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Subject: ENVI\_CONVERT\_FILE\_COORDINATES returning negative values

Posted by [hanneliebx](#) on Fri, 11 May 2007 05:00:31 GMT

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Hi everyone, I'm a new ENVI/IDL user and hope to get some help here

I am attempting to extract 3x3 pixel windows from MODIS images using lat/long coordinates. To do this I have

- created two variables containing the latitude and longitude of the area I want to extract
- opened the relevant image file (which has a related .hdr file with the map info of the image)
- used the command [ENVI\_CONVERT\_FILE\_COORDINATES, fid, XF, YF, xcoord, ycoord] to change from lat/long coordinates to pixel values (the xcoord= -35.406368 and ycoord=149.80322, XF and YF output was -30954 and -34019 respectively)
- used the XF and YF output values to extract the 3x3 pixel window e.g.

```
Output[0] = xcoord
```

```
Output[1] = ycoord
```

```
Output[2] = floor(XF)
```

```
Output[3] = floor(YF)
```

```
; set the extent of the image you want to extract
```

```
dims = [-1, Output[2]-1, Output[2]+1, Output[3]-1, Output[3]+1]
```

```
; retrieve the pixels
```

```
data      = ENVI_GET_DATA(fid=fid, dims=dims, pos=1)
```

The XF and YF values that are generated are negative and much larger than the lines and samples of the image (7451x9580), so I am obviously doing something wrong.

The location is in the Southern hemisphere, so the latitude that I provided has a negative value (e.g. -35) - I'm sure that is not the problem though.

Could it be that the header information of the image is not read properly when the file is opened? Is there a way of displaying the map info saved in the header when the IDL program is run to check if it is read correctly? Or am I on the wrong track?

I would really appreciate any pointers.  
Hannelie

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