



Московский
государственный
университет
имени М.В. Ломоносова

**«Дағдарыс жағдайындағы аймақтардың тұрақты дамуына геоақпараттық қолдау көрсету» ИнтерКарто. ИнтерГИС 30 Халықаралық конференциясының БАҒДАРЛАМАСЫ
1-3 қазан 2024 жыл**

**International Conference InterCarto. InterGIS 30 «GI support for sustainable development of regions in crisis»
PROGRAM
October 1-3, 2024**

**ПРОГРАММА
Международной конференции
ИнтерКарто. ИнтерГИС 30 «Геоинформационная поддержка устойчивого развития регионов в условиях кризиса»
1-3 октября 2024 года**



**Өскемен
Ust-Kamenogorsk
Усть-Каменогорск
2024**

1 october 2024 year

9.30-10.00 - registration of conference participants by QR code

10:00-13:30

Location: Hall of columns

Inauguration of the International Conference

InterCarto. InterGIS 30 «**Geoinformation support of sustainable regional development in crisis conditions**»

Plenary session

10:00- Moderator offline

10:05 Zhadyra T. Konurbayeva
Member of the Board - Vice-Rector for Science and Innovation

10:05- Welcome speech offline

10:10 Saule Rakhmetullina
Chairman of the board-rector

10:10- ABOUT THE ACTIVITIES OF RUSSIAN ORGANIZATIONS IN THE ICA online

10:25 TIKUNOV VLADIMIR SERGEEVICH
Doctor of Geographical Sciences, Professor at the Faculty of Geography, Lomonosov Moscow State University, Head of the Laboratory of Integrated Mapping and the Regional Center for World Data Systems, Faculty of Geography, MSU (Moscow, Russia)

10:25- Welcome speech offline

10:30 MILAN KONECNY
Doctor of Science, Professor of Geodesy and Cartography, Head of the Laboratory of Cartography and Geoinformatics, Masaryk University (Brno, Czech Republic)

10:30- AUGMENTING CLIMATE CHANGE RESEARCH BY LEVERAGING GEOSPATIAL BIG DATA, CLOUD COMPUTING, MACHINE LEARNING AND DIGITAL TWIN - online

10:50 EUGENE LEVIN (SACS Meharry, USA), Н. Бейсекенов, М.Е. Рахымбердина, Е. Бекишев

10:50- ATLAS INFORMATION SYSTEMS: DESIGN, CREATION, USE offline

11:05 - МАРКОВА ОЛЬГА ИВАНОВНА (PhD in Geography, Senior Researcher at the Faculty of Geography, Lomonosov Moscow State University, Moscow, Russia)

11:05- RETRIEVAL OF PARAMETERS TO ASSESS EXTREME CLIMATE EVENTS USING SATELLITE REMOTE SENSING - online

11:15 MOHAMMAD SUHAIL (PhD in Technical Sciences, Director of the Center for Applied Remote Sensing and GIS Applications, Samarkand State University, Samarkand, Uzbekistan)

11:15- GEOMORPHOMETRIC ATLAS OF ICE-FREE AREAS IN ANTARCTICA: PROBLEM SETTING - **FLORINSKY IGOR** offline

	VASILIEVICH (Doctor of Technical Sciences, Senior Researcher, Institute of Mathematical Problems of Biology, a branch of the Keldysh Institute of Applied Mathematics, Russian Academy of Sciences, Pushchino, Moscow Region, Russia)	
11:30-11:40	DIGITALIZATION DEVELOPMENT IN EAST KAZAKHSTAN REGION - AKHMETOVA GULNAZ MYRZAMUKHAMBETOVNA (Head of the Department of Development of Digitalization and Informatisation, Department of Digitalization and Archives of the East Kazakhstan Region, Kazakhstan)	offline
11:40-12:00	Coffee break	
12:00-12:15	INSAR-BASED LANDSLIDE MOVEMENT MODELS: A CASE STUDY OF JIZAN PROVINCE, SAUDI ARABIA – ROMAN SHULTS (Doctor of Technical Sciences, Assistant Professor, Senior Researcher, Interdisciplinary Research Center "Aviation and Space Exploration", Head of the Remote Sensing and Analysis Laboratory, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia)	online
12:15-12:30	RUSSIAN URBANONYMS AS A REFLECTION OF REGIONAL IDENTITY - GOLUBCHIKOV YURI NIKOLAEVICH (PhD in Geography, Senior Researcher, Lomonosov Moscow State University, Moscow, Russia)	offline
12:30-12:45	MONITORING OF ENGINEERING STRUCTURES USING GIS AND ARTIFICIAL NEURAL NETWORK METHODS - BORIS RESNIK (Doctor of Engineering Sciences, Professor, Berlin University of Applied Sciences (Berlin, Germany), M.E. Rakhymberdina, M.M. Toguzova)	online
12:45-13:00	FEATURES OF LAND ALLOCATION IN CITIES OF REGIONAL AND DISTRICT SIGNIFICANCE, TAKING INTO ACCOUNT THE TRANSFORMATION AND CONVERSION BETWEEN STATE, INTERNATIONAL, AND LOCAL COORDINATE SYSTEMS - SARMANOV DAULET GINAYATOVICH (Deputy Head of the Public Institution "Land Relations Department of East Kazakhstan Region", Ust-Kamenogorsk, Kazakhstan)	offline
13:00-13:15	TECTONIC FRACTURE ANALYSIS AND EXPLORATION OF METALLIC DEPOSITS – CHRISTOPHE PASCAL Doctor, Professor at the Institute of Geology, Mineralogy, and Geophysics, Ruhr University, Bochum, Germany)	offline
13:15-13:30	HOVERMAP - A UNIQUE MOBILE SCANNING SYSTEM - GULYAEV MIKHAIL YURIEVICH (Sales Specialist, "Geodetic Equipment and Services" Division)	offline
13:30-14:30	Lunch	

14.30-17.30 – Round table

On Topic: «The Use of GeoAI and Global Initiatives to Address Issues Related to Geospatial Information and Natural Disasters».

Location: Hall of colon

14:30-15:00	VICTOR BAI - president of IAEM «The Future of AI in Geoinformation Systems: Impacts on Sustainable Development and Crisis Management»	offline
15:00-15:30	MILAN KONECNY - Doctor of Science, Professor of Geodesy and Cartography, Head of the Laboratory of Cartography and Geoinformatics, Masaryk University (Brno, Czech Republic) «DRM and DRR Challenges and Potentials: Are Sendaj Framework Results Enough?»	offline
15:30-16:20	SEREDOVICH VLADIMIR ADOLFOVICH - PhD in Technical Sciences, President of the Association of Construction Organizations of the Novosibirsk Region (Novosibirsk, Russia) KAREL VACH - Chair of ISPRS WG V/6, CEO of EuroGV, CEO of PHEDCS (Prague, Czech Republic) «Use of Cartographic Methods in the Formation of Digital Twins»	offline
16:20-16:35	SAGADIEV KUAT NURLANBEKOVICH - Director of the Department of the Unified State Real Estate Cadastre, JSC "Government for Citizens" (Astana, Kazakhstan) «On the Creation and Launch of the Unified State Real Estate Cadastre»	online
16:35-16:45	DENISOVA NATALYA FEDOROVNA - PhD in Physics and Mathematics, Chief Digital Officer of the Information Technology Department, D. Serikbayev East Kazakhstan Technical University (Ust-Kamenogorsk, Kazakhstan) «Development of an Automated Avalanche Hazard System»	offline
16:45-16:55	KABDULOVA GULZHĪYAN AYUPOVNA – PhD in Geography, Senior Researcher of the Laboratory of Space and Geoinformation Technologies, Institute of Ionosphere (Almaty, Kazakhstan) «Practical Experience in the Use of Remote Sensing Data and GIS Technologies for Emergency Response in the Republic of Kazakhstan»	offline
16:55-17:05	NAURYZBAYEV ARMAN ORALBEKOVICH - Head of the Department of Emergency Situations, East Kazakhstan Region «Current Situation and Measures to Reduce Flood Risks in East Kazakhstan Region»	offline
17:05-17:15	STANBEKOV SOVETBEK TOKUSHEVICH - Head of the Branch of the Public Institution "Kazselezashchita of the Ministry of Emergency Situations of the Republic of Kazakhstan", East	offline

Kazakhstan Territorial Operational Management
«Prevention and Elimination of Natural Disasters (Avalanches,
Mudflows)»

17:15- **CHETTYKBAYEV RUSLAN KAIRATOVICH** - Head of the offline
17:30 Competence and Technology Transfer Center in the Field of
Information Technology, D. Serikbayev East Kazakhstan
Technical University
«Analytical System for Flood Forecasting During Seasonal
Floods»

17:30-
17:45 **Results of round table**

2 october 2024 year

10:00-13:00

Sectional meeting

Audience – Hall of Columns

Time, ауд.	Name of section
<u>10:00-13:00</u>	«Geoinformation technologies in sustainable development and environmental management »: Chair: Milan Konecny - Doctor of Science, Professor of Geodesy and Cartography, Head of the Laboratory of Cartography and Geoinformatics, Masaryk University (Brno, Czech Republic); Co-Chair: Victor Bai - президент IAEM (г. Шанхай, Китай); Secretary: Abdygaliyeva Almagul Kayyrkanovna – Lecturer at the School of Earth Sciences, D. Serikbayev East Kazakhstan Technical University
10:00-10:15	CONCEPT FOR THE CREATION OF A SERIES OF INTEGRATED CARTOGRAPHIC WORKS FOR THE TERRITORY OF EAST KAZAKHSTAN - PEREMITINA SVETLANA VASILYEVNA (Senior Researcher, Ust-Kamenogorsk Branch of the Kazakh Geographical Society, Kazakhstan)
10:15-10:30	ECOLOGICAL ISSUES OF THE EAST KAZAKHSTAN REGION - SOVETKHANOV DAUREN ERLANULY (Chief Specialist, "Asian Environmental Auditing Company" LLP, Kazakhstan)
10:30-10:45	АКТУАЛЬНЫЕ ПРОБЛЕМЫ ПРОМЫШЛЕННОЙ И ПОЖАРНОЙ БЕЗОПАСНОСТИ В ВОСТОЧНОМ КАЗАХСТАНЕ - SIDELEV VALERY ALEXANDROVICH (Chief Specialist, "Asian Environmental Auditing Company" LLP, Kazakhstan)
10:45-11:00	ӨСКЕМЕН ҚАЛАСЫНЫҢ АТМОСФЕРАЛЫҚ АУАСЫНЫҢ ЖАҒДАЙЫН ГЕОАҚПАРАТТЫҚ ЖҮЙЕЛЕР НЕГІЗІНДЕ БАҒАЛАУ - АМАНГЕЛДЫ НАЗЕРКЕ (Advisor to the Director, "ASS Korgan" LLP, Kazakhstan)
11:00-11:30	Coffee break
11:30-11:45	GIS "CLIMATE SECURITY PASSPORT OF THE REPUBLIC OF ADYGEA" - VARSHANINA TATYANA PAVLOVNA ssociate Professor, Head of the Center for Intelligent Geoinformation Technologies, Adyghe State University, Russia), O.A. Plisenko, E.P. Shtelmakh (online presentation)
11:45-12:00	QUANTITATIVE ASSESSMENT OF SOIL LOSS DUE TO WATER EROSION ON HEAVILY PLOWED SOILS (UPPER OKA BASIN) - TROFIMETS LYUBOV NIKIFOROVNA (PhD in Geography, Associate Professor, Orel State University named after I.S. Turgenev, Russia), E.A. Panidi, N.N. Chaadaeva, A.P. Tyapkina, A.M. Saraeva, A.V. Tarasov, A.O. Barkalov, A.I. Petelko (online presentation)

12:00- REGIONAL ASSESSMENT OF LAND USE TRANSFORMATION
12:15 TRAJECTORIES BASED ON GEOSPATIAL DATA (EXAMPLE OF YAROSLAVL REGION) - **ALEXEEVA NINA NIKOLAEVNA** (PhD in Geography, Acting Head of the Department, Associate Professor, Lomonosov Moscow State University, Russia), A.I. Bancheva, Y.S. Grinfeldt, D.A. Tretyachenko (online presentation)

12:15- APPROACHES TO THE CREATION OF A REGIONAL GEOGRAPHIC
12:30 INFORMATION RESOURCE IN ALTAI KRAI - **ROTANOVA IRINA NIKOLAEVNA** (PhD in Technical Sciences, Associate Professor, Altai State University, Russia)

12:30- CHALLENGES IN THE DEVELOPMENT AND IMPLEMENTATION OF
12:45 PROJECTS FOR DEFINING AND DELIMITING SANITARY PROTECTION ZONES AROUND INDUSTRIAL FACILITIES IN UST-KAMENOGORSK AND ABAI REGION, REPUBLIC OF KAZAKHSTAN – **KLISHINA MARINA MIKHAILOVNA** (Head of the Cadastral Department, "Project Stroy Company" LLP, Kazakhstan)

12:45- INNOVATIVE TECHNOLOGY FOR ASSESSING SANDY SOIL
13:00 DESERTIFICATION, LAND DEGRADATION BY SPECIALIZED PROCESSING OF SPACE MATERIALS – **APSHIKUR BAYTAK** (Ph.D., Professor of the School of Earth Sciences of D. Serikbayev EKTU, Kazakhstan), M.M. Alimkulov, A.K. Kapasov, I.T. Toleubek

13:00- ASSESSMENT OF INDUSTRIAL AIR POLLUTION IN UST-
13:15 KAMENOGORSK USING GIS TECHNOLOGIES - **KAPASOV AZAMAT KAISAROVICH** (Lecturer at the School of Earth Sciences, D. Serikbayev East Kazakhstan Technical University, Kazakhstan), V.A. Maksimov, I.T. Toleubek, M.M. Alimkulov

13.15-

14.30 Lunch

14:30- Excursion to the University Centers and Laboratories

17:00

10:00-13:00 Sectional meeting

Audience – G1-101

10:00-13:00 «Application of GIS and Remote Methods for Data Analysis and Monitoring»:

Chair: Seredovich Vladimir Adolfovich – PhD in Technical Sciences, President of the Association of Construction Organizations of the Novosibirsk Region, Novosibirsk, Russia

CoChair: Karel Vach, Chair of ISPRS WG V/6, General Director of EuroGV, General Director of PHEDCS, Prague, Czech Republic

Secretary: Seilkhanova Aliya Bakytovna – Lecturer, School of Earth Sciences, D. Serikbayev East Kazakhstan Technical University

10:00-10:15 ANALYSIS OF REMOTE SENSING DATA TO ASSESS KARST HAZARD FOR THE CONSTRUCTION OF THE MEZMAI-LAGONAKI HIGHWAY (KRASNODAR REGION) - **LAVRUSEVICH ANDREY ALEXANDROVICH** (Doctor of Geological-Mineralogical Sciences, Senior Researcher, All-Russian Research Institute for Civil Defense and Emergency Situations, Russia), T.S. Aleshina, O.A. Vadachkoria, I.A. Lavrusevich, L.N. Trofimets, E.A. Mashkova, S.V. Shendypina (online presentation)

10:15-10:30 SPATIAL ANALYSIS AND MAPPING OF POTENTIAL WILDFIRES FROM LANDSAT SATELLITE DATA - **ASYLKHANOVA ZHANNA ALEXANDROVNA** (Vice-Dean, D. Serikbayev East Kazakhstan Technical University, Kazakhstan), B. Apshikur, E.A. Asangaliyev, M.A. Alimkulov, S.S. Lutay

10:30-10:45 APPLICATION OF HIGH-PRECISION POSITIONING METHOD FOR AERIAL PHOTOGRAMMETRIC SURVEYS DURING ENGINEERING SURVEYS - **SERGEY ADAMOVICH TESLENOK** (PhD in Geographical Sciences, Associate Professor, Yugra State University, Russia), A.K. Kovalenko, L.G. Kalashnikova, O.F. Bogdashkina, P.S. Dmitriev, A.A. Skurikhin, I.A. Fomin

10:45-11:00 ASSESSMENT OF SOIL EROSION POTENTIAL BASED ON UAV DATA AND ITS RELATION TO HUMUS CONTENT IN EXPERIMENTAL FIELDS - **MUDRYKH NATALYA MIKHAILOVNA** (PhD in Agricultural Sciences, Associate Professor, Perm State Agrarian and Technological University, Russia), I.A. Samofalova, A.N. Chashin (online presentation)

11.00-11.30 **Coffee break**

11.30-13.00 «Geoinformation Technologies in Socio-Economic and Urban Studies»:

Chair: Tikunov Vladimir Sergeyeovich – Doctor of Geographical Sciences, Professor, Faculty of Geography, Lomonosov Moscow State University, Head of the Laboratory of Integrated Cartography and the Regional

	Center for World Data Systems, Moscow, Russia
G1-101	CoChair: Markova Olga Ivanovna – PhD in Geography, Senior Researcher, Faculty of Geography, Moscow State University, Moscow, Russia Secretary: Okasova Anar Dauletbekovna – Lecturer, School of Earth Sciences, D. Serikbayev East Kazakhstan Technical University
11:30-11:45	DEVELOPMENT AND CREATION OF A TEACHING AID – THE ATLAS OF EAST KAZAKHSTAN FOR SECONDARY SCHOOLS - KAISINA MAKPAL ISATAEVNA (Master's degree, Senior lecturer at the School of Earth Sciences, D. Serikbayev EKTU, Kazakhstan), S.V. Peremitina, A.V. Egorina, G.K. Daumova, L.A. Lineva, A.S. Chursin, A.V. Pavlenko
11:45-12:00	CREATION OF A DATASET FOR STUDYING THE SPATIAL-TEMPORAL DYNAMICS OF HOUSING CONSTRUCTION BASED ON GIS.HOUSING UTILITIES: PRINCIPLES, TOOLS, RESULTS - LOTVINOV ILYA ALEXANDROVICH (Research Assistant, St. Petersburg State University, Russia), S.S. Lachininsky (online presentation)
12:00-12:15	LEGAL BUSINESS GEOGRAPHY IN RUSSIA: REGIONAL ANALYSIS AND MAPPING USING TAX SERVICE OPEN DATA - SEMYON PAVEL OLEGOVICH (PhD Student, Perm State National Research University, Russia) (online presentation)
12:15-12:30	SPREAD OF CHRISTIANITY IN ABKHAZIA BASED ON SPATIAL ANALYSIS OF MONUMENTS IN GIS DURING THE LATE ANTIQUE AND MEDIEVAL PERIODS - TREBELEVA GALINA VIKTOROVNA (PhD in History, Institute of Archaeology, Russian Academy of Sciences, Russia), S.M. Sakania (online presentation)
12:30-12:45	GEOGRAPHIC INFORMATION METHOD FOR IDENTIFYING AND ANALYZING CONCENTRATIONS OF TRAFFIC ACCIDENTS - GORDIENKO LARISA VLADIMIROVNA (PhD in Technical Sciences, Associate Professor, Southern Federal University, Russia), L.A. Israilev (online presentation)
12:45-13:00	IMPLEMENTATION OF NEW FASTENING TYPES, DEVELOPMENT OF DEPOSITS - SHAKIRTOV RUSTAM MURATOVICH (Scientific Director, R&D Department, LLP Expert PRO, Kazakhstan)
13:00-13:15	APPLICATION OF MACROMINE FOR OPEN-PIT MINING DEVELOPMENT - GEPPER EVGENY (Chief Project Engineer, LLP "Kaznedroproekt")
13.15-14.30	Lunch
14.30-17.00	Excursion to the University Centers and Laboratories

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09.00 - 17.00

**Excursion to the historical and archeological complex “Ak Bauyr”,
Siberian Lakes:**

9:00 - Going out of town:

- stop at the historical and archeological complex “Ak Bauyr”
- drive to the Sibinskie Lakes
- stop at Shalkar Lake, lunch
- stop at Korzhinkol Lake, climbing the mountain

17:00 - Going out on the town.

