
Subject: cgWindRose has error producing legend?
Posted by [BLesht](#) on Mon, 20 Oct 2014 16:59:44 GMT
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Hi - I am using cgWindRose for a little exploratory work. My input data are straightforward, hourly observations from a NDBC buoy. I just remove the missing data and call cgWindRose:

```
;
good = WHERE(wd NE 99.00, ngood)      ; Missing wind data have value 99.00
cgWindRose, wspd[good], wd[good], TITLE = buoyName+STRING(year, FORMAT='(I5)')
;
```

I do get a wind rose, but two things are strange. First, it looks like the rose isn't sized correctly for the window - the "East" label is cut off - and second, I get a legend heading "Wind Speed (m/s)" but no legend with the error message:

Traceback Report from CGLEGENDITEM::INIT:

```
% CGLEGENDITEM::INIT: Number of COLORS elements not equal to the number of legend
items.
```

```
% Execution halted at: CGLEGENDITEM::INIT 234
/Users/blesht/IDLStuff/coyote/cglegenditem__define.pro
%          CGLEGEND      200 /Users/blesht/IDLStuff/coyote/cglegend.pro
%          CGWINDROSE    363 /Users/blesht/IDLStuff/coyote/cgwindrose.pro
%          LSUP_WIND_STRESS 35
/Users/blesht/IDLWorkspace82/Default/lsup_wind_stress.pro
%          $MAIN$
```

I'm running IDL8.2.3 on MacOSX10.8.5 and my Coyote library is current through revision 1494. I don't have any other graphics calls (e.g. color tables, etc.) before the call to cgWindRose.

I haven't seen any other posts reporting this (or any other issues with cgWindRose), so I'm probably doing something wrong, but I haven't figured out what it could be. Any help much appreciated.

Thanks, Barry

Subject: Re: cgWindRose has error producing legend?
Posted by [David Fanning](#) on Mon, 20 Oct 2014 19:20:53 GMT
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Barry Lesht writes:

```
> observations from a NDBC buoy. I just remove the missing data and call cgWindRose:
> ;
> good = WHERE(wd NE 99.00, ngood)      ; Missing wind data have value 99.00
> cgWindRose, wspd[good], wd[good], TITLE = buoyName+STRING(year, FORMAT='(I5)')
> ;
> I do get a wind rose, but two things are strange. First, it looks like the rose isn't sized correctly
```

for the window - the "East" label is cut off - and second, I get a legend heading "Wind Speed (m/s)" but no legend with the error message:

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>
> Traceback Report from CGLEGENDITEM::INIT:
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> I'm running IDL8.2.3 on MacOSX10.8.5 and my Coyote library is current through revision 1494.
I don't have any other graphics calls (e.g. color tables, etc.) before the call to cgWindRose.
>
> I haven't seen any other posts reporting this (or any other issues with cgWindRose), so I'm
probably doing something wrong, but I haven't figured out what it could be. Any help much
appreciated.
```

Don't know. When I tried to run the example WindowRose program in the Coyote Gallery, I had some problems. First, it was calling a retired Coyote Library routine, and then it was having problems with cgPlotS. Plus, the link in the internal documentation was wrong.

I have had a few problems with cgPlotS, since I modified it 10 October to allow a vector of symbol types. I really didn't fully appreciate the number of strange ways PlotS could be called! So, more effort to fix these problems.

I didn't see anything like the problems you report, though. :-)

I guess I would get these two new programs and see if anything anything changes for you. If not, we can go from there.

<http://www.idlcoyote.com/programs/cgwindrose.pro>
<http://www.idlcoyote.com/programs/cgplots.pro>

The windrose example code can be found here:

<http://www.idlcoyote.com/gallery/windrose.zip>

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>
Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: cgWindRose has error producing legend?

Posted by [BLesht](#) on Tue, 21 Oct 2014 01:39:13 GMT

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Well, that's pretty strange. I substituted the new versions of cgWindRose.pro and cgPlotS.pro for the old ones and ran my code. There was no difference in output; the right side ("East") is still cut off and I get the same error message about the legend colors. However, when I run the example code, it works fine.

So what's different? The only thing I see is that the example uses a SAM file as input and I pass the wind speed and direction arrays directly. I'll play with it for a bit more.

Oh, by the way, the link to the example code should be

http://www.idlcoyote.com/gallery/windrose_plot.zip

Subject: Re: cgWindRose has error producing legend?

Posted by [BLesht](#) on Tue, 21 Oct 2014 01:52:43 GMT

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OK - found the problem (silly operator error on my part). My test for missing values was wrong (I'm too embarrassed to explain why) but when I fixed it, the plot looks fine. Sorry - :-(
