Subject: Need a vector generalization procedure in ENVI
Posted by wl2776 on Mon, 19 Apr 2004 07:54:10 GMT
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Hi all.
I have a file with vector polygons.
The vertice coordinates are in map projection (stereographic in my case).
I convert this file to the format of ESRI Shapefile. Vectors in this format can have a set of attributes.
I need to write to the attribute a mean value of image pixels surrounded by the polygon.

I create a ROI, transfer map coordinates to the image pixel coordinates using envi_convert_file_coordinates, assign these image pixel coordinates to the ROI, then use envi_get_roi_data to get array of pixel values.

But envi_get_roi_data returns the error: "Not enough valid and unique points specified".
The reason is: the sample polygon has 4 vertices and surrounds 2 pixels.
After transferring map coordinates to image coordinates I get the arrays looking like following: xpts=[3155, 3156, 3156, 3155, 3155], ypts=[24, 24, 26, 26, 24]

As far as I can understand, Envi_get_roi_data needs the arrays like xpts=[3155,3155], ypts=[24, 25]

Could anyone advise me some algorithm to transform a polygon from map coordinates to image coordinates?
The polygons can be of various form, not only rectangular, but small in size.
I tried search in help systems of both IDL and EnVI, but didn't find anything.

Thanks in advance.