Scientific program of the International Conference on the 120th Anniversary of the Bulnay earthquake: Advances in Astronomy and Geophysics

Date & time	Activity	Location	
August 11, Mond	lay		
08:30 - 09:00	Registration	Lobby of conf room 1	
09:00 - 09:15	Opening remark	Conf room 1	
09:15 - 10:15	Plenary session	Conf room 1	
09:15 – 09:35	"Seismic network of Mongolia and Seismicity" by Dr. Munkhuu Ulziibat		
09:35 – 09:55	"Along-strike variations in fault geometry and slip distribution along the Bulnay Fault, Mongolia" by Dr. Jin-Hyuck Choi		
09:55 – 10:15	"Late Cenozoic stress-strain state of the earth's crust of the Mongolian Altai based on a set of data" by Dr. Sankov Vladimir		
10:15 – 10:45	Coffee break	Lobby of conf room 1	
10:45 – 12:45	Session 1: Observational seismology	Conf room – 1	
10110 12110	Chairs: Adiya Munkhsaikhan, PhD & Anna Dobrynina, PhD		
10:45 – 11:00	"Variations in seismicity parameters of the Baikal rift	zone during the	
	instrumental observation period" by D.P.D. Sanzhieva		
11:00 – 11:15	"The strong earthquake in Khatanbulag, Dornogovi province	" by G.Bolormaa	
11:15 – 11:30	"The Tonkhil strong earthquake" by M.Dolgormaa		
11:30 – 11:45	"Aftershocks of the 2021 Khankh earthquake: analysis of temporal variation of the Omori law p-value" by T.Muldir		
11:45 – 12:00	"Macroseismic intensity of earthquake in Ulan-Ude city in 1992-2021" by L.R.Ochirova		
12:00 – 12:15	"Investigate of seismic regime in Har-Us-Nuur fault zona" by S.Zagdsuren		
12:15 – 12:30	"Relocation tests with iLoc using GT criteria events in Mongolia" by L.Sarantsetseg		
10:45 – 12:30	Session 2: Astronomy	Conf room – 2	
10.40 12.00	Chairs: Mikhail Demidov, PhD & Namkhai Tungalag, PhD		
10:45 – 11:00	"Large-scale magnetic fields of the Sun according to observa		
	Astrophysical and Sayan solar observatories" by M.L.Demid		
11:00 – 11:15	"Potentially hazardous celestial objects and their calculations		
11:15 – 11:30	"REFOS solar miniature X-ray spectrometer: results and S.Kuzin	perspectives" by	
11:30 – 11:45	"Fractal dimension of solar flares" by D.Khongorzul		
11:45 – 12:00	"Observations of astrophysical transients at the Khurel-Togoot observator" by A. Pozanenko		
12:00 – 12:15	"ISON database on space debris objects: observations at the Khureltogoot Observatory" by R.Buyankhishig		
12:15 – 12:30	"Promoting Inclusive Astronomy and Space Science Education through Advanced Technologies: A Digital Transformation and Accessibility Assessment Based on the 11-Year Experience of the Astropark in Mongolia" by B.Gantuya		
12:30 – 13:30	Lunch	Lobby of conf room 1	
13:30 – 15:45	Session 3: Earth structure and Seismotectonics	Conf room – 1	
	Chairs: Vladimir Sankov, PhD & Tsagaan Baasanbat, Ph		
13:30 – 13:45	"Seismicity and Active Faults in Mongolia: Analysis of Micro-Seismicity and Aftershock sequence" by D.Ganzorig		
13:45 – 14:00	"The resent thrusts of the southern foot of the Khankhukhii mountain chain and the velocities of tectonic movements" by S.A.Sokolov		

14:00 – 14:15 Central Mongolia" by D.Mungunsuren 14:15 – 14:30 "Segmented structure of the north Khangai fault" by V.A.Sankov 14:30 – 14:45 "The crustal thickness and Vp/Vs ratio in Mongolia" by Ts.Baasanbat	31 II 3,	
14:15 – 14:30 "Segmented structure of the north Khangai fault" by V.A.Sankov 14:30 – 14:45 "The crustal thickness and Vp/Vs ratio in Mongolia" by Ts.Baasanbat	"Stress Field Characterization and Focal Mechanism Analysis in the SHFS, Central Mongolia" by D.Mungunsuren	
14:30 – 14:45 "The crustal thickness and Vp/Vs ratio in Mongolia" by Ts.Baasanbat		
14:45 – 15:00 water deposits exploration within the Baikal rift zone" by I.Buddo	"Integrating geophysical methods: from studying the Arctic to the geothermal water deposits exploration within the Baikal rift zone" by I.Buddo	
Magnetotelluric Data" by B.Buyantogtokh	"3D Geophysical Model of the Ulaanbaatar Region from Gravity and Magnetotelluric Data" by B.Buyantogtokh	
15:15 – 15:30 "Study of Mogod dislocations in trench sections" by O.P.Smekalin		
15:30 – 15:45 "Relocation of the seismic sequences along the Mogod fat U.Khishigdelger	ult" by	
13:30 – 15:00 Session 4: Geomagnetic and Ionospheric Phenomena Conf roo	m – 2	
Chairs: Vladimir Mishin, PhD & Bat-Erdene Amarjargal, PhD		
"Dynamics of distribution of electric fields and currents in the high- a latitude ionospheres in two hemispheres during equinox SMC events steady IMF" by V.V. Mishin	"Dynamics of distribution of electric fields and currents in the high- and low-latitude ionospheres in two hemispheres during equinox SMC events with a steady IMF" by V.V. Mishin	
13:45 – 14:00 "Analysis of Ionospheric Responses During the Strong Geomagnetic S 2024" by B.Amarjargal	"Analysis of Ionospheric Responses During the Strong Geomagnetic Storm of 2024" by B.Amarjargal	
14:00 – 14:15 "Pc1 hydromagnetic emissions of chevron type" by B.Tsegmed		
14:15 – 14:30 "How do substorms affect the storm-time magnetic variation" by V.V. M	"How do substorms affect the storm-time magnetic variation" by V.V. Mishin	
15:00 – 16:15 Coffee break Lobby of room 1	conf	
Session 5: Environmental hazard analysis & Conf roo 16:15 – 17:30 Engineering seismology	m – 1	
Chairs: Tserenpil Batsaikhan, PhD & Artem Rybchenko, PhD		
16:15 – 16:30 "Seismic micro zonation and seismic hazard assessment of Dalan soum, Southern Mongolia" by M.Dembereldulam	zadgad	
40.20 40.45 "Анализ влияния морфодинамических условий на формир	"Анализ влияния морфодинамических условий на формирование	
16:30 – 16:45 паводков в пределах г. Улаанбаатар" by А.А.Рыбченко	"Resonant coincidence of the dominant frequencies of the building, soil and seismic wave" by Ts.Batsaikhan	
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Date & time	Activity	Location		
August 12, Tues	August 12, Tuesday			
08:30 - 09:00	Coffee break	Lobby of conf room 1		
09:00 – 10:30	Session 6: Multidisciplinary monitoring of the Earth's subsystems	Conf room 1		
	Chairs: Dashdondog Mungunsuren, PhD & Aleksy Sankov			
09:00 – 09:15	"An integrated approach to studying seismic activations in the Baikal Rift Zone based on processing emanation monitoring data" By A.Bobrov			
09:15 – 09:30	"Volcanism and expanding seismicity in the Baikal Rift System: assessment of its current state from hydrogeochemical monitoring data" by I.S. Chuvashova			
09:30 - 09:45	"Integrated monitoring of hazardous geological processes in the Baikal rift" by A.V.Sankov			
09:45 - 10:00	"Mongolian National Data center" by S.Odbayar			
10:00 – 10:15	"Debris flow monitoring and emergency warning system"	by A.A.Dobrinina		
10:15 – 10:30	"Modern unmanned aerial systems as an effective tool for exploring arctic mineral resources" by I.Shelokhov			
10:30 – 12:30	Poster session with coffee	Lobby of conf room 1		
Poster – 1	"Оценка селевой опасности на основе геоморфометрического анализа ЦМР в собственной программной среде (на примере Южного Прибайкалья" by A.Yuriev			
Poster – 2	"Current GNSS geodetic network and geodynamic study in Mongolia based on GNSS observations" by D.Erdenezul			
Poster – 3	"Structure of the Upper Mantle Beneath Mongolia Based on Surface Waves: Consequences for the Western Edge of the Amurian Plate" by G.Baigalimaa			
Poster – 4	"Seismicity and seismic regime in western region of Mongolia (Altay region)" by S.Zagdsuren			
Poster – 5	"Study of seismic regimes: A Case study of Selenge province" By S.Dolgormaa			
Poster – 6	"Seismic regime study of Dundgovi province" by R.Undarmaa			
Poster – 7	"Seismic activity in the Gobi-Altai province" by B.Dulmaa			
Poster – 8	"Application of Depth Scanning Algorithm in Mogod region" by L.Dagzinmaa			
Poster – 9	"Regional stress fields in the Mogod seismic dislocation zones – preview results" by I.Burzunova			
Poster – 10	"The study on seismicity along Mogod active fault-2024" b			
Poster – 11	"The December 5, 2014 Khankh earthquake, Khuv P.Davaadalai			
Poster – 12	"Macroseismic survey results of the Kosh-Agash eart T.Altanjuldiz	hquake, Russia" by		
Poster – 13	"Earthquake monitoring using PSI and SENTINEL- E.Bayarsaikhan	1 SAR DATA" by		
Poster – 14	"A Low-cost seismic sensor network in Umnugovi: the R 4D SOLUTION" by M.Mungunshagai			
Poster – 15	"Monitoring Device for an Earthquake Early Warning Stati Controller" by B.Narangii	on Based on STM32		
Poster – 16	"CTBTO IMS stations in Mongolia" by B.Munkhbayar			
Poster – 17	"Improvements in the Detection Capability of the Mongol Over the Last 10 Years" by J.Bayaraa			
Poster – 18	"Astrometric observations in Mongolia "Khureltogoo B.Batjargal	ot observatory" by		
Poster – 19	"The operational status of the OWL-NET telescope Z.Amarsaikhan	e in Mongolia" by		

Poster – 20	"Observations of near-Earth and astrophysical objects at the Khureltogoot observatory" by N.Tungalag		
Poster – 21	"The measurement results of aerosol optical properties at the Ulaanbaatar station of the SKYNET network" by B.Tuvshinjargal		
Poster – 22	"Long-period fluctuations in the earth rotation and solar activity: since 1600" by D.Baatarkhuu		
Poster – 23	"An Evaluation of the Quality of Astronomy Content in the General Education Curriculum" by B.Banzragch		
Poster – 24	"Magnetotelluric investigation to understand the formation of the Ulaanbaatar region and to evaluate geothermal potential" by E.Batmagnai		
Poster – 25	"Shock-Induced Transient Variations in the Polar Cusp Ionosphere" by B.Amargargal		
Poster – 26	"Statistical study of predictive parameters for Geomagnetic Storms during 23- 24 solar cycles" by B.Tsegmed		
Poster – 27	"Using geophysical mapping to understand the geological formation in the southern part of Ulaanbaatar" by B.Buyantogtokh		
Poster – 28	"Analysis of the behavior of soils of various structures and conditions for the territory of Irkutsk based on earthquake registration data" by E.Bryzhak		
Poster – 29	"Aftershock sequences of the Busingol earthquakes of 1974, 1976 and 1991" by A.A.Kakourova		