

EPICENTER

How Do SCIENTISTS LOCATE IT?

- 1a. The variable on the X axis is...  
DISTANCE FROM EPICENTER (KM)



- 1b. The variable on the Y axis is ...  
ARRIVAL TIME (MIN)

2. IT TOOK 7 min for the S wave to show up at the Seismometer.
3. IT TOOK 4 min for the P wave to show up at the Seismometer.
4. Lag time at 2000 km is 3 min  
 $7 \text{ min} - 4 \text{ min} = 3 \text{ min}$
5. Lag time at 4,000 km is 5 min  
 $12 \text{ min} - 7 \text{ min} = 5 \text{ min}$
6. 2000 km - might take 10 min } Surf  
4000 km - might take 16 min }