
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
> lonmin=-5.32 & lonmax=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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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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