

GEOPHYSICAL SURVEY  
OF THE  
RUSSIAN ACADEMY OF SCIENCES

RUSSIAN JOURNAL  
OF SEISMOLOGY

Volume 5    2023    Issue 4

The Journal is included in the «List of peer-reviewed scientific publications in which the main scientific results of dissertations for the degree of Candidate of Science, for the degree of Doctor of Science» of the Higher Attestation Commission under the Ministry of Education and Science of Russia should be published.

The Journal is indexed in the RSCI, Google Scholar, Crossref, CyberLeninka, Dimensions, VINITI RAS, Research4life, Lens.org, RSL, Altmetric systems.

OBNINSK

2023

**RUSSIAN JOURNAL OF SEISMOLOGY**  
**Volume 5, Issue 4, 2023**

Founded in 2019.  
Journal published four times a year

**Editor-in-chief**

Corresponding Member of RAS A.A. Malovichko

**Editorial Board:**

Dr. K.E. Abdrakhmatov; Dr. G.N. Antonovskaya; Dr. A.G. Aronov; PhD D.V. Chebrov;  
PhD R.A. Dyagilev; Dr. A.F. Emanov; Corr. Memb. ANAS, Dr. G.D. Etirmishli; PhD I.P. Gabsatarova;  
Acad. ANAS, Dr. I.S. Guliyev; PhD A.V. Kendzera; Dr. G.G. Kocharyan; Dr. G.N. Kopylova;  
PhD K.Yu. Silkin; PhD K.G. Mackey; PhD D.A. Malovichko; Dr. V.I. Melnikova; Dr. N.N. Mikhailova;  
PhD A.N. Morozov; PhD G.M. Petrosyan; Dr. B.G. Pustovitenko;  
Dr. V.A. Saltykov; Dr. I.A. Sanina; Dr. V.S. Seleznev; Dr. G.M. Steblov; PhD D.A. Storchak;  
Dr. Yu.A. Vinogradov; Dr. A.D. Zavyalov

**Founder:**

Geophysical Survey of the Russian Academy of Sciences

**Address of the publisher:**

249035, Lenina av. 189, Obninsk, Kaluga region, Russia  
Tel +7 495 9126872, +7 484 3931405. E-mail: rjs@gsras.ru  
URL: [www.gsras.ru/rjs/eng/](http://www.gsras.ru/rjs/eng/)



## Contents

|   |           |
|---|-----------|
| Yu.A. Vinogradov, I.N. Sokolova, I.P. Gabsatarova<br><b>Chemical explosion of October 18, 2023 at the Nevada Test Site</b> .....  | <b>7</b>  |
| L.I. Ioganson, A.N. Ovsyuchenko, G.Yu. Dontzova<br><b>Seismic activations in Turkey in the 17th – early 21st centuries<br/>and Kahramanmarash earthquakes on February</b> .....             | <b>20</b> |
| Yu.F. Kopnichev, I.N. Sokolova<br><b>Characteristics of ring-shaped seismicity at depths up to 110 km<br/>prior to large and great earthquakes in subduction zones of the Pacific</b> ..... | <b>41</b> |
| A.V. Mikheeva, I.I. Kalinnikov<br><b>On the influence of the supposed global deep fault on the strong<br/>earthquakes in Indonesia</b> .....  | <b>52</b> |