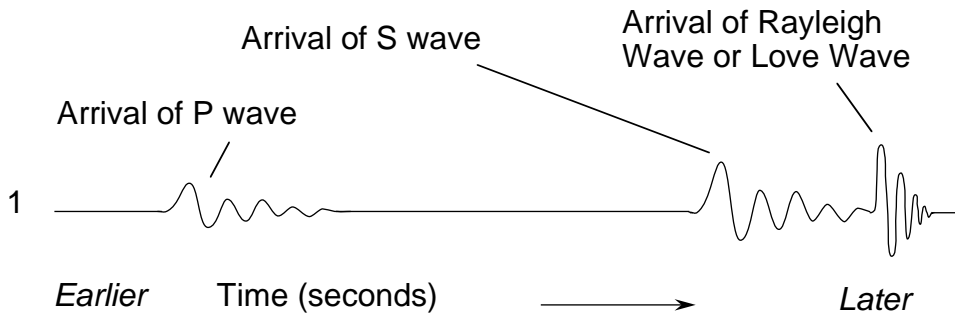


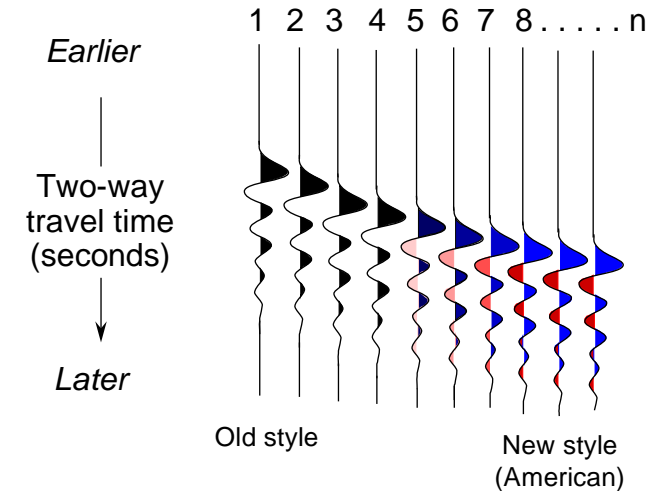
Seismic data and earthquake seismology: a comparison

Conventional (Geology 101) earthquake seismogram:

Record of arrival of various types of waves of energy, with waves generated by earthquakes



Seismic section: Multiple records of arrival of artificially generated P waves reflected by a stratum in subsurface



Similarities:

Time records of arrival of waves.

Differences in seismic sections:

Vertical time axis.

Multiple records for multiple locations.

Positive reflections darkened/blued (in American style).

Artificial energy source with controlled time of release.

(Commonly) only P waves.

Arriving energy has been reflected.

Vertical trace consists of multiple responses to multiple reflected waves;

Trace commonly if not inevitably consists of partially superposed responses.