

Division II – Seismic observation network



***December 17th, 2003
Earthquake Report***

by

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1. General elements

Date & time	December 17 th , 2003; 23:15:15.00 UTC
Seismic source	Bulgaria
Magnitude	Mw=4.6 (moment magnitude)
Location	43.19 °N; 27.44 °E
Depth	60 km

Seismic event characteristics were compiled from *EMSC* (www.emsc-csem.org), *USGS* (<http://earthquake.usgs.gov/eqcenter/>) and *NIEP* (<http://www.infp.ro/>) websites

The earthquake was recorded by 3 *NCSRR* seismic stations, all of them are borehole stations located in Bucharest.

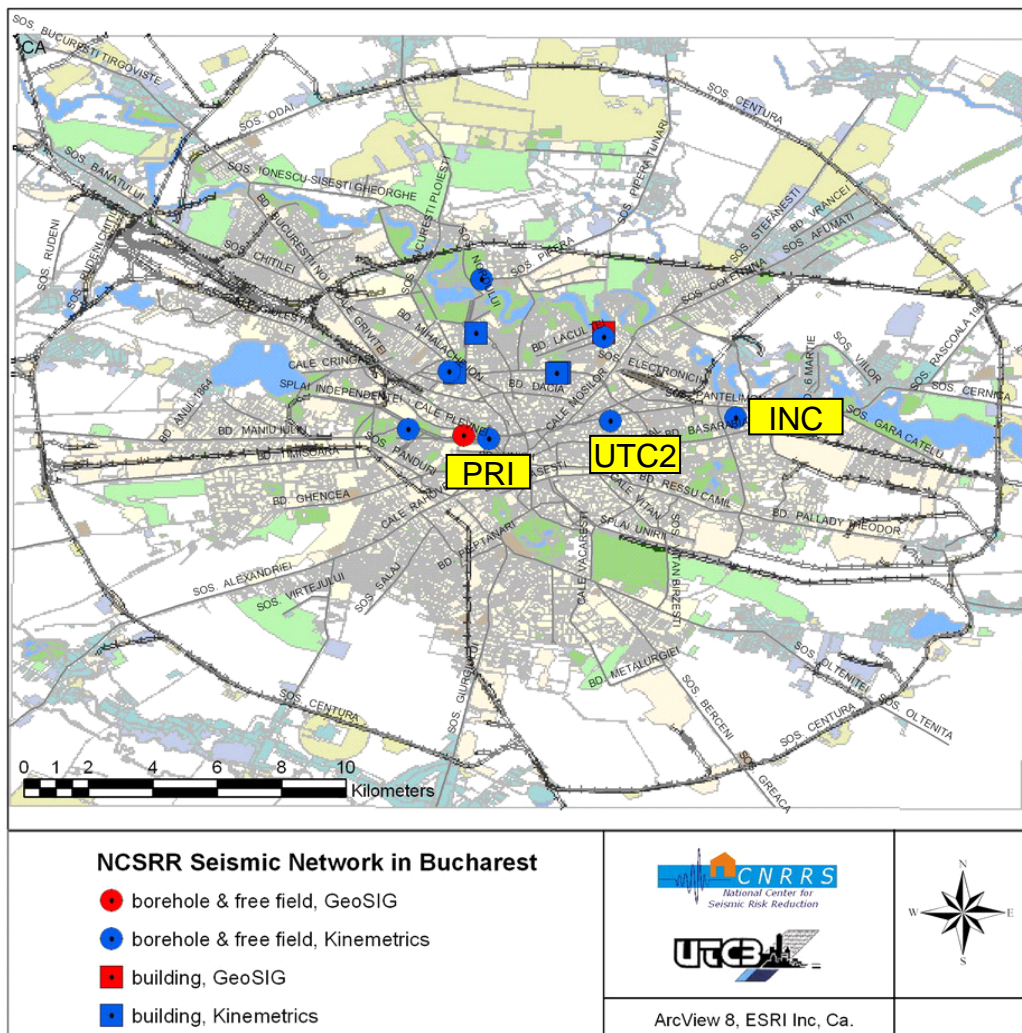


Figure 1. Bucharest - location of *NCSRR* stations with records during December 17th, 2003 Bulgarian earthquake

2. Earthquake records in *NCSRR* network

Table 1. Peak ground acceleration at *NCSRR* borehole seismic stations during December 17th, 2003 Bulgarian earthquake

Statia	PGA (cm/s ²)								
	UTC2			INC			PRI		
Comp.	EW	NS	V	EW	NS	V	EW	NS	V
S	0.6	0.7	0.3	0.9	1.1	0.4	0.8	0.6	0.4
B1	0.3	0.3	0.2	0.4	0.4	0.3	0.2	0.3	0.3
B2	0.3	0.3	0.2	0.4	0.4	0.2	0.2	0.3	0.3

S – ground surface; B1 – shallow borehole; B2 – deep borehole

3. Examples of NCSRR network recorded accelerograms

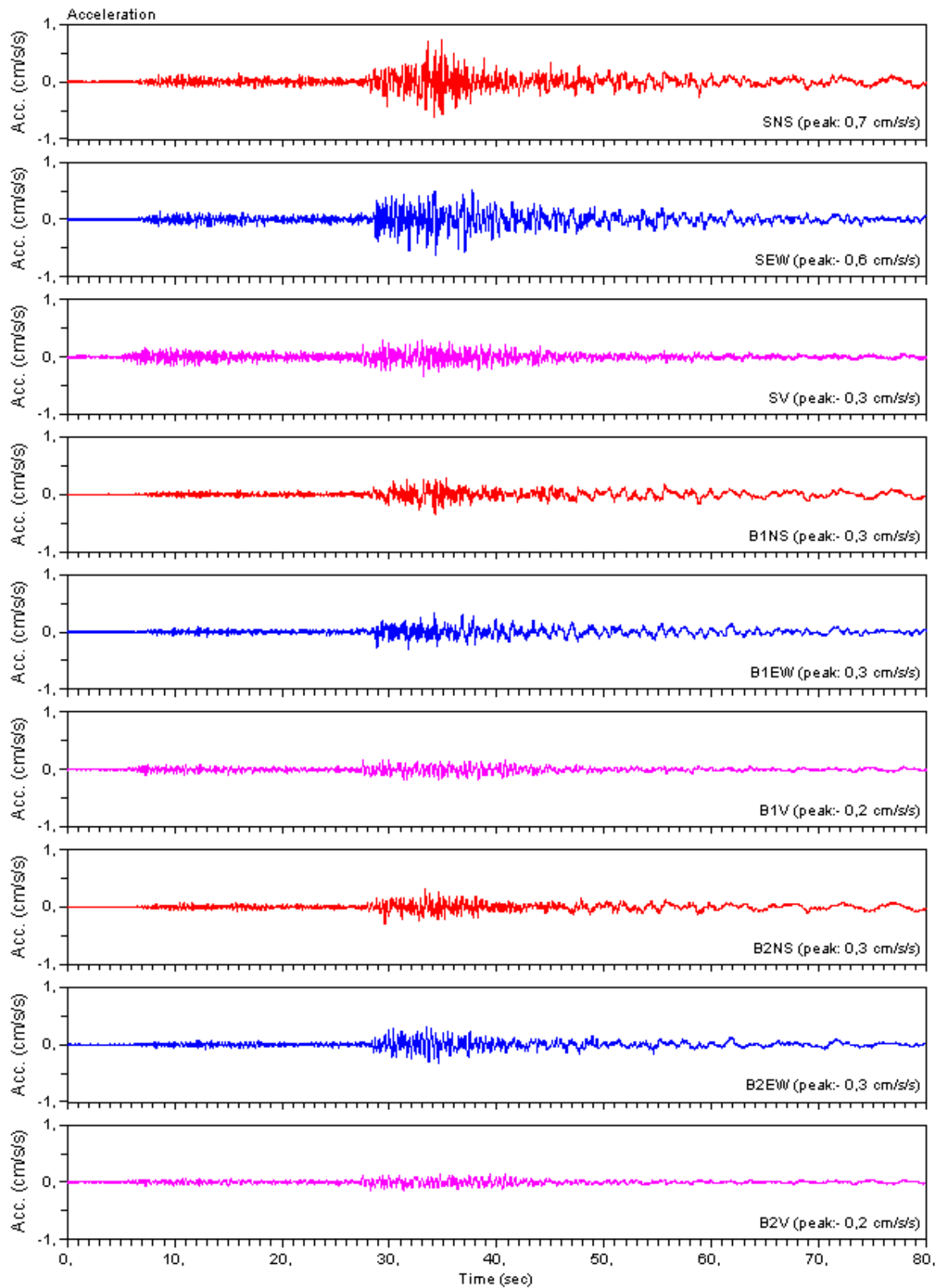


Figure 2. Accelerograms recorded at UTC2 borehole seismic station during December 17th, 2003 Bulgarian earthquake ($M_w=4.6$)

4. Acknowledgements

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