Subject: Re: Plot single data points in IMAP Posted by penteado on Thu, 05 Nov 2009 16:55:57 GMT

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On Nov 5, 11:35 am, "Karlo Janos" <groups.20.beam...@spamgourmet.com> wrote:

- > Dear all,
- >
- > I am wondering if it is possible to plot single data points in a map
- > set produced with IMAP.
- > In the help document I only found examples for overplotting IMAP with
- > images or vector fields with regularly gridded.

>

- > In direct graphics mode I would use "MAP_SET, ..." and then plot single
- > data points by "PLOTS, lons, lats, ...". In this case "lons" and "lats"
- > can be arbitrary coordinates from the intervals [-180; 180] and
- > [-90;90], respectively.
- > Is there any way to get a similar result with IMAP?

Thanks in advance,

> Karlo

I think you need to use iplot to overplot on the imap, with your lats and lons converted to cartesian coordinates. As an example:

```
lats=[60.,30.,0.,-60.,-45.,60.]
lons=[-60.,0.,120.,30.,-60.,-60.]
imap, map projection='sinusoidal'
mp=map_proj_init('sinusoidal')
xy=map proj forward(lons,lats,map structure=mp)
iplot,xy,/over,color=[255,0,0]
```