

The Geology of Pacific Northwest Volcanoes, Mountains and Earthquakes

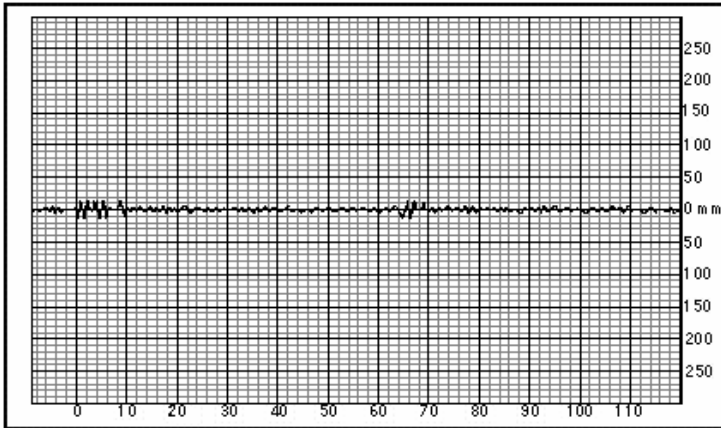
GEO142 Activity 4: Earthquake Magnitude

Name: _____ Date: _____

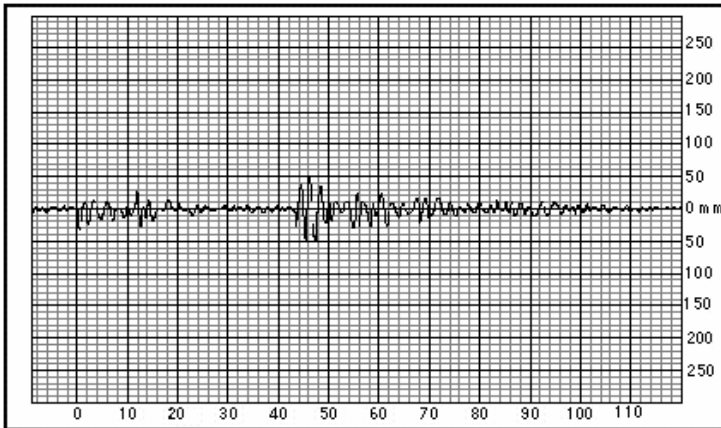
Estimate the max. amplitude for the S-wave (write the value below each seismogram). The distances from the stations to the epicenter are shown in the box above the nomogram.

Remember, where the three lines cross is the estimated M_s .

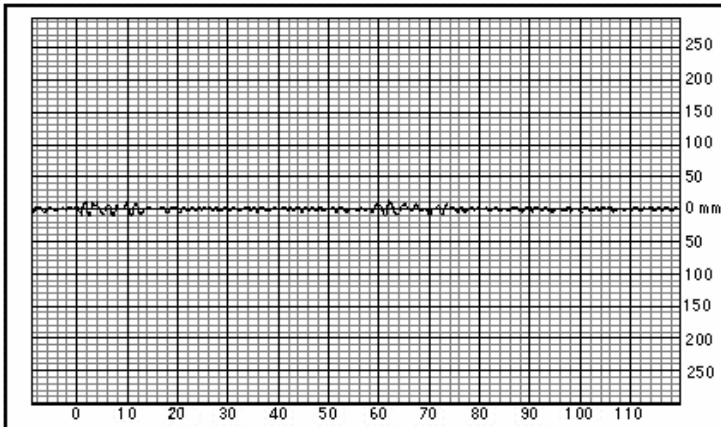
Write your estimate in the space at lower right. For full credit you should be within M_s 0.2 of "my" estimate.



max S-wave amplitude _____ mm

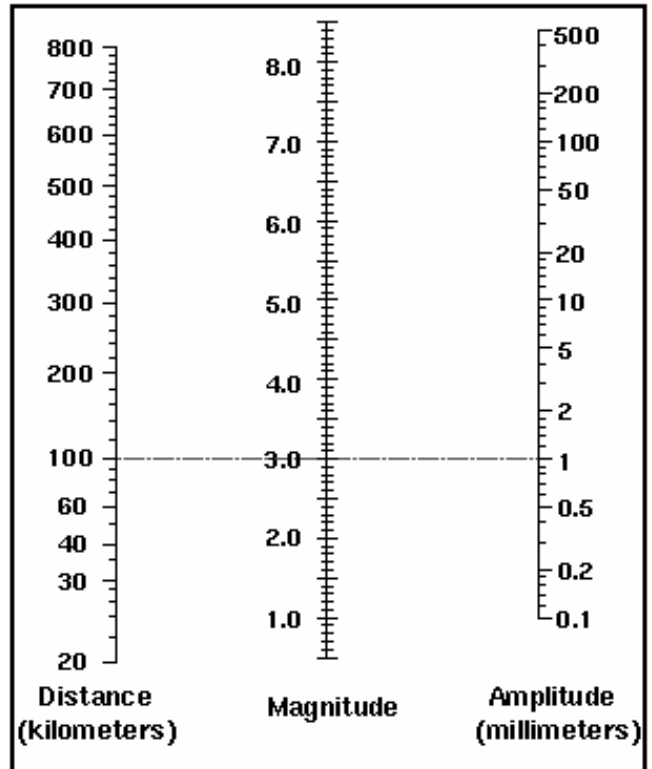


max S-wave amplitude _____ mm



max S-wave amplitude _____ mm

Distance from Epicenter	
Station A	605km
Station B	405 km
Station C	585 km



Estimated M_s _____