

Upgrading of the National Network of Seismic Stations in Slovakia

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The Slovak National Network of Seismic Stations (N NSS) has been rebuilt, modernized and extended in year 2003. Three basic types of stations can be classified like cave, well and surface stations. All seismic stations were equipped with a sensor (short period or broadband), 16bit digitizers, GPS, classic PC and satellite at the beginning. Currently the network consists of seven short period and five broadband seismic stations. Some of them are in operation like thirteen years ago and the others have undergone upgrading process partly or completely (e.g. 24/32bit digitizers, 12V mini-PC). Some stations have been replaced due to signal problem caused by increased level of background seismic noise. Last years of data acquisition and processing showed the need to build some additional stations in various parts of Slovakia. Several additional stations have already been added in cooperation with other institutions (some of them only temporarily), however adding some more stations would be useful. We present here the effect of station replacement and/or addition on the improvement of quality of seismic monitoring of Slovak territory.

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