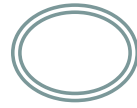


Warm-up #15

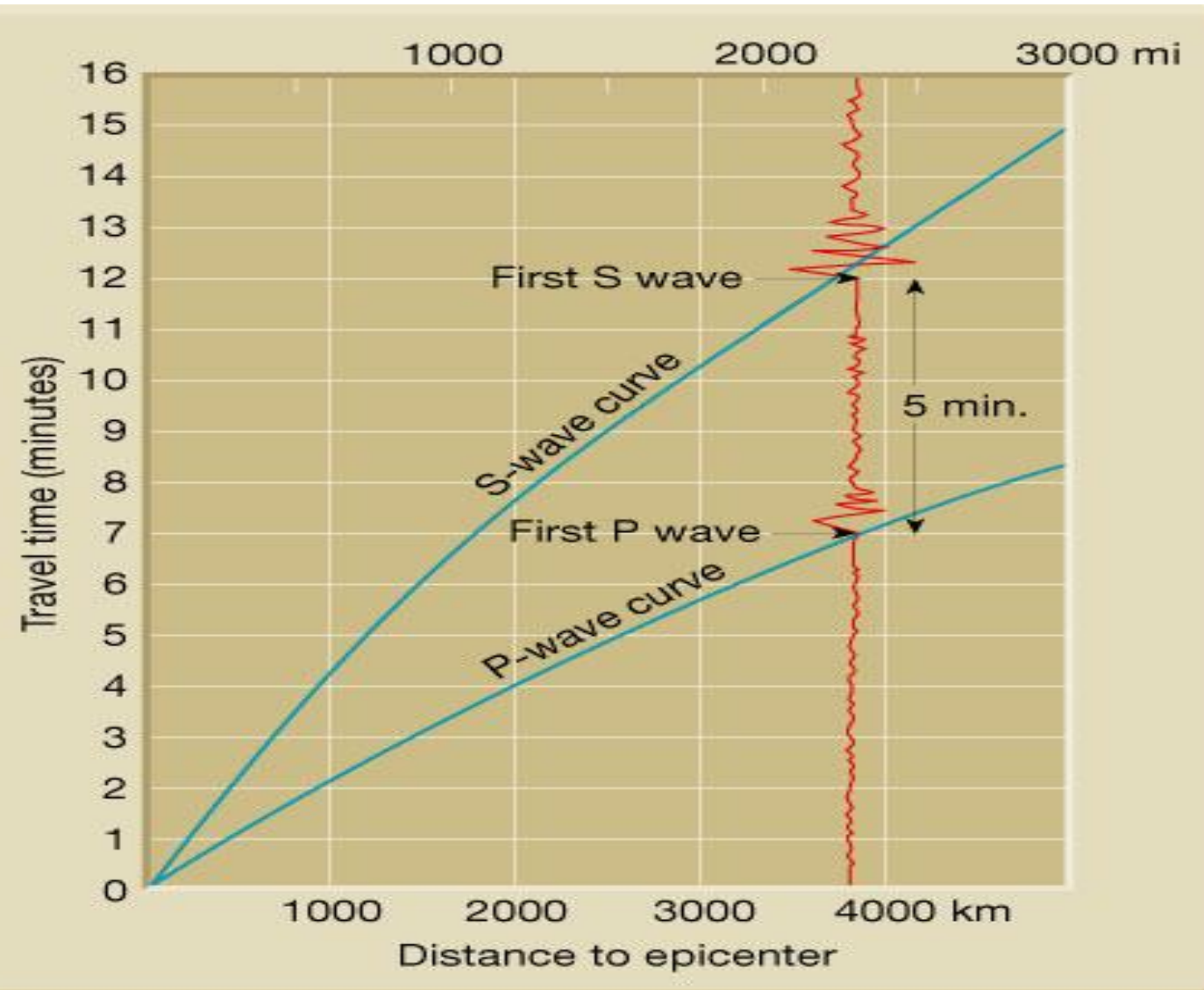


- **Draw a hypothetical seismograph of an earthquake. What three waves would be involved? Which could come first, second, and last?**
- **What two groups are the waves categorized into?**

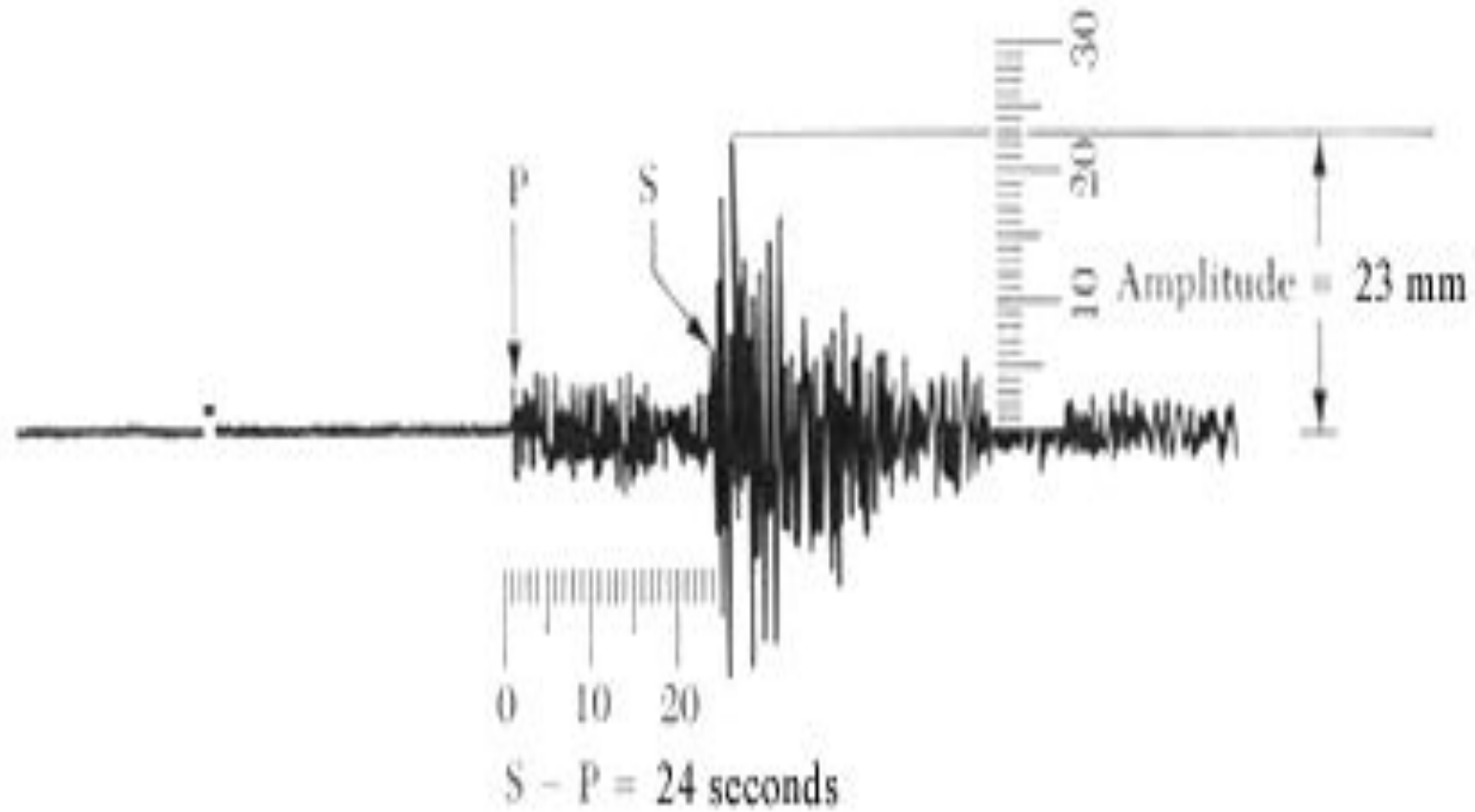
Locating the Epicenter

Distance to the epicenter:

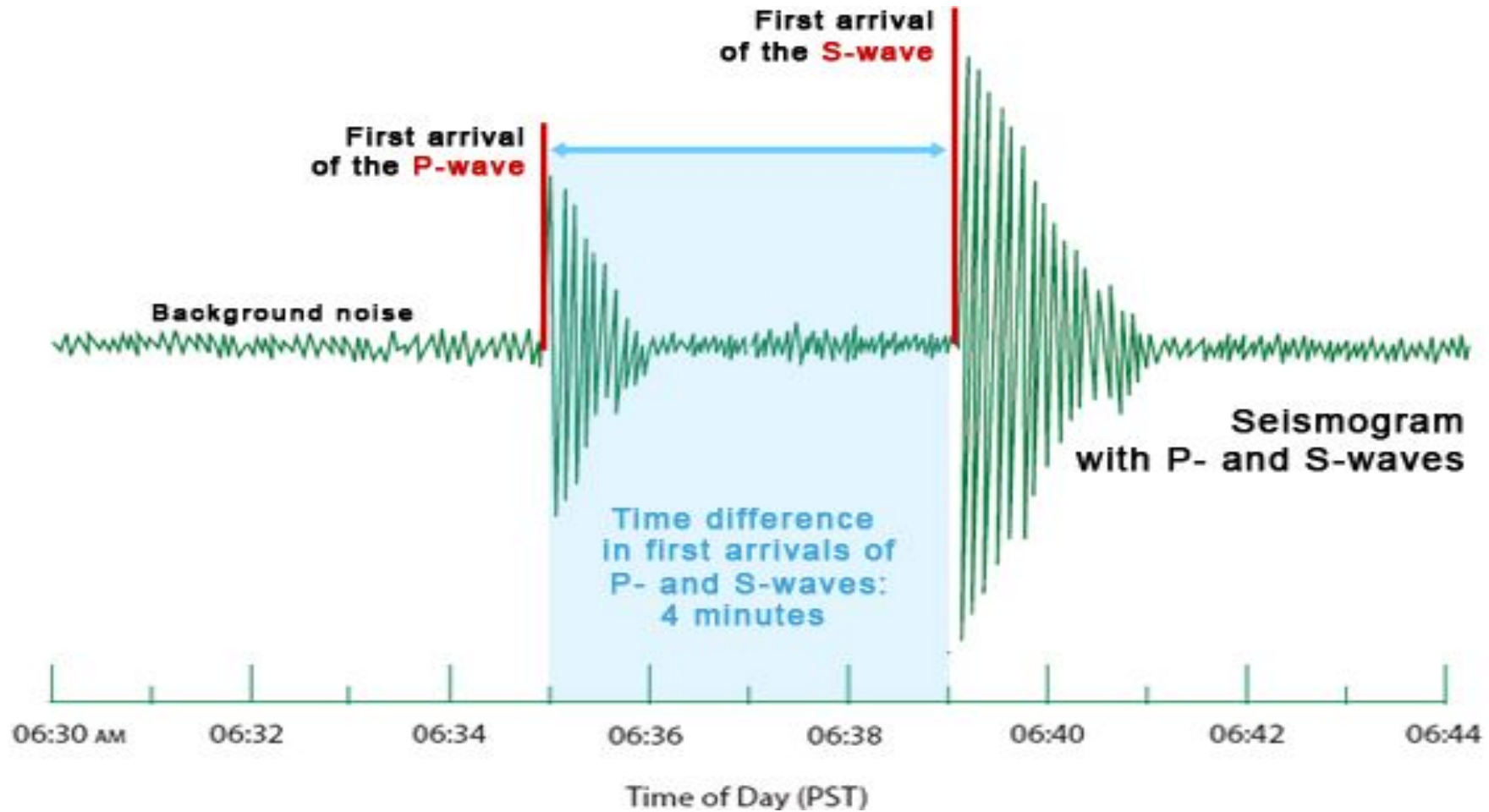
1. Use the **difference** in the arrival times **between P & S wave** recordings (*in minutes*).
2. Then use the time-travel chart to find the **distance** (*miles or km*).



Let's Practice!

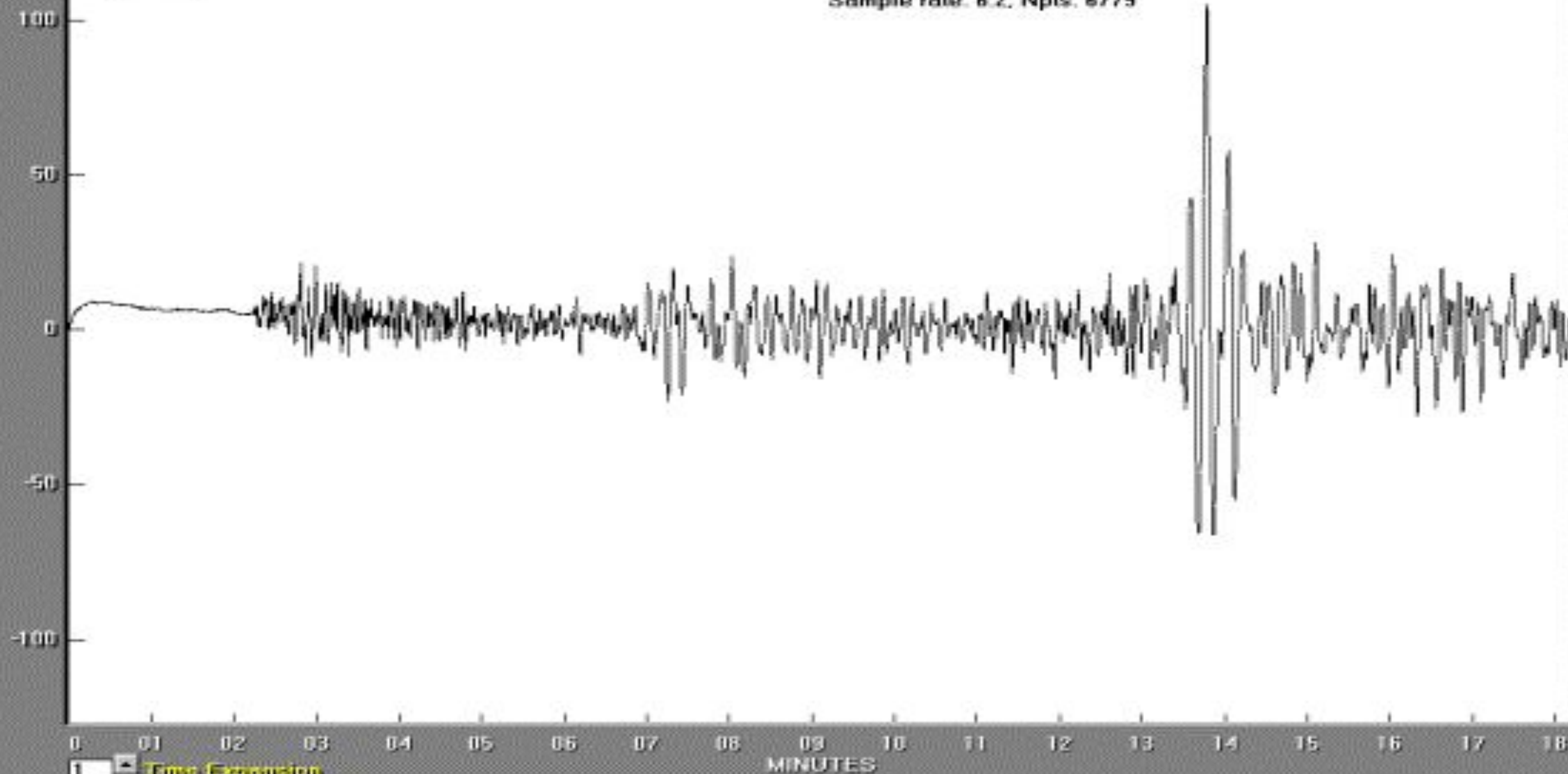


Let's Practice!



Back

WLIN 2
2000/08/09 11:44:34
Sample rate: 6.2, Npts: 6779



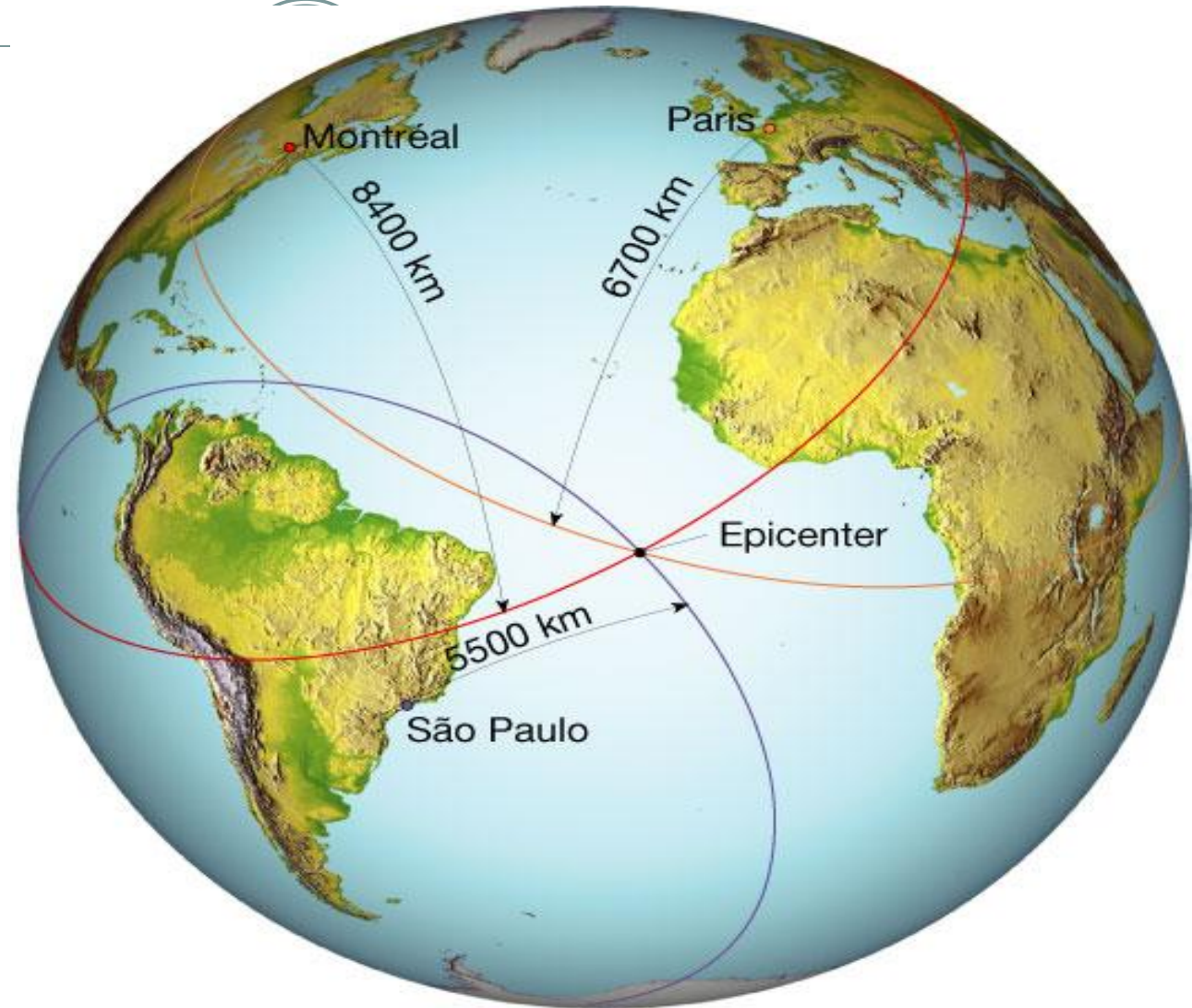
Time Expansion

Locating the Epicenter

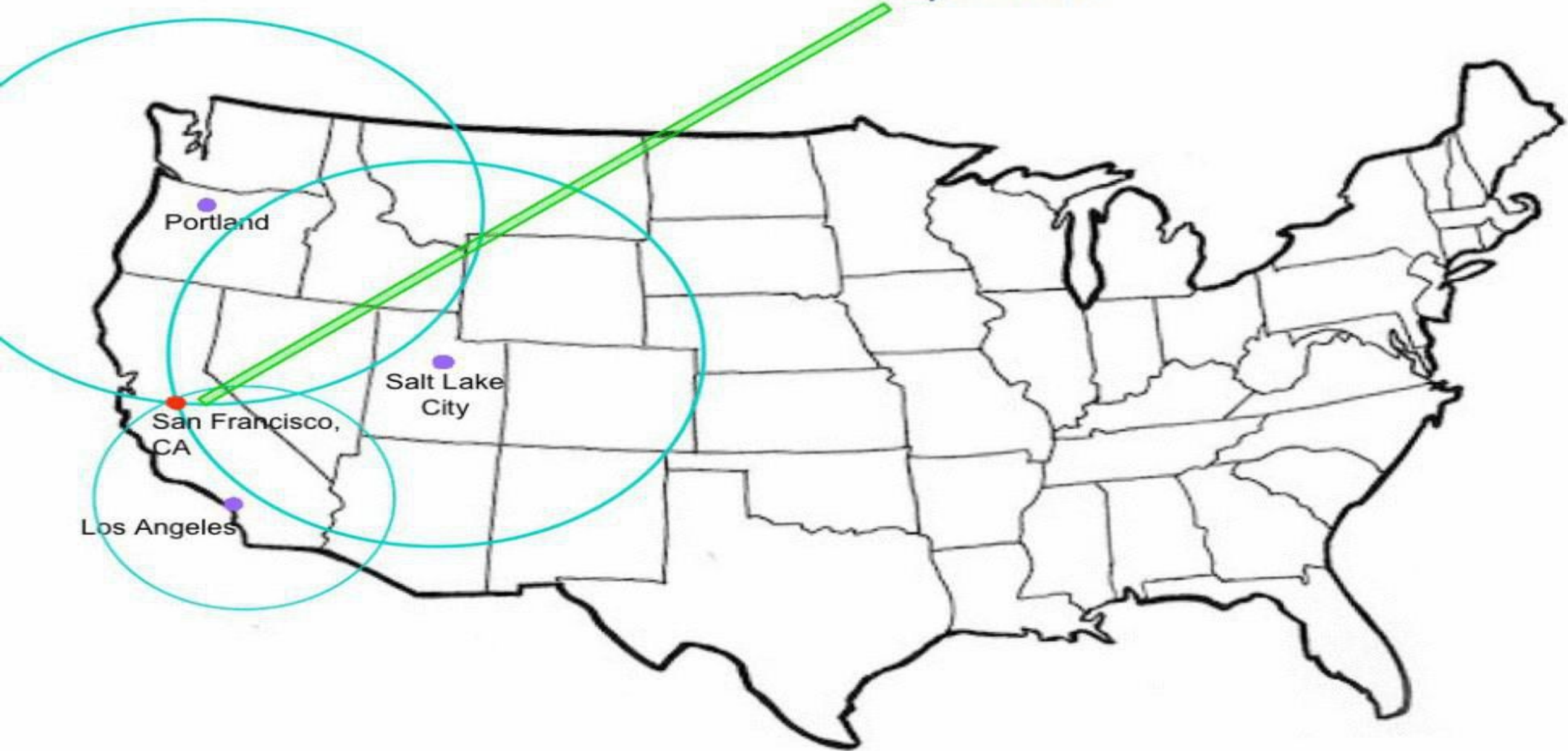
**Direction of
the epicenter:**

Triangulation:

Once you know the **distance** to the epicenter, you would need **3 or more seismographs** to find the exact location of an earthquake.



Epicenter!



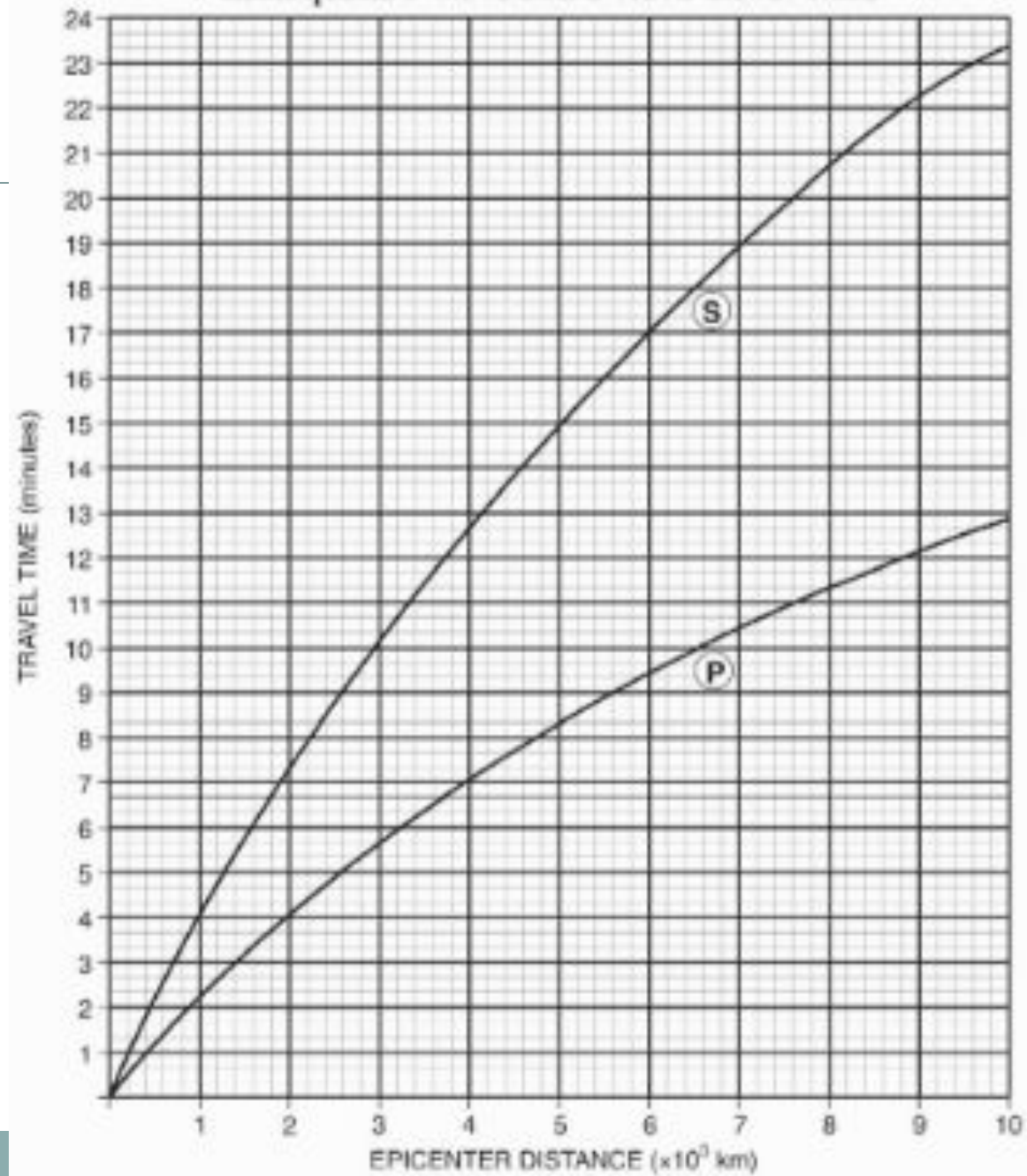
San Francisco, CA

Portland

Salt Lake City

Los Angeles

Earthquake P-wave and S-wave Travel Time



Closure

