Subject: Re: Extract pixel values from HDF-EOS file
Posted by Snow53 on Mon, 26 Jul 2010 15:16:04 GMT
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On Jul 26, 8:13 am, Snow53 <jennifer_wa...@hotmail.com> wrote:
> 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- Hide quoted text -
>
>  - Show quoted text -
```

Ok, got that part working. Now trying to figure out why this attach
grid won't work.

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)
print, fid
ffid=fid
upl=[87.74131944, 80]

lowr=[179.957375, 70]

ydim=1110
xdim=10239

gridname='geo'
gridID=EOS_GD_CREATE(ffid, gridname, xdim, ydim, upl, lowr)
print, gridID




out=EOS_GD_ATTACH(ffid, gridname)
print, ffid
print, gridname
```