

IS II Name _____ Pd _____

Virtual Earth Quake

Go to the following web site (best done via the class blog)

<http://www.sciencecourseware.com/VirtualEarthquake/VQuakeExecute.html>

Read the background information. When you are ready to move on, select one of the four locations and locate the epicenter and calculate the magnitude of the quake. You may do the four quakes in any order.

1. General area _____

Location of Seismograph	S-P Time Interval (seconds)	Epicentral Distance (km)	Max S Wave Amplitude (mm)

Epicenter Location (be very specific) _____

Your estimated Magnitude _____

Actual Quake Location _____ Magnitude _____ Year _____

2. General area _____

Location of Seismograph	S-P Time Interval (seconds)	Epicentral Distance (km)	Max S Wave Amplitude (mm)

Epicenter Location (be very specific) _____

Your estimated Magnitude _____

Actual Quake Location _____ Magnitude _____ Year _____
over →

3. General area _____

Location of Seismograph	S-P Time Interval (seconds)	Epicentral Distance (km)	Max S Wave Amplitude (mm)

Epicenter Location (be very specific) _____

Your estimated Magnitude _____

Actual Quake Location _____ Magnitude _____ Year _____

4. General area _____

Location of Seismograph	S-P Time Interval (seconds)	Epicentral Distance (km)	Max S Wave Amplitude (mm)

Epicenter Location (be very specific) _____

Your estimated Magnitude _____

Actual Quake Location _____ Magnitude _____ Year _____

Questions

How is an earthquake epicenter located?

How is the S wave amplitude related to the magnitude of the quake?

In what ways do P and S waves differ?