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Subject: Re: Over-PLOT() on MAP()?

Posted by [David Fanning](#) on Sun, 12 Dec 2010 00:55:52 GMT

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Paulo Penteado writes:

```
> plot() seems to have inherited the same limitation as iplot with
> respect to overplotting on maps:
>
> ttp://groups.google.com/group/comp.lang.idl-pvwave/browse_thread/thread/7dad5b4234801dea
>
> You need to use its map projection to convert the coordinates to
> Cartesian:
>
> m=map('sinusoidal')
> lats=[60.,30.,0.,-60.,-45.,60.]
> lons=[-60.,0.,120.,30.,-60.,-60.]
> xy=map_proj_forward(lons,lats,map_structure=m.map_structure)
> p=plot(xy,/over,color='red')
```

I'm not sure this is a "limitation" so much as just a poorly documented feature. I think it is absolutely correct that the "data space" of a map projection should be in projected XY coordinates, rather than in lat/lon space. It is just about the only thing about the new graphics that actually makes a lot of sense to me. :-)

Cheers,

David

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

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

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