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Subject: color shift between 2 contour plots?

Posted by [WRC2008](#) on Tue, 22 Jan 2008 13:56:49 GMT

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In my previous posts, I have asked some questions on how to create blue-white-red color table. This was answered by David, and now I use the following description to create this table:

```
CTLoad, 1, NCOLORS=128
CTLoad, 3, /REVERSE, NCOLORS=128, BOTTOM=128
```

Maybe smaller question here: Is the above possible to create the same colors, but without the white in the middle?

Now, I am plotting to contourplots in the same window, each from a different dataset. I set the number of levels myself, by doing this:

```
mindiff = 990
nlv=17
levs=mindiff+findgen(nlv)*2.5
```

Now, the odd thing is, that the colors in the second plot are shifted one value compared to the first contourplot, although I use the same number of levels for both plots. For example: the light blue band in the first plot are values between 997.5 and 1000, while in the second plot the same band has values between 1000 and 1002.5. This is the case for all colors. This makes the comparison between the 2 plots really misleading and erroneous. Below the code how I plot the 2 contourplots:

```
map_set,/Cylindrical,/iso,/GRID,limit=LIMITS,/ADVANCE
contour, pres,lon,lat,/fill,/overplot, /noerase, LEVELS=levs
CONTOUR, pres,lon,lat,/follow,/overplot, /noerase,LEVELS=levs
map_continents,/continents,/countr,/ADVANCE
map_grid, /ADVANCE, Label=1, LATLAB=-17.5, CHARTHICK=1.3,
LATS=[80,70,60,50,40,30,20],
LATNAMES=['70°N','60°N','50°N','40°N','30°N','20°N'],$
LONLAB=73, LONS=[-20,-10,0,10,20,30],
LONNAMES=['20°W','10°W','0°','10°E','20°E','30°E']
```

```
map_set,/Cylindrical,/iso,/GRID,limit=LIMITS,/ADVANCE
contour, pres1,lon1,lat1,/fill,/overplot, /noerase, LEVELS=levs
CONTOUR, pres1,lon1,lat1,/follow,/overplot, /noerase,LEVELS=levs
map_continents,/continents,/countr,/ADVANCE
map_grid, /ADVANCE, Label=1, LATLAB=-17.5, CHARTHICK=1.3,
LATS=[80,70,60,50,40,30,20],
LATNAMES=['70°N','60°N','50°N','40°N','30°N','20°N'],$
LONLAB=73, LONS=[-20,-10,0,10,20,30],
```

```
LONNAMES=['20°W','10°W','0°','10°E','20°E','30°E']
```

Can somebody help me out with this???

Thank you!

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