

ON THE COMPLETENESS OF THE CONSOLIDATED EARTHQUAKE CATALOGUE FOR TAJIKISTAN

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References

- Babaev A. M, Ischuk A. R., and Negmatullayev S. H. *Seismicheskie usloviya territorii Tajikistana* (Seismic conditions in territory of Tajikistan) Dushanbe, 2008 (in Russ).
- Begiev B. B. and Nechaev.V.A. *Inzhenerno-seismometricheskaya slujba goroda Dushanbe za 1967-1970 g.* (Engineering seismometric service for Dushanbe in 1967-1970), Dushanbe: Donish, 1971 (in Russ).
- Bune V.I., Gzovskii M.B., and Zapolskiy K.K. *Metody detalnogo izucheniya seismichnosti* (Methods of detailed study of seismicity), *Proc. IPE, AS USSR*, 1960, no 9(176), pp. 162-191 (in Russ).
- Gamburtsev A .G. and Gamburtseva N.G. *Grigoriy Aleksandrovich Gamburtsev (1903-1955)*. Moscow: Nauka, 2003 (in Russ).
- Gubin, I. V. *Zakonomernost seismicheskikh proyavleniy na territorii Tajikistan* (Regularities of seismicity on the territory of Tajikistan), Moscow: AN SSSR, 1960 (in Russ).
- Zemletryaseniya v SSSR v 1969* (Earthquakes in the USSR in 1969), Moscow: Nauka, 1972 (in Russ).
- Zemletryaseniya v SSSR v 1981* (Earthquakes in the USSR in 1981), Moscow: Nauka, 1984 (in Russ).
- Zemletryaseniya v SSSR v 1990* (Earthquakes in the USSR in 1990), Moscow: Nauka, 1990 (in Russ).
- Zemletryaseniya severnoy Evrazii v 1994* (Earthquakes of the Northern Eurasia in 1994), Obninsk: GS RAS, 2000 (in Russ).
- Zemletryaseniya severnoy Evrazii v 1995* (Earthquakes of the Northern Eurasia in 1995), Obninsk: GS RAS, 2001 (in Russ).
- Zemletryaseniya severnoy Evrazii v 1996* (Earthquakes of the Northern Eurasia in 1996), Obninsk: GS RAS, 2002 (in Russ).
- Zemletryaseniya severnoy Evrazii v 1997* (Earthquakes of the Northern Eurasia in 1997), Obninsk: GS RAS, 2003 (in Russ).
- Zemletryaseniya severnoy Evrazii v 1998* (Earthquakes of the Northern Eurasia in 1998), Obninsk: GS RAS, 2004 (in Russ).
- Zemletryaseniya severnoy Evrazii v 1999* (Earthquakes of the Northern Eurasia in 1999), Obninsk: GS RAS, 2005 (in Russ).
- Zemletryaseniya severnoy Evrazii v 2000* (Earthquakes of the Northern Eurasia in 2000), Obninsk: GS RAS, 2006 (in Russ).
- Zemletryaseniya severnoy Evrazii v 2001* (Earthquakes of the Northern Eurasia in 2001), Obninsk: GS RAS, 2007 (in Russ).

- Zemletryaseniya severnoy Evrazii v 2002* (Earthquakes of the Northern Eurasia in 2002), Obninsk: GS RAS, 2008 (in Russ).
- Zemletryaseniya severnoy Evrazii v 2003* (Earthquakes of the Northern Eurasia in 2003), Obninsk: GS RAS, 2009 (in Russ).
- Zemletryaseniya severnoy Evrazii v 2004* (Earthquakes of the Northern Eurasia in 2004), Obninsk: GS RAS, 2010 (in Russ).
- Zemletryaseniya severnoy Evrazii v 2005* (Earthquakes of the Northern Eurasia in 2005), Obninsk: GS RAS, 2011 (in Russ).
- Zemletryaseniya severnoy Evrazii v 2006* (Earthquakes of the Northern Eurasia in 2006), Obninsk: GS RAS, 2012 (in Russ).
- Zemletryaseniya severnoy Evrazii v 2007* (Earthquakes of the Northern Eurasia in 2007), Obninsk: GS RAS, 2013. (in Russ)
- Zemletryaseniya severnoy Evrazii v 2008* (Earthquakes of the Northern Eurasia in 2008), Obninsk: GS RAS, 2014 (in Russ).
- Kondorskaya N. V. The organization of seismological observations, *Problemi geofiziki Sredney Azii i Kazakhistana* (Problems of geophysics of Central Asia and Kazakhstan), Moscow, 1967. p. 13-19 (in Russ).
- Kondorskaya N.V. and Fyodorova I.V. *Seismicheskie stantsii edinoy seismicheskix nabludeniy SSSR na 01.01.1990* (Seismic stations of the unified seismic observations of the USSR on 01.01.1990), Moscow: IPE RAS, 1996 (in Russ).
- Lukk A.A. and Nersesov I.L. Deep Pamir-Hindu Kush earthquakes, *Zemletryaseniya v SSSR v 1966* (Earthquakes in USSR in 1966), Moscow: Science, 1970, pp.118-132 (in Russ).
- Lukk A. A. and Popandopoulos G.A., Reliability of Determining the Parameters of Gutenberg–Richter Distribution for Weak Earthquakes in Garm, Tajikistan, *Izv. Phys. Solid Earth*, 2012, vol. 48, no 9–10, pp.698–720.
- Molchan G.M. and Dmitrieva O.E., Identification of the aftershocks: a review and new approaches, *Comput. Seismol.*, 1991. vol. 24. pp.19-50.
- Molchan G.M. and Dmitrieva O.E. Aftershock identification: methods and new approaches, *Geophys. J. Int.*, 1992, vol. 109, pp.501–516.
- Niyazov J.B. *Istoriya razvitiya seismologii i seimostoykogo stroitelstva v Tajikistane v XX veke* (History of Seismology and Earthquake Engineering in Tajikistan in the XX Century), Abstract of the candidate dissertation, Dushanbe, 2005, <http://www.dissercat.com/content/istoriya-razvitiya-seismologii-i-seimostoikogo-stroitelstva-v-tadzhikistane-v-xx-veke#ixzz3aHmwPtv1>
- Pisarenko V.F. *O zakone povtoryaemosti zemletryaseny. Diskretnye svoystva geofizicheskoy sredi* (About earthquake recurrence law. Discrete geophysical properties of the medium), Moscow: Nauka, 1989 (in Russ).
- Rautian T.G. Energy of Earthquakes, *Metody detalnogo izucheniya seismichnosti* (Methods of detailed study of seismicity). Moscow: AN SSSR, 1960, pp.75-114 (in Russ).
- Riznichenko Y.V. *Problemy seismologii* (Problems of Seismology). Moscow: Nauka, 1985 (in Russ).
- Riznichenko Y. *Seismicheskaya aktivnost i energiya maksimalnyh zemletryaseny* (Seismic activity and energy of the maximum earthquake), Problems of geophysics of Central Asia and Kazakhstan. Moscow: Nauka, 1967 (in Russ).
- Sadowski M.A. and Pisarenko V.F. *Seismicheskie protsessy v blokovoy srede* (Seismic process in the block medium), Moscow: Nauka, 1991 (in Russ).
- Sadovskiy i razvitie geofizicheskikh issledovaniy v Tajikistane* (Sadovskiy and development of geophysical studies in Tajikistan), Dushanbe, 2004 (in Russ).

- Smirnov V.B. Experience of estimating the completeness of earthquake catalogues, *Vocanol. Seismol.*, 1997, no. 4, pp. 93-105.
- Smirnov V.B. Prognostic anomalies of seismic regime. Methods for preparation of original data, *Geophys. Research*, 2009, vol. 10, no. 2. pp.7-22.
- Smirnov V.B. and Gabsatarova I.P. Completeness of the North Caucasian Earthquakes Catalogue: Calculated data and statistical estimates, *Vestnik OGGGGN*, 2000. vol. 14, no 4, pp. 35-41 (in Russ).
- Shoziyoev Sh.P., Karimov F.H., Salomov N.G., Ulubieva T.R. Differences in the distribution of earthquake hypocenters southern Tien-Shan, the Tajik Depression, Pamir and Hindu Kush, *Tezisi dokladov V Mejdunarodnogo simpoziuma "Savremennie problem geodinamiki I geoekalogii vnutrikontinentalnich orogenov"* (Abstracts of V International Symposium "Modern Problems of Geodynamics and Geoecology inland Orogens"), Bishkek, 19-24 June 2011, vol. 1. pp. 120-124 (in Russ).