
Subject: Re: skip the corrupted hdf file and continue the for loop for uncorrupted hdfs

Posted by [Brent Fallarcuna](#) on Tue, 28 Jan 2014 05:14:03 GMT

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On Monday, January 27, 2014 4:22:26 PM UTC+8, Brent Fallarcuna wrote:

> Hello everyone!

>

>

>

> I'm extracting values on a specific pixel from hundreds of hdf files and used for loop.

>

>

>

> This is my code:

>

>

>

> ;Daily NPP/GPP Plotting

>

> cd, ('C:\Users\Brent\Documents\NPP Annual Files\MODIS17A2v5')

>

> filelist = file_search('*.h29v07.005.*.hdf')

>

> i = 0

>

> arr = strarr(1,637)

>

>

>

> FOR i = 0, 636 DO BEGIN

>

> ; Open HDF and Import SDS

>

> filename = filelist[i]

>

>

>

> ;access hdf file

>

> hdf_id = hdf_sd_start(filename);this is where my program stops

>

>

>

> ;return the index of 'Npp_1km' variable

>

> index = hdf_sd_nametoindex(hdf_id, 'PsnNet_1km')

>

```
>
>
> ;access the dataset
>
> varid = hdf_sd_select(hdf_id, index)
>
>
>
> ;read the contents of the variable
>
> hdf_sd_getdata, varid, data
>
>
>
> ;endaccess
>
> hdf_sd_endaccess, varid
>
> hdf_sd_end, hdf_id
>
>
>
> ;rotate hdf
>
> data = rotate(data, 7)
>
> ;scale the data
>
> kaliwa_tile = data * (0.0001)
>
> point = kaliwa_tile[880,566]
>
>
>
> print, point
>
> arr[0,i] = point
>
> ENDFOR
>
>
>
> cd, ('C:\Users\Brent\Documents\MOD17A3UTM')
>
> openw, lun, 'outputfilefor8dayPsnNet1km.csv', /get_lun
>
> printf, lun, arr, format= '(a)'
>
```

```
> close, lun
>
> free_lun, lun
>
>
>
> END
>
>
>
>
> After the values from several hdfs are printed, there's an error on the console saying
"HDF_SD_START: Unable to start the HDF-SD interface."
>
> As I checked the variables tab, the i stopped at the 24th hdf file. As I checked the file using hdf
browser, it didn't open, thus the file seems to be corrupted.
>
>
>
> My question is, can I continue my for loop and proceed reading the other uncorrupted hdf files
every time I got the said error?
>
>
>
> I've tried catch statement but I can't figure it out on how to use and implement it correctly.
>
>
>
>
>
> Brent
```

Hello.

I've run this code, wherein I inserted the for loop. The output on the command line says
"MOD17A2.A2000065.h29v07.005.2010162162935.hdf
Attempt to subscript FILENAME with K is out of range." and it only prints a single value.

Perhaps IDL is confused with my code structure. Is it ok to use for loop within the for loop?
What I needed is to identify those corrupted files (to re-download them again) and put the values
in my csv output file.

```
;Daily NPP/GPP Plotting
```

```
cd, ('C:\Users\Brent\Documents\NPP Annual Files\MODIS17A2v5')
```

```

filelist = file_search('*.*.h29v07.005.*.hdf')

k = 0
arr = strarr(1,637)

FOR k = 0, 636 DO BEGIN
; Open HDF and Import SDS
filename = filelist[k]

    for i=0, 636 do begin ;<====This is where I inserted the for loop
;establish error handler
catch, error
if error ne 0 then begin
    print, filename[i]
    print, !error_state.msg
;continue with next item in loop if error was encountered
    catch, /cancel
    continue
endif
;access hdf file

hdf_id = hdf_sd_start(filename[k])
catch, /cancel
;Do other stuff with file here if no error was encountered.

;return the index of 'Npp_1km' variable
index = hdf_sd_nametoindex(hdf_id, 'PsnNet_1km')

;access the dataset
varid = hdf_sd_select(hdf_id, index)

;read the contents of the variable
hdf_sd_getdata, varid, data

;endaccess
hdf_sd_endaccess, varid
hdf_sd_end, hdf_id

;rotate hdf
data = rotate(data, 7)
;scale the data
kaliwa_tile = data * (0.0001)
point = kaliwa_tile[880,566]

print, point
arr[0,k] = point
endfor
ENDFOR

```

```
cd, ('C:\Users\Brent\Documents\MOD17A3UTM')
openw, lun, 'outputfilefor8dayPsnNet1km.csv', /get_lun
printf, lun, arr, format= '(a)'
close, lun
free_lun, lun
```

END

Brent
