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Subject: Re: Plot radiances vs wavelengths

Posted by [jiashenyue](#) on Thu, 12 May 2016 03:27:07 GMT

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On Wednesday, May 11, 2016 at 10:32:33 AM UTC-7, Zachary Norman wrote:

> I think it might also be worth pointing out that you can convert coordinates in the new ENVI API very easily. Here is a link to the documentation for converting file coordinates to map coordinates and convertin map coordinates to lon/lat:

>

>

> [https://www.harrisgeospatial.com/docs/envistandardrasterspatialref\\_\\_convertfiletomap.html](https://www.harrisgeospatial.com/docs/envistandardrasterspatialref__convertfiletomap.html)

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> [https://www.harrisgeospatial.com/docs/ENVISstandardRasterSpatialRef\\_\\_ConvertMapToLonLat.html](https://www.harrisgeospatial.com/docs/ENVISstandardRasterSpatialRef__ConvertMapToLonLat.html)

>

> If you look on the right side of the screen there will also be a list of the other methods you can do with spatial references in the new ENVI API.

>

>

> -Zach (VIS)

Yeh, Sami, I don't want to confuse you. The API Zach mentioned does exactly the same thing as I told you. The only difference is that we are using two different styles of programming. I have not switched to the new ENVI API now and still use the old fashioned way for ENVI/IDL programming. Anyway, if you are more familiar with the new API, go for it. The most important thing of doing this task is to understand your MODIS data are saved using MODIS projection, and if you want to retrieve data based on a series of lat and lon, you have to do it in 2 steps:

1. Convert your lat/lon to the corresponding coordinates of MODIS projection
2. Convert the map coordinates (MODIS projection coordinates) to image col and row.

Shenyue

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