
Subject: Re: get LAT/LON from georef image
Posted by [titan](#) on Thu, 12 Feb 2009 10:03:51 GMT
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On Feb 11, 8:08 pm, David Fanning <n...@dfanning.com> wrote:

> titan writes:
>> Could this article be used even if my image is not e GEOTIFF image?
>
> If you have map projection information, and you know
> the location of one corner (or center, I guess) of
> your image, yes.
>
> Cheers,
>
> David
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming:<http://www.dfanning.com/>
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

I have another idea and I would like to know if you think it's correct.

Considering the answer of Jean H. I realize that I could still use the ENVI routine ENVI_CONVERT_FILE_COORDINATES but in an "handcrafted" way:

```
;; transform the number of sample and line in integer value
```

```
ns_int = fix(img_ns) ;lat  
nl_int = fix(img_nl) ;lon
```

```
;; Jean H. suggests that every pixel should be defined by a couple of  
values so I have to determine who between ns_int and nl_int is the  
biggest value
```

```
IF (ns_int GT nl_int) THEN BEGIN
```

```
;; once the higher value has been defined, I could create two vector  
of the same length
```

```
  x_coord=indgen(fix(img_ns))  
  y_coord=indgen(fix(img_ns))
```

```
;; and now I can use the ENVI routine
```

```
ENVI_CONVERT_FILE_COORDINATES,img_fid_open,x_coord,y_coord,lat_map,lon_map,  
TO_MAP
```

```
;; in order to obtain the correct dims again and knowing that, in this  
case, vector of ns (lat) is bigger than the vector of nl (lon) I have  
to cut this one to its original dimension
```

```
  lon_map=lat_map[0:img_nl-1]
```

```
:: if, on the contrary, integer value of nl (lon) is bigger than the
the one of ns (lat)
:: the procedure considers two vectors of the same dims vector of ns
has
```

```
    ENDIF ELSE BEGIN
        IF (nl_int GT ns_int) THEN $
            x_coord=indgen(fix(img_nl))
            y_coord=indgen(fix(img_nl))
```

```
ENVI_CONVERT_FILE_COORDINATES,img_fid_open,x_coord,y_coord,| at_map,lon_map,/
TO_MAP
```

```
:: and now the vector to be cut is the one of latitude
```

```
    lat_map=lat_map[0:img_ns-1]
```

```
    ENDELSE
```

```
:: finally we have the two vector of lat and lon and we can also can
create a matrix of lat lon with the same dims of our image
```

```
    matrix_coord=dblarr(fix(img_ns),fix(img_nl))
    matrix_coord = [lat_map,lon_map]
```

David or Jean H. what do you think about this procedure?
thanks

Bartolomeo (alias Titan)
