



Usage of SEISMON within the WEBNET seismic network

Jan Michálek (1), Jana Doubravová (1), and Stefan Mertl (2)

(1) Institute of Geophysics, Academy of Sciences of the Czech Republic, Boční II/1401, 141 31 Prague, Czech Republic (michalek@ig.cas.cz), (2) Institute of Geodesy and Geophysics, Vienna University of Technology, Gußhausstr. 27-29, 1040 Vienna, Austria (smertl@mail.tuwien.ac.at)

Fairly new software SEISMON (project started in 2003) for processing of seismic data is presented here in use. SEISMON is an open source software project with its main goal to facilitate the scientific work of seismic research projects using new- or non-standard processing methods. It is written in Matlab and recently available online for public use (<http://www.stefanmertl.com/science/software/seismon/>). The MySQL database is used for storing of the data parameters which enables fast and effective access also from others programming environments, e.g. PHP for internet applications. SEISMON is a modular software which allows implementing new code for specific use easily. The software is planned to be used for routine data processing of a local seismic network (WEBNET) situated in the West Bohemia region, the most seismically active area in the Czech Republic. This region is continuously monitored for more than 20 years and the activity is represented mainly by earthquake swarms. The insight into the SEISMON software use, its main properties and the possibility to customize the software for specific needs is demonstrated on data from this area.