

All,

I have been attempting to use some of the information I have gathered in this group (From Paul V. on 10/25/2011) to add a couple of variables to my netCDF file (it is a CFradial format, if that matters). I'm running into problems, and I believe the root of it all are the dimensions -- getting them and adding one more. So, this file is open:

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;1) Put the netcdf file in DEFINE mode (NCDF_CONTROL)
NCDF_CONTROL, netid, /REDEF
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;2) If required, define new dimensions (NCDF_DIMDEF)
;This is the only dimension that is not already defined:
three_el_dim=NCDF_DIMDEF(netid, 'three', three_elev_ang)
;PROBLEM #1: I cannot define this new dimension: "% NCDF_DIMDEF: Unable to create
dimension, name in use by another dimension (three)."
```

;The name "three" was not used anywhere else in my script, tried several other random string here and it breaks there every time.

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;Problem #2: I cannot use the dimensions that already exist. I have tried using the outputs from
NCDF_DIMINQ and would get errors in the "NCDF_VARDEF" telling me "% NCDF_VARDEF:
Unable to define variable, bad dimension id ." so I decided to create new dimensions (I would
rather not, but will if I have to!). These are the same size as the existing dimensions:
t_dim=NCDF_DIMDEF(netid,'times', time_dim)
r_dim=NCDF_DIMDEF(netid,'ranges', range_dim)
The error here is the same as above: "% NCDF_DIMDEF: Unable to create dimension, name in
use by another dimension"
```

;For the sake of completeness, here are the other things I'm doing:

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;3) Define the new variable (NCDF_VARDEF)
;Trying to use the dimensions that are already defined in the file but failed, these are here with the
dimensions I tried to create:
LWCid = NCDF_VARDEF(netid, 'LWC',[t_dim, r_dim])
;errors: "% NCDF_VARDEF: Unable to define variable, name in use by another variable (LWC)." I
thought: Sure, that's the name of my variable, so I changed 'LWC' to 'aLWC' and now am getting a
different error: "% NCDF_VARDEF: Unable to define variable, bad dimension id ." ... maybe this
means that when I get my dimensions issues figured out this error will fix itself??
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;This variable has the new dimension I tried to define but failed:
Rid = NCDF_VARDEF(netid, 'Rain_rate', [three_el_dim, R_DIM])
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;4) Repeat 2-3 as necessary for multiple dimensions/variables.
;5) Put the netcdf in DATA mode (NCDF_CONTROL)
NCDF_CONTROL, netid, /ENDEF
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;6) Write the new variable data to the file (NCDF_VARPUT)
NCDF_VARPUT, netid, LWCid, LWC
NCDF_VARPUT, netid, Rid, R
;error: % NCDF_VARPUT: Variable Inquiry failed, -1 is not a valid variable id.
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;7) Repeat 6 as necessary for multiple variables.
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;8) Close the file (NCDF_CLOSE)
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NCDF_CLOSE, netid
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Any help would be appreciated!

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