

## Analysis and Forecasting of Romania Seismicity (AFROS) Project: Meeting presentations and scientific papers

### Presentations at scientific meetings (Prezentări la mitinguri științifice):

#### 2021

Dinescu, R., Ivan, M., Munteanu, I., Radulian, M. (2021). Seismic discrimination of anthropic and tectonic events in the Targu-Jiu quarry area (Romania), ESC 2021, online, prezentare poster **Cu multumiri AFROS**

Dinescu R., Ghica D., Popa M., Munteanu I., Radulian M. (2021). Discrimination between tectonic and anthropic events in Targu-Jiu quarry region (Romania), 11th Congress of the Balkan Geophysical Society, 2021 (oral presentation). **Cu multumiri AFROS**

Enescu, B. and Takeda, Y. (2021). Systematic Investigation of Dynamic Earthquake Triggering in Japan, *EGU General Assembly 2021*, 19–30 Apr 2021, EGU21-2548, <https://doi.org/10.5194/egusphere-egu21-2548> (online meeting).

Enescu, B., Takeda, T., and Miyazawa, M. (2021). Dynamic Triggering of Earthquakes in Volcanic and Geothermal Areas Before and After the 2011 M9.0 Tohoku-oki Earthquake, December 2021, *AGU Meeting*, S41A-02 (oral presentation).

Enescu, B., Moldovan, I-A., Ionescu, C., and the AFROS Team (2021). Analysis and Forecasting of Romanian Seismicity (AFROS) Project: Aim and Preliminary Results, *AGU Meeting*, NH25A-0542 (poster presentation). **Cu multumiri AFROS**

Mihai. A., Moldovan, I-A., Toader V. E., Radulian. M. (2021). The geomagnetic field variations recorded in Vrancea zone during 2000-2008 and the seismic energy release, *Bucharest University, Faculty of Physics 2021 Meeting, Atmosphere and Earth Science*, (online meeting).

Mihai, A. Roban, R.D., Toader, V.E., Lingvay, I., Ciogesc, O. (2021). Downhole lithological profile of Ramnicu Valcea seismic site based on drill cuttings, *XXI International Multidisciplinary Scientific GeoConference SGEM 2021* (oral presentation).

Opris, A., Kundu, S., Hatano, T. (2021). Imaging the spatio-temporal variations in deep tremor activity using cluster analysis techniques, *EGU General Assembly 2021*, NH4.4, (online meeting).

Placinta, A.O., Borleanu, F., Popescu, E., Radulian, M. (2021). Source parameters, clustering and scaling properties for the Vrancea (Romania) subcrustal earthquakes recorded between 2016 and 2018, *XXI<sup>th</sup> International Multidisciplinary Scientific GeoConference Surveying, Geology and Mining, Ecology and Management – SGEM 2021* (poster presentation). **Cu multumiri AFROS**

Ghita C., Raicu R., Constantinescu E. G., Moldovan I. A. , (2021). Estimating the magnitude of completeness and spatial variation of seismic *b* value for Vrancea area (Romania), crustal earthquakes for the last three decades, *XXI<sup>th</sup> International Multidisciplinary Scientific GeoConference Surveying, Geology and Mining, Ecology and Management – SGEM 2021* (poster presentation) **Cu multumiri AFROS**

## **2022**

Armeanu I., Borleanu F., Radulian M., (2022). Quarry blasts identification in Maramures and Bucovina (Romania) areas using statistical and cross-correlation techniques, *The 3rd European Conference on Earthquake Seismology and Engineering, Bucharest, Romania, September 4-9, 2022*. **Cu multumiri AFROS**

Borleanu F., Petrescu L., Seghedi I., Thomas C., De Siena L., (2022). Crustal structure of the East European Craton beneath the Carpathian Orogen revealed by attenuation tomography, *The 3rd European Conference on Earthquake Seismology and Engineering, Bucharest, Romania, September 4-9, 2022*. **Cu multumiri AFROS**

Constantin A. P., Manea L., Moldovan I. A., Ionescu C., (2022). Analysis of recent macroseismic data collected through online and classic questionnaires: uncertainties, discrepancies and limitations, *The 3rd European Conference on Earthquake Seismology and Engineering, Bucharest, Romania, September 4-9, 2022*, 4992 - 4998. **Cu multumiri AFROS**

Enescu B., Moldovan I., Radulian M., Ghita C., Borleanu F., Placinta A.O., and Poiata N., (2022). Seismicity analysis for Vrancea region (Romania) using a z-value statistical approach, *The 3rd European Conference on Earthquake Seismology and Engineering, Bucharest, Romania, September 4-9, 2022*. **Cu multumiri AFROS**

Ghita C., Diaconescu M., Constantinescu E.G., Moldovan I.A., (2022). Analysis of seismicity in north eastern part of Romania for the last three decades, *The 3rd European Conference on Earthquake Seismology and Engineering, Bucharest, Romania, September 4-9, 2022*. **Cu multumiri AFROS**

Opris A., Ariyoshi K., Hatano T., and Hori T., (2022). Imaging the changes in the clustering properties of deep low-frequency earthquakes caused by the occurrence of the 2010 long-term slow slip event in Western Shikoku, Japan, *The 3rd European Conference on Earthquake Seismology and Engineering, Bucharest, Romania, September 4-9, 2022.* **Cu multumiri AFROS**

Szakacs A., Kovacs I.J., and Radulian M., (2022). Precursor-based earthquake prediction: wishful thinking or real possibility?, *The 3rd European Conference on Earthquake Seismology and Engineering, Bucharest, Romania, September 4-9, 2022.* **Cu multumiri AFROS**

Toader V.E., Moldovan I.A., and Mihai A., (2022). Analysis of the relationship between geochemical data and seismicity parameters for the development of a procedure for OEF, *The 3rd European Conference on Earthquake Seismology and Engineering, Bucharest, Romania, September 4-9, 2022.* **Cu multumiri AFROS**

Borleanu F., Petrescu L., Seghedi I., Thomas C. , DeSiena L., (2022). Seismic attenuation tomography in the Carpathian-Pannonian region from ambient seismic noise analysis, EGU 2022, Viena, Austria/23–27 May 2022 (oral presentation). **Cu multumiri AFROS**

Coman A., Borleanu F., Petrescu L., Placinta A., Enescu B., Poiata N., Radulian M., (2022). High-resolution Analysis of the Intermediate-depth Seismicity Patterns in the Vrancea region (Romania): towards a better Assessment of Earthquake Risk, *The 16th Workshop of International Lithosphere Program Task Force Sedimentary Basins & 7<sup>th</sup> Geoscience*, 6-8 October 2022, București, România. **Cu multumiri AFROS**

Constantin A. P., Moldovan I. A., Diaconescu M. (2022). Macroseismic studies in Romania, *The 20th International Balkan Workshop on Applied Physics and Materials Science - IBWAPP*, 12-15 Iulie, Constanta, România (poster presentation) **Cu multumiri AFROS**

Placinta A.O., Borleanu F., Popescu E., Radulian M, Munteanu I. (2022). Earthquake source properties of a lower crust sequence generated in the Marasesti area (Romania), *The 20th International Balkan Workshop on Applied Physics and Materials Science - IBWAP*, 12-15 Iulie, Constanta, România, **Cu multumiri AFROS**

Constantin A. P., Diaconescu M., Manea L. (2022). Macroseisology in Romania: past and present practice, *The 16th Workshop of International Lithosphere Program Task Force Sedimentary Basins & 7<sup>th</sup> Geoscience*, 6-8 octombrie 2022, București, România (poster presentation) **Cu multumiri AFROS**

Toader V.E., Ionescu C., Moldovan I.A., Marmureanu A., Lingvay I., Ciogescu O., (2022). Extension of the radon monitoring network in seismic areas in Romania, *EGU General Assembly 2022*, EGU22-2152, doi:10.5194/egusphere-egu22-2152. **Cu multumiri AFROS.**

Mihai. A, Toader V.E, Moldovan I.A., Relationship among seismic energy release and the anomalous geomagnetic field variations recorded at Muntele Rosu (Vrancea zone). *Geoscience*, 6-8 octombrie 2022, București, România (prezentare orală) **Cu multumiri AFROS**.

Varzaru L., Borleanu F., (2022). Identifying anthropogenic seismic events generated in western Romania using statistical approaches and novel waveform processing techniques/ *EGU 2022*, Viena, Austria/23–27 May 2022 (online presentation). **Cu multumiri AFROS.**

## 2023

Tiampo, K.F., Klein, W., and Enescu, B. (2023). Earthquake Forecasting – Applications and Limitations, *American Geophysical Union (AGU), Fall Meeting, San Francisco, US*, December 14, 2023. **Cu multumiri AFROS.**

Moldovan, I.-A., Toader, V., Mihai, A., Borleanu, F., Petrescu, L., Placinta, A. O., and Manea, L. (2023). Detection of correlated anomalous seismic and geomagnetic precursor signals before Vrancea moderate size earthquakes, *EGU General Assembly 2023, Vienna, Austria*, 24–28 Apr 2023, EGU23-17053, doi: 10.5194/egusphere-egu23-17053. Prezentare poster virtual, **Cu multumiri AFROS.**

Moldovan, I.-A., Soviany, S., Carnini, M., Apostol, A., Enescu, B., Ghita, C., Ionescu, C., Gheablau, C., Palangeanu, L. (2023). Seismicity patterns from global to regional and local scale - geotectonic reality or just pure mathematical modeling, Session S14 - New Advances in Understanding The Earth's Crust Dynamics in the Light of Solving the Problem of Earthquake Forecasting, *The 28th IUGG General Assembly (IUGG23), Berlin, Germany*, 11-20 iulie 2023, Poster, S14p-158, **Cu multumiri AFROS.**

Moldovan, I.-A., Toader, V., Mihai, A., Borleanu, F., Placinta, A., Constantin, A., Manea, L., Gheablau, C. (2023). Searching for anomalous seismic and geomagnetic patterns before moderate earthquakes occurred in Vrancea Romania, Session JA07 - Interdisciplinary Observations of Pre-Earthquake Processes. The Concept of Lithosphere-Atmosphere-Ionosphere Coupling, *The 28th IUGG General Assembly (IUGG23), Berlin, Germany*, 11-20 iulie 2023, Poster, JA07p-238, **Cu multumiri AFROS.**

Constantin, A.-P., Diaconescu, M., Manea, L., Moldovan, I.-A., Partheniu, R., Constantinescu, E., Ionescu, C. (2023). Macroseismic intensity investigation of the main

events of the seismic sequence from Northern part of the Getic Depression (Romania), Session S09 - Earthquake ground motion and seismic hazard, *The 28th IUGG General Assembly (IUGG23)*, Berlin, Germany, 11-20 Iulie 2023, Poster, S09P-343. **Cu multumiri AFROS.**

Toader, V.-E., Ionescu, C., Moldovan, I.-A., Marmureanu, A., Mihai, A. (2023). The effects of the devastating earthquakes in Turkey on seismicity in Romania, *The 28th IUGG General Assembly (IUGG23)*, Berlin, Germany, 11-20 iulie 2023, Poster S12p-088, doi: 10.57757/IUGG23-3282. **Cu multumiri AFROS.**

Petrescu, L., B. Enescu, F. Borleanu, N. Poiata, M. Radulian (2023). Investigating dynamic triggering in Vrancea (Romania) from the Feb 6th Turkey-Syria earthquake, *The 28th IUGG General Assembly (IUGG23)*, Berlin, Germany, 11-20 iulie 2023, Poster, S12p-085. **Cu multumiri AFROS.**

Armeanu I.Ş., Poiata N., Radulian M., Borleanu F., Popa M., Enescu B., Automatic recalculation of the local magnitudes (ML) for seismic events in Romania: validation through multiple case-study analyses, *The 28th IUGG General Assembly (IUGG23)*, Berlin, Germany, 11-20 iulie 2023, Poster, S04p-309. **Cu multumiri AFROS.**

Ghita, C., Enescu, B., Oros, E., Craiu, A., Craiu, M., Moldovan, I.-A., Palangeanu, L., Placinta, A.O. (2023). Multiparameter statistical study of the crustal seismic sequence started on February 13 th , 2023 in Targu Jiu area (Romania), SessionS14 - New Advances in Understanding The Earth's Crust Dynamics in the Light of Solving the Problem of Earthquake Forecasting, *The 28th IUGG General Assembly (IUGG23)*, Berlin, Germany, 11-20 Iulie 2023, Poster, S14p-157. **Cu multumiri AFROS.**

Dinescu R., Borleanu F., Poiata N., Popa M., Radulian M., Chircea A., Munteanu I., Ghica D. (2023). 1- D velocity model for the South Western part of Romania. Study case Targu-Jiu area, *The 28th IUGG General Assembly (IUGG23)*, Berlin, Germany, 11-20 Iulie 2023, Poster, JS06p-328. **Cu multumiri AFROS.**

Dinescu, R., Popa, M., Radulian, M., Vanciu-Rau A., Chircea A., Ghica D., Paulescu D. (2023). Historical analog earthquake data in Romania, *The 28th IUGG General Assembly (IUGG23)*, Berlin, Germany, 11-20 Iulie 2023, Poster, JA03p-250. **Cu multumiri AFROS.**

Radulian M., Popa M., Dinescu R., Bălă A. (2023). Improvements and unexpected results in the event locations of the twin crustal earthquakes from February 2023 located in Gorj county, Romania, *SGEM 2023, Albena*, 2-6 iulie 2023, Poster.

Constantin A.P., M. Diaconescu, (2023). Macroseismic study of major trans-border historical earthquake-effects on Romania, 8<sup>th</sup> International *Colloquium on Historical Earthquakes, Palaeo- Macroseismology and Seismotectonics*, 17-20 September 2023, Lixouri, Greece, **Cu multumiri AFROS.**

Moldovan, I.-A., Oros E., Vanciu-Rau, A., Constantin, A.P., Diaconescu, M., Manea, M.L., Lungu, M. (2023). Macro seismic Effects of the Seismic Sequence Starting on 22nd of May 2023 in the Western Part of Romania, *8<sup>th</sup> International Colloquium on Historical Earthquakes, Palaeo- Macroseismology and Seismotectonics*, 17-20 September 2023, Lixouri, Greece. **Cu multumiri AFROS.**

Radulian M., Popa M. (2023). Secvențele seismice produse în anul 2023 în România și implicațiile asupra hazardului seismic regional, *Conferinta Nationala Stiitifica de Toamna a AOSR "Stiinta pentru o societate sanatoasa"*, 21-23 septembrie 2023. **Cu multumiri AFROS**

Moldovan, I.-A., Toader, V.E., Ionescu, C., Manea, L., Palangeanu, L., Enescu, B. (2023). Seismic and geophysical platforms of the National Institute for Earth Physics (Romania), *8<sup>th</sup> edition of the Geoscience International Symposium*, Hybrid, 9-11 November 2023, Bucharest, Prezentare orală - virtual. **Cu multumiri AFROS.**

Enescu, B., Ghita, C., Moldovan, I.-A., Radulian, M. (2023). Statistical characteristics and seismic quiescence testing for Vrancea (Romania) intermediate-depth seismicity, *8<sup>th</sup> edition of the Geoscience International Symposium, Hybrid*, 9-11 November 2023, Bucharest, Prezentare orală - virtual. **Cu multumiri AFROS.**

Gheablau, C., Diaconescu, M., Toader, V.-E., Moldovan, I.-A., Kovács, I.J. (2023). A review of a possible correlation between gas emanations and the seismic activity in the area of Covasna, Romania, *8<sup>th</sup> edition of the Geoscience International Symposium*, 9-11 November 2023, Bucharest, Poster. **Cu multumiri AFROS.**

Radulian M., Bala A., Poiata N., Tataru D., Popa M., Dinescu, R. (2023). Recent crustal seismic activity in Southern Carpathians and Banat seismic zone, Romania. Faulting characteristics and implications on seismic hazard, *The 5<sup>th</sup> Euro-Mediterranean Conference for Environmental Integration (EMCEI-2023)*, 2 – 5 Oct. 2023, Rende, Italia, Prezentare orală - virtual.

Dinescu R., Mayeda K., Barno J., Radulian M., Borleanu F., Popa M. (2023). Preliminary study on coda calibration tool applied to crustal events recorded in Gorj area, Romania, *8<sup>th</sup> edition of the Geoscience International Symposium*, 9 – 11 November 2023, Bucharest, Prezentare orală.

Dinescu, R., Borleanu, F., Radulian, M., Popa, M., Chircea, A., Marius, M., Rau, A., Poiata, N., Munteanu, I. (2023). The 2023 seismic sequence in the south Carpathians (Targu Jiu area, Romania): relocation using an improved 1-D velocity model and seismicity characteristics, *8<sup>th</sup> edition of the Geoscience International Symposium*, 9 – 11 November 2023, Bucharest, Prezentare orală.

Radulian, M., Bala, A., Poiata, N., Tataru, D., Popa M., Dinescu R. (2023). Recent data on crustal seismicity in the South Carpathians and Banat region, *8th edition of the Geoscience International Symposium*, 9 – 11 November 2023, Bucharest, Prezentare orală.

Borleanu, F., Petrescu, L., Magrini, F., and De Siena, L. (2023). Shear wave velocity and attenuation tomography acquired from seismic ambient noise data analysis in a complex collisional area at the edge of the East European Craton, *EGU General Assembly 2023*, Vienna, Austria, 23–28 Apr 2023, EGU23-15098, doi:10.5194/egusphere-egu23-15098.

*Papers published in research journals/proceedings (with peer-review):*

*(Lucrări publicate în jurnale științifice și proceedings-uri ale unor conferințe (cu peer-review)*

**2021**

Dinescu R., Ghica D., Popa M., Munteanu I., Radulian M. (2021). Discrimination between tectonic and anthropic events in Targu-Jiu quarry region (Romania), Proceedings Conference: 11th Congress of the Balkan Geophysical Society, doi: <https://doi.org/10.3997/2214-4609.202149BGS86> (BDI). **Cu multumiri AFROS**

Placinta, A.O., Borleanu, F., Popescu, E., Radulian, M., Munteanu, I. (2021). Earthquake source properties of a lower crust sequence and associated seismicity perturbation in the SE Carpathians, Romania, Collisional Setting. *Acoustics*, 3, 270–296 (Editor: C. W. Lim), <https://doi.org/10.3390/acoustics3020019> (ISI) **Cu multumiri AFROS**

Placinta, A.O., Borleanu, F., Popescu, E., Radulian, M. (2022), Source parameters, clustering and scaling properties for the Vrancea (Romania) subcrustal earthquakes recorded between 2016 and 2018, *XXI<sup>th</sup> International Multidisciplinary Scientific GeoConference Surveying, Geology and Mining, Ecology and Management – SGEM 2021, Vol.. 21.* (BDI). **Cu multumiri AFROS**

Ghita C., Raicu R., Constantinescu E. G., Moldovan I. A., (2021). Estimating the magnitude of completeness and spatial variation of seismic *b* value for Vrancea area (Romania), crustal earthquakes for the last three decades, *XXI<sup>th</sup> International Multidisciplinary Scientific GeoConference Surveying, Geology and Mining, Ecology and Management – SGEM 2021, Vol. 21,* (BDI). **Cu multumiri AFROS**

Shimojo, K., Enescu, B., Yagi, Y. and Takeda, T. (2021). Nucleation process of the 2011 northern Nagano earthquake from nearby seismic observations. *Scientific Reports*, **11**, 8143, <https://doi.org/10.1038/s41598-021-86837-4>. (ISI) Cu multumiri AFROS

Toader, V-E; Mihai A.; Moldovan, I-A; Ionescu, C.; Marmureanu, A.; Lingvay, I.; (2021). Implementation of a Radon Monitoring Network in a Seismic Area. *Atmosphere*, **12**(8) 1041, Academic Editor: Cucos (Dinu) Alexandra, doi: 10.3390/atmos12081041 (ISI). Cu multumiri AFROS

Zheng, Y., Enescu, B., Zhuang, J.C., and Yu, C. (2021). Data replenishment of five moderate earthquake sequences in Japan, with semi-automatic cluster selection, *Earthquake Science*, **34**, doi:[10.29382/eqs-2021-0030](https://doi.org/10.29382/eqs-2021-0030) (ISI) Cu multumiri AFROS

## 2022

Placinta A.O., Borleanu F, Moldovan I.A., Coman, A., (2022). Correlation between changes in seismic propagation velocities and the occurrence of moderate earthquakes from Vrancea (Romania), *Acoustics*, **4**(4), 934-947, doi: <https://doi.org/10.3390/acoustics4040057>. (ISI) Cu multumiri AFROS

Ghita, C., Tuta, L., Moldovan, I.-A., Ionescu, C. and Nicolaescu, M., (2022). FastICA algorithm applied on Black Sea water level ultrasound measurements. *Atmosphere*, **13**, 1973, doi:<https://doi.org/10.3390/atmos13121973>. (ISI) Cu multumiri AFROS

Oros, E., Placinta, A.O., Moldovan, I.A., Popa, M. (2022). The Parametric Earthquake Catalogue for the Intra-Carpathians Region (Romania) for the period 1223 to 1990, Mendeley Data, V2, doi: <https://doi.org/10.17632/p8rgkfhjzb.2> (baza de date).

## 2023

Moldovan I.A., Popescu E., Radulian, Enescu B, Placinta A.O., Ghita C., Constantin A.P. (2023). Fractal properties of the spatial distribution of crustal and subcrustal Vrancea earthquakes, *Romanian Journal of Physics*, **68**, 802. (ISI) Cu multumiri AFROS

Armeanu, I., Borleanu, F., Varzaru, L., Ghica D., Popa M. (2023). A reanalysis of the seismic activity at the western edge of the Eastern European Platform, *Romanian Journal of Physics*, **75**, 703. (ISI) Cu multumiri AFROS

Mihai, A., Toader, V.E., Moldovan, I.A. and Radulian, M., (2023). Exploring the Relationship between Geomagnetic Variations and Seismic Energy Release in Proximity to the Vrancea Seismic Zone, *Atmosphere*, **14**(6), p.1005. (ISI) Cu multumiri AFROS



Yagi, Y., Okuwaki, R., Enescu, B. *et al.* Irregular rupture process of the 2022 Taitung, Taiwan, earthquake sequence. *Sci Rep* 13, 1107 (2023). doi: <https://doi.org/10.1038/s41598-023-27384-y>. (ISI) **Cu multumiri AFROS**

Borleanu, F., Petrescu, L., Seghedi, I., Thomas, C., De Siena, L. (2023). The seismic attenuation signature of collisional orogens and sedimentary basins within the Carpathian Orogen, *Global and Planetary Change*, 223, 104093, doi: <https://doi.org/10.1016/j.gloplacha.2023.104093>. (ISI) **Cu multumiri AFROS**

Constantin A.P., Manea, M., Diaconescu, M., and Moldovan, I.A. (2023). Intensity and macroseismic maps of the latest moderate sized Vrancea earthquakes, *Romanian Reports in Physics*, 75, 702. (ISI) **Cu multumiri AFROS**

Toader, V.E., Ionescu, C., Moldovan, I.-A., Marmureanu, A., Brisan, N.-S., Lingvay, I., and Mihai, A. (2023). The Results and Developments of the Radon Monitoring Network in Seismic Areas. *Atmosphere*, 14(7), 1061, doi: <https://doi.org/10.3390/atmos14071061>. (ISI) **Cu multumiri AFROS**

Enescu, B., Ghita, C., Moldovan, I.-A., and Radulian, M. (2023). Revisiting Vrancea (Romania) Intermediate-Depth Seismicity: Some Statistical Characteristics and Seismic Quiescence Testing. *Geosciences*, 13(7), 219, doi: <https://doi.org/10.3390/geosciences13070219>. (ISI) **Cu multumiri AFROS**

Borleanu, F., Petrescu, L., Placinta, A.O., Magrini, F., Grecu, B., Radulian, M., and Siena, L. De (2023). Seismic attenuation tomography of Eastern Europe from ambient seismic noise analysis, *Geophysical Journal International*, ggad408, doi: <https://doi.org/10.1093/gji/ggad408>. (ISI) **Cu multumiri AFROS**

Ishiyama, R., Fukuyama, E., and Enescu, B. (2023). Estimation of time-variable friction parameters using machine learning, *Geophysical Journal International*, 2023, ggad422, doi: <https://doi.org/10.1093/gji/ggad422>. (ISI) **Cu multumiri AFROS**

Constantin A.P., M. Diaconescu, Macroscopic study of major trans-border historical earthquake-effects on Romania, *Bulletin of the Geological Society, Special Publication No. 11, 2023, Publisher: Geological Society of Greece*, 00024, ISBN: 978-618-86841-1-9, ISSN: 2945-1426. (BDI). **Cu multumiri AFROS**

Moldovan I.A., Oros E., Vanciu Rău A., Constantin A.P., Diaconescu M., Manea M.L., Lungu M., Macroscopic Effects of the Seismic Sequence Starting on 22nd of May 2023 in the Western Part of Romania, *Bulletin of the Geological Society, Special Publication No. 11, 2023, Publisher: Geological Society of Greece*, 00027, ISBN: 978-618-86841-1-9, ISSN: 2945-1426. (BDI). **Cu multumiri AFROS**

Dinescu R., Popa M., Ghica D., Chircea A., M. Radulian M., Grecu B., Neagoe C., Jianu O. (2023). Romanian earthquakes database. Part I: 984 – 1899, *Romanian Journal of Physics*, 68(7-8):805, doi:10.59277/RomJPhys.2023.68.805. **(ISI)**

Mihai M., Radulian M., Popa M., Grecu B., (2023). Improving location parameters for earthquakes in Romania using Joint Hypocenter Determination method (JHD), *Romanian Reports in Physics* 75, 708. **(ISI)**

Petrescu L., Plăcintă A. O., Borleanu F., Radulian M., Cioflan C. O., (2023). Past earthquake simulations using ambient seismic noise in Vrancea, Romania, *Seismological Research Letters*, 94 (5), <https://doi.org/10.1785/0220230072>. **(ISI)**

Radulian M., Popa M., Dinescu R., Bălă A., (2023). Location improvements for the twin crustal earthquakes recorded on February 2023 in Gorj county, Romania, *Proceedings 23rd SGEM International Multidisciplinary Scientific GeoConference 2023*, vol. 23 (1.1), DOI: 10.5593/sgem2023/1.1/s01.08. **(BDI)**.

### Papers submitted or in preparation (Lucrari trimise sau in preparare)

Petrescu, L., and Enescu, B. (2023). Seismicity of a relic slab: space-time cluster analysis in the Vrancea Seismic Zone, *Bulletin of the Seismological Society of America* (submitted). **(ISI)** **Cu multumiri AFROS**

Ghita, C., Enescu, B., Marinus, A., Moldovan I. A., Ionescu, C., and Constantinescu E.G, Aftershock forecast models for crustal seismicity in Romania: the cases of the 2014 Vrancea-Marasesti and 2023 Gorj earthquake sequences, *Seismological Research Letters* (submitted). **(ISI)** **Cu multumiri AFROS**

Takeda, Y., Enescu, B., Miyazawa, M and An., L., Dynamic triggering of earthquakes in northeast Japan before and after the 2011 M9.0 Tohoku-oki earthquake, *Bulletin of the Seismological Society of America* (submitted). **(ISI)** **Cu multumiri AFROS**

Yagi, Y., Okuwaki, R., Hirano, S., Enescu, B., Chikamori, M., and Yamaguchi, R., Barrier-induced rupture front disturbances during the 2023 Morocco earthquake, *Seismological Research Letters* (submitted). **(ISI)** **Cu multumiri AFROS**

An, L., Grigoli, F., Enescu, B., Buttinelli, M., Anselmi, M., Molinari, I., and Ito, Y., Offshore fault geometry revealed from earthquake locations using new state-of-art techniques: the case of the 2022 Adriatic Sea earthquake sequence, *Seismological Research Letters* (submitted). **(ISI)** **Cu multumiri AFROS**

Bantidi, T., Ishibe, T., Georges, T., and Enescu, B., Estimating spatio-temporal variable parameters of Epidemic Type Aftershock Sequence model in a region with limited seismic network coverage: a case study of the East African Rift System, *Geophysical Journal International* (submitted). (ISI) **Cu multumiri AFROS**

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