
Subject: Re: an envi question- extracting the pixel values of several points with lat-lon values

Posted by [jeffnettles4870](#) on Thu, 02 Nov 2006 21:18:57 GMT

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Well, the general idea is to write a quick routine that does the following for each image:

- 1) calls ENVI_CONVERT_PROJECTION_COORDINATES to convert your lat/lon points to the projection of your image.
- 2) calls ENVI_CONVERT_FILE_COORDINATES to convert the results from 1) into file coordinates (the col/row coordinates for the pixels you need)
- 3) call ENVI_GET_DATA using the coordinates you got from 2) to give you the brightness values of your image at those coordinates.

This is a general scheme b/c i don't know the projection info for your images, though it doesn't appear that you even need to know. ENVI_CONVERT_FILE_COORDINATES seems to be smart enough to figure that out for you. I wasn't clear from what you said, but I think you mentioned that you might get a new image every hour or so? If so, you might want to write some code that checks for a new image and then calls your routine that does 1-3 above on any new images you get.

I have to say, though, that I'm curious as to why Ed had to write all that code, b/c it makes me wonder if i've missed something (this is what usually has happened in cases like these :(), or whether or not these are just brand new routines that weren't available when he needed them. If that's the case, sorry Ed, I feel your pain :(

Jeff

gis_learner wrote:

> Dear All,

>

> Thank you very much. For all. I did not want to cause a
> problem...Anyway I did..

>

> Jeff is right that the field gathered point data is in lat long...

>

> Jean is also right that the images daily... Sometimes hourly...

>

> Now may I ask what to do? :)

>

> jeffnettles4870@gmail.com wrote:

>> Oh yeah, forgot to include that part :) And I also should've included

>> that, since the original poster's data are in lat/lon values, a call to

>> ENVI_CONVERT_PROJECTION_COORDINATES might also be in order.

```
>>
>> Jeff
>>
>>
>> Jean H. wrote:
>>> I think 'gis_learner' wanted the value on the different images.... not
>>> only the coordinate of the point. So once the image is opened and the XY
>>> coordinated obtained, I would go for ENVI_GET_DATA ... you can loop
>>> through your points, setting DIMS accordingly.
>>>
>>> Jean
>>>
>>> PS: and the whole code remains small :-)
```
