A SUITE OF EDUCATIONAL COMPUTER PROGRAMS FOR SEISMOLOGY

Alan L. Jones • State University of New York at Binghamton,
Lawrence W. Braile • Purdue University
Cheryl J. Braile • Happy Hollow School, West Lafayette, Indiana

A set of four educational programs have been developed with partial support from IRIS. They all run under Windows.


Seismic/Eruption: shows where and when earthquakes and volcanic eruptions occur in speeded up time. Students can watch as earthquake and eruption activity outlines the earth’s plate boundaries.

Seismic Waves: Animates seismic wave propagation through the earth and over the surface of the earth and shows actual seismograms as recorded at seismic stations.

AmaSeis: Displays seismic activity on a helicorder-like display. The figure shows the 2005/12/26 magnitude 9.0 Sumatra-Andaman earthquake. The computer is connected to the educational -1 seismometer. Students can extract seismograms and do analyses on them.

EqSelect: Allows the student to select P-arrivals and use these to locate an earthquake iteratively. Seismograms can be downloaded from the IRIS Wilbur site or from schools which share their seismograms.