
Subject: shape

Posted by [gaurijyoti29](#) on Wed, 16 Mar 2011 07:46:19 GMT

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The following code is leaving some blank space at the center of output file. I would request you all to just have a look on code please suggest me how to fix. The input image(6197x5289) is in UTM WGS84 ZONE 45 and evf file is also in same format. I would appreciate your valuable suggestions;

```
evf_id = envi_evf_open(input_folder+'polygon.evf')
envi_evf_info, evf_id, num_recs=num_recs, $
data_type=data_type, projection=projection, $
layer_name=layer_name
.*****
;
envi_open_file, input_folder + file1.img , r_fid=fid
envi_file_query, fid, ns=ns, nl=nl, nb=nb
pos=lindgen(nb)
file_out = input_folder + file2.img

min_x = ns & min_y = nl
max_x = 0 & max_y = 0

map_info = envi_get_map_info(fid=fid)

out_data = intarr(ns,nl) ; Create the "black" image"
out_data [*,*] = 0 ;Assign a value to all the pixels of the
;out image so that their values will
not be
; "similar" to the values that you
extract from the ROI
temp_data=intarr(ns,nl) - 0

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

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, fid, xf, yf, xmap, ymap
```

```
; Get the minimum and maximum x and y values of points inside the
vector
```

```
temp_min_x = min (xf) & temp_max_x = max(xf)
temp_min_y = min (yf) & temp_max_y = max(yf)
```

```
if temp_min_x lt min_x then min_x = temp_min_x
if temp_min_y lt min_y then min_y = temp_min_y
if temp_max_x gt max_x then max_x = temp_max_x
if temp_max_y gt max_y then max_y = temp_max_y
```

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

```
.,*****
;
roi_data = ENVI_GET_ROI_DATA( roi_id, fid=fid, pos = [0])
ENVI_GET_ROI_INFORMATION, roi_id, ns=ns, nl=nl
roi_addresses = ENVI_GET_ROI(roi_id) ; Get the "position" of the
pixels in the ROI
temp_data[roi_addresses] = roi_data ; Assign values to the pixels
of the output image that are in the ROI
out_data[*,*] = temp_data
temp_data = intarr(ns,nl) - 0
.,*****
;
ENDFOR
```

```
; Make a buffer of 2 "blank" pixels around the resized image
min_x = fix(min_x) & min_y = fix (min_y)
max_x = fix(max_x) & max_y = fix (max_y)
envi_convert_file_coordinates, fid, min_x, min_y, xnew, ynew,/to_map
map_info.mc[2]= xnew
map_info.mc[3]= ynew
outdata=out_data[min_x:max_x, min_y:max_y]
ENVI_WRITE_ENVI_FILE, outdata,out_dt=2,out_name=file2.img,
map_info=map_info
envi_file_mng,id= fid, /remove
envi_file_mng,id= roi_id, /remove
endfor
envi_evf_close, evf_id
end
```