Subject: strange results using max_value in a contour plot
Posted by ddye on Fri, 04 Oct 2002 20:04:36 GMT
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IDL version 5.4 (IRIX mipseb)

I'm encountering strange results using max_value in a contour plot. I'm attempting to set unwanted data to a # outside of the range (larger than max_value). The funny thing is the contour works fine _unless_ the unwanted values are _over_ the max_value. If I set it to zero: it plots as zero, 1/2 of the range: the appropriate color, a little over the max_value and the whole contour plots white (which is appropriate for zero values:.0000001). I read in previous posts that this was a legitimate use for max_value, what the heck is going on?

Here is the code in question:

```
;********** snip ******************

;the following can be used to set the bathymetry to any #
                    ;//  v-- (changed this to lots of values)
for in=0,58 do begin
 tmparr4[60-in,bathy[in]:*]=9.99E29
endfor

;************************************* row 2 col 3
contour,tmparr4,distance,depth $
 ,xrange=[1,60],yrange=[40,0]  $
 ,titl=titl4                $
 ,levels=scale4zed          $
 ,c_labels=clab             $
 ,C_COLORS=[addC,cvec1]     $
 ,/fill, /closed            $
 ,max_value=ignore          $
 ,FONT=0
```

Subject: resolved strange results: /fill -> /cell_fill
Posted by ddye on Mon, 07 Oct 2002 18:56:43 GMT
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I've tracked the strange results to my use of /fill, rather than /cell_fill

"Use this keyword (/cell_fill) instead of FILL when you are drawing filled contours over a map, when you have missing data, or when contours that extend off the edges of the contour plot."

Note: Due to the same error I also encountered strange results when

attempting to set the data to:
 !Values.F_NaN

-d

ddye@flenvironmental.org (Dan Dye) wrote in message
news:<dfc65bba.0210041204.50d23a53@posting.google.com>...
> IDL version 5.4 (IRIX mipseb)
>
> I'm encountering strange results using max_value in a contour plot.
> I'm attempting to set unwanted data to a # outside of the range
> (larger than max_value). The funny thing is the contour works fine
> _unless_ the unwanted values are _over_ the max_value. If I set it to
> zero: it plots as zero, 1/2 of the range: the appropriate color, a
> little over the max_value and the whole contour plots white (which is
> appropriate for zero values:.0000001). I read in previous posts that
> this was a legitimate use for max_value, what the heck is going on?
>
> Here is the code in question:
> ;********** snip ******************
>
> ;the following can be used to set the bathymetry to any #
>   ;// v-- (changed this to lots of values)
> for in=0,58 do begin
>   tmparr4[60-in,bathy[in]:*]=9.99E29
> endfor
>
> ;************************************ row 2 col 3
> contour,tmparr4,distance,depth $
>   ,xrange=[1,60],yrange=[40,0] $
>   ,titl=titl4 $
>   ,levels=scale4zed $
>   ,c_labels=clab $
>   ,C_COLORS=[addC,cvec1] $
>   ,/fill, /closed $
>   ,max_value=ignore $
>   ,FONT=0