

## NOAA Sea level Activity

1. Open the [Student Sea Level Data](#) file. Make a copy of the file by going into the File menu and selecting "Make a Copy..."
2. Save it with your last name at the beginning of the filename (i.e. Smith Student Sea Level Data at the Battery). Close the original file.
3. In your copy, make sure you are on the green tab titled "Student Data Set".
4. Select all the data EXCEPT the last row titled "Grand Total". Make sure you are selecting Row 1 as well (Year and Change in Sea Level).
5. Create two graphs: A line graph, and a scatterplot.
6. Open a new tab in your file.
7. Select and copy your line graph into that new tab.
8. You should now have two tabs, each with identical line graphs.
9. For one of your line graphs, select "Series". Now, select "Trendline".
10. Open another new tab. Select and copy your scatterplot.
11. You should now have two tabs, each with identical scatterplots.
12. Repeat step 7 and 8 for your scatterplot.
13. Submit all four graphs.

### 14. Discussion:

- a. What trends do you notice in your line graph?
- b. What trends do you notice in your scatterplot?
- c. Is one graph better than the other at communicating information? Why or why not?
- d. What information does the trendline provide?
- e. If we continued gathering data for the next 10 years, what do you predict to see?
- f. If we looked 10 years into the past, what do you predict to see?
- g. Come up with three possible consequences for sea level rise along the Hudson River.