



National Institute for Earth Physics - Magurele

## Seismic report - manual

Event local time: Tue Mar 14,2023 20:34:31

Romania - Event 14183431 - Oltenia seismic zone

Tue Mar 14, 2023 18:34:31 GMT ML 3.0 N45.16 E23.10 Depth: 15.0km ID:14183431

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 14183431 – Oltenia seismic zone

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

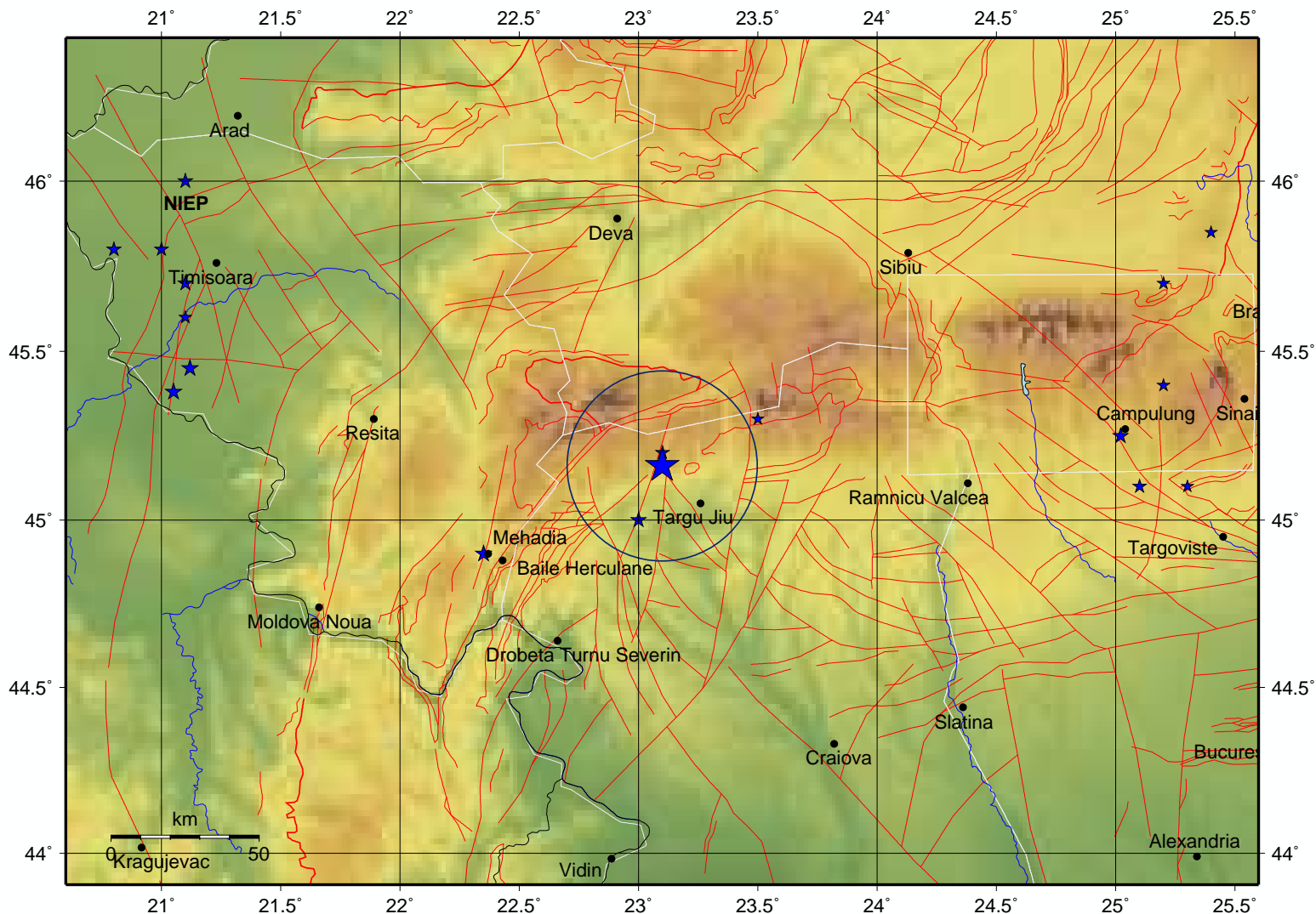
Max. grid values – pga: 30.51(cm/sec\*\*) pgv: 0.04(cm/sec) mi: 4.5

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Local time

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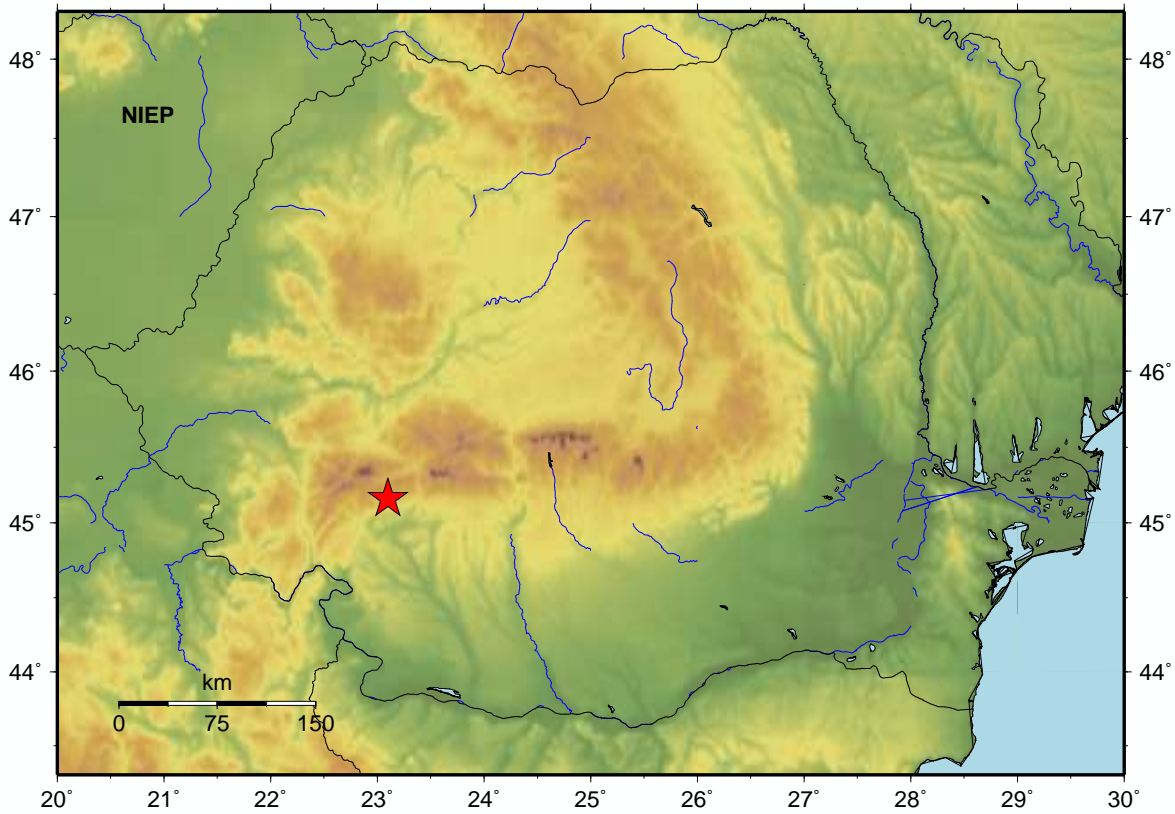
Fault lines ———



### 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+

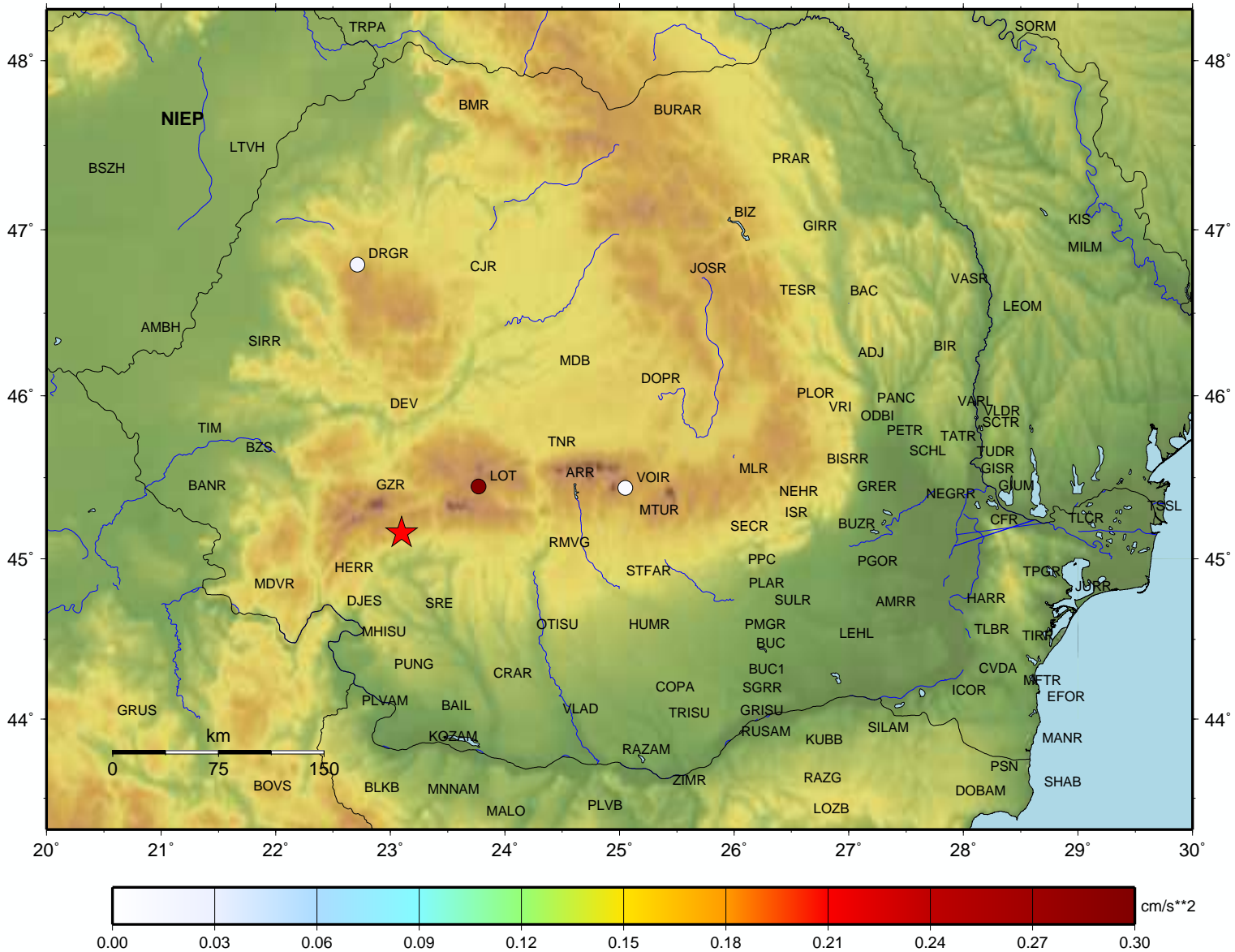
# The largest accelerations recorded automatically by the seismic stations of "Instalatie de Interes National- Retea Seismica Nationala (IOSIN-RSN)"

Max. pga (cm/sec\*\*2)  
 LOT HNE 0.29  
 DRGR HNE 0.02

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

Maximum observed acceleration: LOT\_HNE -0.29

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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)

LELR	HHE	0.118	RMGR	HHE	0.005
TCAR	EHN	0.082	DEV	HHN	0.004
DBRR	HHN	0.035	SURR	HHN	0.003
PTSR	HHN	0.034			
BVPR	EHN	0.031			
INXR	EHE	0.024			
GZR	HHE	0.019			
SRE	HHE	0.010			
LOT	HHE	0.006			
HERR	HHN	0.006			

Observed stations velocities – Antelope platform (cm/sec)

Maximum observed velocity: LELR\_HHE 0.12

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