Educational Seismograph Teaching Modules

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Several teaching modules and educational resources for use with educational seismographs have been developed and made available on the Internet. The materials are designed for use with the AS-1 seismograph that is part of the IRIS Seismographs in Schools program. However, some of the materials can be used with seismograph data from other instruments, from data downloaded from seismogram archives (the IRIS DMC and the SpiNet website), or from pre-assembled seismograms included with the teaching modules. Most of the materials make use of the AmaSeis software that has been developed by Alan Jones (SUNY-Binghamton) with support from the IRIS E&O program. The materials include: Using AmaSeis (Using the AmaSeis seismogram viewer and downloading seismograms from the Internet – A Tutorial); Accessing Earthquake Information: (Using the Internet to access information about earthquakes; a tutorial, includes examples of earthquake catalog searches and online S-minus-P location mapping); MagCalc (Earthquake Magnitude Calculator for the AS-1 Seismograph; an online tool (and resource with examples) for calculating magnitudes from AS-1 seismograms); Calculating Magnitudes: (Calculating Magnitudes from AS-1 Seismograms); EQ Location and Magnitude Calculation: (Earthquake location using the S minus P method and magnitude determination); and, How Often? (How often do earthquakes appear on the Seismograph?).

The materials are available at: http://www.eas.purdue.edu/~braile/edumod/as1lessons/as1lessons.htm.

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