



CHAPTER 7—LAB 1: LOCATING EPICENTERS

Introduction

The epicenter of an earthquake is usually determined by examining seismograms from at least three recording stations. From these records, the distance to the epicenter of the earthquake from each of the recording stations can be determined. Circles drawn on a map around each of the seismic stations are used to locate the epicenter. In addition, the seismic recordings can be used to determine the time at which the earthquake took place and how powerful the earthquake was at its source.

Objective

To locate the epicenter of an earthquake.

Materials

Lab Sheets

Procedure

1. What is the time separation between the vertical lines in Figure 7-8?

(Please note that the times on this chart are shown as Hours: Minutes: Seconds.)

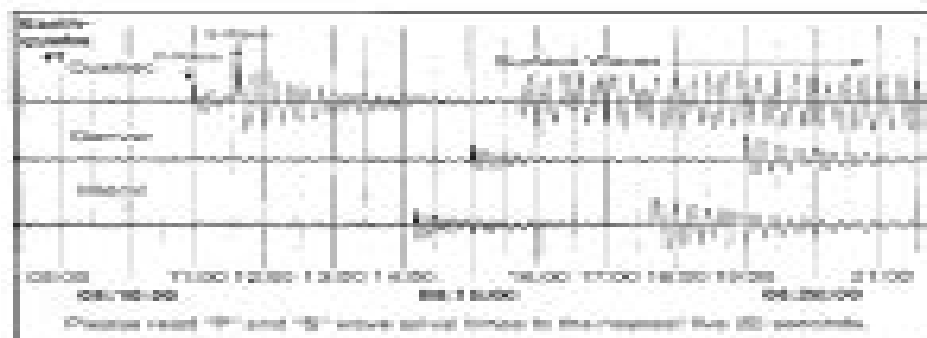


FIGURE 7-8. The test earthquake.

2. Which type of earthquake wave arrives first? _____

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SB Merriam

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'SB Merriam' text.

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