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Subject: Can I use HISTOGRAM to do this?

Posted by [bridgemat](#) on Mon, 28 Jun 2004 21:57:43 GMT

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OK, I just recently learned the basics of HISTOGRAM and made a nice little plot of a 90x90 array of latitude values that shows the # of elements with values that fall within 1-degree latitude bands:

```
hist=histogram(geo.lat,min=30,max=90)
ind=indgen(61) + 30.5
plot,ind,hist,psym=10,xrange=[30,90],xstyle=1
```

Now I'm hoping to use it with a more complicated situation, but I haven't been able to wrap my head around the logic yet. Hopefully someone out there can enlighten me! Here's the scoop:

I have another 90x90 array whose elements are the number of days during a year that meet certain criteria at each particular point (8100 points in all that correspond to the 8100 latitudes in the array above). What I want is a histogram that shows the average of the number of days at all points that lie within each 1-degree latitude band over the same 30 - 90 degree space as the histogram created above. (Does that make any sense?) So somehow I need to combine the data from both arrays into one histogram. Or maybe HISTOGRAM is the wrong way to be displaying this data. Maybe I should be using a bar plot, but I don't think that would give the sense that it's the # of days when we're BETWEEN, say, 43 and 44 degrees North. Or maybe it would just have to be a standard line plot. I'm not sure...

-Bridget

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