Subject: Re: Log-scaled colorbar example
Posted by David Fanning on Mon, 23 May 2011 15:37:38 GMT
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Kim writes:

> After several unsuccessful attempts at trying to generate a log-scaled
> colorbar using the COLORBAR function, I came up with a way to manually
> create the colorbar. If someone could please look at the code and let
> me know if this seems correct I would really appreciate it.

Well, your plots are beautiful, but I am not sure they
are correct. :-)

Here is code that I *know* produces the correct result:

```
image = cgDemoData(7) ; World Elevation Data
image = Scale_Vector(image, 1, 2500L)
logImage = Alog10(image)
s = Size(image, /Dimensions)
cgDisplay, 600, 400, Title='Logarithmic Color Bar'
LoadCT, 33, /Silent, NColors=254
pos = [0.1, 0.1, 0.8, 0.9]
cgImage, BytScl(logImage, Top=253), Position=pos, /Keep_Aspect
cgPlot, [0], [0], /NoErase, XRange=[0,s[0]], YRange=[0,s[1]], $
   XStyle=1, YStyle=1, Color=cgColor('black', 255), Position=pos
cgColorbar, /YLOG, YTICKS=0, Range=[Min(image), Max(image)], $
   NColors=254, Color=cgColor('black', 255), /Vertical
END
```

How do I know? I can check it.

```
IDL> cgImageInfo, image
```

You can click in the graphics window and the image position
and value will be printed in the command log. (Right click
to exit the cgImageInfo program.) You can clearly see that
the image value corresponds to the colors on the color bar.

Can you reproduce this figure and color bar with your
code? (I haven't been able to, but I've spent less than
an hour trying.) When you can reproduce this figure, then
I think you are on the right track.

Cheers,

David

--
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Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")
