Subject: a little tip for reading modis data Posted by bjy512 on Tue, 08 Aug 2017 05:55:54 GMT

View Forum Message <> Reply to Message

Hi, my name is Juyeon and i am newbie using idl.

i am working on my thesis paper which is related to dealing with the MODIS/TERRA sensor to retrieve AOD data.

i was strugling for whole day some error occured in my code.

```
for i=0l,terra-1l do begin
```

```
openw,lun,'/data/AOT_thesis_data/AOD_MODIS/MOD04/correct_m'+
name(i)+'.txt',/get_lun,/append
print,i
sds_name='Optical_Depth_Land_And_Ocean'
sd_id=hdf_sd_start(filelist1(i),/read)
sds_index=hdf_sd_nametoindex(sd_id,sds_name)
sds_id=hdf_sd_select(sd_id,sds_index)
...
(there was code to retrieve latitude and longitude in here!)
```

```
...
         for o=0l,cnt-1l do begin
82
83
              for p=0, n-1 do begin
84
                   if ((abs(slon(p)-lon(o)) le 0.1) and (abs(slat(p)-lat(o)) le 0.1)) then begin
                         printf,lun,day_terra(i),hour_terra(i),min_terra(i),aod(o),lo
85
n(0),lat(0),stn(p),f='(i4,2x,i2,2x,i2,2x,d14.10,2x,d9.5,2x,d9.5,2x,i7)'
86
                   endif
87
              endfor
        endfor
88
89
90
         endif
91
         hdf sd endaccess,sds id
92
         hdf sd endaccess,lon id
93
         hdf sd endaccess,lat id
94
         hdf_sd_end,sd_id
         free lun,lun
95
96
         endfor
```

basically i wanted to shirink the data due to its too big size to use. so i had to write data in other place.

but the error kept coming up looking just like below

HDF_SD_START error : invalid hdf file

I had searched all over in google but i could not find the answer.

but luckly i found the solution!!

if you are writing the information in other text file or such file, than you should write 'free_lun,lun' in exact place it has to be.

In my case i first i wrote free_lun,lun after the 96 row after the endfor, and error didn't stop.

so if you have a problem similar to mine, then look carefully your code again.

You will definitely find your solution!

cheers~!