

- Click "Back" to return to the NOAA Research "Hurricanes" main page, or choose "Hurricanes" from Bookmarks or Favorites.
- Click "Gather Data."

III. Gather Data

None of the sets of points that you will place on the graphs on the next few pages will form perfect lines. You will have to determine where the line should be to best fit the data points.

Example: Below is a sample data set (a collection of information) to show you the best-fit line idea. Notice on the graph below that there is a perfectly straight line that comes as close as possible to all the data points but doesn't actually touch any data points.





- Click on the "Tropical Cyclone Reports" site.
- Select "Atlantic" for the basin.
- Select "2003" for the year.
- Select "Claudette."

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- Follow the "Hurricane Claudette (Atlantic)" link to see the report in a new browser window.
- Scroll to the bottom of Table 1 to find the pressure at landfall at Matagorda Island, TX.
- In Table 3, in the Storm Tide column, find the highest recorded storm tide.

- Mark the place on the following graph where the two numbers meet.

Find and record the same information (pressure at landfall and highest storm tide height) for the following Atlantic hurricanes:

Juan (2003) Isabel (2003) Michelle (2001) Floyd (2001) Bonnie (1998) Andrew (1992).

Draw a best-fit line.





- Using the Wind Speed and Storm Tide Height numbers from the previous two graphs, plot the point where the values intersect on the graph for Hurricane Claudette.
- Do the same for Hurricanes Juan, Isabel, Michelle, Floyd, Bonnie and Andrew.
- Draw a best-fit line.



2. Convert 120 miles per hour to kilometers per hour.

3. Convert 920 millibars to inches of mercury.

4. Convert 950 millibars to hPa.



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- Click "Back" to return to the Hurricanes "Gather Data.2" web page.

- Click "Forward" at the bottom of the page to go to the "Gather Data.3" web page.

E. Tracking Hurricanes

- Go to one of the following sites.

a. If you live near the Atlantic Ocean, click on the "Atlantic Hurricane Tracking Data by Year" site.



- b. If you live near the Pacific Ocean, click on the "Pacific Hurricane Tracking Data by Year" site.
- Click on the year you were born.
- Scroll down the page and look for the worst hurricane that year and click "Details" for the hurricane.
- 1. Using latitude and longitude numbers, plot the path of the storm when it was classified as a hurricane on the hurricane-tracking chart on the next page.
- 2. Connect the plotted points to show the path of the hurricane.
- 3. Compare the track of the hurricane you plotted with the one on the map that shows all hurricanes for that year.

