

GEOLGY 100 Pre-lab assignment for angle of subduction and volcanoes lab.

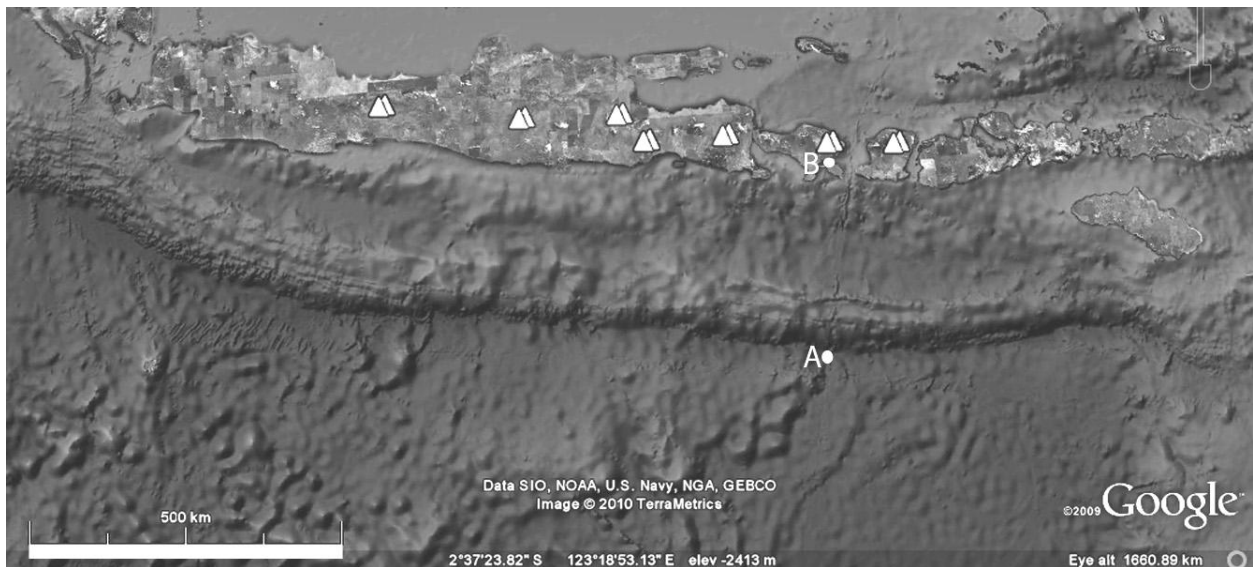
Worth: 5 points

NAME (PLEASE PRINT): _____

**YOU MUST BRING THE COMPLETED ASSIGNMENT TO LAB DURING OCT. 24-28.
OTHERWISE YOU WILL NOT BE ALLOWED TO PARTICIPATE IN THE LAB.**

You must use a PENCIL for all your WORK in the lab. Points will be taken off for not using a pencil on your lab assignment

How to find distances on a map using a scale bar



The **total length (NOT half the length)** of the scale bar on the lower left corner of the above map indicates a distance of 500 kilometer (km). **Answer the following questions using a ruler showing centimeters.**

1. 500 km in actual distance is represented by _____ centimeters (cm) on the map
2. 100 km in actual distance is represented by _____ centimeters (cm) on the map
3. 1 cm on the map represents _____ kilometers in actual distance

[Hint: for this question, find out how many centimeters represent 500 kilometers (answer to question #1), then divide 500 by your answer. You can do the same with the answer to question #2, but in that case divide 100 by your answer to question #2].

4. The distance between point A and Point B on the map is _____ centimeters
5. The actual distance between Point A and point B is _____ kilometers

[Hint: for the last question, multiply the answer to question #4 by the answer to question #3].