



National Institute for Earth Physics - Magurele

Seismic report - manual

Event local time: Fri Dec 16,2022 01:47:13

Romania - Event 15234713 - Vrancea seismic zone

Thu Dec 15, 2022 23:47:13 GMT ML 4.1 N45.73 E26.67 Depth: 87.7km ID:15234713

NOTE: Accelerations, velocities and intensities are calculated automatically and are not revised by human operator. Their accuracy has not been evaluated.

Seismicity of Romania - latest large intermediate earthquakes

Date	Time	Lon	Lat	Depth	Mw
28-Oct-2018	00:38:11	26.41	45.61	147.8	5.5
27-Dec-2016	23:20:55	26.60	45.71	96.9	5.6
23-Sep-2016	23:11:20	26.62	45.71	92.0	5.5
06-Oct-2013	01:37:21	26.58	45.67	135.1	5.2
25-Apr-2009	17:18:48	26.62	45.68	109.6	5.4
18-Jun-2005	15:16:41	26.66	45.72	153.7	5.2
14-May-2005	01:53:21	26.53	45.64	148.5	5.5
27-Oct-2004	20:34:36	26.63	45.84	105.4	6.0
06-Apr-2000	00:10:38	26.64	45.75	143.4	5.0
28-Apr-1999	08:47:56	26.27	45.49	151.1	5.3

Source: ROMPLUS Catalogue

Romania – Event 15234713 – Vrancea seismic zone

Attenuation laws – GMPE::VS10 IPE::VS04_msk

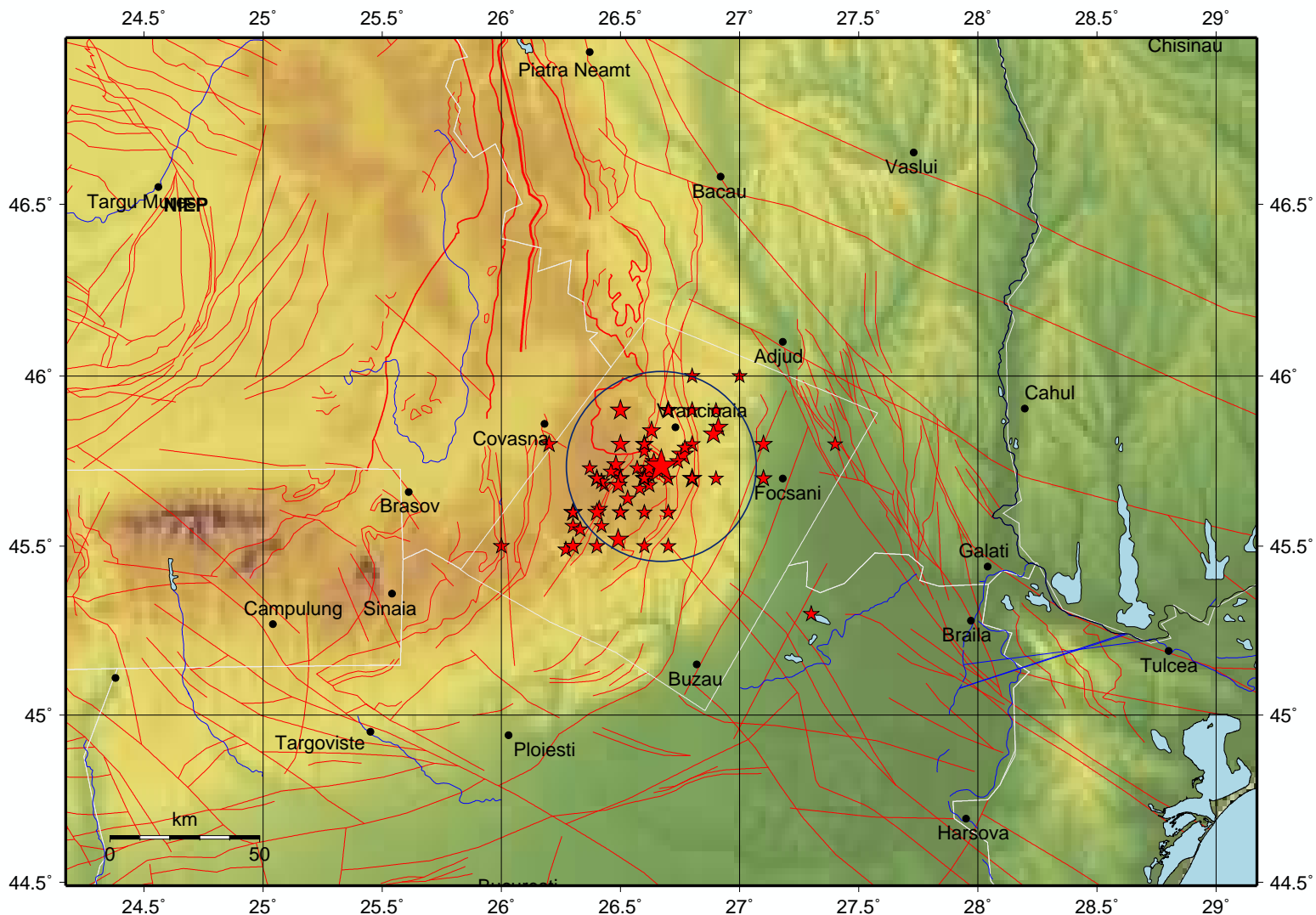
Max. grid values – pga: 1.28(cm/sec**) pgv: 0.07(cm/sec) mi: 2.8

Thu Dec 15, 2022 23:47:13 GMT ML 4.1 N45.73 E26.67 Depth: 87.7km ID:15234713 **Mw 3.8**

Local time

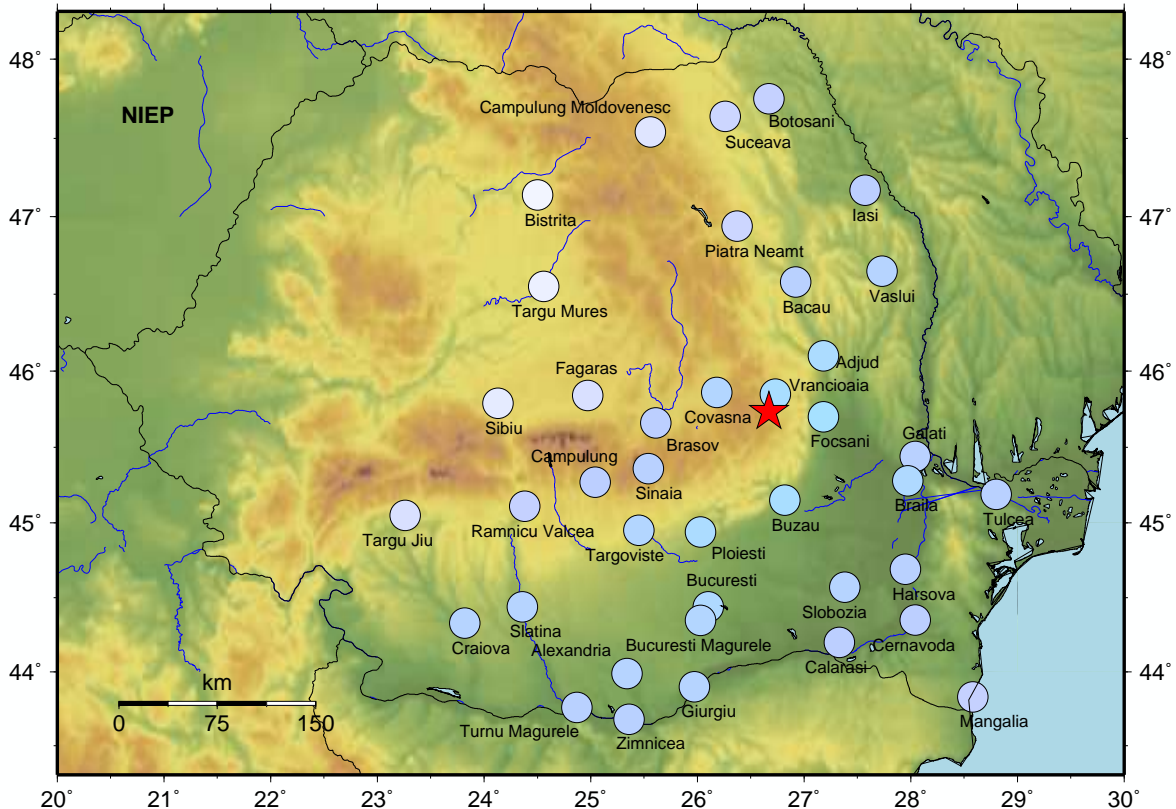
Fri Dec 16, 2022 01:47:13

Fault lines



Estimated intensities based on IPE::VS04_msk attenuation law

Thu Dec 15, 2022 23:47:13 GMT ML 4.1 N45.73 E26.67 Depth: 87.7km ID:15234713



City	Distance(km)
Vrancea	13
Focsani	39
Covasna	40
Adjud	56
Buzau	66
Brasov	83
Bacau	95
Sinaia	97
Ploiesti	101
Galati	111
Braila	113
Targoviste	129
Vaslui	130
Fagaras	132
Piatra Neamt	135
Campulung	137
Slobozia	140
Bucuresti	150
Harsova	153
Bucuresti Magurele	162
Iasi	173
Tulcea	177
Calarasi	178
Targu Mures	186
Cernavoda	187
Ramnicu Valcea	192
Sibiu	197
Giurgiu	211
Suceava	214
Campulung M.	217
Alexandria	220
Botosani	224
Bistrita	228
Slatina	231
Zimnicea	250
Mangalia	260
Turnu Magurele	261
Craiova	273
Targu Jiu	277

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+

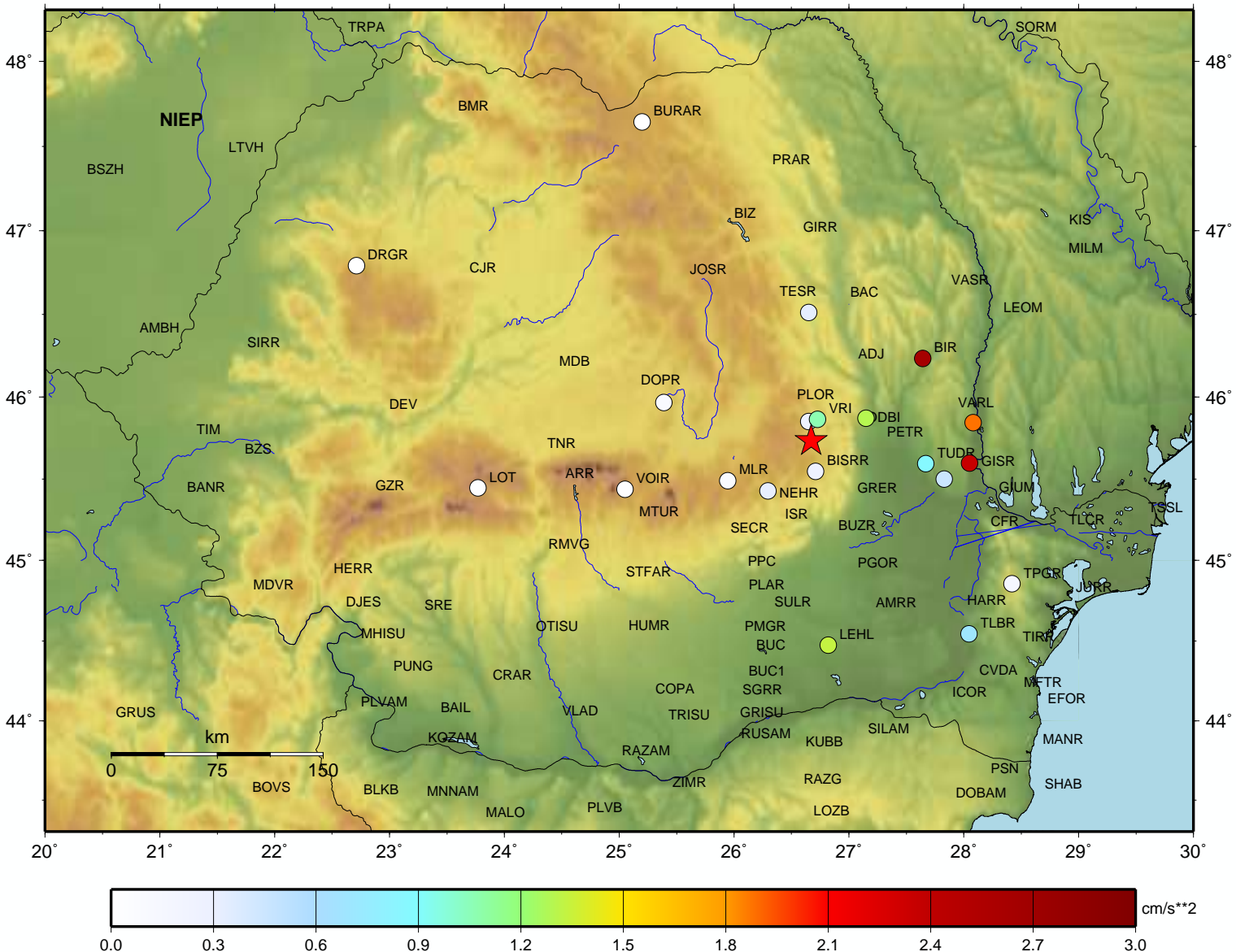
The largest accelerations recorded automatically by the seismic stations of "Instalatie de Interes National - Retea Seismica Nationala (IOSIN-RSN)"

Max. pga (cm/sec**2)		
BIR	HNE	2.65
TATR	HNE	2.36
VLDR	HNE	1.88
LEHL	HNE	1.33
PANC	HNE	1.29

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

Maximum observed acceleration: BIR_HNE 2.65

Thu Dec 15, 2022 23:47:13 GMT ML 4.1 N45.73 E26.67 Depth: 87.7km ID:15234713



Observed stations velocities – Antelope platform (cm/sec)

Maximum observed velocity: PANC_HHN 0.60

Thu Dec 15, 2022 23:47:13 GMT ML 4.1 N45.73 E26.67 Depth: 87.7km ID:15234713

