

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

```
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
```

Matlab Netcdf Toolbox User Guide

Ensheng Dong



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