Subject: Y-axis problems using cgcontour
Posted by morganlsilverman on Wed, 04 Sep 2013 19:42:47 GMT

Hello,

I'm trying to use cgcontour to plot a latitude altitude cross section of temperature data. My altitudes are actually pressure values and I need them to go from 1000mb to 10mb with 1000mb being at the bottom of the y-axis. I know how to do this using cgplot but I can't figure out how to do the same when using cgcontour. I also would like to have a log scale if possible for pressure. Is it possible to do this? Thank you.

Sincerely,
Morgan

Subject: Re: Y-axis problems using cgcontour
Posted by David Fanning on Wed, 04 Sep 2013 19:48:19 GMT

Morgan Silverman writes:

> I'm trying to use cgcontour to plot a latitude altitude cross section of temperature data. My altitudes are actually pressure values and I need them to go from 1000mb to 10mb with 1000mb being at the bottom of the y-axis. I know how to do this using cgplot but I can't figure out how to do the same when using cgcontour. I also would like to have a log scale if possible for pressure. Is it possible to do this

Did you try reversing your Y vector?

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.")

Subject: Re: Y-axis problems using cgcontour
Posted by David Fanning on Wed, 04 Sep 2013 19:57:46 GMT

Morgan Silverman writes:

> I'm trying to use cgcontour to plot a latitude altitude cross section of temperature data. My altitudes are actually pressure values and I need them to go from 1000mb to 10mb with 1000mb being at the bottom of the y-axis. I know how to do this using cgplot but I can't figure out how to do the same when using cgcontour. I also would like to have a log scale if possible for pressure. Is it possible to do this? Thank you.

Here is an example of a plot that does what you want:

  http://www.idlcoyote.com/gallery/index.html#ZONALCONTOUR

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.")

Subject: Re: Y-axis problems using cgcontour
Posted by morganlsilverman on Wed, 04 Sep 2013 20:04:26 GMT
View Forum Message <> Reply to Message

On Wednesday, September 4, 2013 3:57:46 PM UTC-4, David Fanning wrote:
> Morgan Silverman writes:
>
>
>
>> I'm trying to use cgcontour to plot a latitude altitude cross section of temperature data. My altitudes are actually pressure values and I need them to go from 1000mb to 10mb with 1000mb being at the bottom of the y-axis. I know how to do this using cgplot but I can't figure out how to do the same when using cgcontour. I also would like to have a log scale if possible for pressure. Is it possible to do this? Thank you.
>
>
>
> Here is an example of a plot that does what you want:
>
>
>
>   http://www.idlcoyote.com/gallery/index.html#ZONALCONTOUR
>
>

>
> 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.")

Great. Thank you. I will follow that example.

-Morgan

Subject: Re: Y-axis problems using cgcontour
Posted by Paul Van Delst[1] on Thu, 05 Sep 2013 14:51:27 GMT
View Forum Message <> Reply to Message

On 09/04/13 15:57, David Fanning wrote:
>
> Here is an example of a plot that does what you want:
>
> http://www.idlcoyote.com/gallery/index.html#ZONALCONTOUR

Sorry for the OT, but that gallery is a beautiful collection of plots.
It's been a while since I visited it - I was completely mesmerised.

cheers,

paulv

Subject: Re: Y-axis problems using cgcontour
Posted by David Fanning on Thu, 05 Sep 2013 15:09:21 GMT
View Forum Message <> Reply to Message

Paul van Delst writes:

> Sorry for the OT, but that gallery is a beautiful collection of plots.
> It's been a while since I visited it - I was completely mesmerised.

I'm unemployed again and apparently too old to be hired to do anything useful, so I've been thinking about another book, the working title of which is "Coyote's Recipes for Dramatic IDL Visualizations". My idea is to explain at some length how the plots in the gallery are created using both Coyote Graphics and (if I can figure this part out) Function Graphics. Think anyone would buy it?

If not, please suggest a book you *would* buy. I'm looking for good ideas. :-)

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.")