
Subject: Re: image cut by a shapefile

Posted by [Jean H.](#) on Tue, 16 Oct 2007 16:42:36 GMT

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krastoboy@gmail.com wrote:

- > Dear all,
- > I'm a novice in IDL, not sure if my questions are totally improper.
- > 1_ I got a shape file made by some points.
- > 2_ I would like to cut an image (geotiff) in smaller (ex: 1000X1000
- > pixels) parts.
- > 3_ Each point of the shape file should be the center the new images.
- >
- > I don't know how figure it out.
- > Consider that I would like to find an automatic way: I have to work on
- > a set of different geotiff images, each one related to a different
- > shape file.
- >
- > Thank you in advance,
- > Lorenzo

This week favorite function is undoubtedly `envi_convert_file_coordinates`, if you have access to Envi!

- 1) open your shape file
- 2) get the coordinates (let's say, lat-long) of each point in an array
- 3) open your image to get its FID
- 4) call `envi_convert_file_coordinates`, fid, X, Y, lat, long (with NO keyword), which will change your lat-long to the corresponding pixel row and column on your image
- 5) subset your image `smallImage = image[X-1000:X+1000; Y-1000:Y+1000]`

Jean

Subject: Re: image cut by a shapefile

Posted by [krastoboy](#) on Wed, 17 Oct 2007 01:10:21 GMT

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Thanks Jean.

I've tried and it works...but I've got a problem with the new images I made: they seem to be negative (check: www.gurumeditation.it/smallimage.tiff). The problem is reading the tiff: to check this idea I wrote two lines

```
Result = READ_TIFF( 'D:\RSI\IDL56\WORKING\image.tif',  
GEOTIFF=variable)  
tv, result
```

and it gives me the same error.
There's something wrong that i don't understand?

Before I opened the geotiff with `envi_open_data_file`, got it in a variable with `ENVI_GET_DATA` and wrote it with `write_tiff` using the geotiff keyword.

lo

Subject: Re: image cut by a shapefile
Posted by [Jean H.](#) on Wed, 17 Oct 2007 16:22:06 GMT
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krastoboy@gmail.com wrote:

> Thanks Jean.
> I've tried and it works...but I've got a problem with the new images i
> made: they seem to be negative (check: www.gurumeditation.it/smallimage.tiff).
> The problems is reading the tiff: to check this idea I wrote two lines
>
> `Result = READ_TIFF('D:\RSI\IDL56\WORKING\image.tif',`
> `GEOTIFF=variable)`
> `tv, result`
>
> and it gives me the same error.
> There's something wrong that i don't understand?
>
> Before I opened the geotiff with `envi_open_data_file`, got it in a
> variable with `ENVI_GET_DATA` and wrote it with `write_tiff` using the
> geotiff keyword.
>
> lo

I am not sure of what your image ****should**** look like... it is a byte one... Are you sure you are writing it properly (good data type, color lookup table etc)?

Jean
