## Subject: trying to convert map to graphic functions Posted by Brian McNoldy on Fri, 10 Jun 2016 13:38:54 GMT

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I still don't use the "new" graphics system much, just because the old way is so entrenched in my memory. But I do really like the new system when I do try it (and can get it to do what I want). I have a plot that I'd love to switch over, but have had a rather hard time getting the same behavior.

It begins with a map (box axes, 0.5 degree lat/lon spacing, simple decimal degree labels aligned parallel with the axes). Then I have a series of colored dots on there (looks like a squiggly rainbow line), where the colors vary by altitude. Then there are wind barbs, which are also colored by altitude. The wind barbs have a quality flag value printed next to them. Finally, I draw circles around the top and bottom points of the colored dots. The code looks like this:

```
window,0,xsize=900,vsize=950
  loadct,39
  !p.color=0
  !p.background=255
  map_set,/cyl,limit=[min(lat)-2,min(lon)-2,max(lat)+2,max(lon
)+2],/isotropic,/noborder,position=[0.02,0.04,0.98,0.90]
  map_continents,/hi,/coasts
  map_grid,latdel=0.5,londel=0.5,/box_axes
  for p=0,n_elements(pres)-1 do begin
     plots.lon[p].lat[p].psym=3,thick=10.symsize=5,color=(pres[p]/max(pres))*254
  endfor
  plot range rings2, dist thresh*111.2, lon[0], lat[0], color=50
  plot range rings2, dist thresh*111.2, lon[-1], lat[-1], color=23 0
  for p=0,n_elements(amv_pres)-1 do begin
    wind barb,amv wspd[p],amv wdir[p],amv lons[p],amv lats[p],$
      size=0.1,color=(amv_pres[p]/max(amv_pres))*254
     xyouts,amv_lons[p],amv_lats[p],string(amv_qi[p],format='(f4. 2)'),$
      charsize=1,/data,noclip=0
  endfor
  xyouts,0.5,0.96,title_string,charsize=3,align=0.5,/normal
```

The figure looks like this:

http://andrew.rsmas.miami.edu/bmcnoldy/tmp/map\_example.png

I have been stumped just trying to get the grids and labels to look the same! I'm also not sure how to loop through and vary the plotting color by value using SYMBOL but not in indexed color space.

Maybe this is a case where it's best to stick with what I've got, but if anyone has any quick insights, I'd be happy to try them!

## Thanks, Brian

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