

GEOL 106 Activity 2: Locating an Earthquake Activity

NAME _____ DATE _____

1. Look at all four records from this one earthquake.

a. Which station do you think is closest to the epicenter? _____

b. Which station is the furthest from the epicenter? _____

2. Reading the arrival times of the P and S waves (Reading the phases). Read the arrival times for the P and S waves for Stanford, Lick (Observatory), and Berkeley. Fill in the times in the table below. San Andreas Observatory has been done for you. Use the travel time curve and the S-P interval to determine the distance for each station.

Station	P- time (hr:mn:sec)	S -Time (hr:mn:sec)	S-P Time (sec)	Distance (km)
San Andreas Observatory	20:36:53.5	20:36:59	5.5	40
Stanford				
Lick				
Berkeley				

3. Locate the earthquake by drawing circles around the appropriate stations, using the scale provided on map.

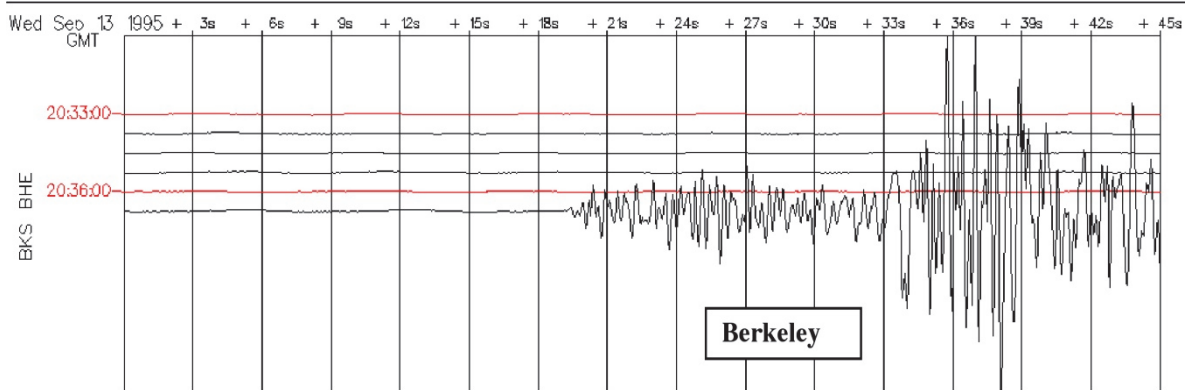
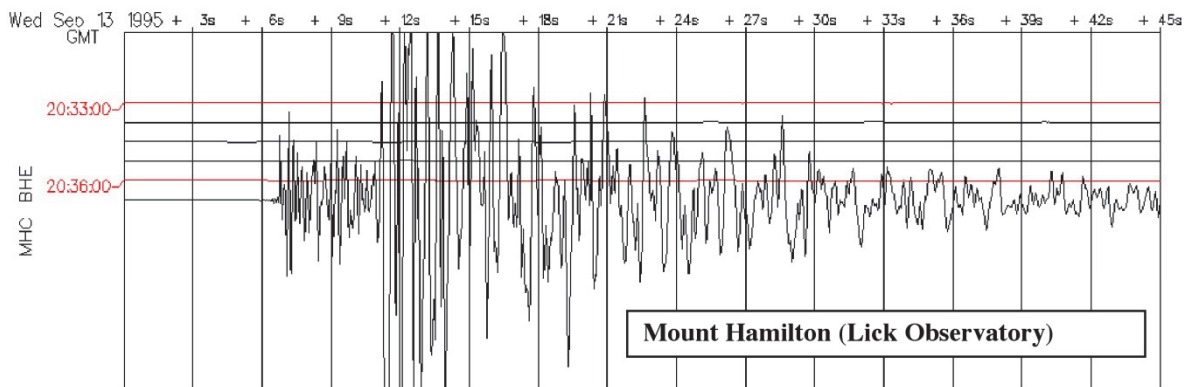
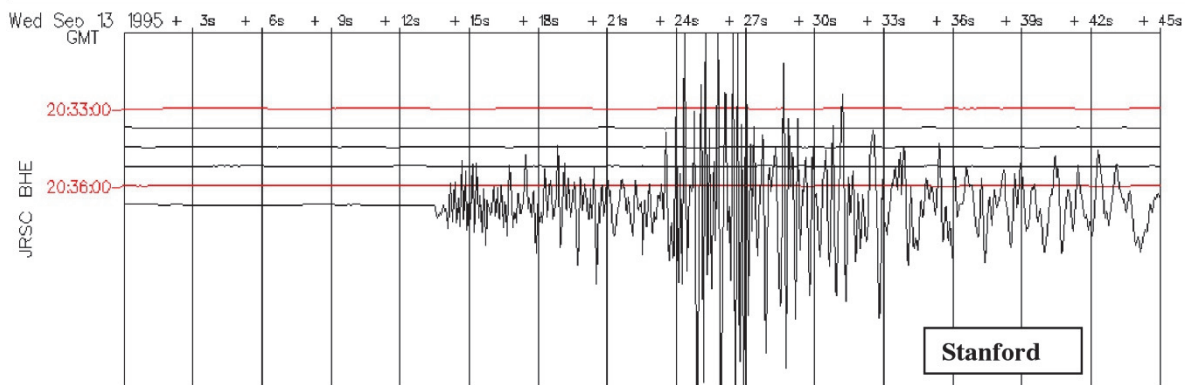
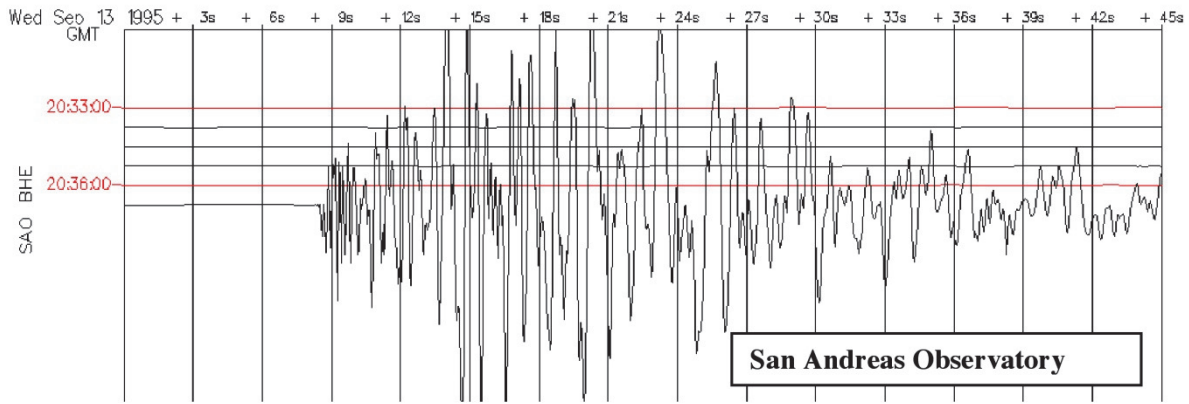
b. Draw a small circle indicating where you determine the epicenter to be.

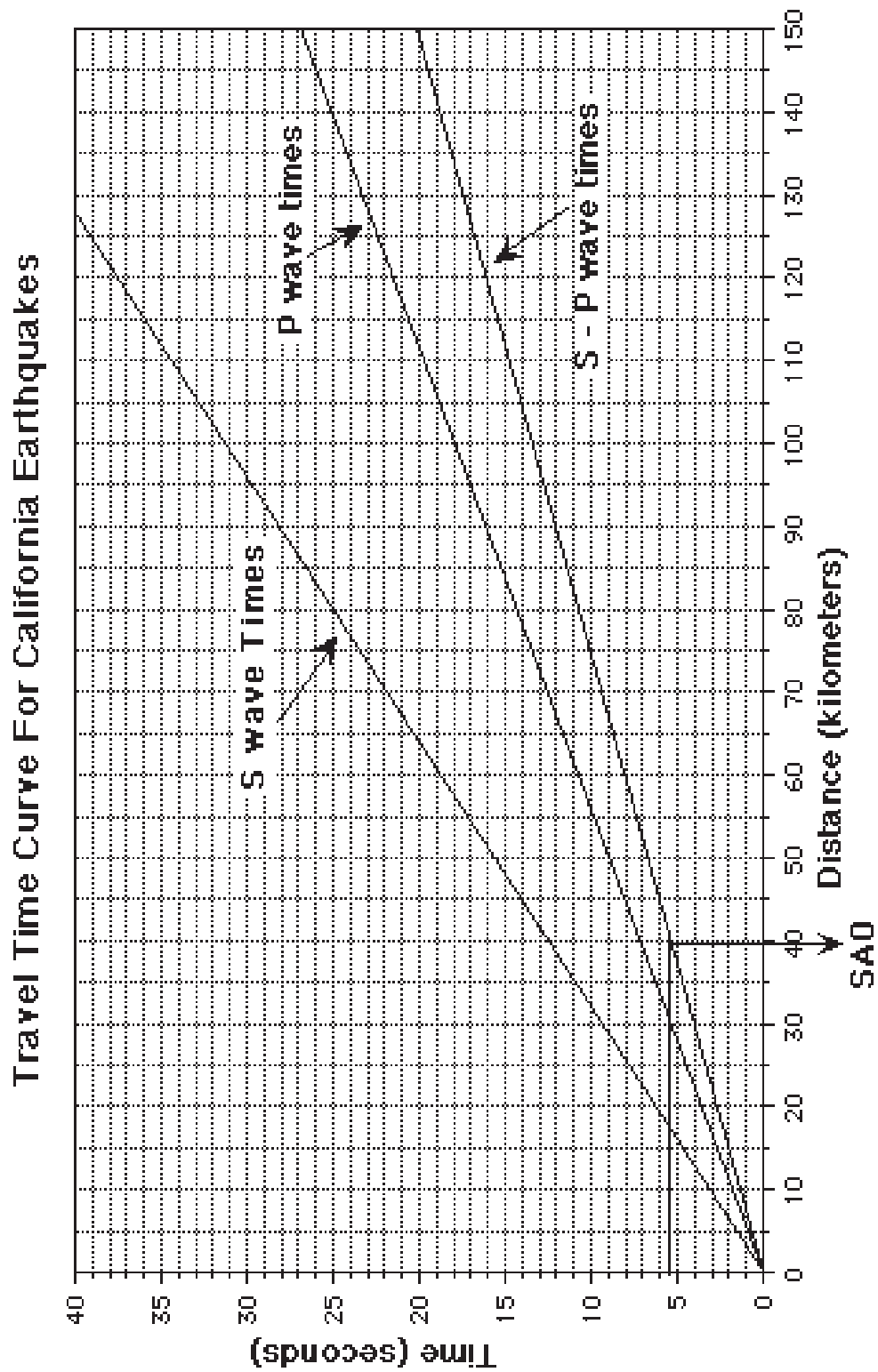
c. Which Bay Area fault do you think this earthquake is located on? _____

4. How many seconds did it take the P wave to travel to SAO? _____

b. What is the origin time of this earthquake? _____ hour _____ min _____ sec

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