

## Seismicity of the South Far East of Russia in 2021

Dmitry A. Safonov<sup>1</sup>, <https://orcid.org/0000-0002-2201-2016>, [d.safonov@imgg.ru](mailto:d.safonov@imgg.ru)

Elena P. Semenova<sup>2</sup>, <https://orcid.org/0000-0002-7435-961X>, [semenova@seismo.sakhalin.ru](mailto:semenova@seismo.sakhalin.ru)

<sup>1</sup> Institute of Marine Geology and Geophysics of the Far Eastern Branch of RAS, Yuzhno-Sakhalinsk, Russia

<sup>2</sup> Sakhalin Branch of the FRC “United Geophysical Survey of the Russian Academy of Sciences”, Yuzhno-Sakhalinsk, Russia

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**Abstract.** The paper presents an overview of the seismicity of the southern part of the Russian Far East for 2021: Amur–Primorye region, Sakhalin and Kuril-Okhotsk region. It is based on data from the catalog of the “Yuzhno-Sakhalinsk” Regional Information Processing Center of the Sakhalin Branch of the Federal Research Center «United Geophysical Survey of the Russian Academy of Sciences». Regression relationships between the energy characteristics of earthquakes in the catalog are given. The main parameters of seismicity are estimated: statistical estimation of seismicity level SESL'09; Benioff diagrams; density maps of conditional elastic deformation. The information about the most significant earthquakes in the responsibility zone of the SF FRC UGS RAS is given. According to formal indicators, the seismicity of these regions in 2021 was within the background values. The magnitude of the strongest earthquake recorded in the catalog of 2021, which occurred on September 20 within the Kuril-Kamchatka seismofocal zone at a depth of 41 km, was  $M_W = 6.1$ . The strongest crustal earthquake in the Sakhalin region with  $M_{wa} = 4.4$  occurred on April 18 near the settlement of Tymovskoe, where it was felt with an intensity of 5-6 points.

*Keywords:*

**earthquakes, seismicity, seismic activity, Amur region,**

**Primorye, Sakhalin, Kuril-Okhotsk region**

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