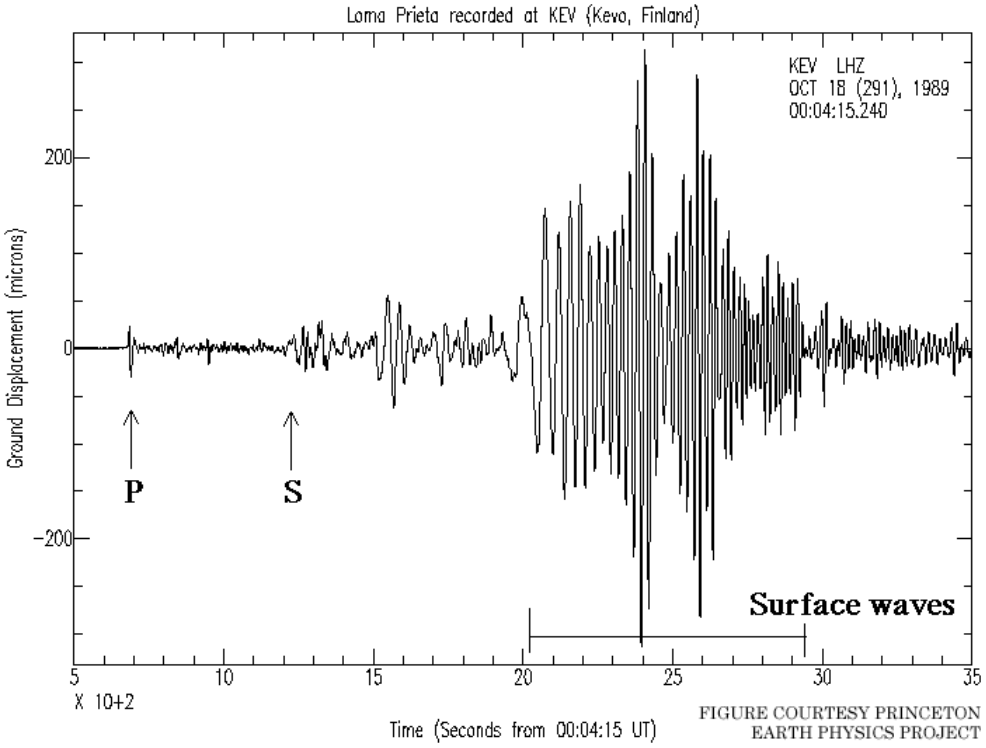
Interpreting Seismograms Worksheet

Name_____

Answer the following questions about the seismogram. Round times to the closest half second.



1. At what time did the P waves begin (Time in seconds)? _____seconds

2. At what time did the S waves begin (Time in seconds)? _____seconds

3. How long did the surface waves last? _____seconds

Estimate times for 4-6 to the nearest 50 seconds.

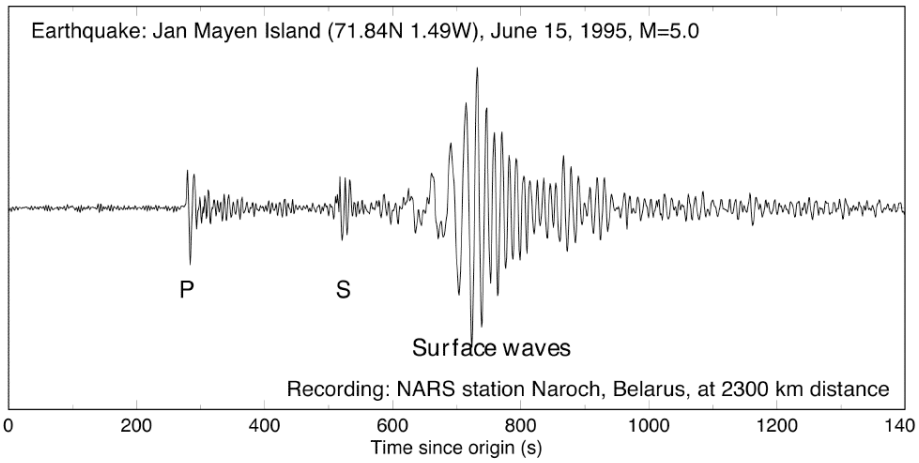
4. At what time did the P waves begin (Time in seconds)? _____seconds

5. At what time did the S waves begin (Time in seconds)?

_____seconds

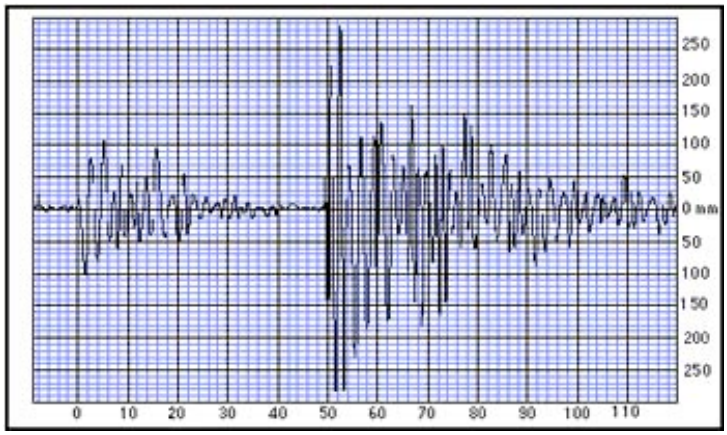
6. How long did the surface waves last?

_____seconds



The following graphs shows on the P and S waves from an earthquake (P waves are the smaller ones, S waves begin right before Surface waves.) Calculate the S-P gaps and use the graph at bottom right to find the distance from the epicenter.

7.

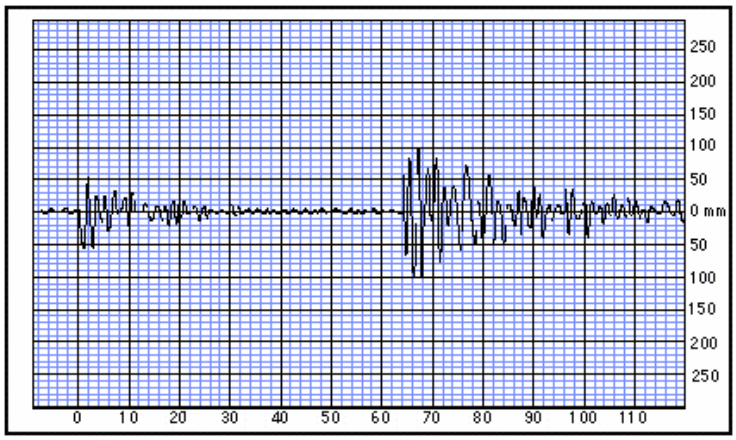


Find the difference between the P wave starting time and S wave starting time to determine the SP time gap.

_____s - _____s = _____s
(S time - P time = SP Gap)

distance to the epicenter _____ Km

8.



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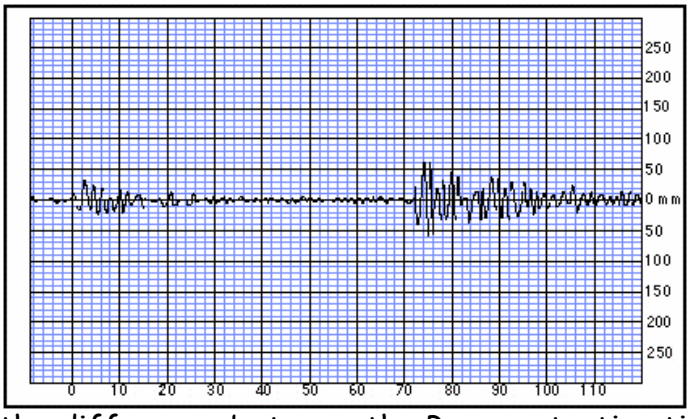

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_____s - _____s = _____s
(S time - P time = SP Gap)

distance to the epicenter _____ Km