
Subject: Re: MOD43B3 Col.4 Processing. unexpected error message. why?

Posted by [kim20026](#) on Sat, 14 Jul 2007 02:20:56 GMT

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Thank you James and Devin for your excellent suggestions and comments!!! I also made it without any errors. I think the problem was that I used too many `envi_file_query` statements.

There was no difference between using integer and float for albedo. However, as Devin suggested, MOD43B3 albedo is stored as integer. I have no reason to use floating point for this... To avoid other unexpected errors, I need to use integer for albedo from now on.

Here is my final code.

PRO MOD43B3_MakeImage_1km_final

```
WorkDir = 'd:\MODIS_ALL\  
WorkDirOut = 'd:\MODIS43\Processed\  
batch_st = strcompress(WorkDir + 'batch_MOD43.txt', /remove_all)  
WorkDirSat = 'D:\MODIS43\MOD43\  
StrMOD = 'MOD43'
```

```
albedo = intarr(2, 10, 1200, 1200)
```

```
albedo_black = intarr(1200,1200)  
albedo_white = intarr(1200,1200)
```

```
qc = ulonarr(2, 1200, 1200)  
qc1 = ulonarr(1200, 1200)  
qc2 = ulonarr(1200, 1200)
```

```
OpenR, lun, batch_st, /Get_Lun  
numdates = file_lines(batch_st)  
Dates = StrArr(numdates)
```

```
; Read input dates from batch file
```

```
OpenR, lun, batch_st, /Get_lun  
ReadF, lun, Dates
```

```
Free_Lun, lun, /force
```

```
close, /all
```

```
FOR j = 0L, numDates-1 DO BEGIN
```



```

    r_fid=albedo_black_map, sensor_type=32, interleave = 0

    ENVI_WRITE_ENVI_FILE, albedo_white,
out_name='albedo_white_map.img', map_info=map_info, out_dt=4,$
    r_fid=albedo_white_map, sensor_type=32, interleave = 0

    envi_file_query, albedo_black_map, ns=ns, nl=nl, nb=nb
    dims = [-1, 0, ns-1, 0, nl-1]
    pos_albedo_black = lindgen(nb)

;-----
; qc1 and qc2

    ENVI_WRITE_ENVI_FILE, qc1 , out_name='qc1_map.img',
map_info=map_info, out_dt=2, $
    r_fid=qc1_map, sensor_type=32

    ENVI_WRITE_ENVI_FILE, qc2 , out_name='qc2_map.img',
map_info=map_info, out_dt=2, $
    r_fid=qc2_map, sensor_type=32

    envi_file_query, qc1_map, ns=ns, nl=nl, nb=nb
    dims = [-1, 0, ns-1, 0, nl-1]
    pos_qc1 = lindgen(nb)

; 2. Convert SIN to TM Korea
; Names of MODIS products

; MOD11A1.A2002001.h28v05.004.2003182143054.hdf
; MOD07_L2.A2003148.1150.004.2003173192335.hdf
; MOD43B3.A2002177.h28v05.004.2003246195929.hdf

StrDate = STRMID(Dates[jj], 9, 7)
StrSat = STRMID(Dates[jj], 0, 7)

    out_name_Albedo_black = WorkDirOut+StrSat+'\'+StrDate+'\'+StrDate
+'_albedo_black_1km'+'.img'
    out_name_Albedo_white = WorkDirOut+StrSat+'\'+StrDate+'\'+StrDate
+'_albedo_white_1km'+'.img'
    out_name_QC1 = WorkDirOut+StrSat+'\'+StrDate+'\'+StrDate
+'_QC1_1km'+'.img'
    out_name_QC2 = WorkDirOut+StrSat+'\'+StrDate+'\'+StrDate
+'_QC2_1km'+'.img'

;-----
; Converting to Korea TM

    DATUM = 'Tokyo mean'

```

```
Projection_Name2= 'Korea - TM (Middle)'
Params2 = [6377397.2, 6356079.0, 38.000000D, 127.002890D,
200000.0, 500000.0, 1.000000]
```

```
OUT_Proj = ENVI_PROJ_CREATE(type=3, name=Projection_Name2,
datum=Datum, params=Params2)
```

```
;-----
; albedo black and white
```

```
envi_convert_file_map_projection, fid=albedo_black_map,
pos=pos_albedo_black, dims=dims, o_proj=OUT_Proj, $
o_pixel_size=[1000, 1000], out_name=out_name_albedo_black,
warp_method=2, r_fid=albedo_black_TM, $
resampling=0, background=0
```

```
envi_convert_file_map_projection, fid=albedo_white_map,
pos=pos_albedo_black, dims=dims, o_proj=OUT_Proj, $
o_pixel_size=[1000, 1000], out_name=out_name_albedo_white,
warp_method=2, r_fid=albedo_white_TM, $
resampling=0, background=0
```

```
;-----
; qc1 and qc2
```

```
envi_convert_file_map_projection, fid=qc1_map, pos=pos_qc1,
dims=dims, o_proj=OUT_Proj, $
o_pixel_size=[1000, 1000], out_name=out_name_QC1, warp_method=2,
r_fid=qc1_TM, $
resampling=0, background=0 ; NOTICE fid=qc1_map!
```

```
envi_convert_file_map_projection, fid=qc2_map, pos=pos_qc1,
dims=dims, o_proj=OUT_Proj, $
o_pixel_size=[1000, 1000], out_name=out_name_qc2, warp_method=2,
r_fid=qc2_TM, $
resampling=0, background=0 ; NOTICE fid=qc2_map!
```

```
Close, /all, /force
```

```
;-----
; Cleaning memory
;envi_file_mng, id= albedo_black_map, /remove
;envi_file_mng, id= albedo_white_map, /remove
;envi_file_mng, id= albedo_qc1_map, /remove
;envi_file_mng, id= albedo_qc2_map, /remove
```

```
;-----
```

```
; Done with SDS, close the interface  
HDF_SD_ENDACCESS, SDSID_albedo  
HDF_SD_ENDACCESS, SDSID_qc
```

```
HDF_SD_END, sdFileID  
HDF_Close, FileID
```

```
ENDFOR
```

```
print, "Look's O.K!!!"  
Free_Lun, lun, /force
```

```
END
```
