

Status NESC/DEM Support for Educational Seismology:
Broadband Instrumentation for Reno.

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Seismic Monitoring at K-12 Science Classrooms in Urban Reno

Digitizers and GPS clocks were purchased for two Guralp ESP Broadband seismometers that were available through the Nevada Seismological Laboratory. Guralp Systems mounted the digitizers and tested the instrumentation. Vaults were installed at Bishop Manogue Catholic High School for both a broadband instrument and an anticipated accelerometer. Q&D Construction of Reno excavated the material for vault installation and ran 1" conduit into the new Manogue High School building to an Internet drop. Sensors were installed by UNR in September and Manogue provided a computer system for data communications to UNR. The station has been running continuously supplying real-time data to UNR. The data is used for local event locations and for collecting broadband data in the Truckee Meadows Basin. The data is also transmitted in real-time to the IRIS Data Center in Seattle, Washington. We investigated installation of the second system at North Valley High School on the Washoe School district network with science teacher Ron Geyer; a location was established for the sensor and a hole was drilled in the building to a network hub location. However, all communications from the school are restricted by Washoe County computer administrators. We have established a potential second site at Sage Ridge School on Mt. Rose fan. This is an ideal location but may be too close to the Manogue site. An alternate seismograph has been selected for Sage Ridge. Also, IRIS has supplied a seismograph for installation at Incline Academy in east Incline Village; contact Megan Sjoberg science teacher. We are seeking a private school with Internet access in the Reno area for the second broadband. An all day K-12 Seismology workshop was held for teachers at UNR on November 13, 2004. There were about 25 participants. Teachers received credit for attendance.

Images of Manogue Installation



