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Subject: Re: Plotting data over USGS DOQ images.  
Posted by [Jairo Santana](#) on Thu, 07 Jun 2001 15:17:19 GMT  
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Ben,

Thanks. I was able to overplot the data using both TVIMAGE and PLOTIMAGE.

Jairo.

Ben Tupper wrote:

> 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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>>> POB 106
>>> Bristol, ME 04539
>>>
>>> Tel: (207) 563-1048
>>> Email: PemaquidRiver@tidewater.net
>>>
>>> -----
>>>      Name: geo.zip
>>> geo.zip  Type: Download File (application/x-zip)
>>>      Encoding: base64
>
> --
> Ben Tupper
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