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Subject: Re: Plot radiances vs wavelengths  
Posted by [jiashenyue](#) on Mon, 09 May 2016 19:30:51 GMT  
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On Monday, May 9, 2016 at 7:35:03 AM UTC-7, sami wrote:

> Hi,  
>  
> I am working on MYD021KM data. I try to plot radiances vs wavelengths for one pixel (lat=",  
long=").I am using the 'EV\_1KM\_Emissive'.  
> Unfortunately, I can't find how to extract the pixel value. I am still blocked. Please, does  
anyone know the procedure to do this? I really need your help.  
>  
> Thank you

Hi Sami,

Are you trying to ask how can you read the .hdf of this MODIS product?

MODIS collection has a specific template you need to read the HDFs in IDL. You can find all the details about the template from the user's guide of this product. However, I have a shortcut that can save you so much time from all the hassles to create the template.

I guess you have the access to ENVI. If so, download a tool called MCTK  
<https://github.com/dawwhite/MCTK>

This tool is designed to read and reproject all kinds of MODIS HDFs. Make sure you are using the original file name of the HDF files, because MCTK needs the standard MODIS product ID and other information to read the HDF. This tool is based on ENVI and you can conveniently do a batch reading by running the functions of this tool in IDL. See the user's guide of MCTK for details.

If the above method does not for you, you may also try another tool designed for this purpose. You don't need the ENVI license to run it:

[https://lpdaac.usgs.gov/tools/modis\\_reprojection\\_tool](https://lpdaac.usgs.gov/tools/modis_reprojection_tool)

Good luck!

Shenyue

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