
Subject: get LAT/LON from georef image
Posted by [titan](#) on Wed, 11 Feb 2009 10:35:48 GMT
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Hello! I have a georef image and I would like to extract the LAT and LON values from it.

the dims of my image are not equal, let's say [65,80].

I create two vectors to be associated with the x_pixel and y_pixel of the image

```
x_pixel=indgen(65)
y_pixel=indgen(80)
```

I know that there is the envi routine ENVI_CONVERT_FILE_COORDINATES to convert X and Y pixel coordinates into their corresponding X and Ymap coordinates and vice-versa.

Unfortunately it seems to work only if the lat and lon array are of the same dimension in fact if we consider this example I should write

```
envi_convert_file_coordinates, fid, x_pixel, y_pixel, xmap, ymap, /
to_map
```

in this way I should have the respective vector xmap and ymap of lat and lon
but if I write

```
help, xmap
help, ymap
```

I get

```
LAT_MAP      DOUBLE  = Array[65]
LON_MAP      DOUBLE  = Array[65]
```

two vector of the same dims (in this case 65) and one of 65 elements and the other with 80 elements

Could someone tell me where I'm wrong??Are there any methods to overpass this problem??
thanks

Subject: Re: get LAT/LON from georef image
Posted by [Jean H.](#) on Thu, 19 Feb 2009 12:32:08 GMT
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titan wrote:

> Thank you for the answer Jean.
> probably I have to study more your suggestion because
> I tried it but what I get are two vectors with a bigger dimension than
> the initial one!
> is it possible or am I doing something wrong?
>
> thank you

Hi,
the dimension should be $(n_x * n_y)$ (so 1D)
You can then reshape it to a $(n_x; n_y)$ (2D)

Jean
