, as an example to explain how the Matlab functions work. This file, extracted and downloaded from the the NOAA ESRL-PSD web portal (www.esrl.noaa.gov/psd), contains the CMAP gridded data for the long-term mean of monthly precipitation for the global domain. It contains the values of precipitation rate on a regular longitude-latitude grid for the climatological means for January, February, …, December.

Step 0: Display/check the header of the netCDF file

ncdisp("precip.mon.ltm.nc")

The output is listed in Appendix A.

Remark: The ncdisp command "dumps" out the whole header, which contains the essential information about the variables and their dimensions in the netCDF file. Running ncdisp is equivalent to running "ncdump –c" (see Appendix B) on Linux-based platforms. It is strongly recommended that the information in the header be examined before one uses the data in a netCDF file. In fact, just by carefully inspecting the header, one can skip many steps discussed in Step 2-4 in this section.

Step 1: Open the file

ncid1 = netcdf.open('precip.mon.ltm.nc','NC_NOWRITE')

Remark: This command "opens" a netCDF file named precip.mon.ltm.nc and assigns a file number to it. This file number is the sole output of the function and is put into our variable, ncid1, for later uses. The option 'NC_NOWRITE' designates that the file is read-only (that is what we need for now).

Steps 2-4 are often not necessary if one has already obtained the needed information about specific variables by running ncdisp in Step 0.

Step 2: Inspect the number of variables and number of dimensions, etc., in the file

[ndim, nvar, natt, unlim] = netcdf.inq(ncid1)

ndim = 3

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