



National Institute for Earth Physics - Magurele

## Seismic report - manual

Event local time: Thu Apr 01,2021 00:00:45

Romania - Event 31210045 - Vrancea seismic zone

Wed Mar 31, 2021 21:00:45 GMT ML 3.0 N45.78 E26.65 Depth: 76.6km ID:31210045

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 31210045 – Vrancea seismic zone

Attenuation laws – GMPE::VS10 IPE::VS04\_msk

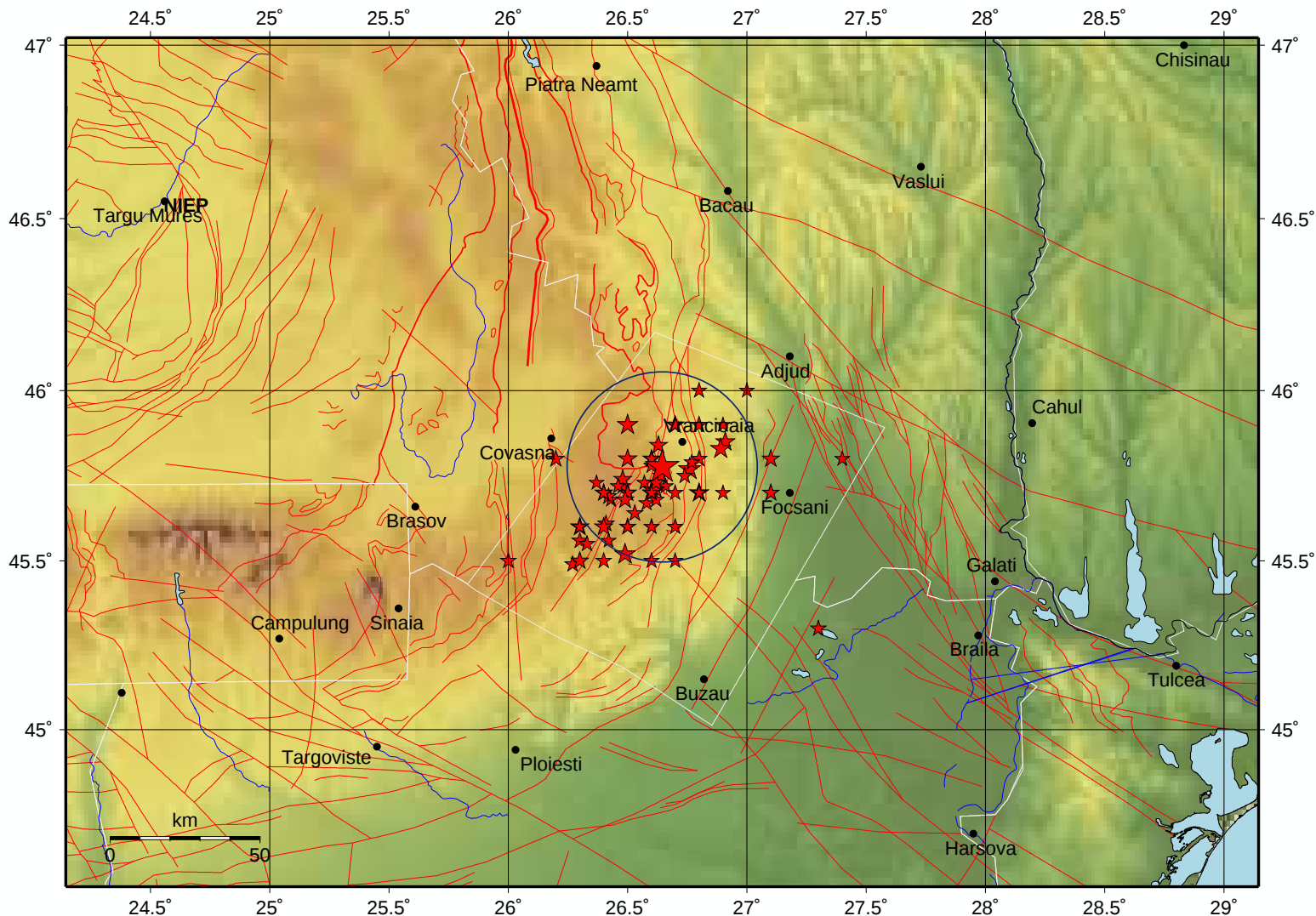
Max. grid values – pga: 0.69(cm/sec\*\*) pgv: 0.00(cm/sec) mi: 1.7

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Local time

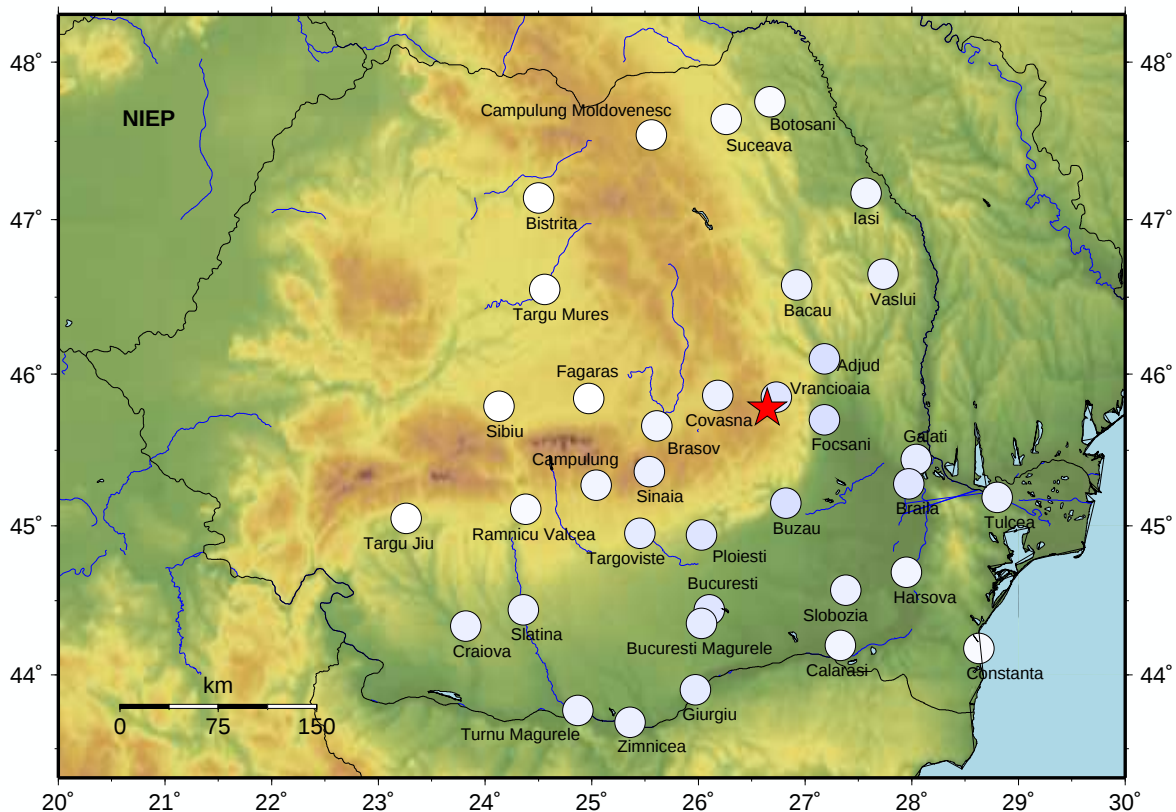
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Fault lines



## Estimated intensities based on IPE::VS04\_msk attenuation law

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| City               | Distance(km) |
|--------------------|--------------|
| Vrancea            | 10           |
| Covasna            | 37           |
| Focsani            | 42           |
| Adjud              | 54           |
| Buzau              | 70           |
| Brasov             | 81           |
| Bacau              | 91           |
| Sinaia             | 97           |
| Ploiesti           | 104          |
| Galati             | 115          |
| Braila             | 117          |
| Vaslui             | 128          |
| Fagaras            | 130          |
| Targoviste         | 131          |
| Campulung          | 137          |
| Slobozia           | 145          |
| Bucuresti          | 154          |
| Harsova            | 158          |
| Bucuresti Magurele | 166          |
| Iasi               | 170          |
| Tulcea             | 180          |
| Targu Mures        | 182          |
| Calarasi           | 183          |
| Ramnicu Valcea     | 192          |
| Sibiu              | 195          |
| Suceava            | 209          |
| Campulung M.       | 212          |
| Giurgiu            | 215          |
| Botosani           | 219          |
| Bistrita           | 223          |
| Slatina            | 233          |
| Constanta          | 236          |
| Zimnicea           | 254          |
| Turnu Magurele     | 264          |
| Craiova            | 274          |
| 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+         |

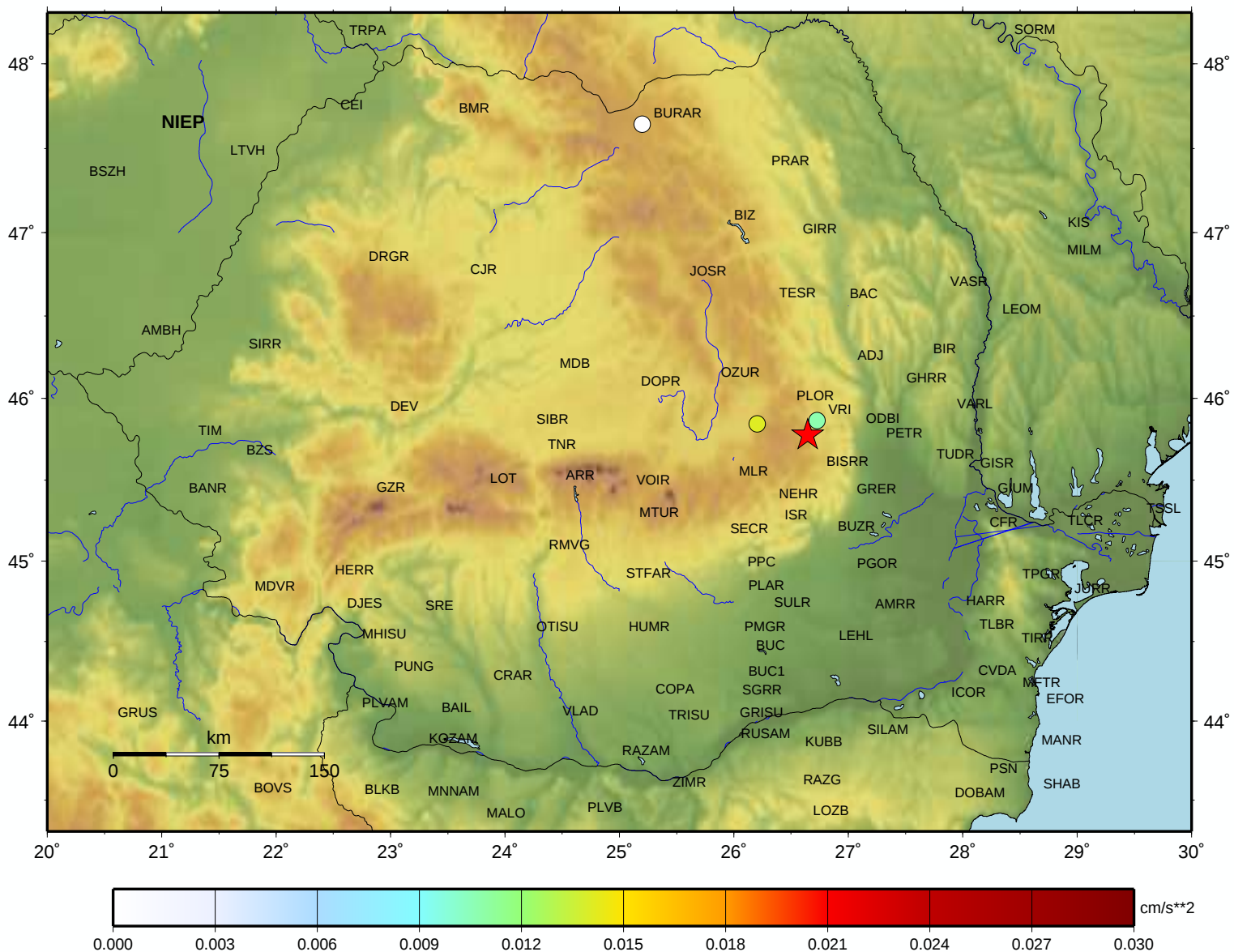
The largest accelerations recorded automatically by the seismic stations of "Instalatie de Interes National - Retea Seismica Nationala (IOSIN-RSN)"

|       |                |      |
|-------|----------------|------|
| Max.  | pga(cm/sec**2) |      |
| COVR  | HNN            | 0.01 |
| VRI   | HNE            | 0.01 |
| BURAR | BHE            | 0.00 |

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

Maximum observed acceleration: COVR\_HNN 0.01

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

Maximum observed velocity: RMVG\_EHE 0.00

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