

## THE FIFTH INTERNATIONAL CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY – EST 2025 CONFERENCE PROGRAM

**MEETING LOCATION**: MJ (JUULCHIN) BALLROOM, THIRD FLOOR, GALLERIA ULAANBAATAR (EAST SIDE OF THE SUKHBAATAR SQUARE), MONGOLIA

**MEETING DATES**: JUNE 18 & 19, 2025

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<b>DAY ONE: JUNE 18, 2025</b>	
	REGISTRATIONS AND PRESENTATION PREPARATIONS (08:00-09:00)
08:00-09:00	Conference Registration – Registration Desk on the 3 <sup>rd</sup> Floor
08:00-09:00	Poster installation on the designated board in MJ (Juulchin) Ballroom, 3 <sup>rd</sup> Floor
08:00-09:00	Oral presentation uploading to the respective meeting rooms
	OPENING CEREMONY – JUULCHIN BALLROOM
	(09:00-10:00)
Time	Opening Remarks
09:00-09:10	Conference opening performance
	Opening speech:
09:10-09:15	Dr. Dashtseren Avirmed, Director of the Institute of Geography and Geoecology, Mongolian Academy of Sciences
09:15-09:20	Greetings from:  Khurelsukh Ukhnaa, President of Mongolia
09:20-09:25	Academician Regdel Duger, Member of the Parliament of Mongolia
09:25-09:30	Academician Demberel Sodnomsambuu, President of the Mongolian Academy of Sciences
09:30-09:35	<b>Dr. Battogtokh Dorjgotov</b> , Director General, Department of Science and Technology Integrated Policy, Ministry of Economy and Development, Mongolia
09:35-09:40	<b>Dr. Oyunsanaa Byambasuren</b> , Director General of the National Forest Agency, Government of Mongolia
09:40-09:45	Ms. Chimguundari Navaan-Yunden, Director of the COP17 Preparatory Office at the Ministry of Foreign Affairs
09:45-10:00	Group Photo (All participants)
10:00-10:20	Coffee Break – Juulchin Ballroom on 3rd Floor

KEYNOTI	E PRESENTATIONS - JUULCHIN BALLROOM ON 3 <sup>RD</sup> FLOOR (10:20-13:00)
Time	Moderator: Host
10:20-10:40	Dr. Dashtseren Avirmed
	"Causes of land degradation and natural resource depletion in Mongolia"
	Director, Institute of Geography and Geoecology, Mongolian Academy of Sciences,
10:40 11:00	MONGOLIA D. T. W.
10:40-11:00	Dr. Tao Wang
	"Climate change and water manage to the oasification and aeolian desertification in arid region of China".
	Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences,
	CHINA
11:00-11:20	Dr. Clare Webster
	"Measuring boreal forest and snow cover with UAV-Lidar"
	Department of Geography, University of Zurich, SWITZERLAND
11:20-11:40	Dr. Markus Hauck
	"Mongolia's boreal forests and grasslands under climate change"
11 10 12 00	Chair of Applied Vegetation Ecology, University of Freiburg, GERMANY
11:40-12:00	Dr. Battogtokh Dorjgotov  "Systoingkility in a Clobal Contact: Transdissiplinary Passarah Model as a
	"Sustainability in a Global Context: Transdisciplinary Research Model as a Sustainable Development Model"
	Director General, Department of Science and Technology Integrated Policy, Ministry
	of Economy and Development, MONGOLIA
12:00-12:20	Dr. Mamoru Ishikawa
	"On the Southernmost permafrost zones: in depth collaboration between Mongolia
	and Japan for past 25 years"
	Hokkaido University, JAPAN
12:20-12:40	Dr. Dong Suocheng
	"China-Mongolia jointly Construct Ecological Security Shelter and Green Evelopment Modes on Mongolian Plateau"
	Director, Institute of Geographic Sciences and Natural Resources Research, Chinese
	Academy of Sciences, CHINA
12:40-13:00	Dr. Sarantuyaa Zandaryaa
	"UNESCO: Advancing science to address global water and climate challenges"
	Division of Water Sciences, Intergovernmental Hydrological Programme (IHP),
	UNESCO (Paris, France), MONGOLIA
	LUNCH (13:00-14:00)
	CONFERENCE MAIN AND SUB-SESSIONS
	(14:00-18:00)
	ronmental Challenges and Climate Change:
	: Climate Change and Its Impact on Natural Resources
(14:00-18:00) – Time	- Juulchin Ballroom on the 3 <sup>rd</sup> Floor  MODERATORS: DR. TONGHUA WU &
Time	DR. TSEYENKHAND PUNSANTSOGVOO
	(14:00-16:00)
14:00-14:15	"Analysis of climate change and permafrost landscapes of Yakutia over the past 60 years".
	Alexander Fedorov, ScD,  Moluikov Powerfront Institute, Sibonian Pranch, Progian Academy of Sciences, PUSSIA
	Melnikov Permafrost Institute, Siberian Branch, Russian Academy of Sciences, RUSSIA
14:15-14:30	"Impacts of global warming on summer precipitation trend over northeastern Eurasia using
	large-ensemble experiments".
	Hironari Kanamori, PhD, Faculty of Business Administration, Kobe Gakuin University, JAPAN
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14:30-14:45	
	"The significant uncertainty of water availability based different datasets in arid regions—
	Taking Mongolia as an example".
	Yanmin Yang, PhD,
	Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology,
	Chinese Academy of Sciences, CHINA
14:45-15:00	"Freshening Arctic water cycle demonstrated by tracer model simulation".
	Hotaek Park, PhD,
	Japan Agency for Marine-Earth Science and Technology (JAMSTEC), JAPAN
15:00-15:15	"Imports and Adoptation Strategies of Climate Change in Asian Cressland Decisions"
15:00-15:15	"Impacts and Adaptation Strategies of Climate Change in Asian Grassland Regions".
	Qinxue Wang, PhD,
	National Institute for Environmental Studies, JAPAN
15:15-15:30	"Monitoring and estimation of aufeis area dynamic changes using remote sensing and
	machine learning in Erdeneburen soum of Khuvsgul province in Mongolia".
	Temuujin Khurelbaatar, PhD,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
15:30-15:45	"Creation of information on hydrological cycle variability contributing to the maintenance of
	resilience in Mongolia (HyCyReMon)".
	Tetsuya Hiyama, PhD,
	Institute for Space-Earth Environmental Research, Nagoya University, JAPAN
15:45-16:00	"Summer precipitation characteristics over Mongolia revealed by GPM DPR observations".
	Hatsuki Fujinami, PhD,
	Institute for Space-Earth Environmental Research, Nagoya University, JAPAN
16:00-16:15	COFFEE BREAK
Time	MODERATORS: DR. QINXUE WANG & DR. ODSUREN BATDELGER
	(16:15-17:45)
16:15-16:30	"Climate Change Impacts on Riverine Communities in Alaska and Mongolia".
	Alexander Shiklomanov, PhD,
	University of New Hampshire, USA
16:30-16:45	"Rising River Temperatures in Mongolia Under Climate Change: Implications for Salmonid
10.00 10.10	Species".
	Saulyegul Avlyush, PhD,
	Dauly Czul Avivusii, 1 iiD,
16:45 17:00	Wild Salmon Center, MONGOLIA
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14:00-14:15	"FLEX-Cryo: A Process-Based Hydrological Model for Cryospheric Basins".  Hongkai Gao, ScD,
	East China Normal University, CHINA
14:15-14:30	"Importance of ice albedo at the glaciers in Mongolia".  Akiko Sakai, ScD,  Name of the state of the glaciers in Mongolia".
14:30-14:45	Nagoya University, JAPAN
14:30-14:45	"Influence of Geomorphic Settings and Anthropogenic Activities on CO2 and CH4Emissions from High-Mountain Streams to Arid Region Rivers".  Zhiheng Du, ScD,
	Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences, CHINA
14:45-15:00	"Spatiotemporal Variations of MODIS LST in the China-Mongolia-Russia Economic Corridor".
	Fujun Niu, ScD,
15.00 15.15	Shanghai Normal University, CHINA
15:00-15:15	"Icings in the Selenga River basin as an indicator of climate change".
	Vladimir Chernykh, PhD, Baikal Institute of Nature Management, Siberian Branch, Russian Academy of Sciences, RUSSIA
15:15-15:30	"Mapping of peatland in Mongolia along the southern fringe of Siberian permafrost region" Saruulzaya Adiya, PhD,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
15:30-15:45	"Influence of seasonal temperature and circulation changes on groundwater and ice
	formation in caves of northern Mongolia".
	Aleksandr Kononov, PhD,
	Irkutsk National Research Technical University, RUSSIA
15:45-16:00	"Permafrost Problems and Mitigative Measures along China-Russia Crude Oil Pipeline".
	Guoyu Li, PhD,
	Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences, CHINA
16:00-16:15	CHIVA
10.00 10.12	COFFEE BREAK
Time	MODERATORS: DR. ALEKSANDR KONONOV & DR. SARUULZAYA ADIYA (16:15-17:45)
16.15 16.20	"IT on to man shapes in name front town and they doublin Managlia from satellite
16:15-16:30	"How to map changes in permafrost temperature and thaw depth in Mongolia from satellite data".
	Sebastian Westermann, PhD, University of Oslo, NORWAY
16:30-16:45	"Establishment of Siberia-Mongolia-Tibet Permafrost Observation Transect: Progress &
	Perspective".
	Tonghua Wu, PhD,
	Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences, CHINA
16:45-17:00	"Spatiotemporal variability in the soil's thaw depth in two eastern Siberian larch forests".
10.75-17.00	Taro Nakai, PhD,
	National Taiwan University, TAIWAN
17:00-17:15	"Potential environmental challenges in rapidly developing economy of Mongolia".
17.00-17.13	Xiaoming Wang, PhD,
	Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences,
	CHINA
17:15-17:30	"A Comparative Study on the in situ soil thermal conductivity of the top active layer between
	the Arctic tundra and the alpine meadow on the Qinghai-Tibet Plateau".

	Ren Li, PhD,
	Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences, CHINA
17:30-17:45	"Recent CO2 and water vapor fluxes at Udleg forest research station, Northern Mongolia".  Ayumi Kotani, PhD,  Nagoya University, JAPAN
Session 2. Env	ironmental Policy and Regional Development:
Sub-session 02	2: Resilience to Environmental Hazards
	- Sky Ballroom on the 3 <sup>rd</sup> Floor
Time	MODERATORS: DR. MASATO SHINODA & DR. ALTANBAGANA MYAGMARSUREN (14:00-16:30)
14:00-14:15	"Formation of Lake and Drained Lake Basin systems associated with permafrost thaw in northeastern Eurasia and its impacts".  Yoshihiro Iijima, ScD,  Tokyo Metropolitan University, JAPAN
14:15-14:30	"The effects of climate change on nomadic communities in the Khövsgöl province".  Mariia Kuklina, PhD,  ARCTICenter, University of Northern Iowa, USA
14:30-14:45	"Revegetation in Desert Area: Water Balance Matters".  Xinping Wang, PhD,
	Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences, CHINA
14:45-15:00	"Drought and high salinity increased apatite phosphorus in the sediment of cold-arid lakes".  Cheng Liu, PhD,  Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences, CHINA
15:00-15:15	"Engineering geomorphological mapping based on land surface process with remote sensing
13.00-13.13	approach in bigger area".  Odbaatar Enkhjargal, PhD Candidate,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
15:15-15:30	"Assessing climate hazard risks for Mongolian herders: A County level study in Khovd, Bayankhongor, Dundgovi provinces".  Saruul Galtbayar, PhD Candidate,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
15:30-15:45	"Nutrients migration in cold-arid lakes: a comparative study of Lake Ulansuhai (China) and Lake Ugii (Mongolia) under anthropogenic and climatic drivers".  Wenxuan Han, MSc,
	Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences, CHINA
15:45-16:00	"Adapting to the new normal: Challenges and strategies for landlocked Asian mountainous countries in the face of extreme climate events".
	Dulguun Damdin-Od, International Think Tank for LandLocked Developing Countries (LLDCs), MONGOLIA
16:00-16:15	COFFEE BREAK
16:15-16:30	"Experimenting with BSC technology in Mongolia". <b>Akihito Sakura,</b> Nippon Koei Co., Ltd, JAPAN
Sub-session 03	ironmental Policy and Regional Development: 3: Policies for Sustainable Land and Natural Resource Use - Sky Ballroom on the 3 <sup>rd</sup> Floor
Time	MODERATORS: DR. NATALIIA EMELIANOVA & DR. ARIUNBOLD ERDENEGEREL (16:30-18:00)

16:30-16:45	"The current state of the specially protected natural areas system in the Ömnögovi aimag,
	Mongolia".
	Tatyana Kalikhman, ScD,
	V. B. Sochava Institute of Geography, Siberian Branch, Russian Academy of Sciences,
	RUSSIA
16:45-17:00	"Sustainable Futures for Rangelands and Pastoralism: Climate Risks and Policy Pathways".
	Nandintsetseg Banzragch, PhD,
	International Platform for Dryland Research and Education, Tottori University, JAPAN
17:00-17:15	"Ecological security and green development on the Mongolian Plateau: A China–Mongolia
	collaborative response to climate change".
	Hao Cheng, PhD,
	Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of
	Sciences, CHINA
17:15-17:30	"Interaction between vegetation change and grazing activities against climatic variation on the
	Sonid grassland, northern China".
	Shulin Liu, PhD,
	Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences,
	CHINA
17:30-17:45	"Can the Mining Industry Improve Social Welfare? Evidence from Mongolian Provinces".
	Li Chen, PhD,
	Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of
	Sciences, CHINA
17:45-18:00	"Typical Industry System Development under Global Change on the Mongolian Plateau"
	Fei Li, PhD,
	Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of
	Sciences, CHINA

## **DAY TWO: JUNE 19, 2025**

## CONFERENCE MAIN AND SUB-SESSIONS (09:00-13:00)

Session 1. Environmental Challenges and Climate Change:
Sub-session 02: Land Cover Change, Desertification, and Drought
(09:00-12:00) – Sky Ballroom on the 3<sup>rd</sup> Floor

Time	MODERATORS: DR. JIE LIAO & DR. URTNASAN MANDAKH
	(09:00-10:30)
09:00-09:15	"Addressing desertification towards sustainable herding and grasslands".
	Masato Shinoda, ScD,
	Nagoya University, JAPAN
09:15-09:30	"Determination of soil salinization in Gobi area, Mongolia".
	Davaadorj Davaasuren, PhD,
	National University of Mongolia, MONGOLIA
09:30-09:45	"Divergent Biotic-Environmental Controls on the Temporal Stability of Gravel and Sandy
	Desert Ecosystems in Arid Northwest China".
	Wenzhi Zhao, PhD,
	Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences,
	CHINA
09:45-10:00	"IRIMHE-Tottori University Collaborative Research on Aeolian Desertification: Field
	Surveys at the Tsogt-Ovoo Dust Monitoring Site and their Application to Numerical Dust
	Emission Models".
	Yasunori Kurosaki, PhD,
	Arid Land Research Center, Tottori University, JAPAN

10:00-10:15	"Carbon and Water Exchange over a Temperate Semiarid Shrubland in the Mu Us Desert of Northern China".  Xin Jia, PhD,
	Beijing Forestry University, CHINA
10:15 -10:30	"Exploring dust outbreak conditions in terms of meteorology, hydrology, and topography in the Gobi Region".  Dai Matsushima, PhD,  Chiba Institute of Technology, JAPAN
10:30-10:45	COFFEE BREAK
Time	MODERATORS: DR. SEBASTIAN WESTERMANN & DR. NANDINTSETSEG BANZRAGCH (10:45-12:00)
10:45-11:00	"Spatio-temporal change of Mongolia Landscape patterns and its driving factors from 2000 to 2020".  Xiaodong Wu, PhD,  Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences,  CHINA
11:00-11:15	"Towards comprehensive evaluation of ecosystem dynamics in arid and semi-arid regions of Mongolia by a process-based eco-hydrology model".  Tadanobu Nakayama, PhD,  National Institute for Environmental Studies, JAPAN
11:15 -11:30	"Soil pollution in Ulaanbaatar, Mongolia".  Ganzorig Ulgiichimeg, PhD Candidate,  Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
11:30-11:45	"Changes in vegetation communities in the different natural zones of Mongolia".  Otgontsetseg Davaanyam, MSc,  Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
11:45-12:00	"Topoclimatic drivers of land cover change in the Mongol Altai Mountains using random forest and eXtreme gradient boosting algorithms".  Batnyam Tseveengerel, MSc,  Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
	ronmental Policy and Regional Development:  Economic Geography and Environmental Planning for the Development of Cities and
	Urgoo Ballroom on the 3 <sup>rd</sup> Floor
Time	MODERATORS: DR. FUJIA LI & DR. SAULYEGUL AVLYUSH (09:00-10:30)
09:00-09:15	"Comparative geographical analysis of the new resource-industrial development of the east russia and the south mongolia: features, priorities, differences".  Leonid Bezrukov, ScD,  V. B. Sochava Institute of Geography, Siberian Branch, Russian Academy of Sciences, RUSSIA
09:15-09:30	"Suburbanization and demographic processes in the Irkutsk agglomeration" <b>Konstantin Grigorichev, ScD,</b> A.E. Favorsky Irkutsk Institute of Chemistry, Siberian Branch, Russian Academy of Sciences, RUSSIA
09:30-09:45	"Environmental protection infrastructure of urbanized territories (using Irkutsk as an example)". <b>Tatiana Zabortceva</b> , <b>ScD</b> ,  V. B. Sochava Institute of Geography, Siberian Branch, Russian Academy of Sciences, RUSSIA
09:45-10:00	"Analysis of Tourism Resources and Spatial Patterns in Inner Mongolia".  Chang An, PhD,

	Inner Mongolia Normal University, INNER MONGOLIA
10:00-10:15	"Experience of social-environmental-economic study of the Umnugovi Aimag new industrial development areas".  Nataliia Emelianova, PhD,  A.E. Favorsky Irkutsk Institute of Chemistry, Siberian Branch, Russian Academy of Sciences, RUSSIA
10:15 -10:30	"Comparative analysis of the efficiency of transportation corridors in Mongolia".  Altanbagana Myagmarsuren, PhD,  Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
10:30-10:45	COFFEE BREAK
10:45-11:00	"Social problems of mining areas: comparison of Russian and Mongolian examples".  Gerelma Dugarova, PhD,  V. B. Sochava Institute of Geography, Siberian Branch, Russian Academy of Sciences,  RUSSIA
Time	MODERATORS: DR. CHENG HAO & DR. SONOMDAGVA CHONOKHUU (11:00-12:45)
11:00-11:15	"System dynamics model and input—output model in regional ecological economy analysis and international research prospects".  Fujia Li, PhD,  Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, CHINA
11:15 -11:30	"Tourism in the Indigenous Homelands of Northern Mongolia".  Natalia Krasnoshtanova, PhD,  V. B. Sochava Institute of Geography, Siberian Branch, Russian Academy of Sciences,  RUSSIA
11:30-11:45	"Assessment of the current condition of Mongolian Road Border Ports".  Nandin-Erdene Amartuvshin, BSc,  Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
11:45-12:00	"Sustainable Development policy in Mongolia: National Aspirations and Local Priorities for the Resource Regions".  Konstantin Tszian, MSc,  A.E. Favorsky Irkutsk Institute of Chemistry, Siberian Branch, Russian Academy of Sciences, RUSSIA
12:00-12:15	"Preliminary results of the suitability assessment of the aspiring Geopark sites in the South Gobi region in Mongolia".  Undrakhtsetseg Tsogtbaatar, MSc,  Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
12:15 -12:30	"Plastic waste collection route optimization: Bulgan province".  Enkhbaatar Dembereldash, MSc,  Erdenet Institute of Technology, MONGOLIA
12:30-12:45	"Healthcare Characteristics in the Yakut Arctic"  Anna Romanova, ScD,  Yakut Science Centre of Complex Medical Problems, RUSSIA
Sub-session 01:	ronmental Technology and Innovation: Ecosystem Restoration and Nature-based Solutions for Environmental Challenges Juulchin Ballroom on the 3 <sup>rd</sup> Floor
Time	MODERATORS: DR. XIAODONG WU & DR. TEMUUJIN KHURELBAATAR (09:00-11:15)
09:00-09:15	"Halophytic shrubs as key species for restoration in degraded arid ecosystems".  Ariunbold Erdenegerel, PhD,  Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA

09:15-09:30	"Monitoring Surface Deformation and Identifying Driving Factors in Mongolian Permafrost
09.13-09.30	Using Multi-Temporal InSAR".
	Hasi Bagan, PhD,
	Shanghai Normal University, CHINA
09:30-09:45	"Environmental conditions in the mining areas of the Umnugovi aimag of Mongolia".
	Olga Gagarinova, PhD,
	A.E. Favorsky Irkutsk Institute of Chemistry, Siberian Branch, Russian Academy of Sciences,
	RUSSIA
09:45-10:00	"Influence of an increase in the moisture content of the active layer on the formation of
	permafrost in the conditions of Central Yakutia".
	Aleksandr Zhirkov, PhD,
	Melnikov Permafrost Institute, Siberian Branch, Russian Academy of Sciences, RUSSIA
10:00-10:15	"Innovative Carbon Solutions: Integrating CCU into Energy Production".
	Enkhbayar Shagdar, PhD,
	University of Niigata Prefecture, JAPAN
10:15-10:30	"Estimating the nitrogen nutrition index in grass seed crops using a UAV-mounted
	multispectral camera".
	Wang Hui, PhD,
	Southwest Minzu University, CHINA
10.20 10.45	COFFEE DDE AV
10:30-10:45	COFFEE BREAK
10:45-11:00	"Ecosystem disturbances and their impact on ground temperatures".
	Robin B. Zweigel, PhD Candidate,
	University of Oslo, NORWAY
11:00-11:15	"Assessment of Ground-Based Pandora NO2 Observations in Ulaanbaatar for Satellite
	Validation Applications".
	Davaanyam Enkhbaatar, PhD Candidate,
	Information and Research Institute of Meteorology, Hydrology, and Environment,
	MONGOLIA
	ironmental Technology and Innovation:
	: AI and Big Data Applications in Environmental Monitoring, Prediction, and Risk
Assessment (11.15 12.45)	- Juulchin Ballroom on the 3 <sup>rd</sup> Floor
Time	MODERATORS: ACAD, AMARSAIKHAN DAMDINSUREN & DR. HASI BAGAN
Time	(11:15-12:45)
11:15-11:30	"Comparison of machine learning, supervised, and unsupervised algorithms for a land cover
	classification in Northern Mongolia".
	Amarsaikhan Damdinsuren, ScD,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
11:30-11:45	"High-Resolution Simulation of Frozen Ground Dynamics in the Bulgan Gol Basin, Altai
	Mountains".
	Kang Wang, PhD,
	East China Normal University, CHINA
11:45-12:00	"Synergistic use of PRISMA hyperspectral and sentinel-1B SAR data for land cover
	classification".
	Amarsaikhan Damdinsuren, ScD,
12.00	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
12:00-12:15	"Machine-learning integration of multiple satellite and meteorological datasets for long-term
	monitoring of surface vegetation and water states across the Pan-Arctic region".
	Hiroki Mizuochi, PhD,
	Geological Survey of Japan, National Institute of Advanced Industrial Science and
	Technology, JAPAN

12:15 -12:30	"Interspecific interactions and their importance in a shrub-dominated community of the Mu
12.10 12.00	Us Desert".
	Yuqing Zhang, PhD,
	Beijing Forestry University, CHINA
12:30-12:45	"Advancing hydrological understanding in cold regions: development and application of the
	WEP model for lateral flow estimation in the Great Lakes Depression of Mongolia".
	Batsuren Dorjsuren, PhD,
	National University of Mongolia, MONGOLIA
	LUNCH (13:00-14:00)
14:00-15:30	POSTER SESSION – JUULCHIN BALLROOM
11.00 13.30	All poster presenters are expected to remain near their posters during the entire session
	for Q&A
Time	VIP MEETINGS (12:00-13:00 & 14:00-17:50) -
12.00.12.00	SKY BALLROOM ON THE 3 <sup>rd</sup> FLOOR
12:00-13:00	Opening Ceremony for Mongolia Branch of the International Research Center
	for China-Mongolia-Russia Cold and Arid Regions Environment and
12.00.12.20	Engineering (IRC-CMR-CAREE)
13:00-13:30	Institute of Geographic Sciences and Natural Resources Research
14:00-15:00	Permafrost4Life Group Meeting
15:00-16:00	COP 17
16:00-16:30	Northwest Institute of Eco-Environment and Resources
16:30-17:00	Southwest Minzu University
17:00-17:30	Beijing Forestry University
18:00-22:00	CONFERENCE RECEPTION – MJ RESTAURANT
THE CONFERENCE PROGRAM ENDS	

## EST 2025 – POSTER SESSION ON JUNE 19, 2025 (14:00-15:30)

Poster	Session 1. Environmental Challenges and Climate Change:
No	Sub-session 01: Climate Change and Its Impact on Natural Resources
01	"Water stable isotope study of Selbe River".
	Purew-Erdene Erdemjargal, BSc,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
02	"Seasonal variation in groundwater quality along the Kherlen river valley"
	Enkhjargal Togtokh, MSc,
02	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
03	"Soil organic carbon labile fractions and carbon management index in pasture soil"
	Zoljargal Khavtgai, PhD,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
04	"Soil carbon management index under different land use"
	Zoljargal Khavtgai, PhD,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
05	"Impacts of climatic and anthropogenic factors on surface changes in the Khar-Us Lake basin"
	Tsolmonbayar Galbadrakh, BSc,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
06	"Water temperature changes and trends of the Kherlen river"
	Bayasgalan Sodnom, BSc,
	Center for Hydrometeorological Environmental Nonitoring of Khentii Province, MONGOLIA
07	"Assessment of post-thinning growth and reproductive performance of planted trees: a case study in
	the northern Mongolia"
	Batsaikhan Ganbaatar, PhD,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
08	"Results of planting <i>pea</i> varieties in non-irrigated conditions in the forest-steppe zone"
	Khishigsuren Nayantai, MSc,
	Research Institute of Animal Husbandry, MONGOLIA
09	"Seasonal change of water quality in Khuvsgul Lake"
	Erdenechimeg Surenjaw, BSc,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
10	"The results of the research on pasture plants in the Kherlen River basin"
	Uuriintsolmon Enkhtaivan, MSc,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
11	"Effects of growth regulators and composition of nutrient media on in vitro regeneration of <i>Juniperus</i>
	sabina L"
	Uuganzaya Myagmarjav, PhD,
	Research Institute of Animal Husbandry, MONGOLIA
12	"Participatory assessment of environmental and climate change in the Ugiinuur Region"
	Tsogtbaatar Solongo, MSc,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
13	"Ice regime on Lake Khovsgol, Mongolia, detection by time series movement from threshold value
	with MODIS "
	Davaajargal Boldbaatar, PhD,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
14	"Results of the study of the riparian forests of the Delger River Basin"
	Tsendsuren Dagdan, PhD,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
Poster	Session 1. Environmental Challenges and Climate Change:
No	Sub-session 02: Land Cover Change, Desertification, and Drought

15	"Dust transport dynamics over the Mongolian Plateau and its regional impacts"
	Yuanyuan Zhao, PhD,
	Beijing Forestry University, CHINA
16	"An Experimental investigation into the establishment and growth dynamics of drought-tolerant tree
	and shrub species in arid steppe ecosystems"
	Enkhtur Tsendsuren, MSc,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
17	"Study of soil and vegetation changes in pastureland (On soum of Selenge province)"
	Delgertsetseg Renchinmyadag, MSc,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
18	"Effect of wildfire and clear-cutting on soil organic carbon content in larch forest"
	Bolormaa Tseden-Ish, MSc,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
10	
19	"Estimating the spatial distribution of urban heat islands in 6 districts of Ulaanbaatar using machine
	learning"
	Byambadolgor Batdorj, MSc,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
20	"The Socio-economic impacts for desertification and land degradation"
	Gantsetseg Gantumur, MSc,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
21	"Land cover and land use study in Mongolia: Initial result of literature review"
	Unurnyam Jugnee, MSc,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
22	"Desertification and land degradation problems in soums in different natural regions of Mongolia"
	Altantuya Dorjsuren, PhD,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
23	"The drought impact on the socio-economic stability and the resilient countermeasures in
	Bayankhongor province, Mongolia"
	Oyundari Borkhuu, BSc,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
Poster	Session 1. Environmental Challenges and Climate Change:
No	Sub-session 03: Interaction Between the Changing Cryosphere and Ecosystems
24	"Time-lag effects of snowmelt on vegetation gross primary productivity in the Tibetan Plateau"
	Yan Huang, PhD,
	East China Normal University, CHINA
25	"Seasonal water yield modelling of the Baidrag River Basin"
	Purevsuren Munkhtur, MSc,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
26	
26	"Long-term climate changes in the permafrost region of Mongolian Altai"
	Nemekhbayar Gankhuyag, MSc,
	Department of Environment and Forest Engineering, School of Engineering and Technology, National
27	University of Mongolia, Mongolia
27	"Features of the chemical composition of groundwater within the Selenga catchment area"
	Mikhail Kolobov, PhD,
20	Department of General Ecology and Hydrobiology at Lomonosov Moscow State University, RUSSIA
28	"Evaluating the Impact of Soil Enthalpy upon the Thawing Process of the Active Layer in Permafrost
	Regions of the Qinghai–Tibet Plateau Using CLM5.0"
	Shenning Wang, PhD,
	Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences, CHINA
Poster	Session 2. Environmental Policy and Regional Development:
No	Sub-session 01: Economic Geography and Environmental Planning for the Development of
	Cities and Regions

29	"Research on opportunities of using GEP accounting in Mongolia: A case study of the valuation of ecosystem services in Khovd"
	Gerelsuren Gaanjuur, MSc, Western Region Branch, National University of Mongolia, MONGOLIA
30	"Study on the Estimation and Optimization of the Irrigation System for the Green Zone"
	Zoljargal Tuvshin, BSc,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
31	"Vertical distribution and source study of heavy metal contamination in soil"
	Zoljargal Tuvshin, BSc,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
32	"Human impacts on pasture degradation (A case study of the Dornod, Sukhbaatar, Khentii provinces)"
	Narantsatsral Tseren, MSc,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
33	"Interrelated factors influencing the human development potential in the Central region of Mongolia
	/For example Umnugovi province/"
	Ayauli Yerlan, MSc,
	Department in Bayan-Ulgii, Institute of Philosophy, Mongolian Academy of Sciences, MONGOLIA
Poster	Session 2. Environmental Policy and Regional Development:
No	Sub-session 02: Resilience to Environmental Hazards
34	"Heavy metal contamination in soil surrounding a waste battery recycling facility"
	Elbegzaya Gankhuyg, PhD Candidate,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
35	"Study on assessment and remedation technology of heavy metal pollution in soils of Ulaanbaatar city,
	Mongolia"
	Bilguun Ulziibat, PhD Candidate
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
36	"Feasibility Study on Cost Optimization for Flood Protection Channel Design: A Case Study in Dry
	Riverbeds near Dari-Ekh and Gants Khudag"
	Munkhtur Batsukh, MSc,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
37	"Assessing environmental vulnerability in drylands: A Multi-Thematic geospatial approach for the
	Sainshand region of Mongolia"
	Sainbayar Dalantai, PhD,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
38	"Topographic analysis of the Ulaanbaatar fault in central Mongolia: results from drone mapping and
	RTK GPS survey"
	Narangerel Serdyanjiv, PhD,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
Poster	Session 2. Environmental Policy and Regional Development:
No	Sub-session 03: Policies for Sustainable Land and Natural Resource Use
39	"The effect of tree species on soil organic carbon stock in Mongolian forest"
	Byambaa Ganbat, PhD Candidate,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
40	"A Study on the Soil Washing Efficiency of copper (Cu) and lead (Pb) contaminated Soil according to
	Soil Particle Size Separation"
	Sainzaya Sharav, MSc,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
41	"Water-Nutrient Interaction Mechanisms in Maize Under Conservation Tillage Systems"
	Cuihua Huang, PhD,
	Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences, CHINA
42	"Coupled Effects of Halophytes and Soil Texture on Water and Salt Movement in Unsaturated Saline
	Soils"
	Xian Xue, PhD,
	Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences, CHINA

43	"Response of Saproxylic Beetle Diversity in Relation to Forest Degradation in the Green Belt of Ulaanbaatar, Northern Mongolia"
	Batchudur Bat-Amgalan, PhD Candidate, Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
44	"Knowledge-based geoecological mapping for sustainable land management in Khuvsgul region"
	Boldbaatar Natsagdorj, MSc,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
Poster	Session 3. Environmental Technology and Innovation:
No	Sub-session 01: Ecosystem Restoration and Nature-based Solutions for Environmental
	Challenges
45	"Environmental Changes in the Area Surrounding Lake Ugii: Preliminary Results from a Joint
	Mongolian-Chinese Research Study"
	Odsuren Batdelger, PhD,
1.6	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
46	"Patterns of soil bacterial communities along a precipitation gradient in Mongolia"
	Tulga Enkhjargal, BSc,
	National University of Mongolia, MONGOLIA
47	"Research on the Sustainability of Traditional Ecological Knowledge (TEK) Based on SDGs: Taking
	Ovoo Worship as an Example"
	Baomenaodu Boldbaatar, PhD,
	National University of Mongolia, MONGOLIA
48	"Prospects for restoring ecosystems in the Pasvik River Basin"
	Olga Khlebosolova, PhD,
	Sergo Ordzhonikidze Russian State University for Geological Prospecting, RUSSIA
49	"The effect of air pollution on the pigment content of <i>Picea obovata</i> L."
	Otgonbayar Khishigdelger, MSc,
50	Botanic Garden and Research Institute, Mongolian Academy of Sciences, MONGOLIA
30	"Baseflow separation using the digital filter method (Kharaa River)"
	Enkhtuya Minjuurlunden, MSc,
Poster	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA Session 3. Environmental Technology and Innovation:
No	Sub-session 02: AI and Big Data Applications in Environmental Monitoring, Prediction, and
110	Risk Assessment
51	"Predicting range shifts of arctic/boreal plants under climate change scenarios"
	Zhang Yan, MSc,
	Beijing Normal University, CHINA
52	"Hydrological study of Kherlen river basin, Mongolia using geospatial inputs"
	Saranchimeg Batsukh, MSc,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
53	"Detection of Frost-Susceptible Zones in Ulaanbaatar using InSAR Analysis"
	Tatsuya Watanabe, PhD,
	Kitami Institute of Technology, JAPAN
54	"Mapping and estimating area of pasture irrigation on Gobisumber province in Mongolia"
34	Shinebayar Otgon, MSc,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA
55	"Drivers of soil water holding capacity across ecological zones in Mongolia"
	Gerelmaa Zorigtbaatar, MSc,
	Institute of Biology, Mongolian Academy of Sciences, MONGOLIA
56	"State of the forest fund of Khuvsgul province"
	Udval Bayarsaikhan, PhD,
	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA

	"Permafrost risk assessment and ecosystem service valuation in Khuvsgul Province"
P	Purevdulam Yondonrentsen, BSc,
Iı	Institute of Geography and Geoecology, Mongolian Academy of Sciences, MONGOLIA