
Subject: Re: How to spatial subset files by ENVI vector file (EVF) or other shapefile ?

Posted by [Jean H.](#) on Mon, 17 Dec 2007 16:52:06 GMT

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Lucia wrote:

> I can spatial subset files by EVF in ENVI, but I need to do it by IDL.

Hi,
You can start with this..
Jean.

```
;open the evf file
vectID = ENVI_EVF_OPEN(VectorToOpen)
;get the numbers of records (polygons) in the vector file
ENVI_EVF_INFO, vectID, num_recs = numRecs
;Open the image. We will get the pixel locations of the polygons out of it.
envi_open_file, ImageFilename, r_fid=fid
;get the X and Y dimensions of the image
ENVI_FILE_QUERY, fid, nl=nl, ns=ns

; Loop through each record
for record=0,numRecs-1 do begin ;
    ;get the coord of each nodes of the current polygon; Coords are
    projected.
    pts_polygon_proj = envi_evf_read_record(vectID, record)

    ;convert the projected coordinates of the nodes to a line/column
    coordinate

    envi_convert_file_coordinates, fid, pts_X_polygon_pixel, pts_Y_
    polygon_pixel, pts_polygon_proj[0,*], pts_polygon_proj[1,*]

    ;Get the 1D cell indices of the cells lying under the current polygon.
    polygonIndices =
    polyfillv(round(pts_X_polygon_pixel), round(pts_Y_polygon_pixel), ns, nl)

endfor
```
