Subject: Reversing y-axis using label_date
Posted by greer.katelynn on Thu, 20 Nov 2014 07:13:43 GMT
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I am attempting to create a Hovmoller plot of some atmospheric data. The problem is that I want time increasing downward. Usually to reverse the an axis, you just reverse the range in the plot call. Unfortunately, this is resulting in only one date to be plotted. The relevant code is as follows:

```
cgLoadCT,22,Ncolors=21,Bottom=1,/Brewer
dummy=label_date(DATE_FORMAT=['%D','%M'])
plot,[0,10],[juldates(1),juldates(2)],/nodata,$
  xrange=[-180,180],yrange=[juldates(nt-1),juldates(0)],$
  ytickunits=['Time','Time'],ytickinterval=2,$
  ytickformat='Label_Date',xtitle='Longitude',$
  xstyle=1,ystyle=1
contour,w,lon,juldates,$
  levels=w_levels,c_colors=Indgen(21),/cell_fill,$
  /overplot
```

Thanks,
Katelynn

Subject: Re: Reversing y-axis using label_date
Posted by David Fanning on Thu, 20 Nov 2014 13:13:48 GMT
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greer.katelynn writes:

>
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```
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>   xrange=[-180,180],yrange=[juldates(nt-1),juldates(0)],$
>   ytickunits=['Time','Time'],ytickinterval=2,$
>   ytickformat='Label_Date',xtitle='Longitude',$
>   xstyle=1,ystyle=1
> contour,w,lon,juldates,$
>   levels=w_levels,c_colors=Indgen(21),/cell_fill,$
>   /overplot
```

This has something to do with the YTICKUNITS keyword. When this is set the way it is in your example, the wrong information (actually the SAME

information, over and over) is sent to LABEL_DATE. If you simply remove
the YTICKUNITS keyword, the time axis behaves the way you expect it to.

I have no idea what this is about, but expect it is a bug in IDL.

Cheers,

David
--
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.")
