
Subject: Re: CONTOUR: Data coordinate system not established error

Posted by [David Fanning](#) on Tue, 15 Jul 2014 03:40:09 GMT

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victoria.hartwick@gmail.com writes:

> I am trying to plot a temperature contour vs log pressure and latitude. I can successfully produce a plot with a log y axis or with a linear reversed y axis (high pressure at the bottom). However when I try to use both keywords I get the above error. Below is a copy of the code in question:

```
>
> contour, zt(*,*,itime), lat,zp(*,*,itime), color=0, background=255, $
>     Xtitle='Latitude', Ytitle='Pressure [Pa]', $
>     Title = 'Zonally Averaged Surface Temperature at Ls='+string(ls_year(itime)), $
>     thick = 6, Xrange = [-90,90],yrange=[1000,0],/ylog,/fill, $
>     Levels=level, C_Color=col1
>
```

> The following two versions do work -

```
>
> contour, zt(*,*,itime), lat,zp(*,*,itime), color=0, background=255, $
>     Xtitle='Latitude', Ytitle='Pressure [Pa]', $
>     Title = 'Zonally Averaged Surface Temperature at Ls='+string(ls_year(itime)), $
>     thick = 6, Xrange = [-90,90],yrange=[1000,0],/fill, $
>     Levels=level, C_Color=col1
>
```

```
> contour, zt(*,*,itime), lat,zp(*,*,itime), color=0, background=255, $
>     Xtitle='Latitude', Ytitle='Pressure [Pa]', $
>     Title = 'Zonally Averaged Surface Temperature at Ls='+string(ls_year(itime)), $
>     thick = 6, Xrange = [-90,90],/ylog,/fill, $
>     Levels=level, C_Color=col1
>
```

> Any ideas what might be going wrong?

I would say what is wrong is you are trying to take the Log(0), which is undefined. Try setting your YRange=[1,1000]. That will work better. :-)

Cheers,

David

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David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

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