Subject: Re: CONTOURing one dimension data
Posted by ben.bighair on Tue, 07 Feb 2012 20:11:27 GMT
View Forum Message <> Reply to Message

On Feb 7, 12:46 am, shambhu <shambhu.mc...@gmail.com> wrote:
> Hi,
>
> I have a structured data of one dimension (ex: data.field14). I want
> to contour it over a continents map. How to CONTOUR one dimension
> data.
>
> Please help me.

Hi,

I'm not sure I understand completely, but since a contour identifies groups of similar value in a set, then you could use VALUE_LOCATE to group your data.

```
x = randomu(seed, 100)
plot,x

; use value_locate to assign x-values into the sets 0-0.25,
0.25-0.5, ... left side open, right side closed (I think)
ix = VALUE_LOCATE([0.0, 0.25, 0.5, 0.75], x)

;
; Dr. Fanning, please don't look.  Thanks.
;
device, decomposed = 0
tek_color
for i = 0, 99 do plots,i,x[i], psym = 6, col = ix[i] + 1
```

Is that what you mean? I'm a little fuzzy about putting it on a map. Without locational info, how would you know where to place it on the map?

If you actually have Lon, Lat values associated with each of your points, then you can use

cgContour, data, lon, lat, ...

and you are good to go! http://www.idlcoyote.com/idldoc/cg/cgcontour.html

Cheers,
Ben

Subject: Re: CONTOURing one dimension data
Posted by David Fanning on Tue, 07 Feb 2012 20:27:32 GMT
View Forum Message <> Reply to Message

ben.bighair writes:

> ;
> ; Dr. Fanning, please don't look. Thanks.
> ;
> device, decomposed = 0
> tek_color
> for i = 0, 99 do plots,i,x[i], psym = 6, col = ix[i] + 1

Oh, for God's sake! Sigh...

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: CONTOURing one dimension data
Posted by Brian Wolven on Tue, 07 Feb 2012 20:44:10 GMT
View Forum Message <> Reply to Message

On Tuesday, February 7, 2012 3:27:32 PM UTC-5, David Fanning wrote:
> ben.bighair writes:
>
>> ;
>> ; Dr. Fanning, please don't look. Thanks.
>> ;
>> device, decomposed = 0
>> tek_color
>> for i = 0, 99 do plots,i,x[i], psym = 6, col = ix[i] + 1
>
> Oh, for God's sake! Sigh...
>

You are apparently the Santa Claus of IDL.

"He knows when you code bad or good, so code good for goodness' sake..."

Subject: Re: CONTOURing one dimension data
Posted by ben.bighair on Tue, 07 Feb 2012 20:45:28 GMT
View Forum Message <> Reply to Message

On Feb 7, 3:27 pm, David Fanning <n...@idlcoyote.com> wrote:
> ben.bighair writes:
>> ;
>> ; Dr. Fanning, please don't look. Thanks.
>> ;
>> device, decomposed = 0
>> tek_color
>> for i = 0, 99 do plots,i,x[i], psym = 6, col = ix[i] + 1
>
> Oh, for God's sake! Sigh...
>
> Cheers,
>
> David
>
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming:http://www.idlcoyote.com/
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

I told you not to look!

Subject: Re: CONTOURing one dimension data
Posted by Russell[1] on Wed, 08 Feb 2012 04:15:06 GMT
View Forum Message <> Reply to Message

On Feb 7, 12:46 am, shambhu <shambhu.mc...@gmail.com> wrote:
> Hi,
>
> I have a structured data of one dimension (ex: data.field14). I want
> to contour it over a continents map. How to CONTOUR one dimension
> data.
>
> Please help me.

Contour is fundamentally a two-dimensional thing. You must mean
something else....

If you have a scatter plot x,y, then you can maybe use hist_2d.pro to
make a two-dimensional histogram, but it's hard to answer your
question.

Russell

Subject: Re: CONTOURing one dimension data
Posted by shambhu on Wed, 08 Feb 2012 06:10:17 GMT
View Forum Message <> Reply to Message

Thank you all,

First i used Map_set to draw continents. Now i want to put contour data on that map, to analyse the things. Histogram is working fine. When i use OPLOT on MAP_SET it plotting it taking lat properly but not the lon. I am plotting it for Asia region air data, but showing on Africa. So wanted to try with CONTOUR by plotting it over MAP_SET. Is it possible..!?
Code snippet is as follows:

```
MAP_SET, /CYLINDRICAL, 0, 0, /GRID, /CONTINENTS, $
      TITLE = 'WIND SPEED v/s WIND DATA'
      OPLOT, DATA.FIELD14, DATA.FIELD15
```

Thank you
