Subject: Re: cgScaleVector and diverging colorbar help
Posted by David Fanning on Thu, 25 Jun 2015 16:19:28 GMT

David Fanning writes:

>
> sam.tushaus@gmail.com writes:
>
>> Hello all! I'm trying to create a plot with a diverging colorbar. I would like white to correspond
to 0, and my data is typically in the range [-5,70] on a latitude-longitude grid.
>>
>> I've been using this page (http://www.idlcoyote.com/code_tips/scaleimage.html) as a
reference. The first problem comes when I try to use cgImage to display my scaled data - the map
becomes highly distorted. Is there any way to fix this?
>>
>> My second problem comes when I try to use cgContour to display my scaled data instead of
cgImage. The contouring looks generally correct, but the whole range of the colorbar is used in
the contouring. This is a problem because my data range is [-5,70] and I want 0 to be white.
>>
>> I really appreciate any comments or hints on how to fix this
>
>   data = cgScaleVector(cgDemoData(7), -5, 70)
>   Loadct, 0 ; Reset colors
>   cgLoadct, 1, NColors=10, Clip=[100,250]
>   cgLoadCt, 3, NColors=140, Bottom=11, /Reverse
>   TVLCT, cgColor('white', /Triple), 10
>   cgImage, BytScl(data, Top=151), Position=[0.125, 0.1, 0.925, 0.75]
>   cgColorbar, NColors=151
>   cIndex
>   END

Whoops! The cgColorbar command should have a range on it:

   cgColorbar, NColors=151, Range=[-5, 70]

Cheers,

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