
Subject: Why the contour does not show?

Posted by [xiao zhang](#) on Fri, 21 Nov 2008 19:06:56 GMT

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Hi~ guys. I have a problem here. I have a small program doing a contour plot. But it just shows me the background, not the data. I guess there is something wrong with the colors. Can anyone help?
Thanks

```
lat=fltarr(75)
lon=fltarr(75)
```

```
latstep=(34.3842-31.6985)/74.0
lonstep=(121.5581-118.3524)/74.0
```

```
for i=0,74 do begin
  lat(i)=-31.6985-i*latstep
  lon(i)=118.3524+i*lonstep
endfor
```

```
print,max(lat),min(lat)
print,max(lon),min(lon)
```

```
device,decomposed=0
!p.background = 255
xs=600
ys=600
window,xsize=xs,ysize=ys
```

```
contour,inits,color=0,xrange=[min(lon),max(lon)],yrange=[min (lat),max
(lat)],xtitle='longitude',ytitle='latitude',title='Sensible heat
flux'
```

Subject: Re: Why the contour does not show?

Posted by [R.Bauer](#) on Fri, 21 Nov 2008 21:23:46 GMT

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David Fanning schrieb:

> xiao writes:

>

>> Thanks David. These are useful. And I also found another mistake,
>> because the X,Y range are out of the display so it does not show the
>> data. Now, I am trying to put it in a map projection and fill the
>> color.....

>

> Well, more pitfalls (and reading) then:

>
> http://www.dfanning.com/color_tips/fill_colors.html
>
> Cheers,
>
> David

it is not only incorrect colors. missing data is also shown as data.
Can you provide the data for the examples.

cheers
Reimar

Subject: Re: Why the contour does not show?
Posted by [David Fanning](#) on Fri, 21 Nov 2008 21:45:59 GMT
[View Forum Message](#) <> [Reply to Message](#)

Reimar Bauer writes:

> David Fanning schrieb:
>> xiao writes:
>>
>>> Thanks David. These are useful. And I also found another mistake,
>>> because the X,Y range are out of the display so it does not show the
>>> data. Now, I am trying to put it in a map projection and fill the
>>> color.....
>>
>> Well, more pitfalls (and reading) then:
>>
>> http://www.dfanning.com/color_tips/fill_colors.html
>>
>> Cheers,
>>
>> David
>
> it is not only incorrect colors. missing data is also shown as data.
> Can you provide the data for the examples.

Humm. No, sorry. As I recall, that was from a private e-mail
conversation. The data has long since disappeared. :-(

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.

Subject: Re: Why the contour does not show?
Posted by [xiao zhang](#) on Fri, 21 Nov 2008 21:48:58 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Nov 21, 3:45 pm, David Fanning <n...@dfanning.com> wrote:

> Reimar Bauer writes:

>> David Fanning schrieb:

>>> xiao writes:

>

>>>> Thanks David. These are useful. And I also found another mistake,
>>>> because the X,Y range are out of the display so it does not show the
>>>> data. Now, I am trying to put it in a map projection and fill the
>>>> color.....

>

>>> Well, more pitfalls (and reading) then:

>

>>> http://www.dfanning.com/color_tips/fill_colors.html

>

>>> Cheers,

>

>>> David

>

>> it is not only incorrect colors. missing data is also shown as data.

>> Can you provide the data for the examples.

>

> Humm. No, sorry. As I recall, that was from a private e-mail
> conversation. The data has long since disappeared. :-(

>

> Cheers,

>

> David

> --

> David Fanning, Ph.D.

> Fanning Software Consulting, Inc.

> Coyote's Guide to IDL Programming:<http://www.dfanning.com/>

> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

haha. That is fine, David, But another problem arouse, When I plot
like this:

```
map_set,limit=[-34.3842,min(lon),-31.6985,max(lon)], /noborder,color=0
map_grid, color=0,/label
map_continents,/countries, /coasts, color=0
```

```
contour,inits,color=0,xtitle='longitude',ytitle='latitude', title='Sensible  
heat flux', /device, /CELL_FILL, /Overplot
```

It showed the map, but also, it gave me an error:

Program caused arithmetic error: Floating underflow

Is it because my data is larger than the map or something?

Thanks very much :)

Subject: Re: Why the contour does not show?

Posted by [David Fanning](#) on Fri, 21 Nov 2008 22:16:46 GMT

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xiao writes:

```
> haha. That is fine, David, But another problem arouse, When I plot  
> like this:  
>  
>  
> map_set,limit=[-34.3842,min(lon),-31.6985,max(lon)], /noborder,color=0  
> map_grid, color=0,/label  
> map_continents,/countries, /coasts, color=0  
> contour,inits,color=0,xtitle='longitude',ytitle='latitude', title='Sensible  
> heat flux', /device, /CELL_FILL, /Overplot  
>  
>  
> It showed the map, but also, it gave me an error:  
>  
> Program caused arithmetic error: Floating underflow  
>  
> Is it because my data is larger than the map or something?
```

Oh, underflows can come from a lot of things. The chances are, however, that it is not something to worry over excessively:

http://www.dfanning.com/math_tips/underflow.html

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Subject: Re: Why the contour does not show?

Posted by [xiao zhang](#) on Sat, 22 Nov 2008 00:04:24 GMT

[View Forum Message](#) <> [Reply to Message](#)

On Nov 21, 4:16 pm, David Fanning <n...@dfanning.com> wrote:

```
> xiao writes:
>> haha. That is fine, David, But another problem arouse, When I plot
>> like this:
>
>> map_set,limit=[-34.3842,min(lon),-31.6985,max(lon)], /noborder,color=0
>> map_grid, color=0,/label
>> map_continents,/countries, /coasts, color=0
>> contour,init,color=0,xtitle='longtitude',ytitle='latitude', title='Sensible
>> heat flux', /device, /CELL_FILL, /Overplot
>
>> It showed the map, but also, it gave me an error:
>
>> Program caused arithmetic error: Floating underflow
>
>> Is it because my data is larger than the map or something?
>
> Oh, underflows can come from a lot of things. The chances
> are, however, that it is not something to worry over
> excessively:
>
> http://www.dfanning.com/math\_tips/underflow.html
>
> Cheers,
>
> David
>
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
```

Sorry I have to ask again, i tried to scaled my data, and the result is right, but when I try to plot it, it just show me very few colors (almost bright color) Is it because of my color table? David? Thank you. BTW: i did scale it from 0 to 255.

```
tvlct, r,g,b,/get
```

```
r(0:63)=  
[255,238,221,204,187,170,153,136,119,102,85,68,51,34,17,0,0, 0,0,$  
 0,0,0,0,0,7,15,23,31,38,46,54,62,86,110,134,158,182,206,$  
  
230,255,255,255,255,255,255,255,255,255,255,255,255, 255,$  
255,255,255,255,255,255,255,255,255,255]
```

```
g(0:63)=  
[255,238,221,204,187,170,153,136,119,102,85,68,51,34,17,0,0, 0,0,$  
  
0,0,0,0,0,28,56,84,112,140,168,196,224,227,231,235,239,243,2 47,$  
  
251,255,249,243,237,232,226,220,214,209,182,156,130,104,78,5 2,$  
26,0,0,0,0,0,0,0,0,0]
```

```
b(0:63)=  
[255,238,221,204,187,170,153,136,119,102,85,68,51,34,17,0,0, 36,$  
  
72,109,145,182,218,255,223,191,159,127,95,63,31,0,0,0,0,0, 0,$  
  
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,31,63,95,127,159,191,223 ,255]
```

```
; calcualte the true color index of each color defined above
```

```
cn = r + 256L * ( g + 256L * b)
```

```
max = max(inits)  
inits = (inits-min)/(max-min)  
;print,inits  
inits = inits*255  
inits=fix(inits)          ;Scale
```

```
map_set,limit=[-34.3842,min(lon),-31.6985,max(lon)],color=0, /noborder  
map_grid, color=0  
map_continents,/countries, /coasts, color=0
```

```
contour,inits,color=0,title='Sensible heat flux', /device,/   
NOERASE,xrange=[0,76],/xstyle,xTICKINTERVAL=73,xTICKNAME=[lon1(0),lon1   
(3)],$  
  yrange=[0,73],/ystyle,yTICKINTERVAL=73,yTICKNAME=[lat1(3),lat1(0)],   
$  
  C_COLORS=cn,/CELL_FILL
```

```
screenimg = tvrd(true=1)  
write_jpeg, 'jja.jpg', screenimg, true=1
```

end

Subject: Re: Why the contour does not show?

Posted by [David Fanning](#) on Sat, 22 Nov 2008 00:27:58 GMT

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xiao writes:

> Sorry I have to ask again, i tried to scaled my data, and the result
> is right, but when I try to plot it, it just show me very few colors
> (almost bright color) Is it because of my color table? David? Thank
> you. BTW: i did scale it from 0 to 255.

Well, I don't think the CONTOUR command knows anything
about 24-bit colors. He is older, even, than I am. :-)

It's an odd color table, but why don't you just
load the colors and then tell the Contour command
to use an index into the color table, like this:

```
TVLCT, r, g, b
IF (!D.Flags AND 256) NE 0 THEN $
    Device, Decomposed=0, Get_Decomposed=theState
    CONTOUR, ....., C_Colors=Indgen(64), ....
IF (!D.Flags AND 256) NE 0 THEN $
    Device, Decomposed=theState
```

That might work better. At least it is a place to start.

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: Why the contour does not show?

Posted by [xiao zhang](#) on Sat, 22 Nov 2008 21:42:07 GMT

[View Forum Message](#) <> [Reply to Message](#)

On Nov 21, 6:27 pm, David Fanning <n...@dfanning.com> wrote:

> xiao writes:

>> Sorry I have to ask again, i tried to scaled my data, and the result

```

>> is right, but when I try to plot it, it just show me very few colors
>> (almost bright color) Is it because of my color table? David? Thank
>> you. BTW: i did scale it from 0 to 255.
>
> Well, I don't think the CONTOUR command knows anything
> about 24-bit colors. He is older, even, than I am. :-)
>
> It's an odd color table, but why don't you just
> load the colors and then tell the Contour command
> to use an index into the color table, like this:
>
> TVLCT, r, g, b
> IF (!D.Flags AND 256) NE 0 THEN $
>   Device, Decomposed=0, Get_Decomposed=theState
>   CONTOUR, ....., C_Colors=Indgen(64), ....
> IF (!D.Flags AND 256) NE 0 THEN $
>   Device, Decomposed=theState
>
> That might work better. At least it is a place to start.
>
> Cheers,
>
> David
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming: http://www.dfanning.com/
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

```

Sorry, David, it does not work :(I am trying to think where the problem should be....

Subject: Re: Why the contour does not show?
 Posted by [R.Bauer](#) on Sat, 22 Nov 2008 22:27:28 GMT
[View Forum Message](#) <> [Reply to Message](#)

xiao schrieb:

```

> On Nov 21, 6:27 pm, David Fanning <n...@dfanning.com> wrote:
>> xiao writes:
>>> Sorry I have to ask again, i tried to scaled my data, and the result
>>> is right, but when I try to plot it, it just show me very few colors
>>> (almost bright color) Is it because of my color table? David? Thank
>>> you. BTW: i did scale it from 0 to 255.
>> Well, I don't think the CONTOUR command knows anything
>> about 24-bit colors. He is older, even, than I am. :-)
>>
>> It's an odd color table, but why don't you just

```

>> load the colors and then tell the Contour command
>> to use an index into the color table, like this:
>>
>> TVLCT, r, g, b
>> IF (!D.Flags AND 256) NE 0 THEN \$
>> Device, Decomposed=0, Get_Decomposed=theState
>> CONTOUR,, C_Colors=Indgen(64),
>> IF (!D.Flags AND 256) NE 0 THEN \$
>> Device, Decomposed=theState
>>
>> That might work better. At least it is a place to start.
>>
>> Cheers,
>>
>> David
>> --
>> David Fanning, Ph.D.
>> Fanning Software Consulting, Inc.
>> Coyote's Guide to IDL Programming:<http://www.dfanning.com/>
>> Sepore ma de ni thui. ("Perhaps thou speakest truth.")
>
> Sorry, David, it does not work :(I am trying to think where the
> problem should be....

please post a complete example of what you have now. That is easier to understand.

cheers
Reimar

Subject: Re: Why the contour does not show?
Posted by [David Fanning](#) on Sat, 22 Nov 2008 22:49:17 GMT
[View Forum Message](#) <> [Reply to Message](#)

xiao writes:

> Sorry, David, it does not work :(I am trying to think where the
> problem should be....

It works for me. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: Why the contour does not show?
Posted by [David Fanning](#) on Sat, 22 Nov 2008 23:06:03 GMT
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xiao writes:

> The output is still a gray image but I want it from red to green. :(

Send us the version that incorporates my suggestions, then
we can discuss further.

Cheers,

David

--

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

Subject: Re: Why the contour does not show?
Posted by [xiao zhang](#) on Sat, 22 Nov 2008 23:06:50 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Nov 22, 4:27 pm, Reimar Bauer <R.Ba...@fz-juelich.de> wrote:

> xiao schrieb:

>

>

>

>> On Nov 21, 6:27 pm, David Fanning <n...@dfanning.com> wrote:

>>> xiao writes:

>>>> Sorry I have to ask again, i tried to scaled my data, and the result

>>>> is right, but when I try to plot it, it just show me very few colors

>>>> (almost bright color) Is it because of my color table? David? Thank

>>>> you. BTW: i did scale it from 0 to 255.

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>>> about 24-bit colors. He is older, even, than I am. :-)

>

>>> It's an odd color table, but why don't you just

>>> load the colors and then tell the Contour command

>>> to use an index into the color table, like this:

```

>
>>> TVLCT, r, g, b
>>> IF (!D.Flags AND 256) NE 0 THEN $
>>>     Device, Decomposed=0, Get_Decomposed=theState
>>>     CONTOUR, ....., C_Colors=Indgen(64), ....
>>>     IF (!D.Flags AND 256) NE 0 THEN $
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>> Sorry, David, it does not work :( I am trying to think where the
>> problem should be....
>
> please post a complete example of what you have now. That is easier to
> understand.
>
> cheers
> Reimar

```

Sorry, here u go, the result is a gray image but I want it from read to green :(

```

numColors = 48
tvlct, r,g,b,/get

```

```

r(0:63)=
[255,238,221,204,187,170,153,136,119,102,85,68,51,34,17,0,0, 0,0,$
0,0,0,0,0,7,15,23,31,38,46,54,62,86,110,134,158,182,206,$
230,255,255,255,255,255,255,255,255,255,255,255,255,255, 255,$
255,255,255,255,255,255,255,255,255,255]

g(0:63)=
[255,238,221,204,187,170,153,136,119,102,85,68,51,34,17,0,0, 0,0,$
0,0,0,0,0,28,56,84,112,140,168,196,224,227,231,235,239,243,2 47,$

```

```
251,255,249,243,237,232,226,220,214,209,182,156,130,104,78,5 2,$
26,0,0,0,0,0,0,0,0,0]
```

```
b(0:63)=
[255,238,221,204,187,170,153,136,119,102,85,68,51,34,17,0,0, 36,$
72,109,145,182,218,255,223,191,159,127,95,63,31,0,0,0,0,0, 0,$
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,31,63,95,127,159,191,223 ,255]
```

; calcualte the true color index of each color defined above

```
cn = r + 256L * ( g + 256L * b)
```

```
help,cn
min = min(inits)
max = max(inits)
inits = (inits-min)/(max-min)
```

```
inits = inits*48 + 16
inits=fix(inits)
print,max(inits),min(inits)
```

```
map_set,/CYLINDRICAL,limit=[-34.3842,min(lon),-31.6985,max
(lon)],color=0,/noborder
map_grid, color=0
map_continents,/countries, /coasts, color=0
```

```
contour,inits,color=0,title='Sensible heat flux', /device,/
NOERASE,xrange=[0,76],/xstyle,xTICKINTERVAL=73,xTICKNAME=[lo n1(0),lon1
(3)],$
yrange=[0,73],/ystyle,yTICKINTERVAL=73,yTICKNAME=[lat1(3),la t1(0)],
$
C_COLORS=cn,/CELL_FILL, NLEVELS=20
```

```
Contour, inits, Color=0, NLEVELS=20,/Overplot
```

Subject: Re: Why the contour does not show?

Posted by [xiao zhang](#) on Sat, 22 Nov 2008 23:29:25 GMT

[View Forum Message](#) <> [Reply to Message](#)

On Nov 22, 5:06 pm, xiao <littledd...@gmail.com> wrote:

> On Nov 22, 4:27 pm, Reimar Bauer <R.Ba...@fz-juelich.de> wrote:

>

>

>

```

>> xiao schrieb:
>
>>> On Nov 21, 6:27 pm, David Fanning <n...@dfanning.com> wrote:
>>>> xiao writes:
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>>>> It's an odd color table, but why don't you just
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>
>>>> TVLCT, r, g, b
>>>> IF (!D.Flags AND 256) NE 0 THEN $
>>>>     Device, Decomposed=0, Get_Decomposed=theState
>>>>     CONTOUR, ....., C_Colors=Indgen(64), ....
>>>> IF (!D.Flags AND 256) NE 0 THEN $
>>>>     Device, Decomposed=theState
>
>>>> That might work better. At least it is a place to start.
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>>>> David
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>>>> Sepore ma de ni thui. ("Perhaps thou speakest truth.")
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>>> Sorry, David, it does not work :( I am trying to think where the
>>> problem should be....
>
>> please post a complete example of what you have now. That is easier to
>> understand.
>
>> cheers
>> Reimar
>
> Sorry, here u go, the result is a gray image but I want it from read
> to green :(
>
> numColors = 48
> tvlct, r,g,b,/get
>

```

```

> r(0:63)=
> [255,238,221,204,187,170,153,136,119,102,85,68,51,34,17,0,0, 0,0,$
>
> 0,0,0,0,0,7,15,23,31,38,46,54,62,86,110,134,158,182,206,$
>
> 230,255,255,255,255,255,255,255,255,255,255,255,255, 255,$
> 255,255,255,255,255,255,255,255,255,255]
>
> g(0:63)=
> [255,238,221,204,187,170,153,136,119,102,85,68,51,34,17,0,0, 0,0,$
>
> 0,0,0,0,0,28,56,84,112,140,168,196,224,227,231,235,239,243,2 47,$
>
> 251,255,249,243,237,232,226,220,214,209,182,156,130,104,78,5 2,$
> 26,0,0,0,0,0,0,0,0,0]
>
> b(0:63)=
> [255,238,221,204,187,170,153,136,119,102,85,68,51,34,17,0,0, 36,$
>
> 72,109,145,182,218,255,223,191,159,127,95,63,31,0,0,0,0,0, 0,$
>
> 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,31,63,95,127,159,191,223 ,255]
>
> ; calcualte the true color index of each color defined above
>
> cn = r + 256L * ( g + 256L * b)
>
> help,cn
> min = min(inits)
> max = max(inits)
> inits = (inits-min)/(max-min)
>
> inits = inits*48 + 16
> inits=fix(inits)
> print,max(inits),min(inits)
>
> map_set,/CYLINDRICAL,limit=[-34.3842,min(lon),-31.6985,max
> (lon)],color=0,/noborder
> map_grid, color=0
> map_continents,/countries, /coasts, color=0
>
> contour,inits,color=0,title='Sensible heat flux', /device,/
> NOERASE,xrange=[0,76],/xstyle,xTICKINTERVAL=73,xTICKNAME=[lo n1(0),lon1
> (3)],$
> yrange=[0,73],/ystyle,yTICKINTERVAL=73,yTICKNAME=[lat1(3), lat1(0)],
> $
> C_COLORS=cn,/CELL_FILL, NLEVELS=20
>

```

```
> Contour, inits, Color=0, NLEVELS=20,/Overplot
```

OK, when I using this version, if I put /overplot keyword in the first contour command, it give me floating errors. If i do not use this key word, is does not show the TICKNAME of the axes.

```
numColors = 48  
tvlct, r,g,b,/get
```

```
      r(0:63)=  
[255,238,221,204,187,170,153,136,119,102,85,68,51,34,17,0,0, 0,0,$  
0,0,0,0,0,7,15,23,31,38,46,54,62,86,110,134,158,182,206,$  
230,255,255,255,255,255,255,255,255,255,255,255,255,255, 255,$  
255,255,255,255,255,255,255,255,255,255]
```

```
      g(0:63)=  
[255,238,221,204,187,170,153,136,119,102,85,68,51,34,17,0,0, 0,0,$  
0,0,0,0,0,28,56,84,112,140,168,196,224,227,231,235,239,243,2 47,$  
251,255,249,243,237,232,226,220,214,209,182,156,130,104,78,5 2,$  
26,0,0,0,0,0,0,0,0,0]
```

```
      b(0:63)=  
[255,238,221,204,187,170,153,136,119,102,85,68,51,34,17,0,0, 36,$  
72,109,145,182,218,255,223,191,159,127,95,63,31,0,0,0,0,0, 0,$  
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,31,63,95,127,159,191,223 ,255]
```

```
min = min(inits)  
max = max(inits)  
inits = (inits-min)/(max-min)
```

```
inits = inits* 255  
inits=fix(inits)  
print,max(inits),min(inits)
```

```
map_set,/CYLINDRICAL,limit=[-34.3842,min(lon),-31.6985,max  
(lon)],color=0,/noborder  
map_grid, color=0  
map_continents,/countries, /coasts, color=0
```

```
TVLCT, r, g, b  
IF (!D.Flags AND 256) NE 0 THEN $
```

```
Device, Decomposed=0, Get_Decomposed=theState
yrange=[0,73],/ystyle,yTICKINTERVAL=73,yTICKNAME=[lat1(3),lat1(0)],
$
C_COLORS=colo,/CELL_FILL, NLEVELS=20

Contour, inits, Color=0, NLEVELS=20,/Overplot
IF (!D.Flags AND 256) NE 0 THEN $
Device, Decomposed=theState
```

Subject: Re: Why the contour does not show?
Posted by [David Fanning](#) on Sat, 22 Nov 2008 23:31:48 GMT
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xiao writes:

> OK, when I using this version, if I put /overplot keyword in the first
> contour command, it give me floating errors. If i do not use this key
> word, is does not show the TICKNAME of the axes.

I think you code might be just a little mixed up. Try to
get your entire Contour command in one place in the file.

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: Why the contour does not show?
Posted by [xiao zhang](#) on Sat, 22 Nov 2008 23:40:01 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Nov 22, 5:31 pm, David Fanning <n...@dfanning.com> wrote:

> xiao writes:
>> OK, when I using this version, if I put /overplot keyword in the first
>> contour command, it give me floating errors. If i do not use this key
>> word, is does not show the TICKNAME of the axes.
>
> I think you code might be just a little mixed up. Try to
> get your entire Contour command in one place in the file.
>
> Cheers,

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

:) HERE IT IS

```
min = min(inits)
max = max(inits)
inits = (inits-min)/(max-min)
```

```
inits = inits* 255
inits=fix(inits)
print,max(inits),min(inits)
```

```
map_set,/CYLINDRICAL,limit=[-34.3842,min(lon),-31.6985,max
(lon)],color=0,/noborder
map_grid, color=0
map_continents,/countries, /coasts, color=0
```

```
TVLCT, r, g, b
  IF (!D.Flags AND 256) NE 0 THEN $
    Device, Decomposed=0, Get_Decomposed=theState
```

```
contour,inits,color=0,title='Sensible heat flux', /device,/
NOERASE,xrange=[0,76],/xstyle,xTICKINTERVAL=73,xTICKNAME=[lon1(0),lon1
(3)],$
  yrange=[0,73],/ystyle,yTICKINTERVAL=73,yTICKNAME=[lat1(3),lat1(0)],
$
  C_COLORS=Indgen(64),/CELL_FILL, NLEVELS=20
```

```
Contour, inits, Color=0, NLEVELS=20,/Overplot
```

```
  IF (!D.Flags AND 256) NE 0 THEN $
    Device, Decomposed=theState
```

Subject: Re: Why the contour does not show?
Posted by [David Fanning](#) on Sun, 23 Nov 2008 00:26:41 GMT
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xiao writes:

> :) HERE IT IS

OK, here is what I would do. I'd take about 3 or 4 really deep breaths. Then maybe I'd go get a beer. While I was walking to the cooler, I'd be thinking about what I was really trying to do here.

When I got back, and finished the beer, I would re-read all those Contour articles on Fanning's web page again, this time with the goal of understanding why he is doing the things he is doing.

Then, I would have a long, hard look at this code again. Here are the questions I would be trying to ask myself.
(1) How many colors do I expect to see on the contour plot? How do I know what those colors are? How do I know if my data will be displayed with those colors? How can I make sure it will be displayed with those colors? What assumptions am I making currently that are just plain wrong?

When I worked though all of that, I'd write this code over from scratch, making sure no line in it was longer than about 50 characters or so, in case I had to send it to somebody to help me with this. If I did need to send it, I'd think about making a simple data set that I could send them so they didn't have to spend a half hour themselves writing code to run my program.

When I was finished with all of that, I probably wouldn't have to ask any more questions, but if I did, I would be in a MUCH better place to do so. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Seppure ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: Why the contour does not show?

Posted by [xiao zhang](#) on Mon, 24 Nov 2008 00:18:47 GMT

[View Forum Message](#) <> [Reply to Message](#)

On Nov 22, 6:26 pm, David Fanning <n...@dfanning.com> wrote:

> xiao writes:

>> :) HERE IT IS

>
> OK, here is what I would do. I'd take about 3 or 4 really
> deep breaths. Then maybe I'd go get a beer. While I was walking
> to the cooler, I'd be thinking about what I was really
> trying to do here.
>
> When I got back, and finished the beer, I would re-read
> all those Contour articles on Fanning's web page again,
> this time with the goal of understanding why he is doing
> the things he is doing.
>
> Then, I would have a long, hard look at this code again.
> Here are the questions I would be trying to ask myself.
> (1) How many colors do I expect to see on the contour
> plot? How do I know what those colors are? How do I know
> if my data will be displayed with those colors? How can
> I make sure it will be displayed with those colors? What
> assumptions am I making currently that are just plain wrong?
>
> When I worked though all of that, I'd write this code over
> from scratch, making sure no line in it was longer than
> about 50 characters or so, in case I had to send it to
> somebody to help me with this. If I did need to send it,
> I'd think about making a simple data set that I could send
> them so they didn't have to spend a half hour themselves
> writing code to run my program.
>
> When I was finished with all of that, I probably wouldn't
> have to ask any more questions, but if I did, I would be
> in a MUCH better place to do so. :-)
>
> Cheers,
>
> David
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming:<http://www.dfanning.com/>
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Thanks for your advice. David, after two cans of moutaindew, I work it out.

First I have to set the r, g, b, array right. Then, I have to use much more levels in the contour command to make sure that all the colors are shown.

Thanks :)

Subject: Re: Why the contour does not show?

Posted by [David Fanning](#) on Mon, 24 Nov 2008 02:32:45 GMT

[View Forum Message](#) <> [Reply to Message](#)

xiao writes:

> Thanks for your advice. David, after two cans of moutaindew, I work it
> out.
> First I have to set the r, g, b, array right. Then, I have to use much
> more levels in the contour command to make sure that all the colors
> are shown.

There you go. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")
