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Subject: Re: Plotting data over USGS DOQ images.  
Posted by [Ben Tupper](#) on Thu, 07 Jun 2001 03:18:27 GMT  
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Hi,

I'm not sure I understand your question. I think you might want to look for the MAP\_\*\*\*\*\* commands in the online help for IDL.

Once the plane's path coords and the image coords are in the same coordinate system, it seems like the built in IDL mapping tools should allow you to set up the coordinate transform, warp the image to the coordinate system and then display the image. Once the image is displayed you can use the PLOTS command to overlay the flight path.

You might look at Liam Gumley's Underground Guide to IDL (look for Liam's website via David Fanning's annotated links page [www.dfanning.com](http://www.dfanning.com)). His guide, I recall, had a short section on mapping in IDL. While you are there, get a hold of ImDisp (Liam's), TVImage (David's) or PlotImage (Craig Markwardt) which are all more versatile at displaying images than IDLs built in TV procedure.

I hope I am steering you in the right direction.

Ben

Jairo Santana wrote:

```
> Ben,
>
> Thanks a lot for your help. Yes, I will need to convert the (lat,lon) to LL.
> The image header has the UTM zone and some other info about the
> image. So, that won't be difficult. All I need to do now is set the
> coordinate system and overplot the plane path over the image. If the image
> is in LL (UTM), how do you establish a coordinate system to be able
> to plot the plane path LL (converted from lat,lon) over the image?
>
> Jairo.
>
> Ben Tupper wrote:
>
>> Jairo Santana wrote:
>>
>>> I need to plot the path of a plane given by (lat,lon) over a USGS
>>> DOQ image. The image is in UTM projection and BIP format.
>>> Any code, advice, or suggestion will be very much appreciated.
>>>
>>> Thanks,
```

>>> Jairo.  
>>  
>> Hi,  
>>  
>> I have attached a ZIPPED bundle of procedures for converting from LL  
>> to UTM (meters of false easting/northing). If you know the UTM zone  
>> for your DOQ image, you should be able to overlay the plane's path on  
>> the image. Alternatively, you could convert your UTM image coords  
>> to LL. Then you could use IDL's built in mapping procedures for  
>> display. I'm not sure if the Map Datum will be important, but it's  
>> worth paying attention to. I'm not familiar with a BIP format.  
>>  
>> Ben  
>> --  
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