

Activity 4: Locating an Earthquake Epicenter

Objectives: If you complete all the problems, you should be able to:

- ▶ Identify P, S, and surface waves on a simple seismogram.
- ▶ Locate the epicenter of an earthquake using seismograms and travel-times curves.
- ▶ Complete an earthquake intensity map by drawing isoseismals from intensity data.
- ▶ Describe how the geology of a region can affect the intensity of an earthquake.



Examining Seismograms

The three basic types of seismic wave generated by an earthquake at its focus are P-waves, S-waves, and Surface waves. P and S-waves are body waves and travel through the interior of the earth. P-waves have the greatest velocity and reach the seismic station first. S-waves arrive at the seismic station after the P-waves. The amount of time that passes between the P-wave arrival and the S-wave arrival is important in helping seismologists determine the epicenter of the earthquake.

Today we will be using a travel-time graph, where the vertical separation between the P and S curves is equal to the difference in the arrival times between the P-wave and S-wave. To accurately locate an earthquake epicenter, records from three seismograms are necessary.

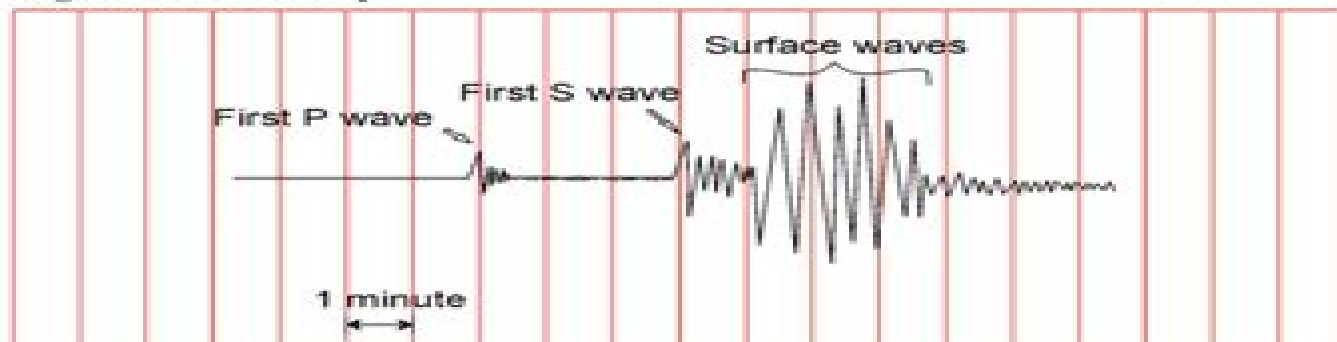


Figure 1. A typical seismogram.

(Earlier)



(Later)

Earthquake Manual Answer Key

Alberta Walker, Mary Rosetta Parkman



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