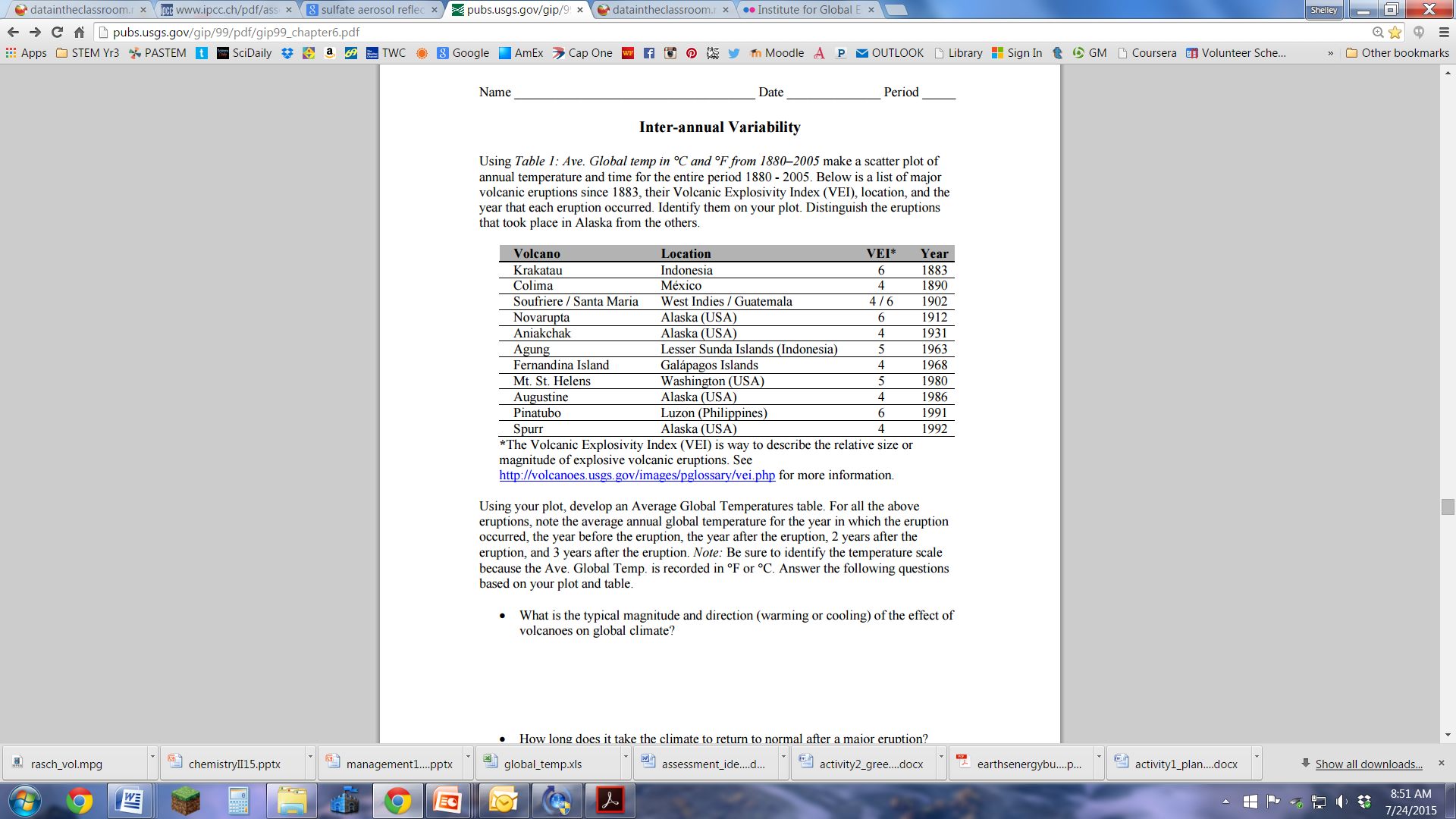
**Effect of volcanic eruptions on climate**

(adapted from http://pubs.usgs.gov/gip/99/pdf/gip99\_chapter6.pdf)

For volcanoes with VEI equal to or greater than 5, note the average annual global temperature for the year in which the eruption occurred, the year before the eruption, the year after the eruption, 2 years after the eruption, and 3 years after the eruption. Note: Be sure to identify the temperature scale because the Avg. Global Temp. is recorded in °F or °C. Answer the following questions based on your table.



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| --- | --- | --- | --- | --- | --- |
| **Volcano name** | **Avg Temp**  E-1 | **Avg Temp**  Eruption Year | **Avg Temp**  E+1 | **Avg Temp**  E+2 | **Avg Temp**  E+3 |
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1. What is the typical magnitude and direction (warming or cooling) of the effect of volcanoes on global climate?

2. How long does it take the climate to return to normal after a major eruption?

3. Look at the trend for one or two of the smaller eruptions. How does this compare to your data above? (The relationship between size and effect is actually more complicated than our simple analysis might reveal as distance to the stratosphere decreases with latitude)