



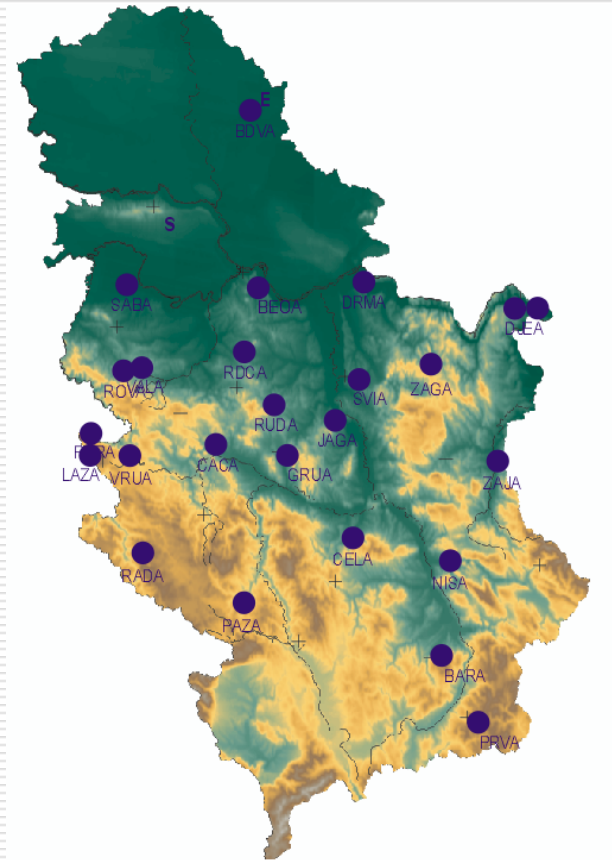
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RESULTS OF SERBIAN ACCELOMETRIC NETWORK

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Viewing accelerometric Network

Accelerometric networks are mainly: digital accelerometers ETNA with 19 bit resolution and 120dB dynamic range and sampling step of 200 samples. In order to cover the territory of Serbia proper is scheduled deployment of accelerometers at 42 in 2008 and 2009, are installed at 24 locations. 5 accelerometers (Laza, GRUA, BAR, BEO1 and CACA) established a communication network in near real time and at the request of the center of Belgrade.



REGISTERED ACCELERATION

Earthquake	magnituda	Number of stations with the acceleration registration
Čačak 2008 15.02	4,5	3
Čačak 2008 21.02	3.4	3
Peć 2010 10.03	4.7	8
Goražde 2010 18.03	3.4	3
Goražde 2010 18.03	2.5	2
Goražde 2010 18.03	3.0	2
Rogatica 2010 24.03	3.5	2
Gruža 2010 31.03	2.3	1
Rogatica 2010 13.04	3.5	2

ANALYSIS OF REGISTERED time ACCELERATION HISTORY

- Format available acceleration- V2 -cor-heading

CORRECTED ACCELEROGRAM
UNCORRECTED ACCELEROGRAM DATA
AQ439.EVT
03/10/2010 13:38:18 (GMT) (ORIGIN: 03/10/2010 13:38:18 GMT)
TRIGGER TIME: 3/10/2010 13:38:21.200 GMT
STATION NO. 43.419N 21.196E ETNA S/N 581 (4 CHNS OF 4 AT STA)
ETNA S/N 5812
CHAN 1: ____ (STA CHN: 1)
AQ439.EVT 03/10/2010 13:38:18 (GMT)
HYPOCENTER: 42.74N 20.59E H= 12.0KM ML=4.5 Mw=4.7
INSTR PERIOD = 0.0050 SEC, DAMPING = 0.7000, SENSITIVITY = 1.250 VDC/G
RECORD LENGTH = 57.000 SEC
UNCOR MAX = -0.001 G, AT 14.690 SEC
RMS ACCEL OF (UNCOR) RECORD = 0.000 G
ACCELEROGRAM BANDPASS FILTERED WITH RAMPS AT 0.060-0.120 AND 43.00-45.00 CYC/SEC
11400 POINTS OF INSTRUMENT- AND BASELINE-CORRECTED ACCEL, VELOC, AND DISPL DATA
AT EQUALLY-SPACED INTERVALS OF 0.005 SEC.
PEAK ACCELERATION = 1.072 CM/SEC/SEC AT 17.890 SEC.
PEAK VELOCITY = 0.053 CM/SEC AT 17.850 SEC.
PEAK DISPLACEMENT = 0.004 CM AT 15.940 SEC.
INITIAL VELOCITY = 0.001 CM/SEC; INITIAL DISPLACEMENT = 0.000 CM
AQ439.EVT 03/10/2010 13:38:18 (GMT)

Earthquake :

Peć – Istok 2010-03-10 13:38:04,8

Region : Srbija

latitude: 42.739 N

longitude: 20.588 E

depth: 12 km

mechanism: faults

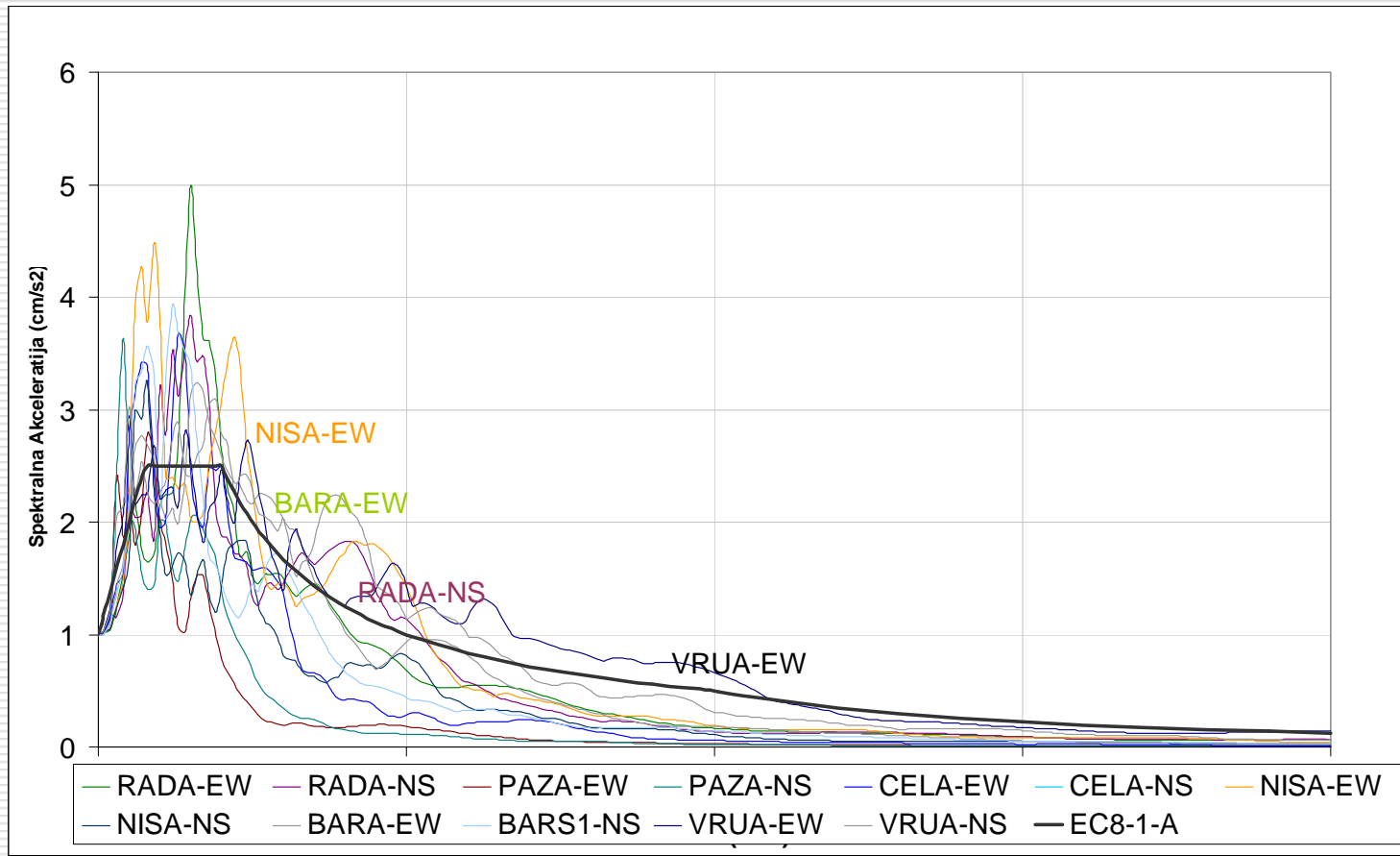
magnitude Mw: 4.7

intensity: VI EMS

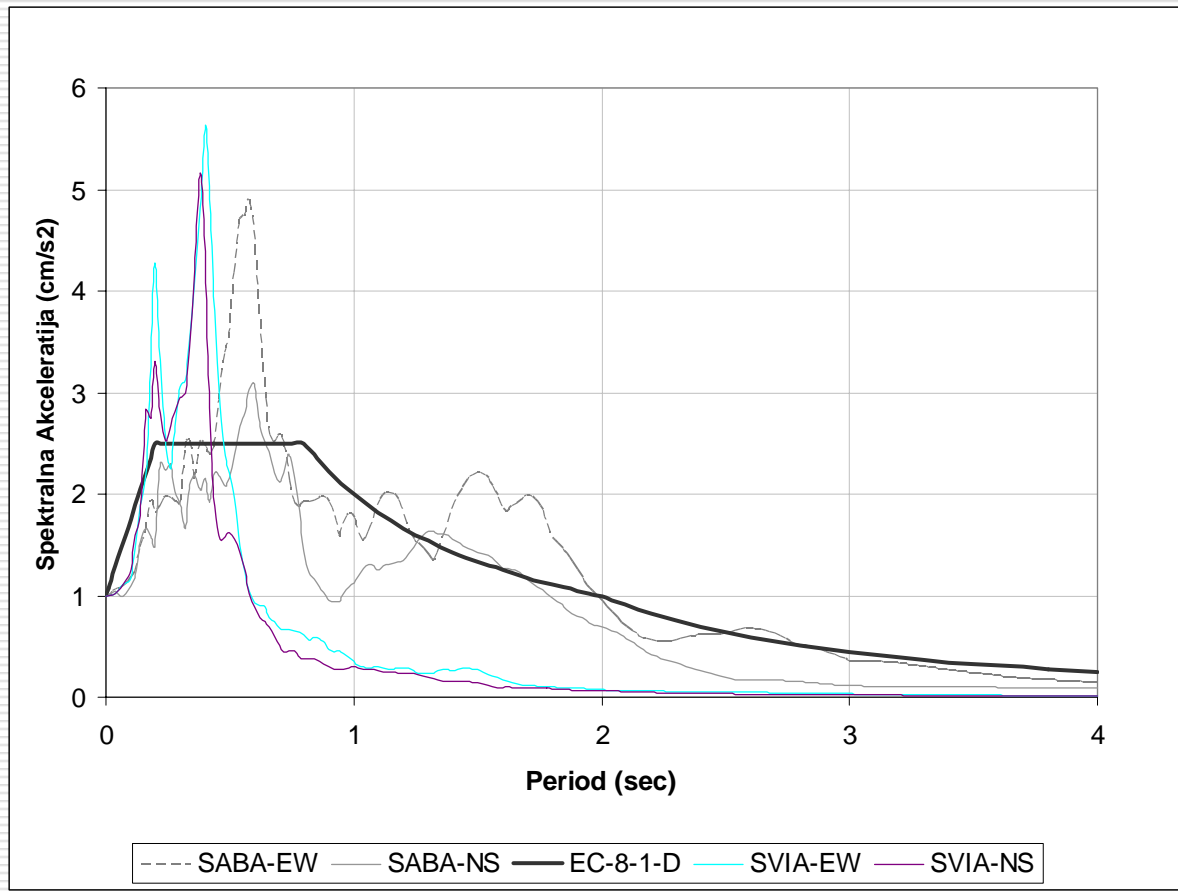
Acceleration registered at the following measuring points:

1. Novo Pazarska Banja
 2. Ćelije
 3. Radojnja
 4. Šabac
 5. Niš
 6. Barje, mreža od 5 akcelerografa
 7. Svilajnac
 8. Vrutci
-

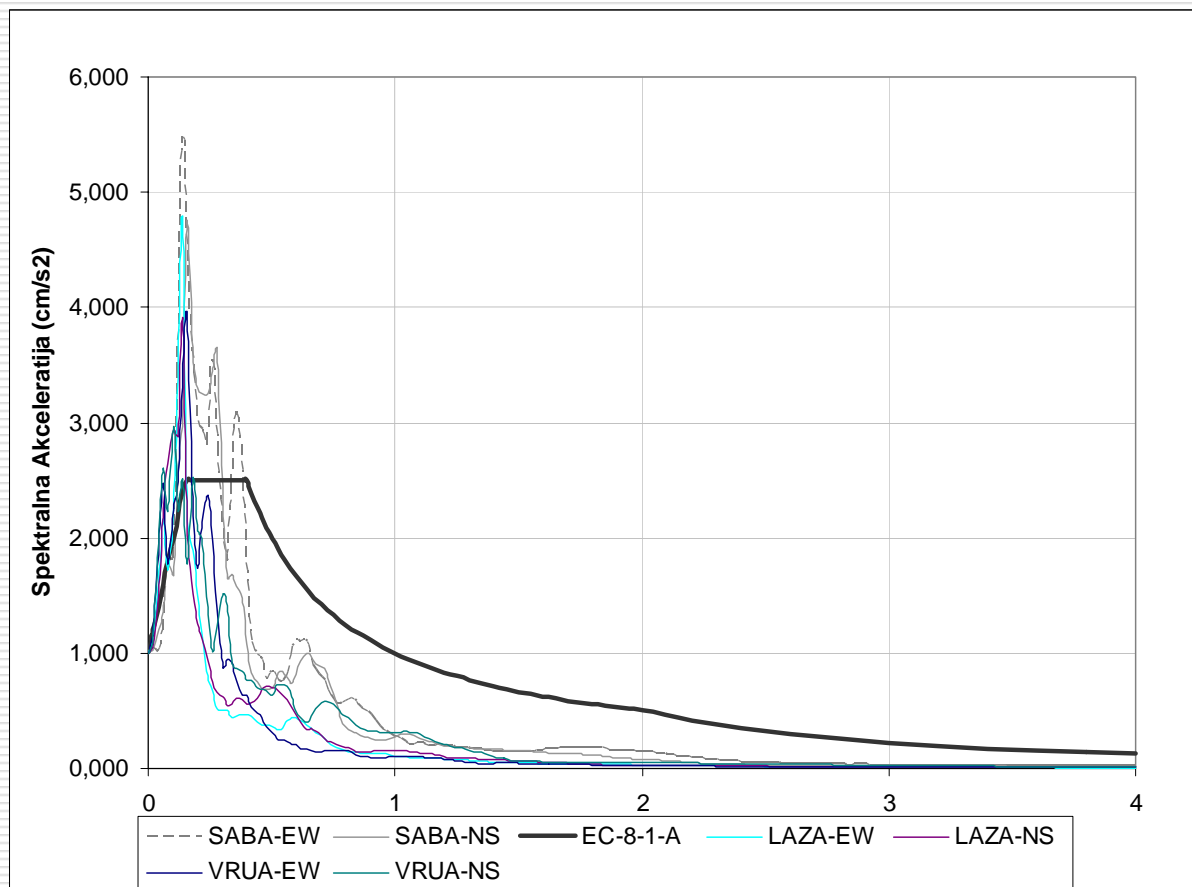
Elastic response spectrum for registration at the local soil type A in EC 8-1 5% damping



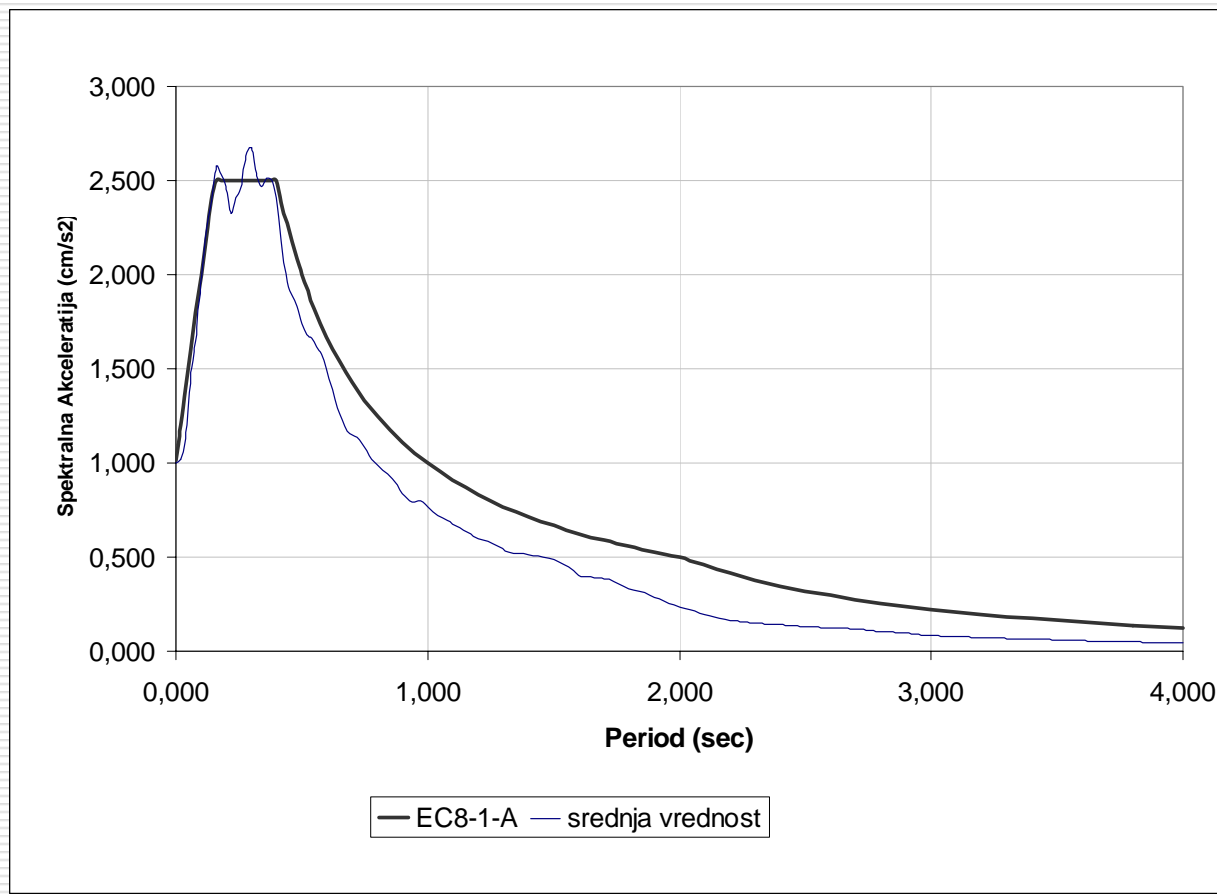
Elastic response spectrum for registration at the local soil type D in EC 8-1 5% damping



Elastic response spectrum for earthquake registering Gorazde and soil type on EC-D 8-1 5% damping



The mean value of the elastic response spectrum for registration at the local soil type A in EC 8-1 5% damping



CONCLUSION

Completed registration, given their quality and knowledge of the velocity profile of the local soil, will significantly contribute to the standardization of local soil for the territory of Serbia and the definition of national parameters for the local soil.
