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Subject: Re: curtain plot

Posted by [Vince Hradil](#) on Thu, 10 Jul 2008 14:04:39 GMT

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On Jul 10, 6:51 am, maffie <matthias.demuz...@geo.kuleuven.be> wrote:

> Hi all,

>

> I would like to produce a curtain plot, which shows a sequence of  
> daily vertical profiles. Time should be on the X-axis, height on the Y-  
> axis, and the value that corresponds to each time-height location  
> should be in colour, with the color range in a nice colour bar next to  
> the plot...

>

> Probably it is not that difficult, but I can't seem to find the trick  
> to handle this?

>

> Thanks,

> Matthias

You mean like this: <http://tinyurl.com/5bw3jc>

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Subject: Re: curtain plot

Posted by [matthias.demuzere](#) on Thu, 10 Jul 2008 14:18:13 GMT

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yes, that is exactly what I mean...

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Subject: Re: curtain plot

Posted by [matthias.demuzere](#) on Thu, 10 Jul 2008 14:20:42 GMT

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Really nice plots by the way. This is how I would like to produce mine, also with the same colors...

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Subject: Re: curtain plot

Posted by [Vince Hradil](#) on Thu, 10 Jul 2008 14:40:09 GMT

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On Jul 10, 9:20 am, maffie <matthias.demuz...@geo.kuleuven.be> wrote:

> Really nice plots by the way. This is how I would like to produce

> mine, also with the same colors...

Yes, they are nice plots - I don't have any specific advice, except you might want to look at David's Colorbar stuff and start from there:

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Subject: Re: curtain plot

Posted by [Brian Larsen](#) on Thu, 10 Jul 2008 14:46:19 GMT

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For a bit of (useful?) specific advice. I think this is easiest done with spectro\_plot.pro. I wrote a wrapper around this using David's colorbar routine. My wrapper is imagesc.pro, I have used it with time on the axis with good success in the past. Have a look at imagesc, colorbar, tvimage, spectro\_plot and see if the combination suits your needs.

imagesc.pro

[http://people.bu.edu/balarsen/Home/IDL/Entries/2007/12/18\\_imagesc\\_\(updated\\_18Dec2007\).html](http://people.bu.edu/balarsen/Home/IDL/Entries/2007/12/18_imagesc_(updated_18Dec2007).html)

spectro\_plot.pro

[http://sohowww.nascom.nasa.gov/solarsoft/gen/idl/display/spectro\\_plot.pro](http://sohowww.nascom.nasa.gov/solarsoft/gen/idl/display/spectro_plot.pro)

Let us know if you find a really good solution.

Brian

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Brian Larsen

Boston University

Center for Space Physics

<http://people.bu.edu/balarsen/Home/IDL>

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Subject: Re: curtain plot

Posted by [matthias.demuzere](#) on Thu, 10 Jul 2008 22:48:03 GMT

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Hi all,

After some searching, I found the following manual on the internet:

"An introduction to using IDL in meteorology", but can probably be interesting in many other fields...

[http://ncas-cms.nerc.ac.uk/component/option,com\\_docman/task,doc\\_download/gid,100/](http://ncas-cms.nerc.ac.uk/component/option,com_docman/task,doc_download/gid,100/)

[http://ncas-cms.nerc.ac.uk/component/option,com\\_docman/task,doc\\_download/gid,99/](http://ncas-cms.nerc.ac.uk/component/option,com_docman/task,doc_download/gid,99/)

Probably, a lot of things mentioned in there are known by the community, but it helped my quite a lot, as most the examples from the course can be downloaded from the National Center for Atmospheric Science:

[http://ncas-cms.nerc.ac.uk/component/option,com\\_dbquery/Item id,245/](http://ncas-cms.nerc.ac.uk/component/option,com_dbquery/Item id,245/)

In to answer my own curtain plot question:

This does the trick:

myT,mytime, mylev3, /CELL\_FILL,...

followed with a separate definition of the axes:

AXIS, XAXIS=0, XTITLE='Time', TICKLEN=myticklen,\$  
XTICKS=3, XTICKNAME=myticks, XTICKV=mytickvals

AXIS, YAXIS=0, YTITLE='Pressure (mb)', TICKLEN=myticklen,\$  
YTICKS=6, YTICKNAME=yticks, YTICKV=float(yticks)

With many thanks to Andy Heaps for his help with this!!!

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