Subject: Re: Extract pixel values from HDF-EOS file
Posted by Snow53 on Mon, 26 Jul 2010 14:13:23 GMT
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On Jul 23, 4:17 pm, Snow53 <jennifer_wa...@hotmail.com> wrote:
> Hello all. I'm now trying to work with HDF-EOS files. I've been using
> the IDL guide as a reference in trying to make this work. My data are
> associated with lat, long coordinates. These data originated from
> MODIS swath files (HDF4), but were converted to lat/long gridded HDF-
> EOS using ModisTool. In reading the IDL guide, it looks like I need to
> define the grid system for my file, attatch the grid to my file, and
> then I can use EOS_GD_GETPIXVALUES (?) to extract pixel data. I've
> tried to set this project up as follows; currently I'm getting stuck
> at EOS_GD_CREATE (apparently I haven't created the grid properly).
> Would anyone be willing to do a quick read-through and throw out
> thoughts or suggestions?
>
> Thanks!
>
> pro hdftest1
>
> ; open and extract data from MODIS HDF-EOS file
> path = 'X:\MODIS_GPP\Lena\2003\test\'
>
> file_array=file_search(path, '*.hdf', count=num_file)
> file=file_array
>
> print, num_file
> ;print, file
>
> for i=0, num_file-1 do begin
> file_name=file_basename(file[i], '.hdf')
> ;print, file_name
>
> fid=EOS_GD_OPEN(file[i], /READ)
>
> upx=172.763114356
> upy=79.9999999993
> lrx=116.952175961
> lry=69.99999994
> ydim=1110
> xdim=10239
>
> gridname='geo'
> gridID=EOS_GD_CREATE (fid, gridname, xdim, ydim, [upx, upy], [lrx,
> lry]) ; this part isn't working. need to fix. failed .
> print, gridID
>

> ;gridname=EOS_GD_INQGRID(file[i], gridlist)
> ;print, gridlist
>
> out=EOS_GD_ATTACH(fid, gridname)
> print, out
>
> pixCol=[2,2]
> pixRow=[2,2]
>
> result=EOS_GD_GETPIXVALUES (out, 1, pixCol, pixRow,'Gpp_1km', buffer)
> print, result
>
> print, buffer
>
> status=EOS_GD_CLOSE(fid)
> endfor
> end

Still trying to get the EOS_GD_CREATE to work. I've attempted to
change the format to the following, but still no luck.
fid=EOS_GD_OPEN(file[i], /RDWR)
;print, fid

upl=dblarr(87.74131944, 80)

lowr=dblarr(179.957375, 70)

ydim=1110
xdim=10239

gridname='geo'
gridID=EOS_GD_CREATE(fid, gridname, xdim, ydim, upl, lowr) ; this
part isn't working. need to fix. failed .
print, gridID
