Subject: Problem with CONTOUR-Fill
Posted by jkelley on Thu, 28 Jul 1994 02:00:49 GMT
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I have a problem with CONTOUR when I use the /FILL option.
I am trying to color fill contours of temperature and then contour
the isotherms.

Here is my IDL code:

```
CONTOUR,Txz,X,ZM,LEVELS=[5,6,7,8,9,10,11,12,13,14,15,16,17,1 8,19,20,21,22],$
        c_colors=[1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18],  $
        /FOLLOW,NLEVELS=18,/FILL,/OVERPLOT &

CONTOUR,Txz,X,ZM,LEVELS=[5,6,7,8,9,10,11,12,13,14,15,16,17,1 8,19,20,21,22],$
        C_LABELS=[0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0],col=19, $
        /FOLLOW,NLEVELS=18,/OVERPLOT  &
```

The above code works in some instances to create color filled contours
with black contours. However, in other situations it will fill
the area between contours with the same color (ex. green between 6 and 7 and
also between 7 and 8 when it should had been yellow between 7 and 8).

What am I doing wrong?

Novice IDL user,
John Kelley
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Subject: Re: Problem with CONTOUR
Posted by Haje Korth on Wed, 28 Jul 1999 07:00:00 GMT
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David,
I tried your idea already and it didn't work. I was really hoping that you had
an answer for this problem. If you or anyone else finds time to try this out I
would be happy to provide my data array.

Thanks,
Haje

David Fanning wrote:

> Haje Korth (hkorth@lanl.gov) writes:

>
>> I have a problem with the CONTOUR routine and I need some experts help!
>> I have a 2-D data array with missing values marked as -1.0e20. Doing a
>> contour plot I use the MIN_VALUE keyword and set it to -1.0e10. The
>> result is that contours stop, once they reach the missing data region.
>> This is how it should be. As a next step I want to get the paths of the
>> contours (with PATH_XY and PATH_INFO) and there starts the problem:
>> Using the MIN_VALUE keyword seems to eliminate all contours that touch
>> the missing data region. If I omit the MIN_VALUE keyword, the contours
>> run along the missing data region and connect with contours of the same
>> value somewhere else. This is though what I need to avoid.
>> Thus the question is: Is there a way to obtain the paths data exactly as
>> they are plotted in the first described case?
>
> Humm. Don't know. And don't have time to test this idea,
> but have you tried setting the missing values to !Values.F_NAN?
> I can't imagine this would help, but with software you can
> never be sure. :-)
>
> Cheers,
>
> David
> --
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