National Institute for Earth Physics - Magurele

Seismic report - manual

Event local time: Thu Jan 05,2017 06:23:55

Romania - Event 95042355 - Vrancea seismic zone

Thu Jan 5, 2017 04:23:55 GMT ML 4.1 N45.66 E26.54 Depth: 143.2km ID:95042355

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 95042355 − Vrancea seismic zone

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Fault lines

Attenuation laws − GMPE::VS10 IPE::VS04_msk
Max. grid values − pga: 0.0319(%g) pgv: 0.0060(cm/sec) mi: 2.6
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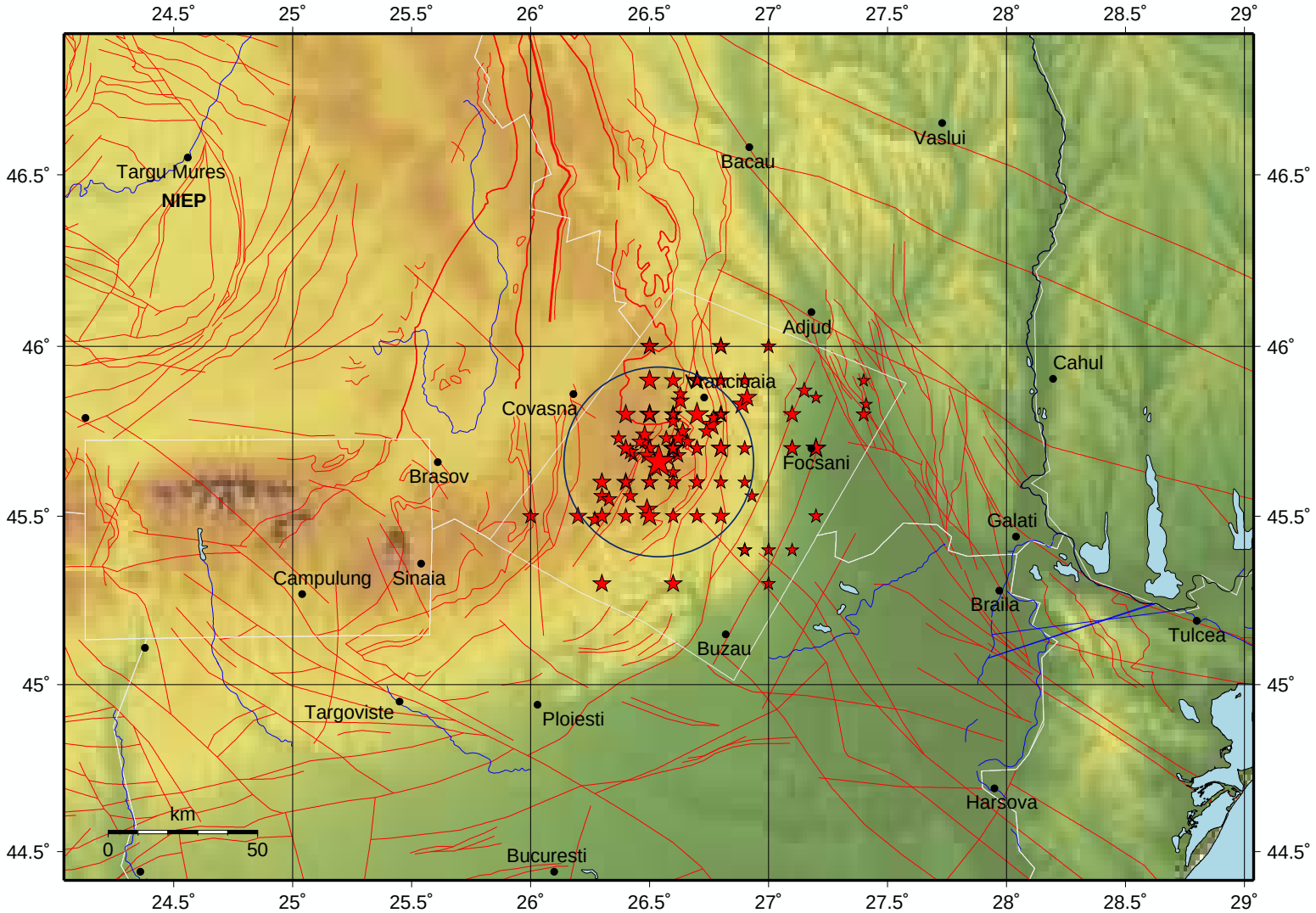

Estimated intensities based on IPE::VS04_msk attenuation law

Epicentral intensity: II−III

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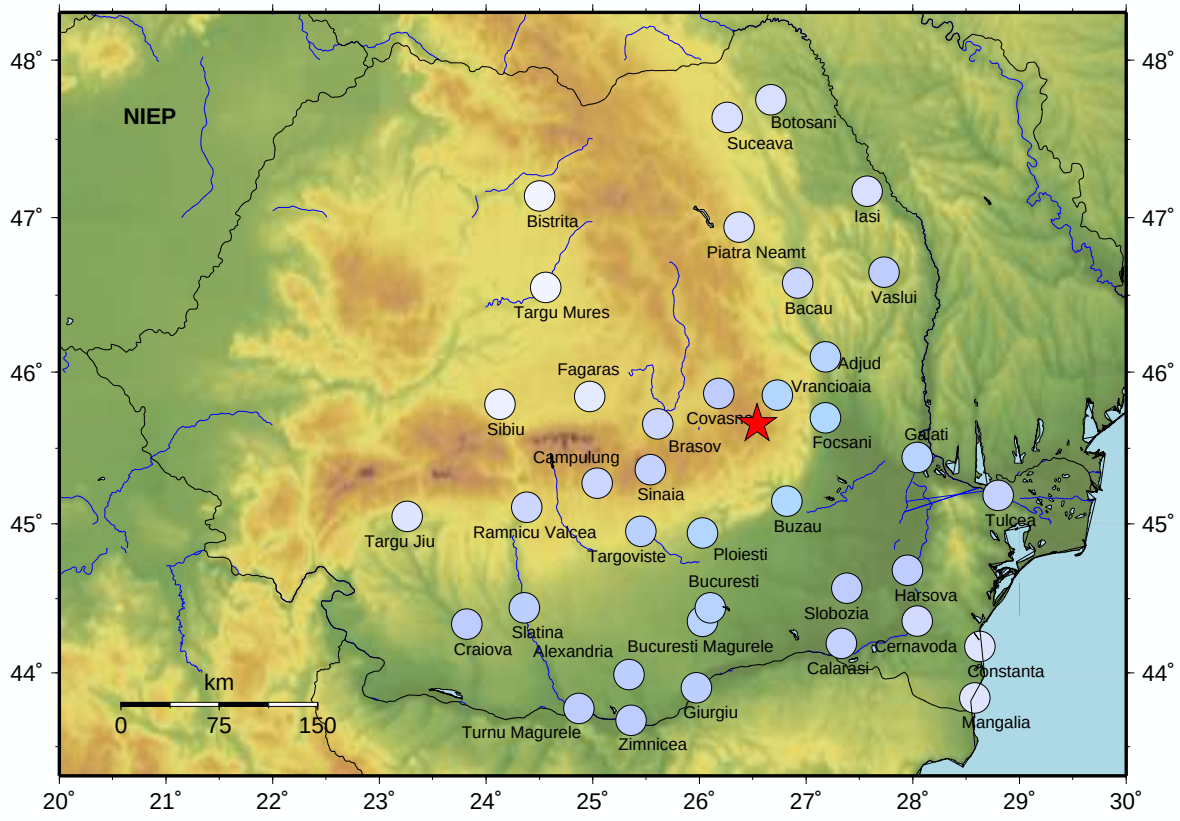

City	Distance(km)	Intensity
Vrancioaia	25	II−III
Covasna	35	II
Focsani	50	II−III
Buzau	60	II−III
Adjud	69	II−III
Brasov	72	II
Sinaia	84	II
Ploiesti	89	II−III
Bacau	106	II
Targoviste	116	II
Galati	119	II−III
Fagaras	123	I−II
Campulung	125	II
Slobozia	138	II
Bucuresti	140	II−III
Piatra Neamt	142	I−II
Vaslui	143	II
Bucuresti Magurele	151	II−III
Harsova	154	II
Calarasi	173	II
Ramnicu Valcea	179	II
Targu Mures	182	I
Tulcea	184	II
Iasi	185	I−II
Cernavoda	187	I−II
Sibiu	188	I−II
Giurgiu	200	II
Alexandria	208	II
Slatina	218	II
Suceava	221	I−II
Bistrita	227	I
Botosani	232	I−II
Constanta	233	I−II
Zimnicea	239	II
Turnu Magurele	249	II
Mangalia	259	I−II
Craiova	260	II
Targu Jiu	265	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/sec2)**

Maximum observed acceleration: TATR_HHE −0.3801

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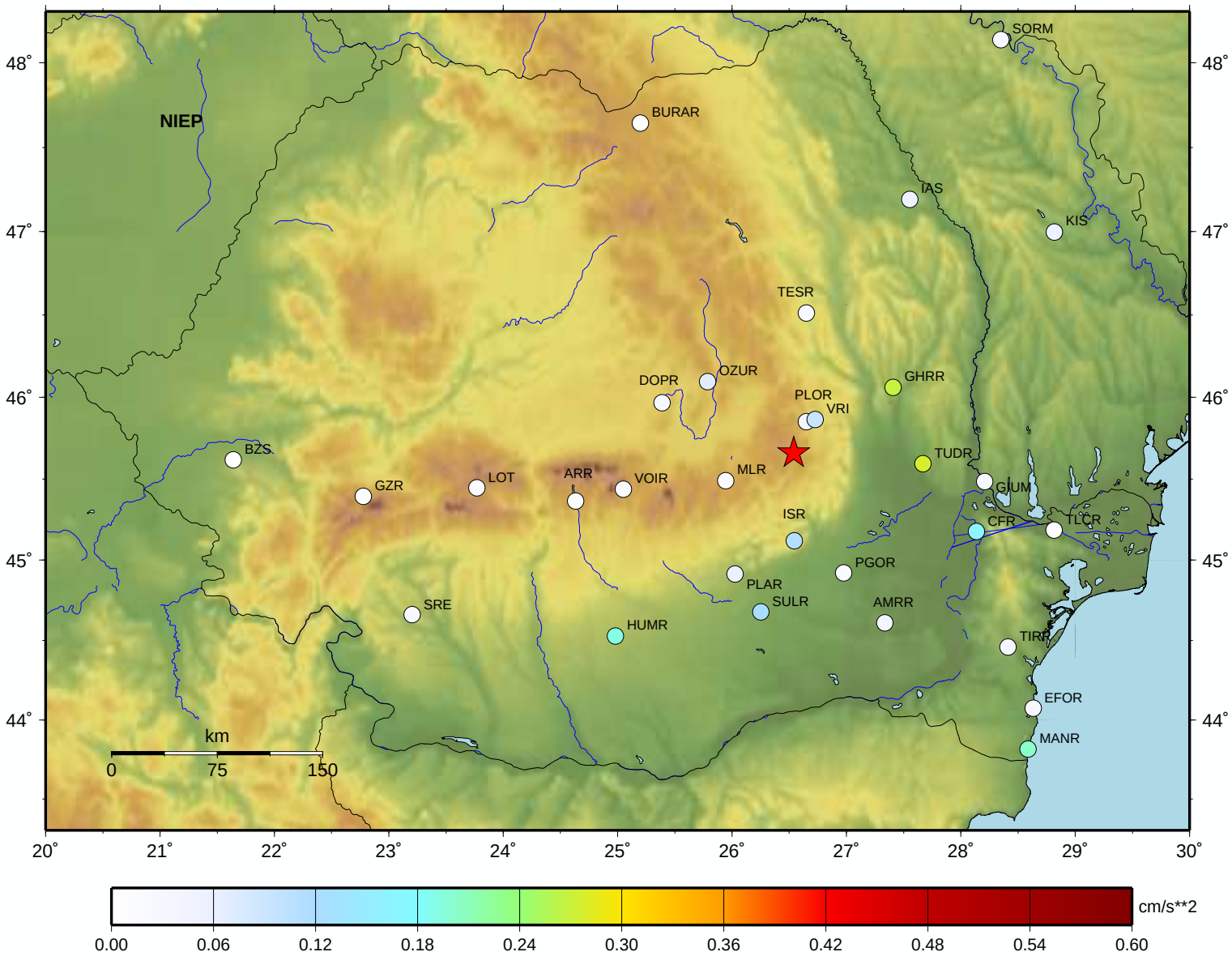

Estimated accelerations based on GMPE::VS10 attenuation law

Maximum grid acceleration: 0.3129 (cm/sec**2); magnitude bias: −0.97

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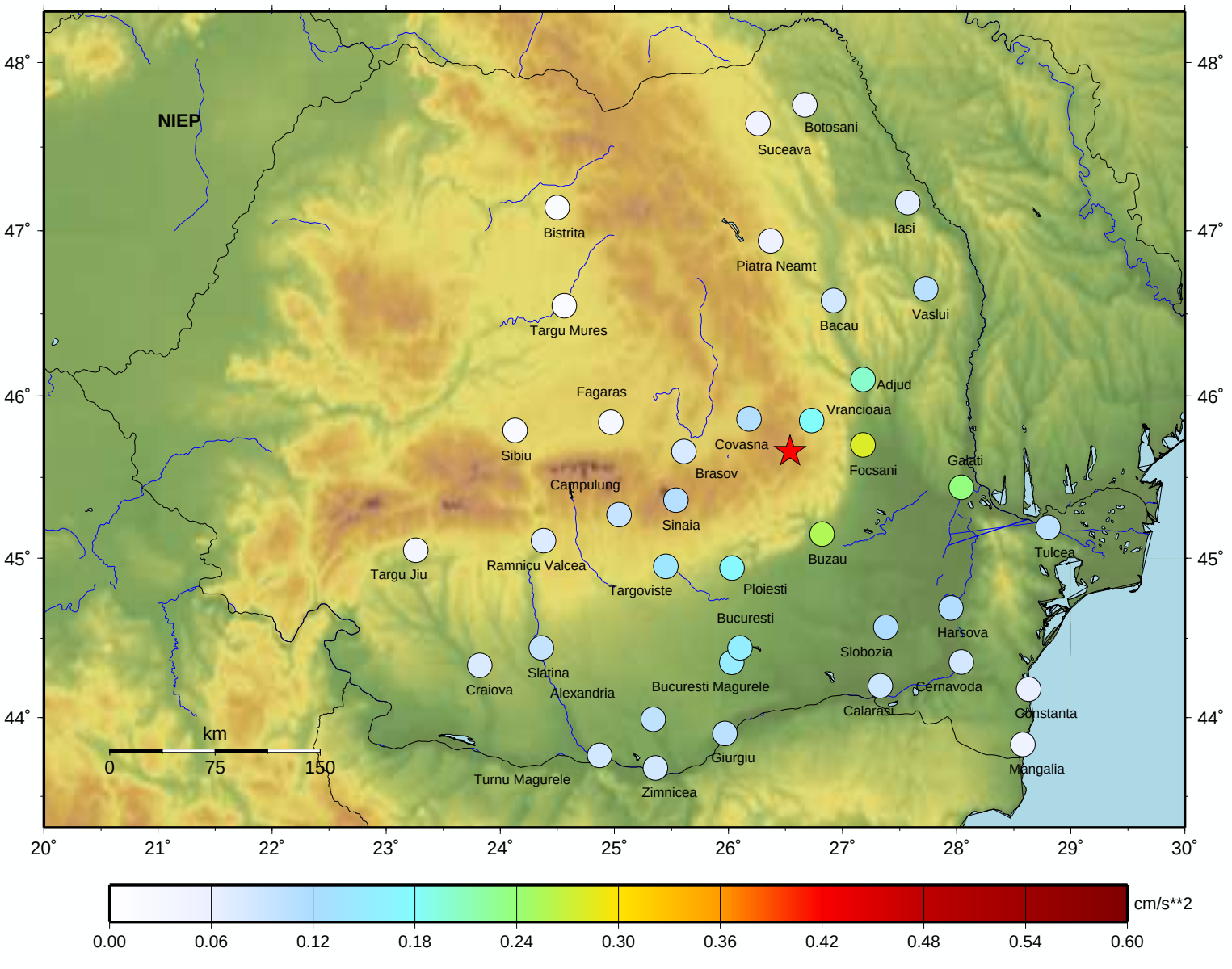

Observed stations velocities − Antelope platform (cm/sec)

Maximum observed velocity: TUDR_HHN 0.0082

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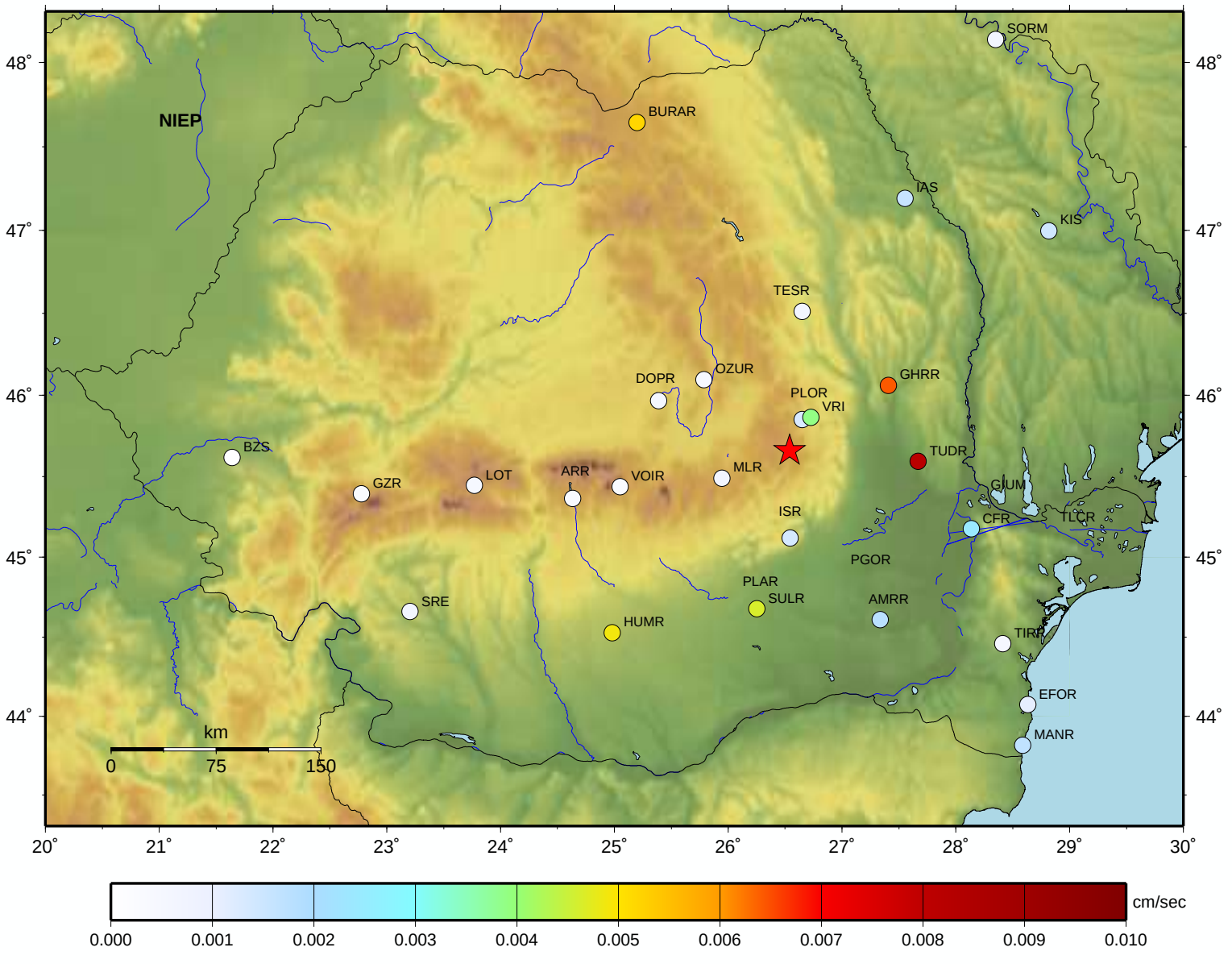

Estimated velocities based on GMPE::VS10 attenuation law

Maximum grid velocity : 0.0060 (cm/sec); magnitude bias: −0.62

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