Subject: Re: problem with subset one image by another
Posted by negra on Thu, 27 Mar 2008 15:40:16 GMT
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>
> 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
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

;-------------------------------------
;here I think must have somthing like this, but I'm not sure
if  file_xmap[0]< file1_xmap[0]then file1_xmap[0] else file_xmap[0]
if  file_xmap[1]> file1_xmap[1]then file1_xmap[1] else file_xmap[1]
if  file_ymap[0]< file1_ymap[0]then file1_ymap[0] else file_ymap[0]
if  file_ymap[1]> file1_ymap[1]then file1_ymap[1] else file_ymap[1]
then I think must been calculation number of pixels

;-----------------------------------------------------
envi_doit, 'resize_doit', $
   fid=file_fid, pos=pos, dims=file_dims, interp=0, rfact=[_xfactor,
_yfactor], $
   out_name=out_namea, r_fid=file2_fid
endfor
end
```