
Subject: Re: Add a new variable to netCDF file?

Posted by [Paul Van Delst\[1\]](#) on Tue, 25 Oct 2011 13:37:55 GMT

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Hello,

Ashley Berg wrote:

> So, I know how to overwrite a variable in a netCDF file, but how do I
> add a new one?
>
> I have a netCDF file with about 30 variables and I want to add two new
> ones. It would be a pain to have to copy over all 30 vars plus the
> new ones into a new file, so is there a way to add variables using the
> netCDF operators? I've been experimenting but haven't been able to
> find a way to do it (when I try to write a new variable to the file,
> it complains that it can't find the variable, which implies it's
> looking to overwrite an existing one rather than tack on the new one).

0) Open the existing file for writing (NCDF_OPEN)
1) Put the netcdf file in DEFINE mode (NCDF_CONTROL)
2) If required, define new dimensions (NCDF_DIMDEF)
3) Define the new variable (NCDF_VARDEF)
4) Repeat 2-3 as necessary for multiple dimensions/variables.
5) Put the netcdf in DATA mode (NCDF_CONTROL)
6) Write the new variable data to the file (NCDF_VARPUT)
7) Repeat 7 as necessary for multiple variables.
8) Close the file (NCDF_CLOSE)

cheers,

paulv

>
> Thanks!
