
Subject: Re: Plotting data over USGS DOQ images.
Posted by [Med Bennett](#) on Tue, 05 Jun 2001 17:16:41 GMT
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There's a program called Corpscon (by the US Army Topographic Engineering Center) that does these sorts of conversions - try a search on Corpscon. It's a DOS program but other versions or source code may be available from them.

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.

Subject: Re: Plotting data over USGS DOQ images.
Posted by [Jairo Santana](#) on Tue, 05 Jun 2001 21:20:59 GMT
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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:

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> to UTM (meters of false easting/northing). If you know the UTM zone
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> 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
> --
> Ben Tupper
> 248 Lower Round Pond Road
> 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

Subject: Re: Plotting data over USGS DOQ images.
Posted by [Jairo Santana](#) on Tue, 05 Jun 2001 23:39:57 GMT
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Ben,

I forgot to mentioned you about the BIP format. It is an RGB Band Interleaved
by Pixel way of storing an image. example:

```
rgb rgb rgb rgb .....rgb
rgb rgb rgb rgb .....rgb
...
...
rgb rgb rgb rgn.....rgb
```

Jairo.

Ben Tupper wrote:

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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
[View Forum Message](#) <> [Reply to Message](#)

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). 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

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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
[View Forum Message](#) <> [Reply to Message](#)

Ben,

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

Jairo.

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