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 is just show 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='longtitude',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 View Forum Message <> Reply to Message

```
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 an d 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,

Page 2 of 20 ---- Generated from comp.lang.idl-pvwave archive

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
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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.
```

>> Can you provide the data for the examples.
>

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

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

>>> David

- > Oneers
- > 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='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?

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

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

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
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```
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,inits,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.$
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,$
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,31,63,95,127,159,191,223 ,255
: calcualte the true color index of each color defined above
cn = r + 256L * (q + 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=[lo n1(0),lon1
(3)1,$
  yrange=[0,73],/ystyle,yTICKINTERVAL=73,yTICKNAME=[lat1(3),la t1(0)],
 C COLORS=cn,/CELL FILL
screenimg = tvrd(true=1)
write jpeg, 'jja.jpg', screenimg, true=1
```

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.
Covote's Guide to IDL Programming:

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
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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
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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
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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.

>>> 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, q, 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
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,$
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,$
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,31,63,95,127,159,191,223 ,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
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```
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:
>>>> 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
> 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,$
>
  255,255,255,255,255,255,255,255,255]
>
>
     q(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,$
  0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,31,63,95,127,159,191,223 ,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 axies.

```
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,$
255,255,255,255,255,255,255,255,255
   q(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,$
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,31,63,95,127,159,191,223 ,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),la t1(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 axies.

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
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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 axies.

>

- > 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=[lo n1(0),lon1
(3)1,$
  yrange=[0,73],/ystyle,yTICKINTERVAL=73,yTICKNAME=[lat1(3),la t1(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/
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Subject: Re: Why the contour does not show?
Posted by xiao zhang on Mon, 24 Nov 2008 00:18:47 GMT
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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

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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.")