
Subject: Re: problem with subset one image by another

Posted by [negra](#) on Fri, 28 Mar 2008 15:30:05 GMT

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> negra wrote:

>>> Without more details about what you want to do it is difficult,
>>> bordering upon impossible, for us to give you any useful advice about
>>> how to do it.

>

>> here is idl routine what I written. The beginning of it, is working.

>> pro spat_subset

>> cd, 'C:\Scandata\L1a'

>> HKMfiles = FILE_SEARCH('MOD02HKM.*.img',count=numfiles)

>> PRINT, '# NDSI files:',N_ELEMENTS(FILE_SEARCH('MOD02HKM.*.img'))

>> print, FILE_SEARCH(HKMfiles)

>> for j=0,numfiles-1 DO BEGIN

>> HKM_name = HKMfiles[j]

>> print,HKM_name

>> ;first restore all base save files

>> ;

>> envi, /restore_base_save_files

>> ;

>> ;Initialize ENVI and send all errors and warnings to the file

>> batch.txt

>> ;

>> envi_batch_init, log_file='batch.txt'

>> ;

>> ;Open the input files

>> ;kz_hkm mask file

>> envi_open_file, 'C:\Scandata\L1A\mask\kz_hkm', r_fid=file1_fid

>> if (file1_fid eq -1) then begin

>> envi_batch_exit

>> return

>> endif

>> envi_open_file,'C:\Scandata\L1A\' + HKMfiles[j], r_fid=file_fid

>> if (file_fid eq -1) then begin

>> envi_batch_exit

>> return

>> endif

>> envi_file_query, file1_fid, dims=file1_dims, ns=file1_ns, nl=file1_nl,

>> nb=file1_nb

>> file1_dims = [-1L,0,file1_ns-1,0,file1_nl-1]

>> file1_mapinfo = envi_get_map_info(fid=file1_fid)

>> print, file1_mapinfo

>> file1_xf = [0,file1_ns-1]

>> file1_yf = [0,file1_nl-1]

>> envi_convert_file_coordinates, file1_fid, file1_xf, file1_yf,

```

>> file1_xmap, file1_ymap, /to_map
>> print, 'UL corner:',file1_xmap[0],file1_ymap[0]
>> print, 'LR corner:',file1_xmap[1],file1_ymap[1]
>> ;Longitude 44.39011111 - 88.38219444
>> ;Latitude 36.20264722 - 56.35832500
>> ;subset #1
>
>> envi_file_query, file_fid, dims=file_dims, ns=file_ns, nl=file_nl,
>> nb=file_nb
>> file_dims = [-1L,0,file_ns-1,0,file_nl-1]
>> file_mapinfo = envi_get_map_info(fid=file_fid)
>> print, file_mapinfo
>> pos = lindgen(file_nb)
>> out_namea = HKMfiles[j]+'subset.img'
>> file_mapinfo = envi_get_map_info(fid=file_fid)
>> _xfactor = file1_mapinfo.ps[0]/file_mapinfo.ps[0]
>> _yfactor = file1_mapinfo.ps[1]/file_mapinfo.ps[1]
>> print, [_xfactor, _yfactor]
>
>> file_xf = [0,file_ns-1]
>> file_yf = [0,file_nl-1]
>> envi_convert_file_coordinates, file_fid, file_xf, file_yf, file_xmap,
>> file_ymap, /to_map
>
> you have to do the opposite: take the projected coordinates of the mask
> image, and convert it to the Cartesian coordinate of the image to subset.
>
> then, don't do the "resize", as you are just changing the pixel size and
> not the covered area. do subset =
> image[maskXmin:maskXmax,maskYmin:maskYmax]
>
> Jean
>
>
>
>> print, 'UL corner:',file_xmap[0],file_ymap[0]
>> print, 'LR corner:',file_xmap[1],file_ymap[1]
>> ;Longitude 63.29925556 - 106.42788056
>> ;Latitude 42.01251944 - 64.14574167
>> ; I have coordinates of image corners
>

```

It's write that something wrong but I don't know how will be right.
Where is mistake?

```

pos = lindgen(file_nb)
input = ENVI_GET_DATA(fid=file_fid, dims=file_dims, POS=pos)
;

```

```
subset = input[file1_xf[0]:file1_xf[1], file1_yf[0]:file1_yf[1]]  
out_names = 'subset.img'  
ENVI_WRITE_ENVI_FILE, subset, DATA_TYPE=4 , OUT_NAME=out_names,  
R_FID=s_fid
```
