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Subject: Re: plotting x-y error bars in IDL

Posted by [atmospheric physics](#) on Tue, 10 Dec 2013 11:00:06 GMT

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Sorry for all the troubles.

I don't see my (lon,lat) points on the plot. While I see x-errorbars, I don't see the y-errorbars at all. I don't have any clue what is happening ...

Thanks in advance ...

On Tuesday, December 10, 2013 11:37:12 AM UTC+1, David Fanning wrote:

> Madhavan Bomidi writes:

>

>

>

>> As suggested, I replaced the following lines in my code, I don't see

>

> even lat-lon points that I was able to see earlier. Now, I see only a

>

> black grid map with lat-lon axes. I still don't understand why to invert

>

> the data and why no display of points or error bars???

>

>>

>

>> xy = map -> Inverse(xlon,ylat)

>

>> lon = REFORM(xy[0,\*]) & lat = REFORM(xy[1,\*])

>

>> cgPlotS, xlon, ylat, PSYM=16, SYMSIZE=1.2, MAP=map, COLOR='red'

>

>>

>

>> ; Draw the error bars in the signal Y

>

>> yhigh = map -> Inverse(y\_higherr, ylat)

>

>> ylow = map -> Inverse(y\_lowerr, ylat)

>

>>

>

>> lon\_high = REFORM(yhigh[0,\*])

>

>> lon\_low = REFORM(ylow[0,\*])

>

>> cgErrPlot, lon, lon\_high, lon\_low, COLOR='blu5',Thick=thick

>

```

>>
>
>> ; Draw the error bars in the signal X
>
>> xhigh = map -> Inverse(xlon, x_higherr)
>
>> xlow = map -> Inverse(xlon, x_lowerr)
>
>> lat_high = REFORM(xhigh[0,*])
>
>> lat_low = REFORM(xlow[0,*])
>
>> cgErrPlot, lat, lat_high, lat_low, COLOR='blu5',Thick=thick, /Horizontal
>
>>
>
>>
>
>> Thanks in advance.
>
>
>
> Not sure what I was smoking yesterday (or maybe it is just the cloud
>
> from OTHER people smoking here in Colordao), but all of those "Inverse"
>
> calls should be changed to "Forward" calls. Sheesh. I guess I've never
>
> seen map projections before. :-(
>
>
>
> It is hard to write code without having data to run with it. I'm just
>
> like everyone else, I make all KINDS of errors.
>
>
>
> xy = map -> Forward(xlon,ylat)
>
> lon = REFORM(xy[0,*]) & lat = REFORM(xy[1,*])
>
> cgPlotS, xlon, ylat, PSYM=16, SYMSIZE=1.2, MAP=map, COLOR='red'
>
>
>
> ; Draw the error bars in the signal Y
>

```

```

> yhigh = map -> Forward(y_higherr, ylat)
>
> ylow = map -> Forward(y_lowerr, ylat)
>
>
> lon_high = REFORM(yhigh[0,*])
>
> lon_low = REFORM(ylow[0,*])
>
> cgErrPlot, lon, lon_high, lon_low, COLOR='blu5',Thick=thick
>
>
>
> ; Draw the error bars in the signal X
>
> xhigh = map -> Forward(xlon, x_higherr)
>
> xlow = map -> Forward(xlon, x_lowerr)
>
> lat_high = REFORM(xhigh[0,*])
>
> lat_low = REFORM(xlow[0,*])
>
> cgErrPlot, lat, lat_high, lat_low, COLOR='blu5',Thick=thick, /Horiz
>
>
>
> Let me know if that works better. If not, I'll probably just rewrite
>
> cgErrPlot. In fact, I may do that anyway. It is a total mess. I should
>
> never have based it on the IDL routine of the same name. :-(
>
>
>
> Cheers,
>
>
>
> David
>
> --
>
> David Fanning, Ph.D.
>
> Fanning Software Consulting, Inc.
>

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- > Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>
  - >
  - > Sepore ma de ni thue. ("Perhaps thou speakest truth.")
-