

THE STUDY OF THE NATURAL SEISMICITY IN SPA REGION IN WESTERN BOHEMIA

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The estimation of seismic hazard to springs is closely connected with the determination of correlations between the current parameters of springs and occurrence of local seismic events. West Bohemian spa network was created in 1991 to monitor this events. Geographical situation of stations is depicted in Fig. 1.

Five solitary stations MARS 88 - FD and one Lennartz 5800 are included in this network.

West Bohemian spa network recorded a seismic swarm in May 2. and 12. - 13., which may be interpreted as seismic activity of tectonic fault in the region Slavkovský les. 13 events were recorded in this period with the local magnitude reaching 1.9. Location of this seismic swarm is shown in Fig. 2. Seismograms of some events are in Fig. 3 - 5.

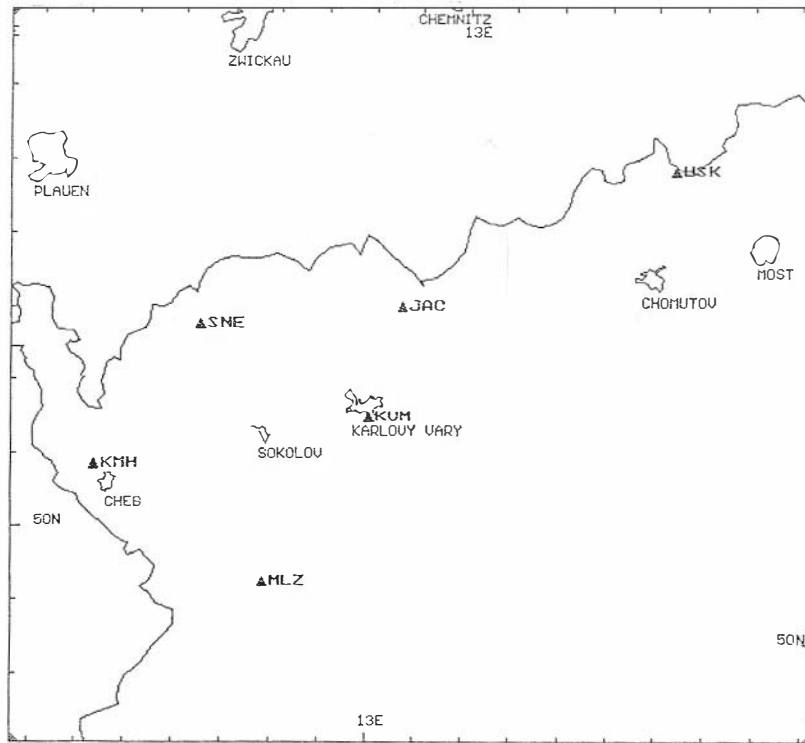


Fig. 1. Distribution of seismic stations of West Bohemian spa network

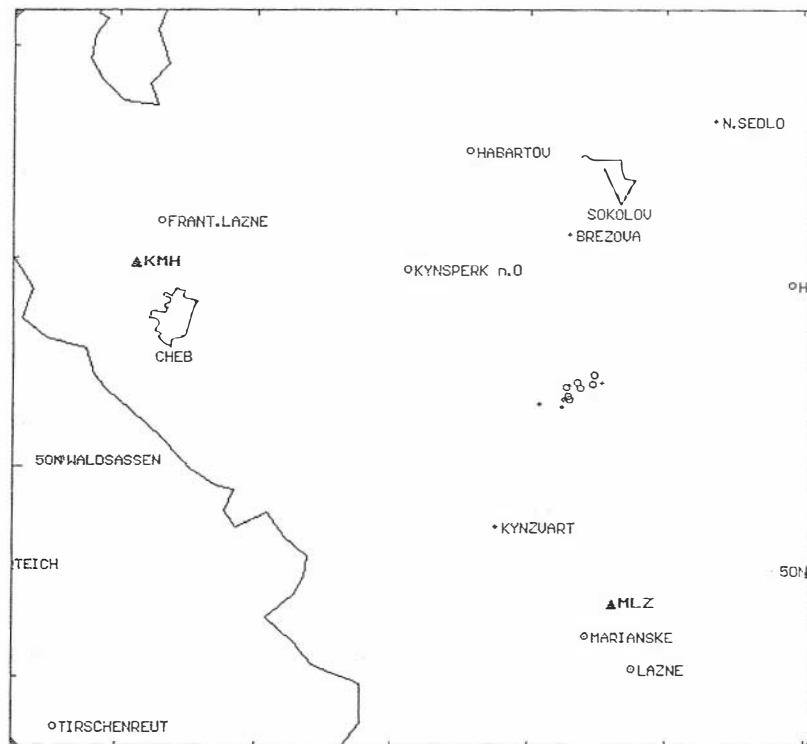
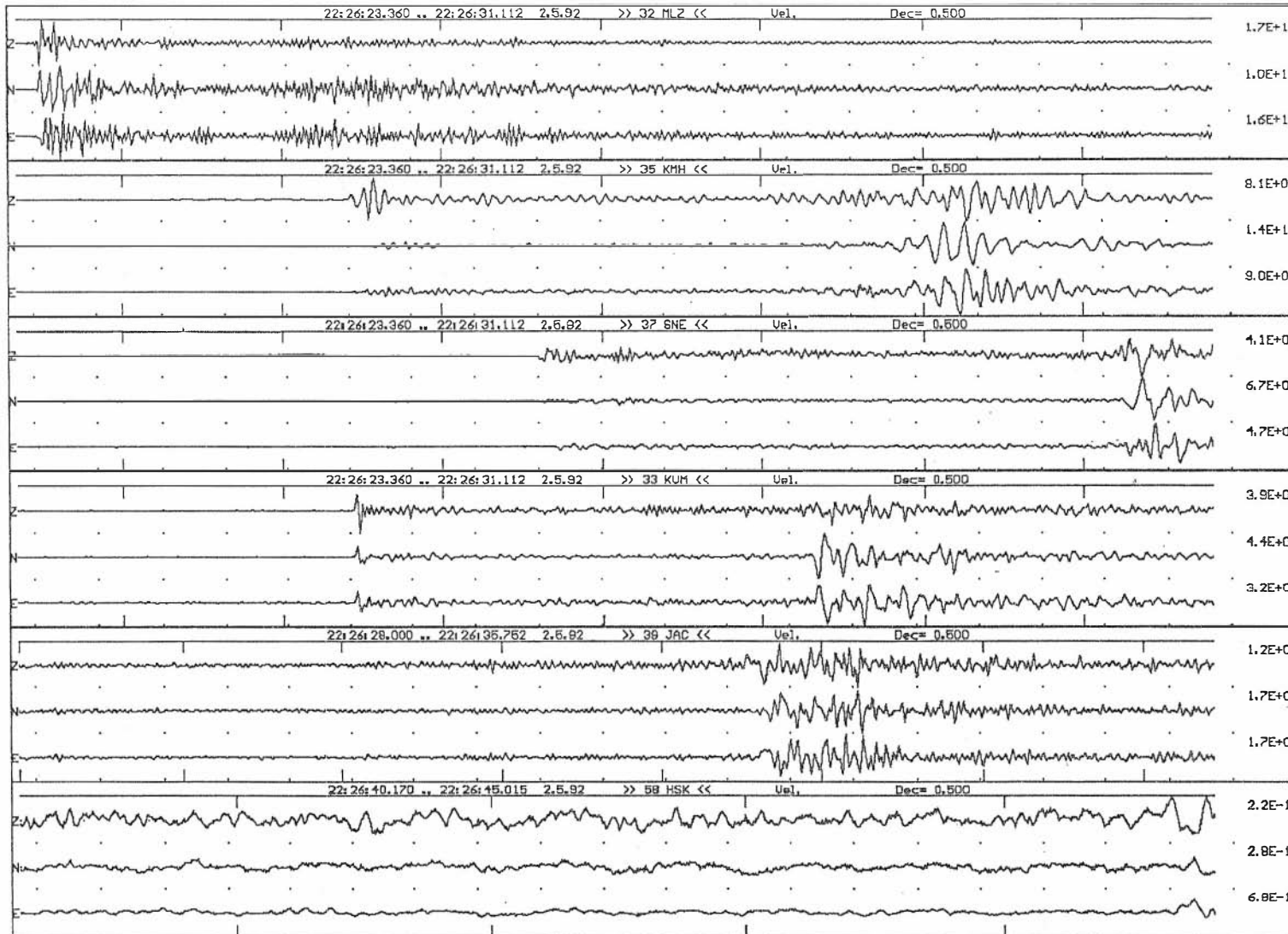


Fig. 2 Location of the seismic swarm May, 12. - 13.

Fig. 3 Seismograms of event May 2., 22:26:23 recorded on all stations



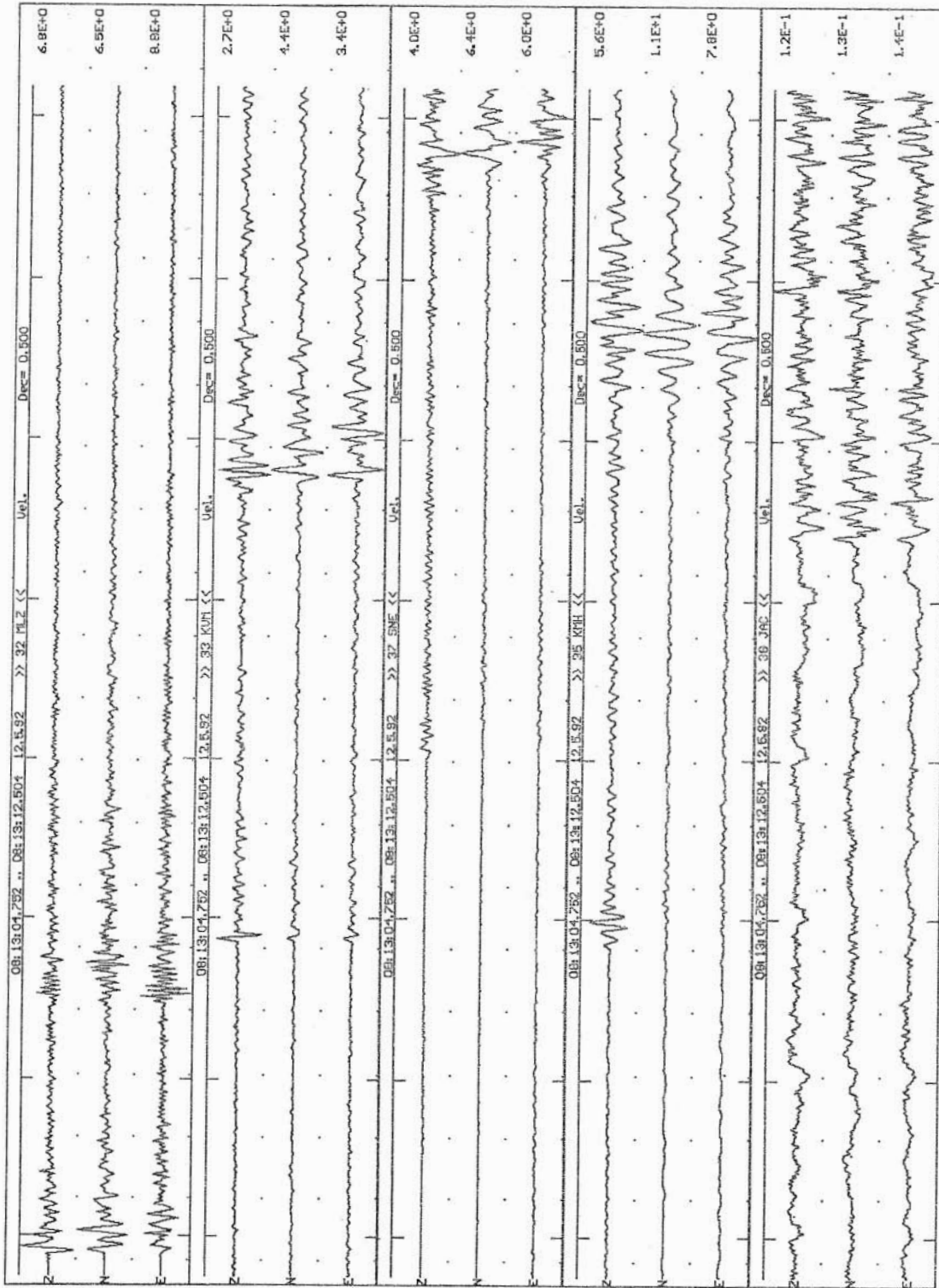


Fig. 4 Seismograms of event May 12, 08:13:04 recorded on five stations

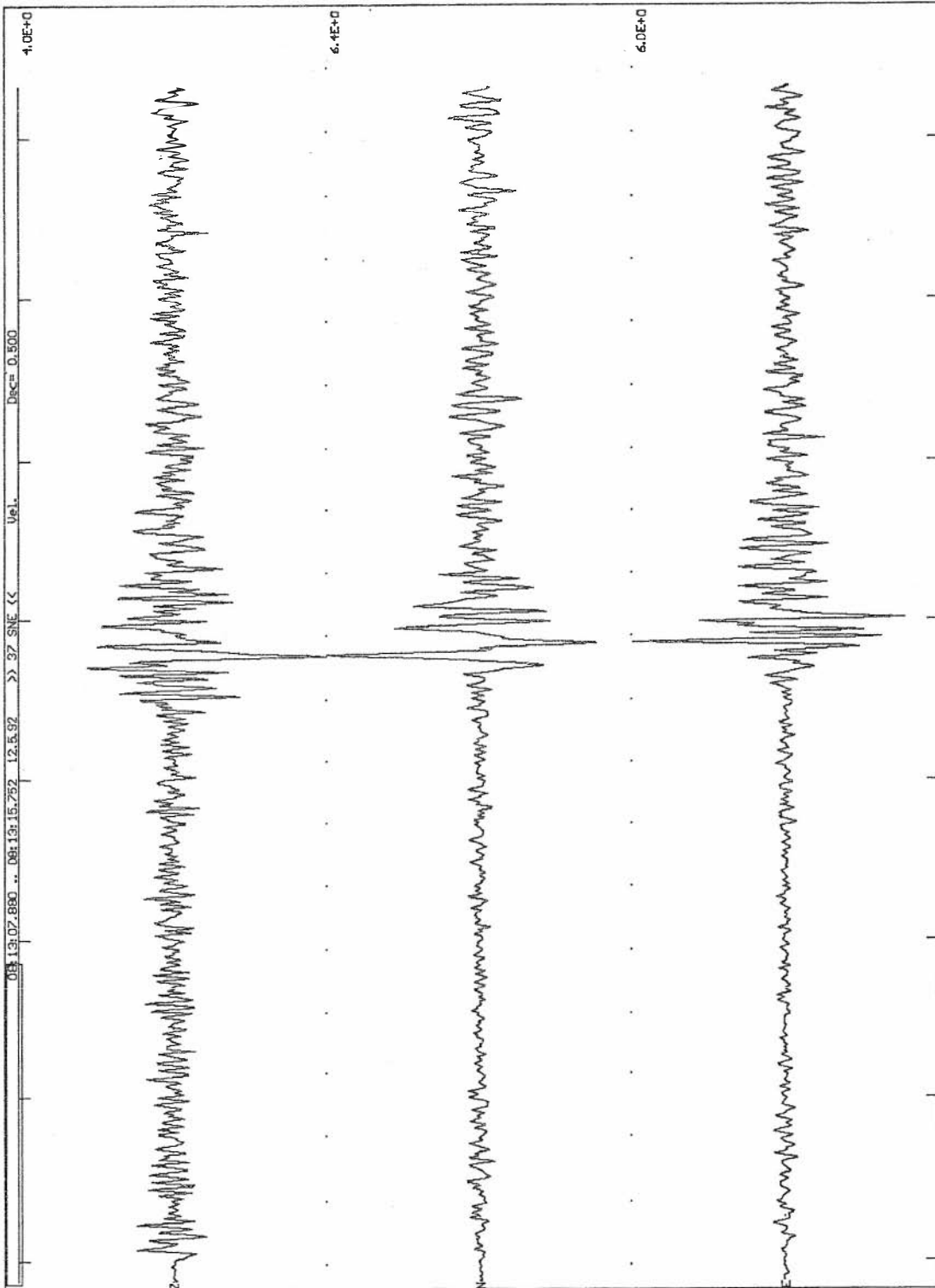


Fig. 5 Seismogram of event May 12, 08:13:04 recorded on station SNE