A quick guide on how to use Matlab netCDF functions

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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

nedisp('precip.mon.ltm.ne')

The output is listed in Appendix A.

Remark: The nedisp command "dumps" out the whole header, which contains the essential information about the variables and their dimensions in the netCDF file. Running nedisp is equivalent to running "nedump -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 = netedf.open('precip.mon.ltm.ne','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 nedisp 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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