



Analyzing Sea Level Rise

Use the satellite data graphs at <http://climate.nasa.gov/vital-signs/sea-level/> to answer the questions below. (Note: To obtain exact data points, place your mouse on the section of the graph you would like to examine.)

- 1. What is the source of the data for each graph?**
- 2. Which years are covered by each graph?**
- 3. Is one graph a better representation of global sea levels than the other?
Why or why not?**
- 4. By approximately how many millimeters did sea level rise between:**
 - a) 1910 and 1930?**
 - b) 1930 and 1950?**
- 5. What is the approximate average rate of increase of sea level rise between 1870 and 2000?**
- 6. By how many millimeters did sea level rise between the first measurement obtained in January 1993 and the first measurement obtained in January 2013?**

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- 7. What is the approximate rate of sea level rise between January 1993 and present?**

Examine the line graph for average global temperature at <http://climate.nasa.gov/vital-signs/global-temperature/> and use it to answer the questions below.

- 8. By how much did the average global temperature change, and did it increase or decrease between 1910 and 1930? How about between 1930 and 1950?**
- 9. Compare your answers to question number 8 with your answers to question number 4. Can you offer an explanation for the correlation or lack thereof?**
- 10. What is the approximate average global temperature rise per year from the first measurement taken in 1880 to present?**