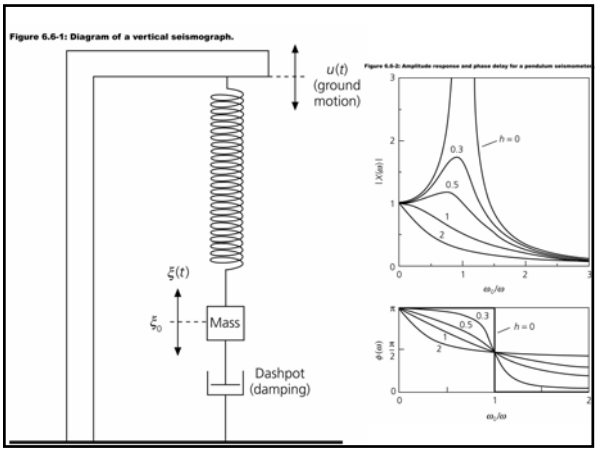
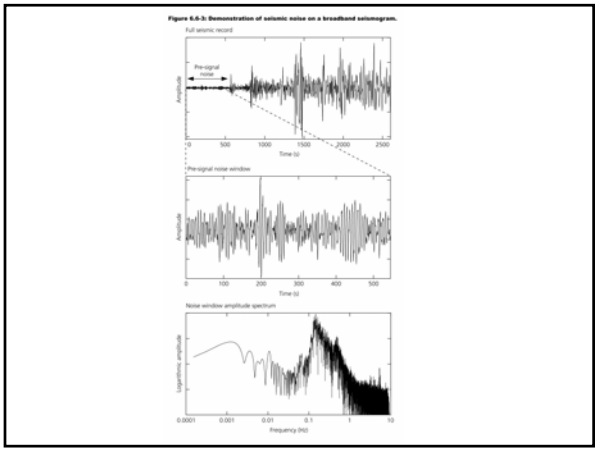
EAS 8803 - Seismology II

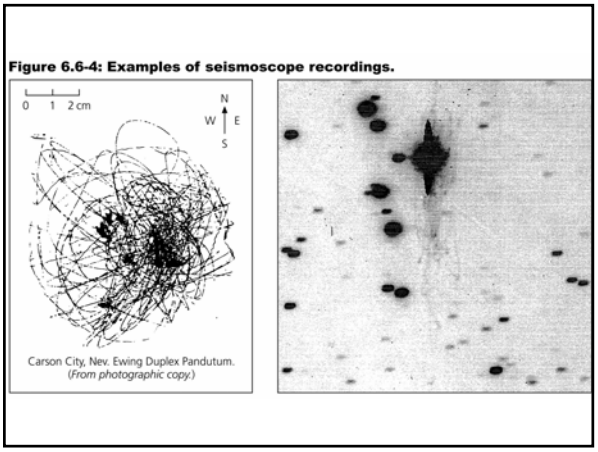
Lec#7: Seismometers and Seismic Networks

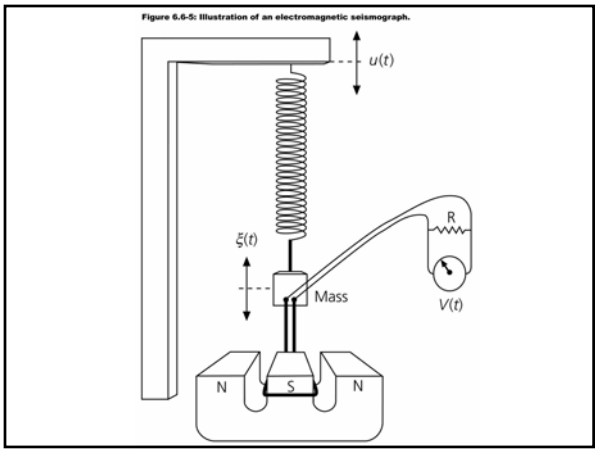
- Dr. Zhigang Peng, Spring 2008

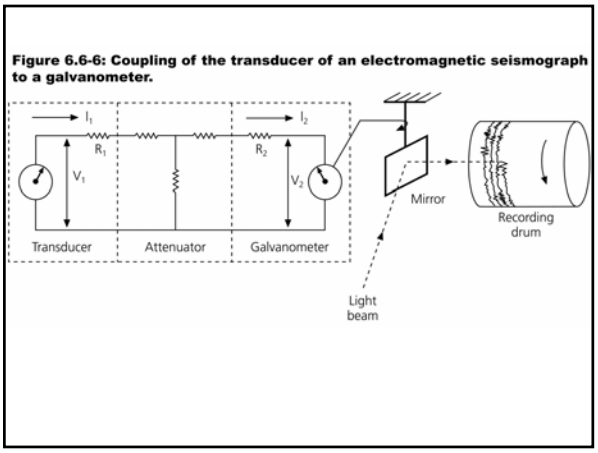
Supplementary figures (mostly from the Stein textbook)

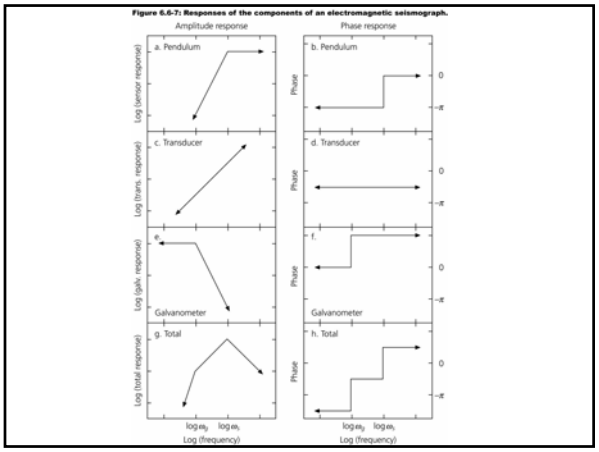












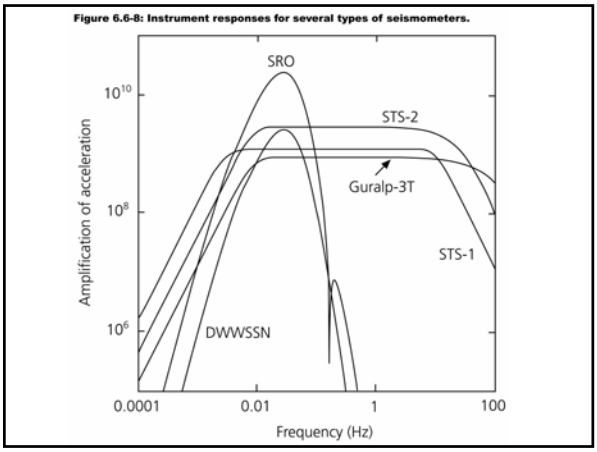
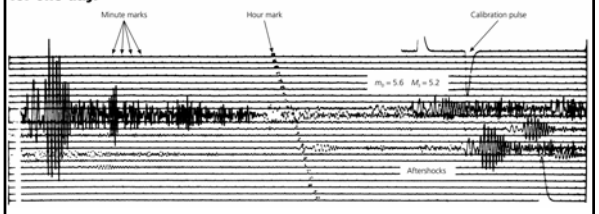


Figure 6.6-9: Sample WWSSN long-period vertical-component seismogram for one day.



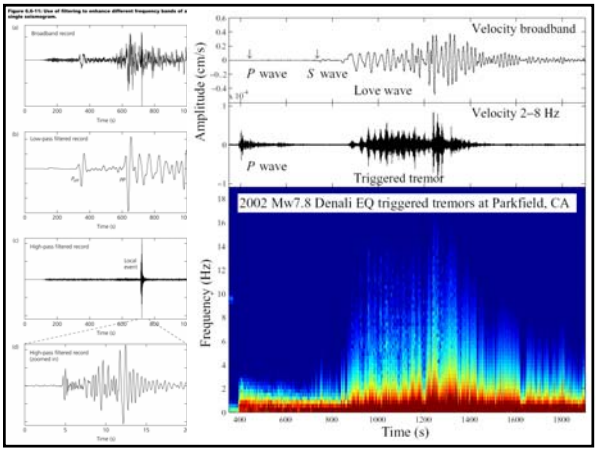
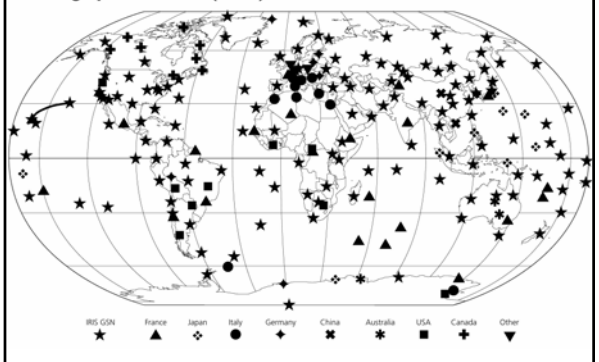
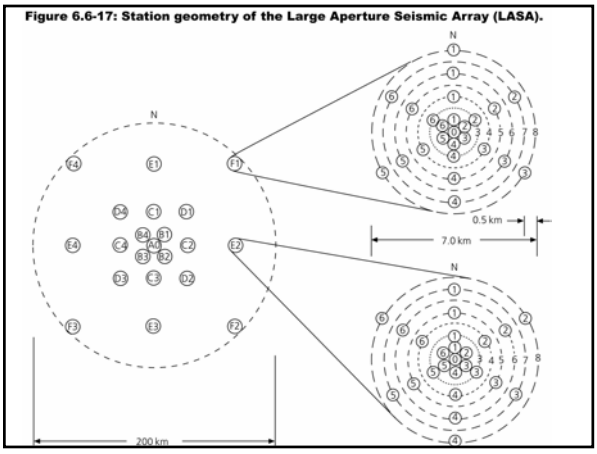
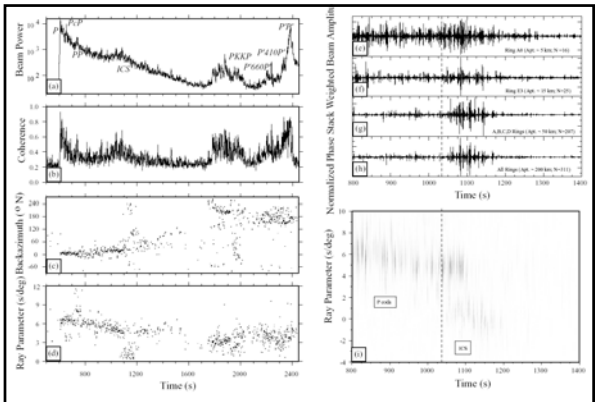


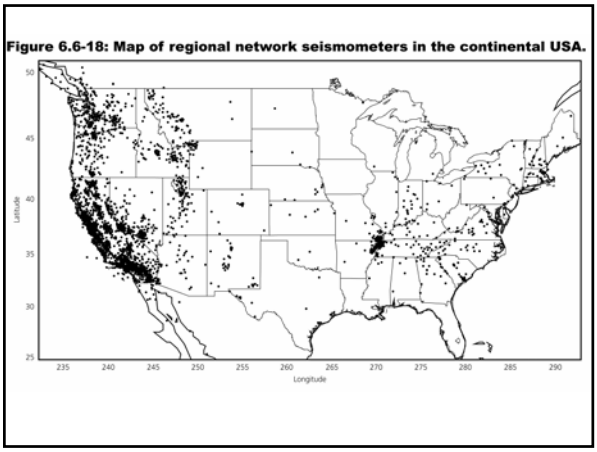
Figure 6.6-16: Station map of the Federation of Digital Broad-Band Seismographic Networks (FDSN).







Peng et al. (JGR, 2008, submitted)



EarthScope Instrumentation

- 3.2 km borehole into the San Andreas Fault
- 875 permanent GPS stations
- 175 borehole strainmeters
- 5 laser strainmeters
- 39 Permanent seismic stations
- 400 transportable seismic stations occupying 2000 sites
- 30 magneto-telluric systems
- 100 campaign GPS stations
- 2400 campaign seismic stations