



Developments at Polish Seismological Network

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Polish Seismological Network of the Institute of Geophysics, Polish Academy of Sciences, currently consists of 9 stations. Six of these stations are broadband. In 2008 one of the broadband stations has been moved from Warsaw city center out to a quieter site at the Central Geophysical Observatory at Belsk, thus the data has become useful for automatic data processing. Currently broadband seismic stations are spaced out to provide information from all of the territory of Poland. Automatic Seiscomp-2.5 detecting, locating and alerting system has been set up. Earthquakes that have taken place in 2004, namely the Kaliningrad and Podhale events, have caused concern about effectiveness of the network and quality of the recording. As result, the digitizer of the seismic station NIE – near the Podhale region - has been replaced in 2005, bringing the station up to the 24-bit standard and latest plans call to have the station upgraded to broadband. In the north, a new seismic station has been organized at Hel, however the site has proven to be extremely noisy. A broadband station is planned to be deployed in the north but an alternate location must be found. Further development plans call for establishment of a new 6-station short period subnetwork in and around the Upper Silesian Coal Basin to observe and readily locate local mining-induced seismic events. The ultimate goal is to provide ready and reliable information on all recorded seismic events and particularly those events from the territory of Poland. Reaching the goal requires however that a local seismic subnetwork be organized in and around the Lubin Copper Basin while the seismic station NIE be complemented by at least two stations in the immediate area where local seismicity takes place.