
Subject: Re: routine for GRIB data

Posted by [R.G.S.](#) on Tue, 03 Jul 2001 16:16:57 GMT

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Kwangwoo <kwcho@kei.re.kr> wrote in message

news:86fe0ca1.0107022006.5d36b49a@posting.google.com...

> I am looking for a IDL routine which can read the GRIB format data
> file. The data I would like to read now is the NCEP reanalysis data
> (monthly mean UFLUX and VFLUX). I appreciate for your cooperation.

>

> Kwangwoo

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> -----

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> -----

I use the NetCDF ncep files. They are large, but IDL handles the NetCDF nicely.

Below is an example piece of code that will print out file information from a NCEP NetCDF file.

The ftp site is:

[archive.cdc.noaa.gov](ftp://archive.cdc.noaa.gov)

and data on pressure levels can be found at:

[/Datasets/archive0/ncep.reanalysis/pressure/](ftp://Datasets/archive0/ncep.reanalysis/pressure/)

Note: archive0 is for a certain time period, also check archive1,archive2 etc...

Cheers,

bob stockwell

colorado research associates

; open and read the (HUGE) netcdf file

Filename = ' put file name here!!'

Cdfid = NCDF_OPEN(Filename)

glob = NCDF_INQUIRE(Cdfid)

print

print, '_____ glob _____'

help, glob, /st

print

print

print, '_____ info _____'

print, ' : ' i ' : ' : ' name ' : ' : ' size '

names = strarr(glob.ndims)

sizes = lonarr(glob.ndims)

for i = 0, glob.ndims-1 do begin

NCDF_DIMINQ, Cdfid, i, Name, Size

names(i) = name

sizes(i) = size

print, i, ' : ' name, ' : ' size

endfor

help, Cdfid

print

print, '_____ Variables _____'

for i=0, glob.nvars-1 do begin

; Get information about the variable

info = ncdf_varinq(cdfid, i)

FmtStr = '(A, " (", A, ") Dimension Ids = [", 10(I0, " "), \$)'

print, FORMAT=FmtStr, info.name, info.datatype, info.dim[*]

print, ']'

; Get attributes associated with the variable

for j=0, info.natts-1 do begin

attname = ncdf_attname(cdfid, i, j)

ncdf_attget, cdfid, i, attname, attvalue

print, ' Attribute ', attname, ' = ', string(attvalue)

endfor

endfor

levelid = NCDF_VARID(Cdfid, 'level')

NCDF_VARGET, Cdfid, levelid, level

help, level

```
levelid = NCDF_VARID(Cdfid, 'lon')  
NCDF_VARGET, Cdfid,levelid, lon  
help,lon
```

```
levelid = NCDF_VARID(Cdfid, 'lat')  
NCDF_VARGET, Cdfid,levelid, lat  
help,lat
```

```
levelid = NCDF_VARID(Cdfid, 'time')  
NCDF_VARGET, Cdfid,levelid, time  
help,time
```

```
NCDF_CLOSE, Cdfid
```

```
end
```
