
Subject: Anyone can explain this?

Posted by [xiao zhang](#) on Sun, 07 Dec 2008 20:40:25 GMT

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

Hi ~ guys. I have a question about the contour command. When I call it like this:

```
r=[136,119,102,085,068,051,034,017,000,000,000,000,000,$
000,000,000,000,000,000,007,015,023,031,038,046,054,062,086, 110,134,158,182,$
206,230,255,255,255,255,255,255,255,255,255,255,255, 255,255,255,255,255,$
255,255,255,255,255,255,255,255,255,255]

g=[136,119,102,085,068,051,034,017,000,000,000,000,000,$
000,000,000,000,000,000,028,056,084,112,140,168,196,224,227, 231,235,239,243,$
247,251,255,250,245,240,235,230,225,220,215,210,200,190,170, 156,130,104,078,052,026,$
000,000,000,000,000,000,000,000,000,000,000]
;
b=[136,119,102,085,068,051,034,017,000,000,020,050,080,$
109,120,145,182,218,255,223,191,159,127,095,063,031,000,000, 000,000,000,000,$
000,000,000,000,000,000,000,000,000,000,000,000,000, 000,000,000,000,000,$
000,031,050,080,100,125,150,170,191,223,255]

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

window,xsize=xs,ysize=ys+100,retain = 2

map_set,/grid, /continents,/CYLINDRICAL,limit=[-34.3842,min
(lon),-31.6985,max(lon)],$
color=64,/noborder,ymargin=[15,5]

map_grid, color=64
map_continents,/countries, /coasts, color=64

contour,inits,color=64,title='Sensible heat flux', /device,/
NOERASE,xrange=[0,76],$
/xstyle,xTICKINTERVAL=73,xTICKNAME=[lon1(0),lon1(3)],$
yrange=[0,74],/ystyle,yTICKINTERVAL=73,yTICKNAME=[lat1(3),la t1(0)],
$
C_COLORS=cn,/cell_FILL,nLEVELS=48,ymargin=[15,5]

Contour, inits, Color=63,/Overplot,nLEVELS=30
```

It always starts fill the contour from the first color no matter what value i change in the C_COLORS=cn key word. (For example. change it to C_COLORS=cn+15 or C_COLORS=cn +35)

But when I do it like this:

```
cn1= cn (15:63)
```

```
map_set,/grid, /continents,/CYLINDRICAL,limit=[-34.3842,min  
(lon),-31.6985,max(lon)],  
color=64,/noborder,ymargin=[15,5]
```

```
map_grid, color=64  
map_continents,/countries, /coasts, color=64
```

```
contour,init,color=64,title='Sensible heat flux', /device,  
NOERASE,xrange=[0,76],$  
/xstyle,xTICKINTERVAL=73,xTICKNAME=[lon1(0),lon1(3)],  
yrange=[0,74],/ystyle,yTICKINTERVAL=73,yTICKNAME=[lat1(3),lat1(0)],  
$  
C_COLORS=cn1,/cell_FILL,nLEVELS=48,ymargin=[15,5]
```

```
Contour, init, Color=63,/Overplot,nLEVELS=30
```

It shows me the right color and I can change the color in the contour command, Why is that? Any one got ideas?

Thanks

Subject: Re: Anyone can explain this?

Posted by [David Fanning](#) on Wed, 10 Dec 2008 17:40:05 GMT

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

xiao writes:

```
> Sorry, David, But i have another question, I suddenly realized that my  
> map did not show the continent line. The continent line was erased by  
> the contour . But if I put the map_grid and map_continents after the  
> contour, it showed me the error :  
> -Current plotting device must have mapping coordinates..  
> I think i have used the overplot and noerase key word in contour  
> command. But it still does not shown.....
```

I think the (unneeded) NOERASE keyword in the CONTOUR command is causing a different set of data coordinates to be established by the CONTOUR command. You want the data coordinates to be set by the MAP_SET command. You can either re-issue the MAP_SET command after you issue the CONTOUR command (to re-establish) the map data coordinates, or you can take the NOERASE off the CONTOUR command. I would try the latter first.

Is the data you are trying to contour in latitude and longitude units?

Cheers,

David

--

David Fanning, Ph.D.
Coyote's Guide to IDL Programming (www.dfanning.com)
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: Anyone can explain this?

Posted by [xiao zhang](#) on Wed, 10 Dec 2008 17:56:58 GMT

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

On Dec 10, 11:40 am, David Fanning <n...@dfanning.com> wrote:

> xiao writes:

>> Sorry, David, But i have another question, I suddenly realized that my
>> map did not show the continent line. The continent line was erased by
>> the contour . But if I put the map_grid and map_continents after the
>> contour, it showed me the error :
>> -Current plotting device must have mapping coordinates..
>> I think i have used the overplot and noerase key word in contour
>> command. But it still does not shown.....

>

> I think the (unneeded) NOERASE keyword in the CONTOUR command
> is causing a different set of data coordinates to be established
> by the CONTOUR command. You want the data coordinates to be set
> by the MAP_SET command. You can either re-issue the MAP_SET command
> after you issue the CONTOUR command (to re-establish) the map data
> coordinates, or you can take the NOERASE off the CONTOUR command.
> I would try the latter first.

>

> Is the data you are trying to contour in latitude and longitude units?

>

> Cheers,

>

> David

> --

> David Fanning, Ph.D.

- > Coyote's Guide to IDL Programming (www.dfanning.com)
- > Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Thank you David, you reply so fast :)

Yeap, they are in latitude and longitude units.

The interesting thing is that if I take off the NOERASE in CONTOUR, it did not show the plot, but when i reset the map coordinates, it works. :)

Subject: Re: Anyone can explain this?

Posted by [David Fanning](#) on Wed, 10 Dec 2008 18:11:12 GMT

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

xiao writes:

- > Thank you David, you reply so fast :)

Just part of the premium service. :-)

- > Yeap, they are in latitude and longitude units.
- > The interesting thing is that if I take off the NOERASE in CONTOUR, it
- > did not show the plot, but when i reset the map coordinates, it
- > works. :)

Well, let's just hope we both mean the same thing
by "works". :-)

Cheers,

David

--

David Fanning, Ph.D.

Coyote's Guide to IDL Programming (www.dfanning.com)

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