

NAME: _____ date: _____



Sailing Trip

You are a sailboat captain in The Hamptons, an upscale vacation venue. You must schedule sailing trips for your company to amuse tourists and make money for your company.

1. Open MyNASAData.

<http://mynasadata.larc.nasa.gov/>

2. Click on +Data Access

3. Click on +Live Access Server (Advanced Edition)

4. Under Select Data Set, click on Oceans

5. Under Dataset Variable(s), select Monthly Wind Speed-Climatology 1995 to 2005 (NOAA NCDC)

6. Click on the red Next button

7. Check that the following options are selected:

View: Time series (t)

Output: Line plot

Region: Full Region

In the Longitude and Latitude value boxes, type in: 40.96 N

72.25 W 72.25 W

40.96 N

Time: 15-Jan to

15-Dec

8. Click the red Next. A window will appear with your line plot data.

Using the background knowledge about sailing and safe ranges of wind speed, list the months of the year that would not be safest to sail. Explain why. (Be sure to consult the Beaufort Scale and other resources)

What range of time is best to take tourists on sailing trips? Why?

As the company owner, you want to get away for a vacation. What month or months would you most likely choose as your vacation time frame? Why?

Money Matters:

You can take up to 15 passengers on your sailboat per trip. Your trips are about one hour each. In a typical day, you make 7 trips. You charge \$15 per passenger, per trip.

- If you make all 7 trips with a full boat each time, how much money do you make in one day?*
- You have a crew of 2 not including yourself. If you make 7 trips with a full boat and split the money evenly, how much would you make in one day?*
- With 7 days of sailing 7 trips a day with a full boat, how much do you make per week?*
- With a month of sailing 7 trips a day with a full boat, how much do you make per month?*