Subject: Re: Map point

Posted by david[2] on Sat, 16 Jun 2001 02:52:08 GMT

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## Francisco writes:

```
I have produced a map in this way
> latmin=39.74 & latmax=45.63
 Ionmin=-5.32 & Ionmax=4.79
>
 latcenter=42.8 & loncenter=-0.517
>
> map_set,latcenter,loncenter,/lambert,/hires,
> color=0,limit=[latmin,lonmin,latmax,lonmax]
>
> map_continents,/countries
> and now I want to have a point or a cross in the place of some
> important spot like (42.938,-0.6)
> How can I do it?
```

- PLOTS, 42.939, -0.6, PSYM=1, SymSize=3.0
- > Also I have a 2d array with value of concentration that I want to plot
- > on the map and the array have the same (lat-lon) dimension of the map,
- > how can I do it?

You could try warping the 2D array on to the image with either Map Image or Map Patch. Keywords allow you to specify the latitude and longitude coordinates of the edges of the image.

```
warped = Map_Image(array, xx, yy, xs, ys, LonMin=-5.32, $
 LonMax = 4.79, LatMin=39.74, LatMax=45.63)
TV, warped, xx, yy, XSize=xs, YSize=ys
Map Continents, /Countries
```

Or, you could put the 2D array over the image with the CONTOUR command. Just be sure to specify latitude and longitude vectors along with the array, and use the OVERPLOT keyword.

Best Regards,

David

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Coyote's Guide to IDL Programming: http://www.dfanning.com/

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Subject: Re: Map point

Posted by btt on Mon, 18 Jun 2001 12:37:45 GMT

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Hello,

>

- > and now I want to have a point or a cross in the place of some
- > important spot like (42.938,-0.6)

>

The Map\_Set procedure has set up the coordinate conversions for you.

Now simply plot a point with the PLOTS command:

PlotS, -0.06, 42.938, PSYM = 1, ....

>

- > Also I have a 2d array with value of concentration that I want to plot
- > on the map and the array have the same (lat-lon) dimension of the map,
- > how can I do it?

>

You have a couple of choices, you could contour the array (CONTOUR command) or use Map\_Patch (or Map\_Image to warp the image properly to your projection then use TV (or TVImage or ImDisp, etc.) to display it on you 'map'.

Ben

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