Subject: Re: colorbar question
Posted by David Fanning on Tue, 17 Apr 2012 18:00:16 GMT

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zolile mtumela writes:

> My problem is that, we have values between(1 to 5 mHz) lets say
> (2.1, 2.3,2.5,2.9,3.3,4.2,..)that correspond to these cities/mag
> stations. Each and every city has their value. I want a different
> color for each city and display that color at the color with their
> value. With xyouts,...,color=220, displays one color in all cities on
> the map. I want different for these cities and also represent using
> color bar.

Yes. Color 220 is a *particular* color in the color table. It is
always the *same* color! Suppose your city colors range from 1.1 to 5.8.
You could scale these colors into the 256 values of the color table
by doing something like this:

```
  minCityClr = 1.1
  maxCityClr = 5.8
  XYOuts, ..., Color=BytScl(cityColor, MIN=minCityClr, MAX=maxCityClr)
```

Now, your colors will look something like this:

```
  Print, BytScl(2.1, MIN=minCityClr, MAX=maxCityClr)
    54
  Print, BytScl(2.3, MIN=minCityClr, MAX=maxCityClr)
    65
  Print, BytScl(2.5, MIN=minCityClr, MAX=maxCityClr)
    76
```

This way, you are at the mercy of your color table. So
I wouldn't do it this way. I would probably just make
a vector of colors with the right number of colors:

```
  cityColors = ['red', 'green', 'purple', ...]
```

And do it in a loop:

```
  FOR j=0,numCities-1 DO cgText, city_lon[j], city_lat[j], $
    city_name[j], Color=cityColors[j]
```

And, yeah, I'd be using Coyote Graphics routines. :-)

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.")