Subject: Creating a legend on graphs in postscript, and maps Posted by wdolan on Thu, 16 Jul 2015 15:51:31 GMT

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I've got a working code that prints graphs to a postscript file, but I can't seem to get a legend to work. I have the whole set_plot, 'ps' stuff at the top of the code, so that should be running fine. But I can't seem to get a legend to appear. The plot is first set up early in the code: plot, [0, 90], [0,1], TITLE= 'run'+rnid, ystyle=8, XTITLE= 'Latitude', /nodata, position=[.2,.2, .75,.9] axis, yaxis = 0, yrange= [0,1], /save, ytitle = 'Ethylene Strength (K)'

```
and then the first set of data is plotted on it:
if AvgEth LT GenDo AND AvgEth GT Gen125Do then begin
    plots, btstruc.latitude(rnscan(j)), diff, col=240, psym=1
  endif else if AvgEth LT Gen125Do AND AvgEth GT Gen150Do then begin
     plots, btstruc.latitude(rnscan(j)), diff, col=220, psym=1
  endif else if AvgEth LT Gen150Do AND AvgEth GT Gen175Do then begin
    plots, btstruc.latitude(rnscan(j)), diff, col=200, psym=1
  endif else if AvgEth LT Gen175Do AND AvgEth GT Gen2Do then begin
    plots, btstruc.latitude(rnscan(j)), diff, col=170, psym=1
  endif else if AvgEth LT Gen2Do then begin
     plots, btstruc.latitude(rnscan(j)), diff, col=130, psym=1
  endif
```

```
And then we make another Y axis, and plot that data on it:
axis, yaxis=1, yrange=[0,3E-7], ytitle='CO Concentration(ppv)', /save
 grun=where(strucCo.run EQ rnid)
 oplot, strucCO.latitude(grun), StrucCO.Species(minpos,grun)
 oplot, [!x.crange(0), !x.crange[1]], [avgCO, avgCO], linestyle = 5
```

I've also got a map, not in postscript, that needs a legend. This is what the code looks like thus far for this part:

```
set_plot, 'x'
    map_set, /NOERASE
    map_continents
   lat = btstruc.latitude(rnscan(i))
   lon = btstruc.longitude(rnscan(j))
   if AvgEth LT GenDo AND AvgEth GT Gen125Do then begin
     plots, lon, lat, col=250, psym=1
    endif else if AvgEth LT Gen125Do AND AvgEth GT Gen150Do then begin
     plots, Ion, lat, col=220, psym=1
    endif else if AvgEth LT Gen150Do AND AvgEth GT Gen175Do then begin
     plots, lon, lat, col= 200, psym=1
    endif else if AvgEth LT Gen175Do AND AvgEth GT Gen2Do then begin
     plots, lon, lat, col=170, psym=1
    endif else if AvgEth LT Gen2Do then begin
      plots, lon, lat, col=130, psym=1
    endif
```

It doesn't seem like there is just a basic legend command. Or if there is, everything has to be in the format of p1=plot(x, y, etc.), and leg=legend(blah) but that style doesn't seem to want to print to postscript.

Thanks for helping out a newbie!