



National Institute for Earth Physics - Magurele

Seismic report - manual

Event local time: Sun Oct 16,2016 08:56:26

Romania - Event 16055626 - Vrancea seismic zone

Sun Oct 16, 2016 05:56:26 GMT ML 3.6 N45.48 E26.33 Depth: 126.0km ID:16055626

Seismicity of Romania - latest large earthquakes in Vrancea

Date	Time	Lon	Lat	Depth	Mw
22-Nov-2014	19:14:17	45.87	27.15	40.9	5.4
06-Oct-2013	01:37:21	45.67	26.58	135.1	5.2
25-Apr-2009	17:18:48	45.68	26.62	109.6	5.4
18-Jun-2005	15:16:41	45.72	26.66	153.7	5.2
14-May-2005	01:53:21	45.64	26.53	148.5	5.5
27-Oct-2004	20:34:36	45.84	26.63	105.4	6.0
06-Apr-2000	00:10:38	45.75	26.64	143.4	5.0
28-Apr-1999	08:47:56	45.49	26.27	151.1	5.3
31-May-1990	00:17:47	45.85	26.91	86.9	6.4
30-May-1990	10:40:06	45.83	26.89	90.9	6.9

Source: ROMPLUS Catalogue

Romania – Event 16055626 – Vrancea seismic zone

Attenuation laws – GMPE::VS10 IPE::VS04_msk

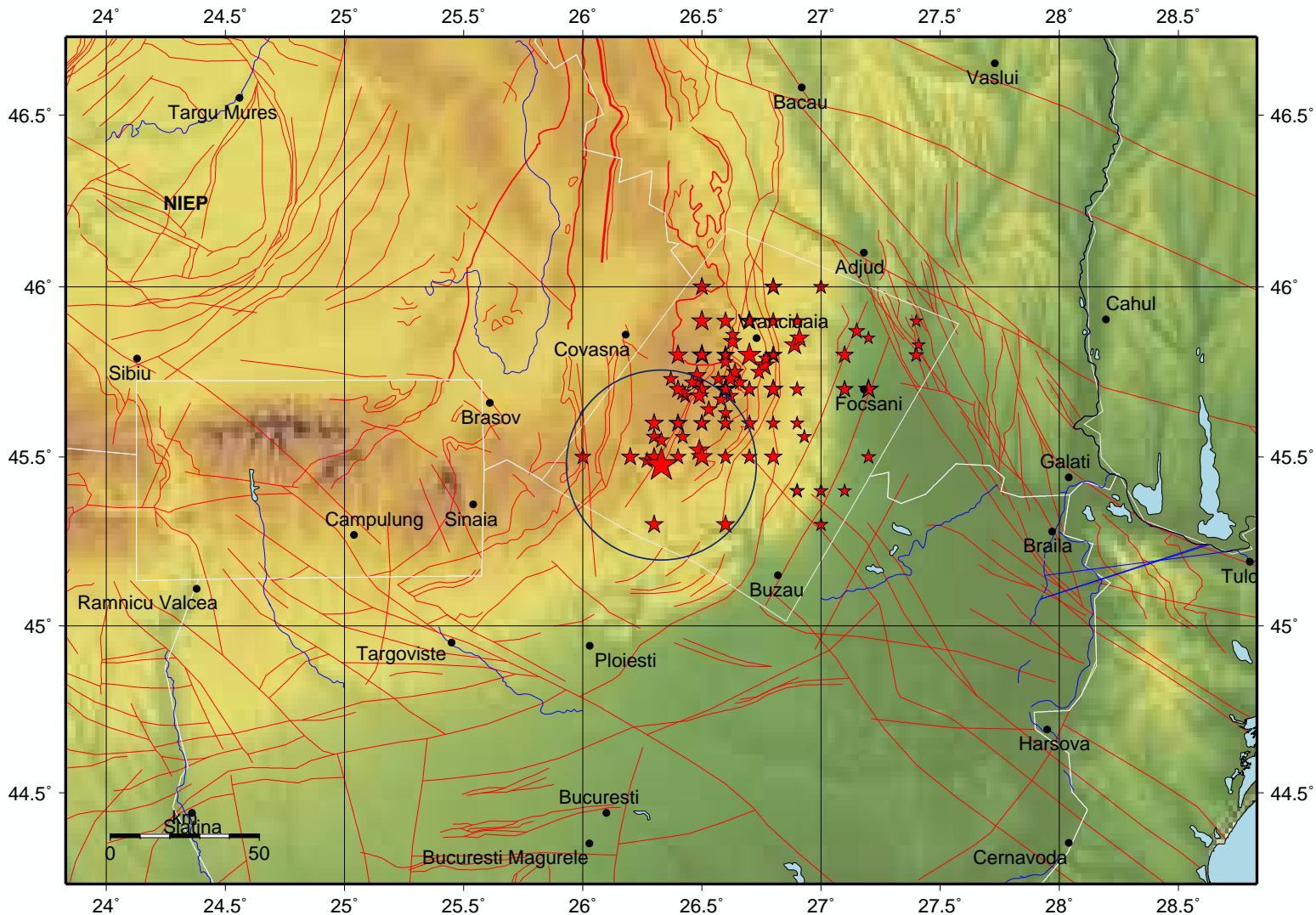
Max. grid values – pga: 0.0066(%g) pgv: 0.0008(cm/sec) mi: 2.1

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Local time

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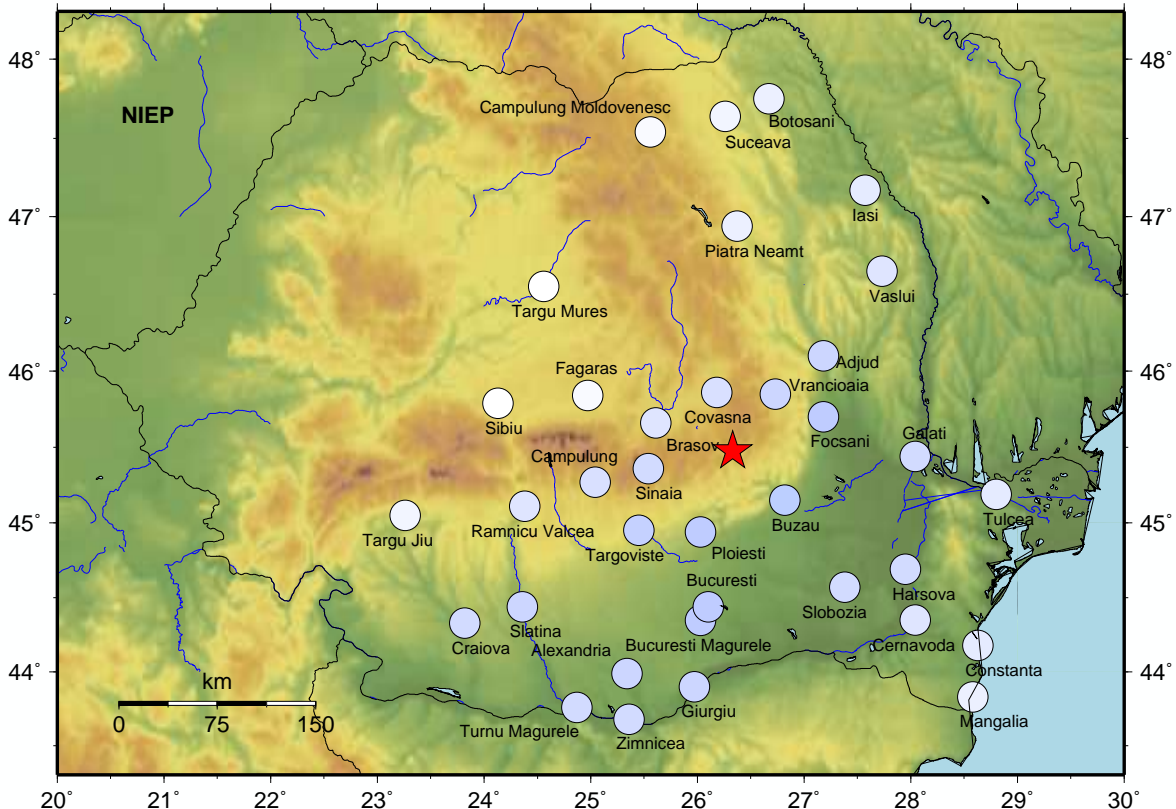
Fault lines



Estimated intensities based on IPE::VS04_msk attenuation law

Epicentral intensity: II

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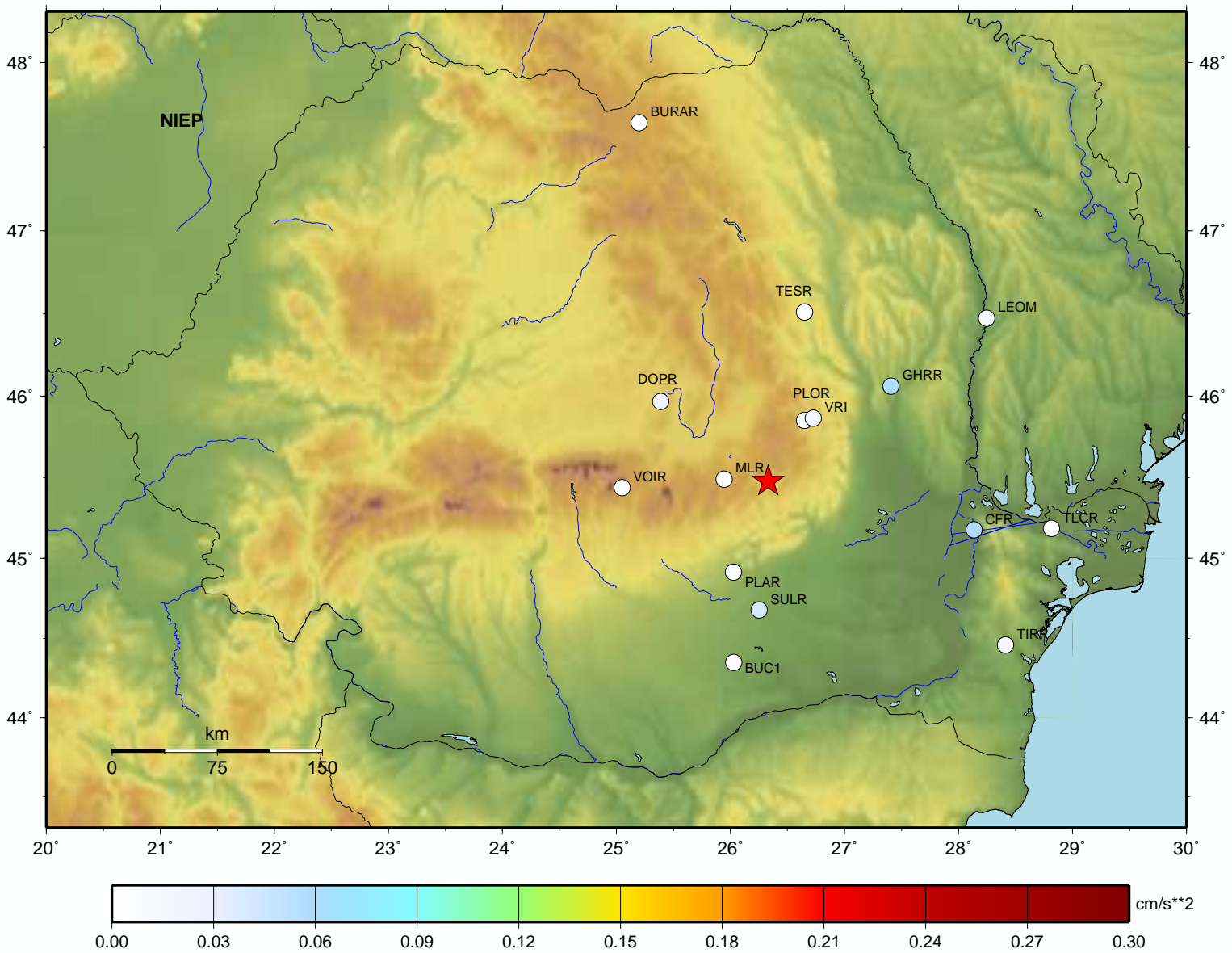
City	Distance(km)	Intensity
Covasna	44	I-II
Vrancioaia	51	II
Buzau	52	II
Brasov	59	I-II
Sinaia	63	I-II
Ploiesti	64	II
Focsani	70	II
Targoviste	90	II
Adjud	95	II
Campulung	103	I-II
Fagaras	113	I
Bucuresti	116	II
Bucuresti Magurele	127	II
Slobozia	130	I-II
Galati	133	I-II
Harsova	154	I-II
Ramnicu Valcea	158	I-II
Piatra Neamt	162	I-II
Vaslui	169	I-II
Sibiu	175	I
Giurgiu	177	II
Targu Mures	181	I
Alexandria	182	II
Cernavoda	184	I-II
Slatina	193	II
Tulcea	196	I-II
Iasi	211	I-II
Zimnicea	213	I-II
Turnu Magurele	223	I-II
Constanta	232	I-II
Craiova	235	I-II
Campulung M.	236	I
Suceava	240	I
Targu Jiu	245	I
Botosani	254	I-II
Mangalia	255	I-II

PERCEIVED SHAKING	Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	none	none	none	Very light	Light	Moderate	Moderate/Heavy	Heavy	Very Heavy
INSTRUMENTAL INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+

Observed stations accelerations – Antelope platform (cm/sec**2)

Maximum observed acceleration: VLDR_HHN 0.1525

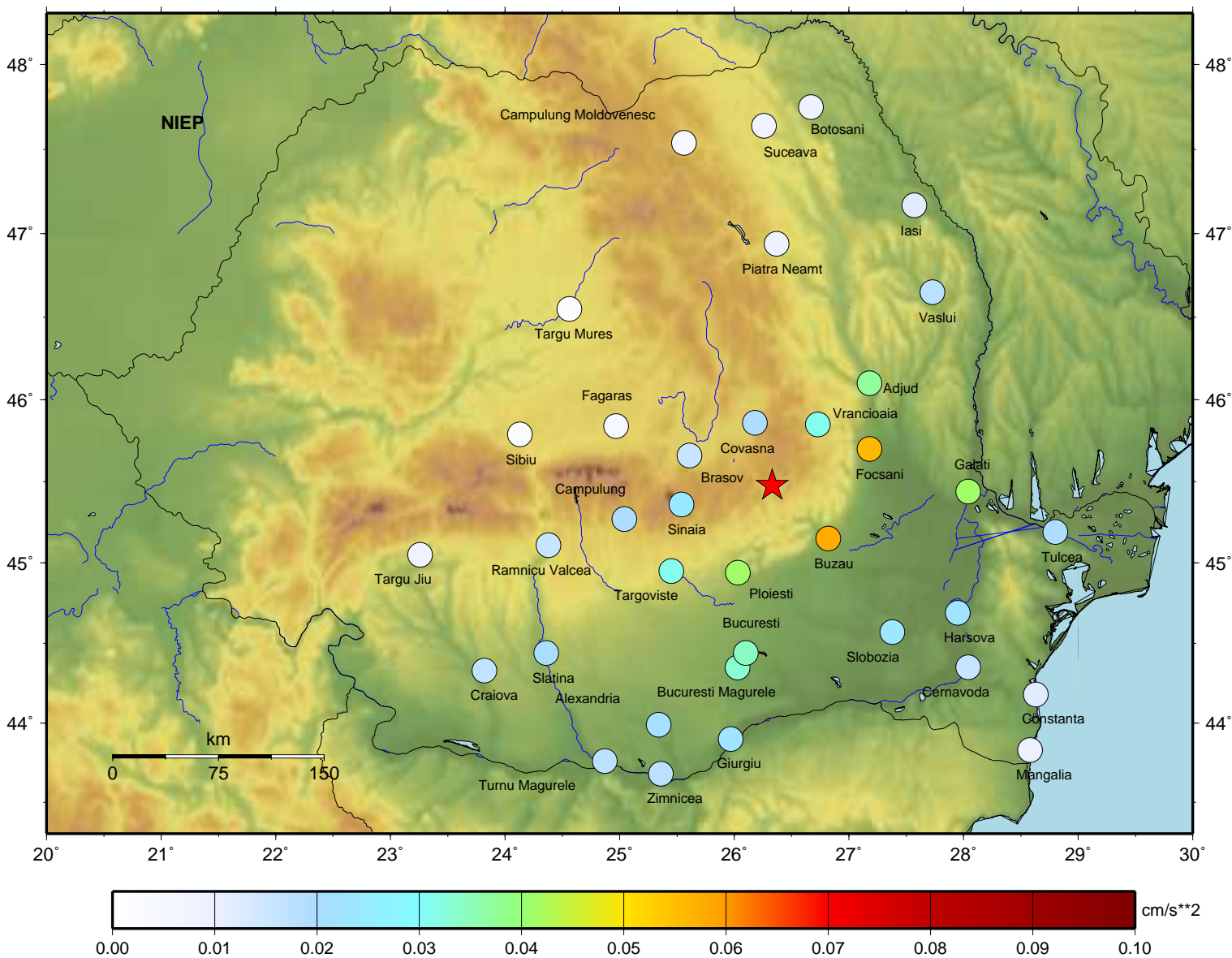
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Estimated accelerations based on GMPE::VS10 attenuation law

Maximum grid acceleration: 0.0647 (cm/sec**2); magnitude bias: -1.18

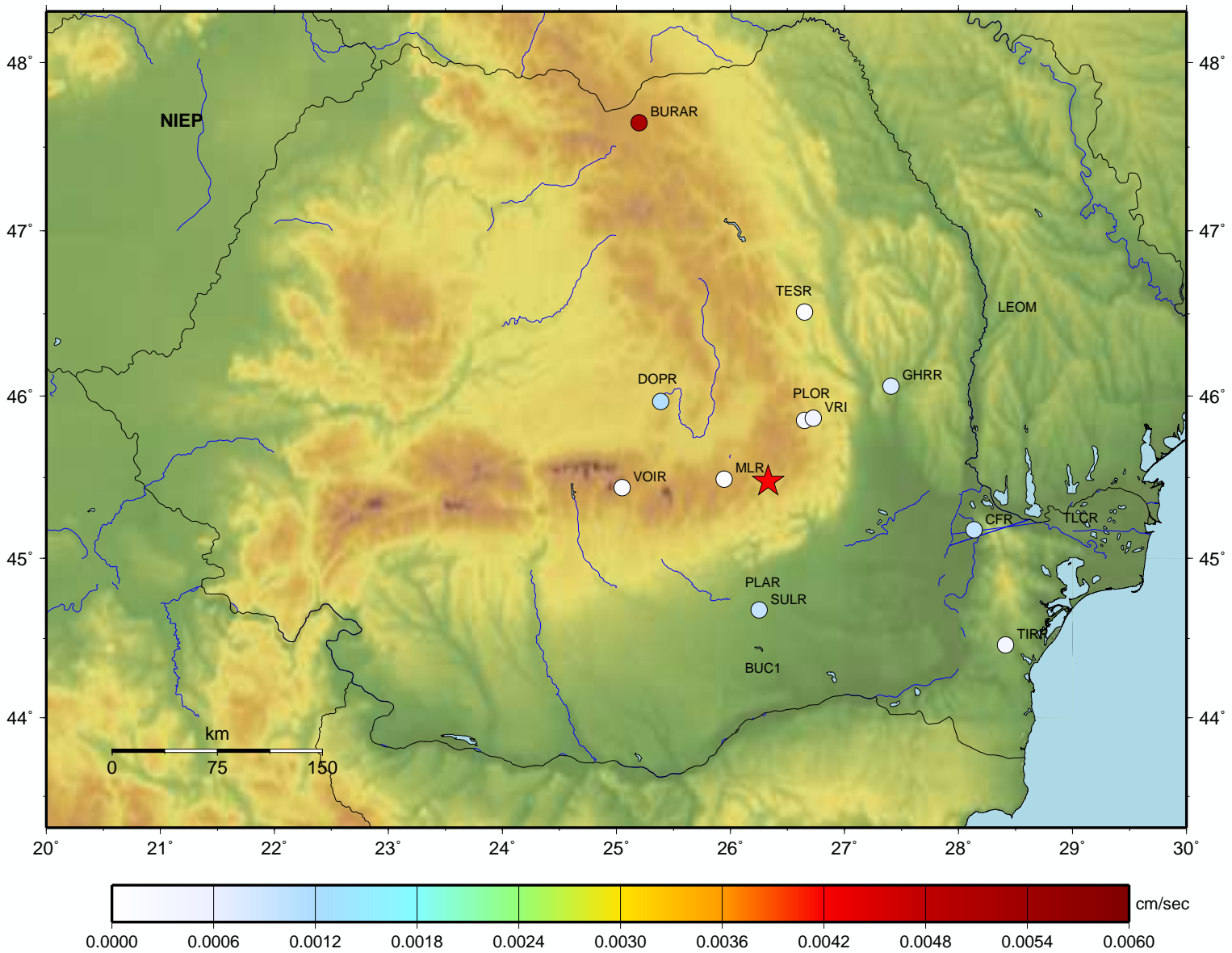
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Observed stations velocities – Antelope platform (cm/sec)

Maximum observed velocity: BURAR_BHN 0.0052

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Estimated velocities based on GMPE::VS10 attenuation law

Maximum grid velocity : 0.0008 (cm/sec); magnitude bias: -0.93

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