



National Institute for Earth Physics - Magurele

## Seismic report - manual

Event local time: Wed Mar 15,2023 19:33:28

Romania - Event 15173328 - Oltenia seismic zone

Wed Mar 15, 2023 17:33:28 GMT ML 3.3 N45.15 E23.15 Depth: 16.1km ID:15173328

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 crustal earthquakes

Date	Time	Lon	Lat	Depth	Mw
24-Apr-2020	22:04:18	27.47	45.89	22.6	4.6
22-Nov-2014	19:14:17	27.15	45.87	40.9	5.4
03-Oct-2004	09:02:04	28.92	45.21	3.7	4.7
02-Dec-1991	08:49:41	21.12	45.45	9.0	5.5
18-Jul-1991	11:56:31	22.35	44.90	12.0	5.6
12-Jul-1991	10:42:21	21.05	45.38	11.0	5.6
01-Apr-1988	07:15:44	27.70	47.90	17.0	4.2
19-Jul-1987	02:18:56	27.79	45.55	15.0	4.4
13-Nov-1981	09:07:08	29.00	45.17	15.0	5.1
11-Sep-1980	23:24:25	28.03	45.32	20.4	4.2

Source: ROMPLUS Catalogue

## Romania – Event 15173328 – Oltenia seismic zone

Attenuation laws – GMPE::BJF97 IPE::TA09\_mmi

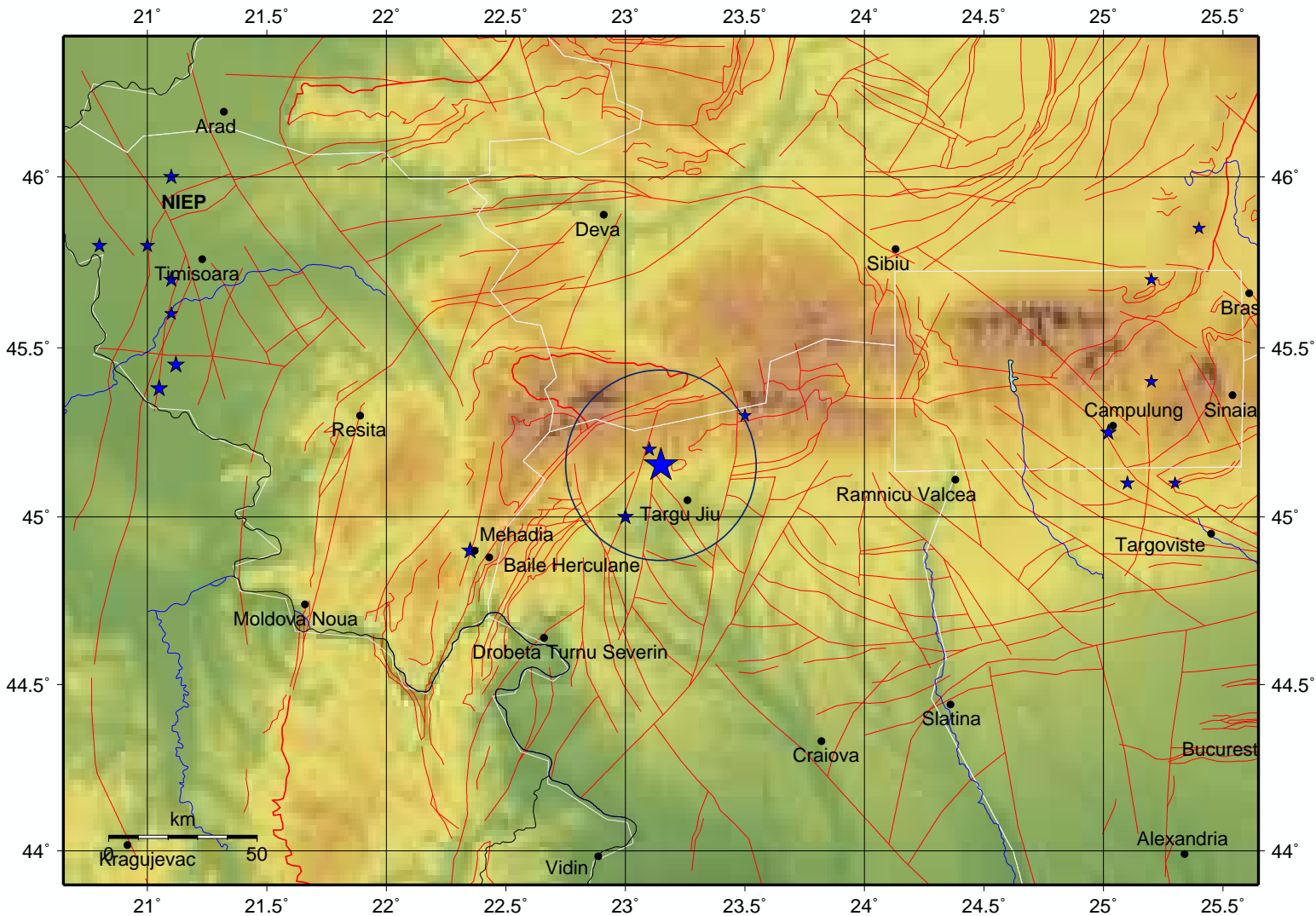
Max. grid values – pga: 33.35(cm/sec\*\*) pgv: 0.05(cm/sec) mi: 4.5

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Local time

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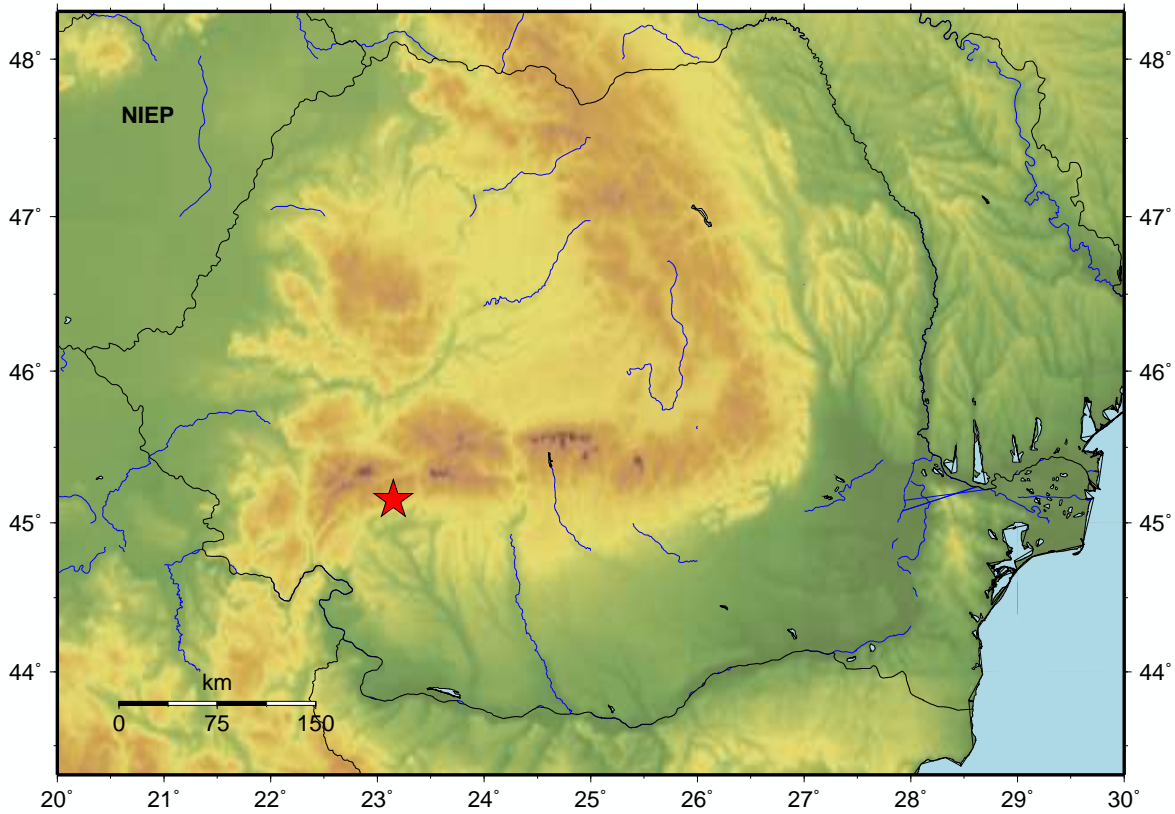
Fault lines



### Estimated intensities based on IPE::TA09\_mmi attenuation law

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City Distance(km)



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+

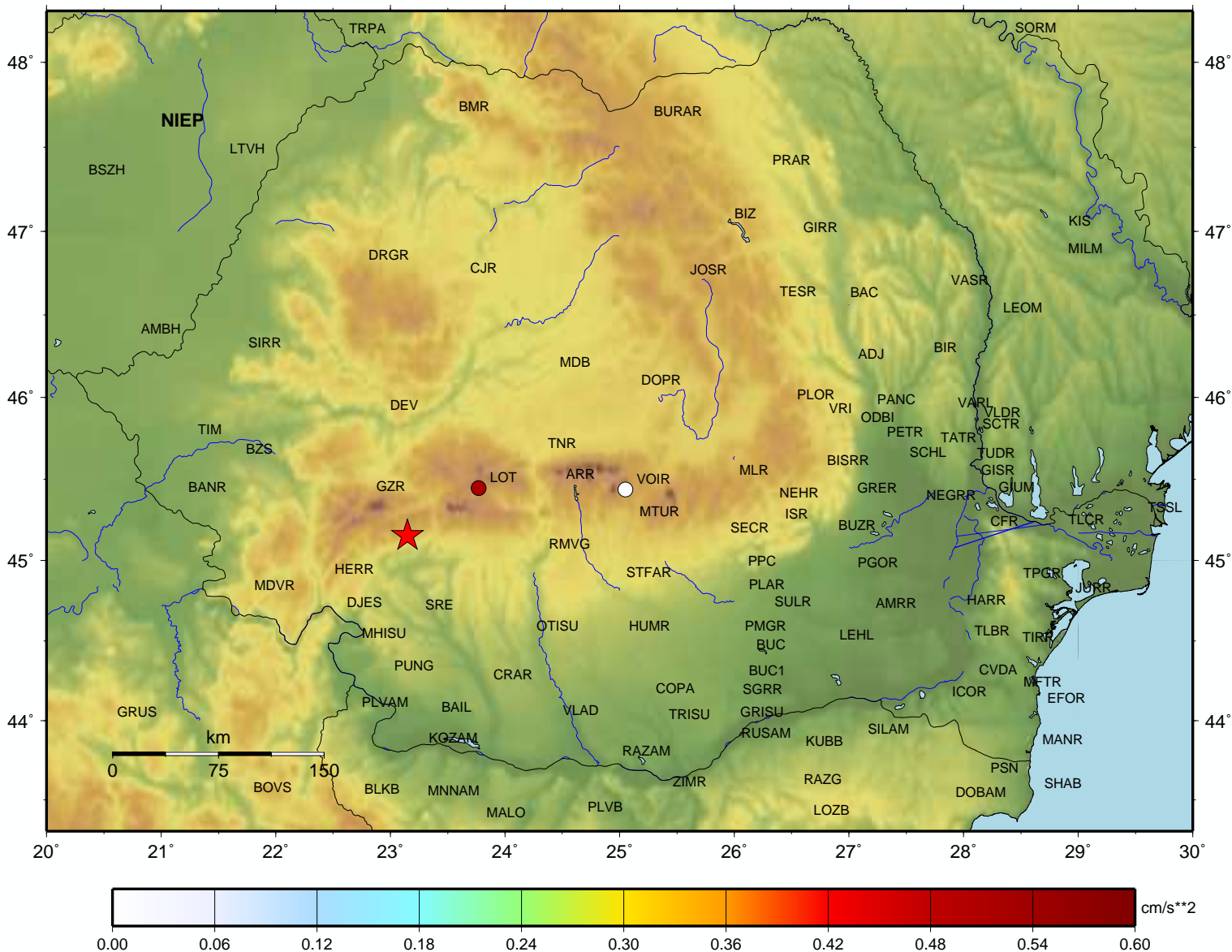
# The largest accelerations recorded automatically by the seismic stations of "Instalatie de Interes National- Retea Seismica Nationala (IOSIN-RSN)"

Max. pga (cm/sec\*\*2)  
 LOT HNN 0.52  
 VOIR HNE 0.01

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

Maximum observed acceleration: LOT\_HNN -0.52

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

Max. pgv (cm/sec)

TCAR	EHN	0.247	RMGR	HHE	0.006
DBRR	HHN	0.096	SURR	HHE	0.005
LELR	HHE	0.065	CRAR	HHE	0.003
PTSR	HHE	0.054			
INXR	EHE	0.032			
BVPR	EHE	0.029			
SRE	HHE	0.028			
LOT	HHE	0.009			
DEV	HHN	0.008			
HERR	HHN	0.007			

**Observed stations velocities – Antelope platform (cm/sec)**

Maximum observed velocity: TCAR\_EHN 0.25

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