
Subject: Plotting a trajectory against a mapped image

Posted by [steve](#) on Tue, 12 Jul 2005 22:24:29 GMT

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Greetings everyone,

I am a novice IDL user and I have the task of displaying trajectories with respect to a mapped projection of the earth. I am using `map_image` to generate a projection of the earth with terrain, but I can't seem to find what I would need to overlay a trajectory on top of that. I've tried the `PLOTS` function, but since `T3D` is not specified it will only plot lines against the surface and ignore the `z` component. I know I could use `SURFACE` to get the transformation matrix I need for `PLOTS` to operate correctly, but I'm not sure how to set it up to work with the image that I have mapped. Am I on the right track, or is there something better I could use?

Subject: Re: Plotting a trajectory against a mapped image

Posted by [Klemens Barfus](#) on Wed, 13 Jul 2005 16:06:56 GMT

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Hi Steve,

I asked the distributor of IDL in Germany for exactly this feature one week ago. I wanted to plot three dimensional data of an atmospheric model with a map as a coordinate system for `x` and `y` coordinates. The `T3D` feature does not work - hopefully they will see the need to add this feature.

What I did: I changed the coordinates to rectangular coordinates, but then you have to change all your terrain coordinates, too and the result depends on the size of the observed area...

If you some source code, send me an email.

Hope this helps,

Klemens

steve wrote:

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>

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> with respect to a mapped projection of the earth. I am using `map_image`
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