Subject: Extract pixel values from HDF-EOS file
Posted by Snow53 on Fri, 23 Jul 2010 22:17:02 GMT
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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
```