
Subject: Extracting raster using Shapefile as ROI -Revisited

Posted by [Gaurav](#) on Fri, 12 Jan 2007 02:20:02 GMT

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Hi everyone,

I am using IDL to make a customized Remote Sensing and GIS application wherein I open georeferenced satellite image tiles (like ETM -200 tiles, each of which are 10000 by 10000 pixels in size) over a basic globe skeleton-like the one defined by d_map.pro in the demo program for mapping. And this part is easily done with a few hitches.

Next, I want to create subsets if these images, the boundaries of these subsets being defined by the nodes of a particular shapefile polygon. Displaying the shapefile or getting the nodes is not too difficult a job too and I did it using objects. Now, I could easily convert these nodes to device coordinates and use POLYFILLV to extract the desired portion (as David very kindly suggested) but this would pose a minor hitch. That way, I have to have the whole of the portion under the polygon in display and so I have to CONGRID it or, as it is now, display them as small tiles using MAP_IMAGE. Using POLYFILLV would only give me this highly reduced image as output, something that I do not desire. I want portions of the original image cut out according to the shapefile.

I found a link in the group:

http://groups.google.com/group/comp.lang.idl-pvwave/browse_thread/thread/4b90c8f4a2c7b715/6e29cac0ee6fe976?q=Apply+a+shapefile+to+raster+images+in+IDL&rnum=1#6e29cac0ee6fe976

But I am not sure how it could help me too.

Please bail me out of this problem. I do not exactly need codes, just a few suggestive pointers or algorithms would do the trick for me.

Regards,
Gaurav
