Name	



Lab 7: Seismic Hazards

Your Mission: Use the computer program Seismic Eruption to investigate global seismic hazards

You

ur '	Task:
1.	Login to a computer in the computer lab and double click on the icon called Seismic Eruption on your desktop. After the program opens, click on the Start button, then click on the Go button.
2.	Choose a region from the world map that interests you. You will be using this region to familiarize yourself with the Seismic Eruption program. Click on the region. Next click on a subset selection if available.
	Name of the region/subset you chose
3.	Now practice using the Seismic Eruption program. You will need to familiarize yourself with special features in order to answer the questions on the following pages. Check off the following boxes after you have practiced using the following features:

Play/Pause/Rewind/F. Forward	
Information	
Step	
EQ cutoff	
Control→ Map View/3-D/Cross-Section	
Control→ Interactive (3D)	
Control → Set up Cross-Section View	

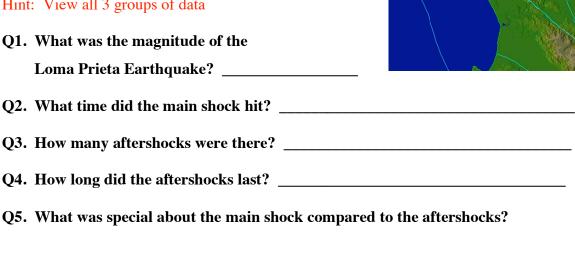
Practice Question #1:	Briefly describe (3 sentences) the region that you are viewing (use the Information button).		
_			
Practice Question #2:	Start date of the data set you viewed		
	Stop date of the data set you viewed		
Practice Question #3:	Number of earthquakes that occurred during the above time range.		
Practice Question #4:	Number of volcanoes that occurred during the above time range.		

Now click the **Back** button a few times until you arrive at the original world map selection screen. Use the following scenarios to answer the questions.

Scenario #1 Loma Prieta Earthquake

Hint: North America group, California group

Hint: View all 3 groups of data



Scenario #2 Recent California Earthquakes Hint: North America, California group, California

Q1. What is the time range of this data set?



O	2.	How many	y earthquakes	were there	in total	$(M2-6)^{\circ}$?
V	14.	пом шапу	y earmquakes	s were mere	m totai	(1 V1 2-U)	6

Q3. How many earthquakes greater than M5 were there?

Q4. How many earthquakes greater than M7 were there? _____

Q5. What were the magnitudes of these earthquakes?

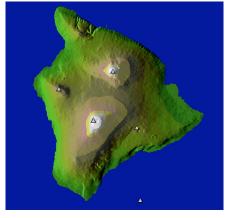
Q6. What is the deepest depth of all the earthquakes in California? ______

Scenario #3 United States EarthquakesHint: North America Group, United States

Q1.	What is the time range of this data set?	
Q2.	Where did the deepest earthquakes occur?	
Q3.	How many earthquakes occurred in Texas?	
Ω4	How many earthquakes occurred in Alaham	a?

Scenario #4 Hawaii Earthquakes Hint: Pacific Group, Hawaii

Q1. Which of the Hawaiian Islands is this?



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Q2.	What is the time range of this data set?
Q3.	How many volcanoes have been active on the island?
Q4.	How many eruptions?
Q5.	How many earthquakes greater than M6.5?
Q6.	Where did these occur?



Scenario #5 South America

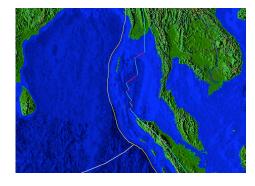
Hint: South America

Q1. What is the time range of this data set?

- Q2. Where in South America was the largest earthquake ever recorded? _____
- Q3. What day did it occur?
- Q4. What was its magnitude? _____
- Q5. How many earthquakes in South America have been greater than M7.5? ____
- Q6. How many great than M8.0?

Scenario #6 Sumatra Hint: Asia, Sumatra 2004

Q1. What is the time range of this data set?



- Q2. What was the magnitude of the main shock? _____
- Q3. In what direction did most of the aftershocks take place? _____
- Q4. How deep was the main shock located? _____
- Q5. When viewing a cross-section of the earthquake and aftershocks, do any patterns stand out to you? If so, what?