

Division II – Seismic observation network



***October 5th, 2003
Earthquake Report***

by

*A. Aldea
S. Demetriu
E. Albota
O. Bogdan
L. Sonia*

1. General elements

Date & time	October 5 th , 2003; 21:38:18.00 UTC
Seismic source	Vrancea subcrustal
Magnitude	Mw=4.6 (moment magnitude)
Location	45.57 °N; 26.46 °E
Depth	145.6 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 4 *NCSRR* seismic stations, all of them are borehole stations located in Bucharest.

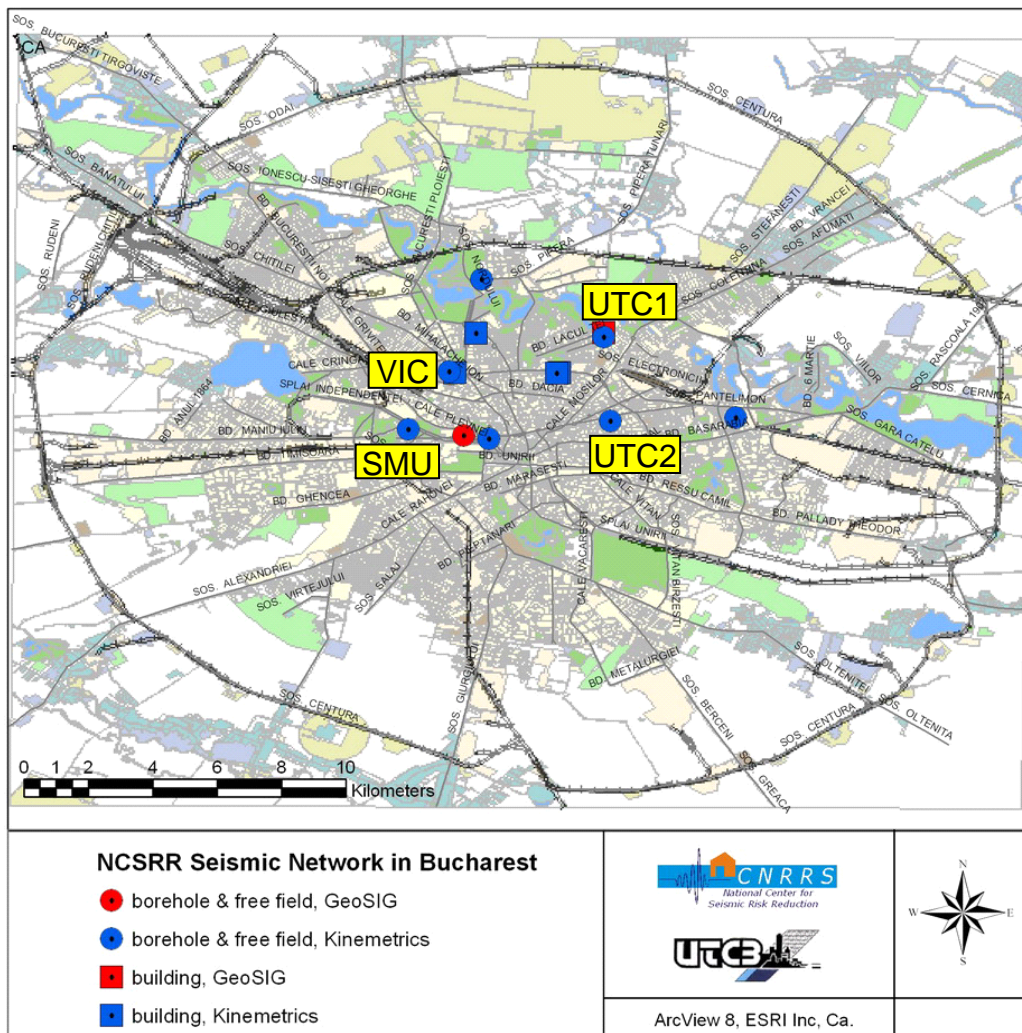


Figure 1. Bucharest - location of *NCSRR* stations with records during October 5th, 2003 Vrancea subcrustal earthquake

2. Earthquake records in *NCSRR* network

Table 1. Peak ground acceleration at *NCSRR* borehole seismic stations during October 5th, 2003 Vrancea subcrustal earthquake

Station	PGA (cm/s ²)											
	UTC1			UTC2			VIC			SMU		
Comp.	EW	NS	V	EW	NS	V	EW	NS	V	EW	NS	V
S	4.6	2.4	2.1	2.6	6	1.7	4.2	1.9	1.3	4.5	3.1	2.1
B1	0.6	2	0.3	2.5	0.5	1.5	0.6	2.5	0.9	0.5	2	0.9
B2	0.5	1.6	0.8	2.6	0.4	1.4	0.7	1.5	0.8	0.5	1.3	0.8

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

3. Examples of NCSRR network recorded accelerograms

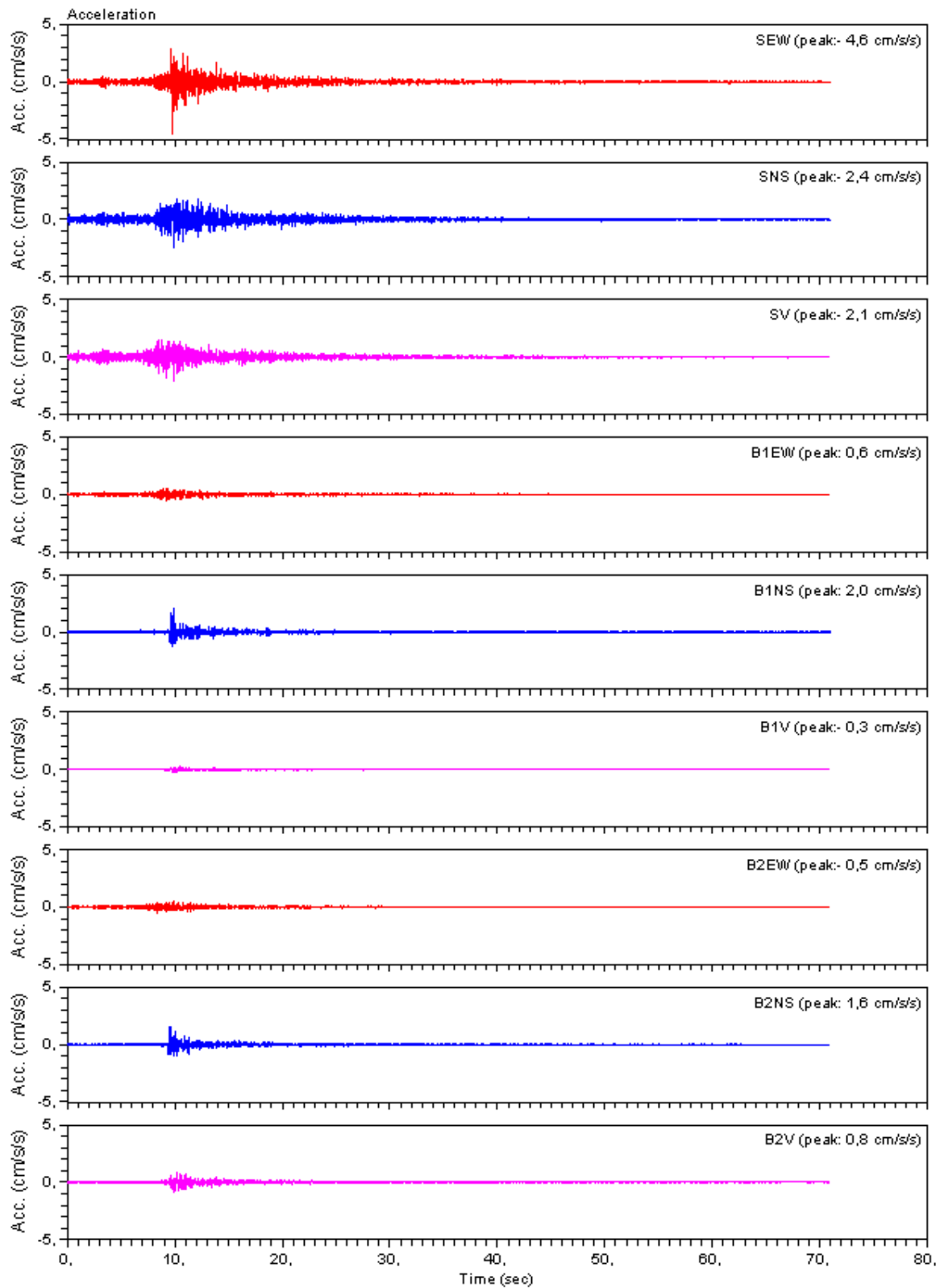


Figure 2. Accelerograms recorded at UTC1 borehole seismic station during October 5th, 2003 Vrancea subcrustal earthquake ($M_w=4.6$)

4. Acknowledgements

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