
Subject: subset an image programatically

Posted by [Javier Martinez](#) on Sat, 31 Dec 2005 14:34:11 GMT

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Hi everyone,

this is my first post, I'm not a programmer and I'm trying to subset a series of images with vector files in evf format. Looking the envi and IDL help files and some code that I found in this group, I write the code below, and it works properly but not completely. In the final part where I write the envi file I obtain an image with all the roi data in a single line (more than 14000 samples) and I need the data in the original geographical shape (obviously).

Thanks in advance for any help that you can give me

happy new year for all you guys

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```
pro batch_roi
envi,/restore_base_save_files
envi_batch_init, log_file='log.txt'
```

```
envi_open_file, 'image', r_fid=fid
envi_file_query, fid, ns=ns, nl=nl, nb=nb
```

```
map_info = envi_get_map_info(fid=fid)
```

```
evf_fname = 'vector.evf'
evf_id = envi_evf_open(evf_fname)
```

```
envi_evf_info, evf_id, num_recs=num_recs, $
data_type=data_type, projection=projection, $
layer_name=layer_name
```

```
FOR i=0,num_recs-1 DO BEGIN
; read the record
;
vec = ENVI_EVF_READ_RECORD(evf_id, i)
xmap= vec(0,*)
ymap= vec(1,*)

;just to verify
```

```

print, 'Number of Records ' + ': ', num_recs
print, 'Number of nodes in Record ' + $
      strtrim(i+1,2) + ': ', n_elements(vec[0,*])

envi_convert_file_coordinates, fid1, xf, yf, xmap, ymap

roi_id = ENVI_CREATE_ROI(ns=ns, nl=nl, color=4, name='shape')

ENVI_DEFINE_ROI, roi_id, xpts=REFORM(xf, /over), $
ypts=REFORM(yf, /over), /polygon

  FOR j=0,0 DO BEGIN
    ;print, roi_id
    roi_data = ENVI_GET_ROI_DATA( roi_id, fid=fid, pos = [j])
    ENVI_GET_ROI_INFORMATION, roi_id, ns=ns, nl=nl

    ENVI_WRITE_ENVI_FILE, roi_data, ns=ns, nl=nl,
out_name='out_name', map_info=map_info

  ENDFOR
ENDFOR
print, roi_id
ENVI_BATCH_EXIT
end

```
