
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]
```

Subject: Re: Plot single data points in IMAP
Posted by [Karlo Janos](#) on Tue, 10 Nov 2009 12:23:20 GMT
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> I think you need to use iplot to overplot on the imap, with your lats
> and lons converted to cartesian coordinates. As an example:
>
> [...]

Thank you for this hint! That's what I've been looking for.
Regards,

Karlo

Subject: Re: Plot single data points in IMAP
Posted by [penteado](#) on Tue, 10 Nov 2009 21:22:03 GMT
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On Nov 10, 10:23 am, "Karlo Janos" <groups.20.beam...@spamgourmet.com> wrote:

>> I think you need to use iplot to overplot on the imap, with your lats
>> and lons converted to cartesian coordinates. As an example:
>
>> [...]
>
> Thank you for this hint! That's what I've been looking for.
> Regards,
>
> Karlo

Though that is a bit incomplete, because if you change the projection with the imap widgets, the plot will not change accordingly.

Probably with some digging around the imap objects there would be a way to make the plot be updated when the projection change method got called, and it probably could be neatly packaged into a wrapper to iplot. It is, however, the kind of obvious need that ITTVIS should have provided for.

Subject: Re: Plot single data points in IMAP
Posted by [kidpix](#) on Wed, 27 Apr 2011 14:52:05 GMT
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Hi,
there are some news about this topic?
I'm interested in the linking the iplot data to the current map projection, but I'm far to new to iTools to find a realiable solution.

Regards,
Mario.
