

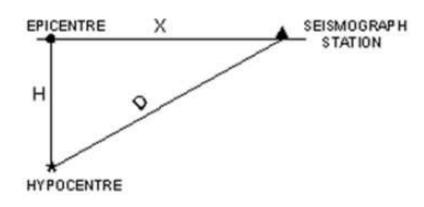
Origin Time Calculation

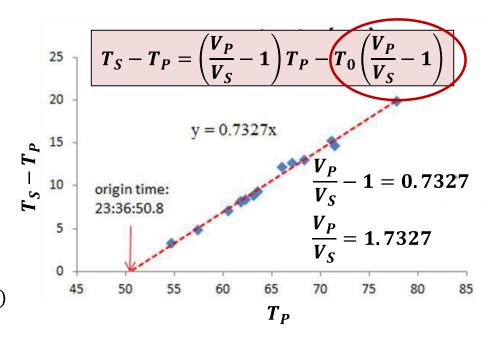
Arrival Time =
Origin Time + Travel Time

$$T_P = T_0 + \frac{D}{V_P}$$
$$T_S = T_0 + \frac{D}{V_S}$$

$$T_S - T_P = D\left(\frac{1}{V_S} - \frac{1}{V_P}\right)$$
$$T_S - T_P = \frac{D}{V_P}\left(\frac{V_P}{V_S} - 1\right)$$

$$T_S - T_P = \left(\frac{V_P}{V_S} - 1\right) (T_P - T_0)$$





Wadati Diagram

Earthquake location

