Subject: Re: Using color table to map symbol colors in plot
Posted by laura.hike on Mon, 22 May 2017 22:12:45 GMT
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On Friday, May 19, 2017 at 2:59:51 AM UTC-7, Markus Schmassmann wrote:
> On 05/19/2017 03:26 AM, LMH wrote:
>
>> I can't find a similar question from earlier, but feel free to point
>> me to one instead of answering.
>>
>> I am making a map and would like to overplot values at given
>> locations. The values are at random positions, so I want to plot
>> them as dots, not using a contour plot. (Maybe if I get desperate
>> I'll try that.) I start with
>>
>> m = map("geographic",limit = [-25,139.8,-9.9,155]) m1 =
>> mapcontinents(/hires)
>>
>> I have three sets of data, lats, lons, and some values in an array
>> we'll call "values". I want to plot points at the locations of the
>> lat, lon pairs with the colors based on values. So after using a
>> loadct, I scale the values to 0-255 in "ivalues". What I want to do
>> next is something like
>>
>> p = plot(lons, lats, color = ivalues, linestyle = 'none', symbol =
>> 'o', sym_filled = 1, /overplot)
>>
>> but I get "PLOT: Invalid internal color." when I do. I can plot
>> the data using one color value at a time, i.e.,
>>
>> p1 = plot(lons[where(c eq 225)], lats[where(c eq 225)], color =
>> 'yellow', linestyle = 'none', symbol = 'o', sym_filled = 1,
>> /overplot)
>>
>> but, even in that style, not with a numerical value corresponding to
>> the color table, i.e., color = 255. Is there any way to do what I'm
>> looking for? From what I can tell, all of the color properties used
>> with "plot" (like "symbol_color" or just "color") only take the named
>> palette of colors as shown on
>>
>> https://www.harrisgeospatial.com/docs/formattingsymsandlines .html
> try one of these:
>
> s=scatterplot(lon,lat,symbol='o',sym_filled=1,/overplot,magn itude=ivalues,rgb_table=yourCT)
>
> p=plot(lon,lat,linestyle = 'none', symbol='o', sym_filled = 1,$
> /overplot,vert_colors=yourCT[*,ivalues])
>

> where yourCT is the color table in format byte(3,255)
>
> code not tested, I hope this does what you are looking for, Markus

Thanks, the "scatterplot" version worked great. (I didn't try the other.)
