
Subject: Re: How to extract pixel values from a GeoTIFF using an Esri Shapefile
Posted by [David Fanning](#) on Thu, 23 Dec 2010 21:34:49 GMT

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Paul Magdon writes:

```
> ;Convert SHP to ROI object
> myroi = OBJ_NEW( 'IDLanROI',( *ent.vertices)[0,*] ,(*ent.vertices)
> [1,*] )
>
> ;Apply ComputMask method
> maskResult = myroi -> ComputeMask(DIMENSIONS = [s[0],
> s[1]],MASK_RULE=2)
>
> ; Here starts the problem; I have a 5000x5000 raster (img) and the
> image coordinate system start with [0,0] but the myroi coordinates are
> much higher (eg 227984.00 ; 991472.00) Thus everything is masked.
> ;There is a keyword LOCATION for ComputeMask but I am not sure how to
> use it and where to get the right values for it
```

I have to admit I have never done this before. (Although I would like to try if you could make the image and shape file available to me.) But, it seems to me that when you create the ROI, you will have to give the ROI the range of the image to make this work.

```
mapCoord -> GetProperty, XRANGE=xr, YRANGE=yr
myroi = OBJ_NEW( 'IDLanROI',( *ent.vertices)[0,*] ,$
  (*ent.vertices)[1,*], ROI_XRANGE=xr, $
  ROI_YRANGE=yr )
```

That way, the ROI and the image are mapped to the same coordinate system.

I'm curious to know if that works. :-)

Cheers,

David

P.S. The next book I am thinking of writing is a small book about map projections in IDL. The more examples I have like this, the better. I have to write this book before I forget everything I've learned in the past four years. :-)

--

David Fanning, Ph.D.
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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Sepore ma de ni thui. ("Perhaps thou speakest truth.")
