## Subject: Re: Apply a shapefile to raster images in IDL Posted by envi35 on Fri, 08 Oct 2004 18:23:47 GMT

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## Hi Everyone,

Thank you very much for your reply. I've taken Lorenzo's suggestion, and it works really well. This is a great group, especially to a novice... Though just began to use IDL a couple of weeks ago, I found it is a golden mine, worthy to dig hard:-(.

Best Regards to all! Jenny

lbusett@yahoo.it (Lorenzo Busetto) wrote in message news:<e4da268.0410070408.60d07040@posting.google.com>... > Hi Jenny,

>

If your images are all of the same size I think that you can solve
 your problem simply by using ENVI.

>

- > 1: Open one of your images and load it in a display
- > 2: Convert your shapefile to an ENVI vector file (EVF) by clicking
- >> Vector > Open Vector File > Shapefile
- 3: Load your vector on the display where you have loaded your
- > image (In the "available vectors list" select the vector, then click
- > on "load" and then on "Diplay# (your\_display)"
- > \_ 4:In the "Vector Parameters" window that appears, select "File >
- > Export active layer to ROI"
- 5: Select "basic tools > masking > build mask" and select your > display
- > 6: Select "Options > Import ROIS", then select the ROI you created
- > from your vector and click on "OK". Next, choose a name for the mask
- > file that you want to create and click on "Apply". Now, in the
- > "available bands list you should see a new image, which has value 0
- > outside the vector and 1 inside it.
- > 7: Now, you can use this "0-1" image as a mask for your image. Go
- > to Basic tools > apply mask. Select one of the images that you want to
- > mask, then click on "Select mask band" and select the mask image.
- > Click on "OK".

>

- > If you have many images and you don't want to repeat n-times the
- > last step you can use an IDL procedure that automatically opens the
- > images and apply the mask on each one.
- > I think that something like this should work: it's a simple
- > modification of the example program that you can find on the ENVI
- > User's guide.

>

> pro multiple\_mask

```
>
    ; Select input files (Select all your images)
>
>
    files_list = dialog_pickfile(/READ,title ='Select input$
  files',/multiple files)
>
    : Select the mask File
>
>
    mask_file = dialog_pickfile(/read, title = 'Select Mask File')
    envi open file, mask file, r fid=m fid
>
>
    : Count the number of files
>
>
    num_files = N_elements (files_list)
>
>
    for count = 0, num_files-1 do begin
>
>
    ; Selects the n- file. Output file name is
  "input file name"+"-masked"
>
>
    in file = files_list [count]
>
    out file =files list [count]+'-masked'
>
    envi_open_file, in_file, r_fid=fid
>
      if (fid eq -1 or m_fid eq -1) then return
>
>
>
    ; get some useful information and set the output filename.
>
     envi file query, fid, ns=ns, nl=nl, nb=nb, bname=bname
>
>
    ; Set the keyword parameters
>
      dims = [-11, 0, ns-1, 0, nl-1]
>
    pos = lindgen(nb)
>
     m_pos = [0]
>
>
    ; Call the 'doit' to apply the mask
>
>
    envi_mask_apply_doit, fid=fid, pos=pos, dims=dims,m_fid=m_fid,$
>
     m pos=m pos, value=0, out name=out file, in memory=0, $
>
     r fid=r fid
>
>
    endfor
>
>
> end
  I hadn't fully tested it, but it should work.
>
> Hope this helps,
>
```

Page 3 of 3 ---- Generated from comp.lang.idl-pvwave archive