

References and Further Reading

Chapter 5: Earthquakes

Almost everything anyone needs to know about earthquakes, whether it concerns faults, seismic waves, earthquake measurement, or where the latest earthquake has occurred, can be learned from the USGS Earthquake Hazards program (<http://earthquake.usgs.gov>).

Two events, the Northridge earthquake, California, 1994, and the Sumatra earthquake, Indonesia, 2004 are mentioned several times in this chapter. Once again we suggest visiting the USGS Earthquake Hazards program,

(<http://earthquake.usgs.gov/eqcenter/eqinthenews/2004/usslav/#details>) or the USGS marine geology program (<http://walrus.wr.usgs.gov/tsunami/sumatra05/>) for more information about the Sumatra earthquake. An extensive USGS report details the response to the Northridge earthquake (<http://pubs.usgs.gov/of/1996/ofr-96-0263/>).

A 24-page report that discusses the threat of a mega-earthquake on the Cascadia subduction zone is available from the Cascadia Region Earthquake Workgroup (CREW; <http://www.crew.org/papers/CREWCascadiaFinal.pdf>).

Evidence for the historical (1700) earthquake can be found at the Pacific Northwest Seismograph Network (http://www.pnsn.org/HAZARDS/CASCADIA/cascadia_event.html). USGS Circular 1187 (<http://pubs.usgs.gov/circ/c1187/>) discusses what to do to survive a tsunami drawing lessons from people at different locations in and around the Pacific Ocean.

For information on faults we recommend Rob Butler's site (<http://earth.leeds.ac.uk/faults>) at University of Leeds in the U.K. or see the frequently asked question section of the USGS Earthquake Hazards program. If you want to try your hand at building your own earthquake machine model you should go to the Teaching Resources page of the USGS Earthquake Hazards program for Northern California (<http://quake.usgs.gov/research/deformation/modeling/eqmodel.html>). We built one for our classes and we spend nearly a whole period setting up scenarios and having students predict what will happen. It is one of our most popular lectures for the course.

Anyone living or planning to move to California or any other earthquake prone region should check out the online publication, Putting Down Roots in Earthquake Country (<http://www.earthquakecountry.info/roots/cover.html>) by the Southern California Earthquake Center. The risks of living in California, especially around the San Francisco Bay area, are discussed in detail in USGS Fact Sheet 039-03 (<http://pubs.usgs.gov/fs/2008/3027/>).