



EAGE



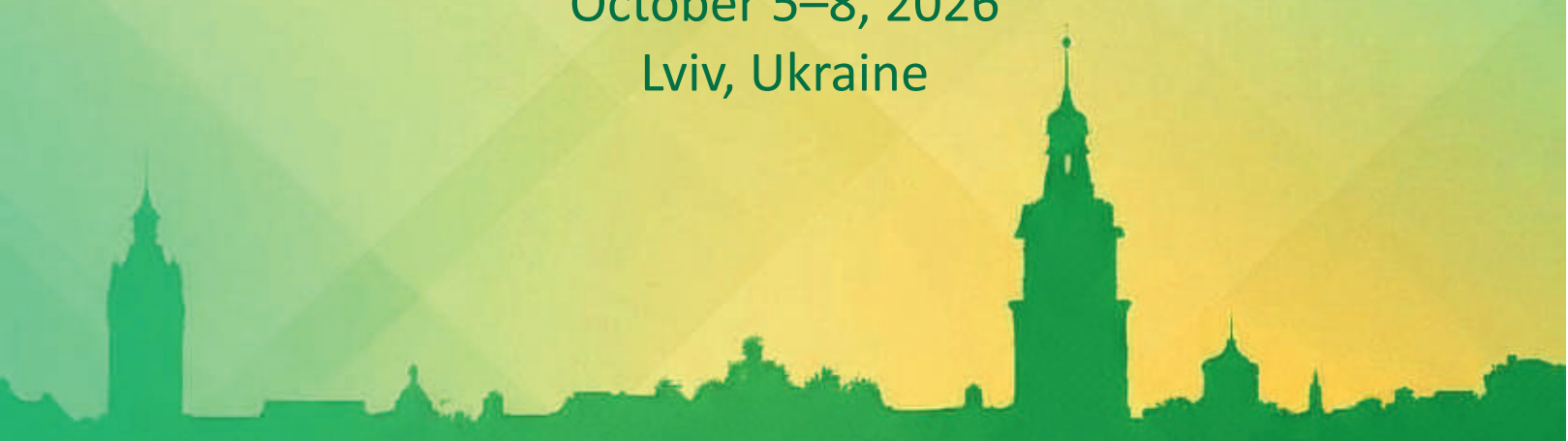
Geo Terrace Conference

INTERNATIONAL CONFERENCE OF YOUNG PROFESSIONALS

«GEOTERRACE 2026»

October 5–8, 2026

Lviv, Ukraine



CONFERENCE PROGRAMME

EVENT PROGRAM

MONDAY, OCTOBER 05, 2026		
09 ⁰⁰ -10 ³⁰	Participant registration	<i>L.I.S." – Learning Inspiring Space of Lviv Polytechnic National University, 📍 2/4 Starosolskykh Street, Academic Building 1</i>
10 ³⁰ -11 ⁰⁰	Ceremonial opening	
11 ⁰⁰ -12 ⁰⁰	Panel discussion – AI and Geosciences: From Geospatial Data to Intelligent Solutions	
12 ⁰⁰ -13 ⁰⁰	Scientific Tour – Astronomical observatory of Lviv Polytechnic National University	<i>Astronomical observatory of Lviv Polytechnic National University, 📍 12 Bandery Street, Main Academic Building, Room 346</i>
13 ⁰⁰ -14 ⁰⁰	Lunch break	
14 ⁰⁰ -15 ²⁰	Oral session - War Damage Assessment and Post-War Reconstruction 📍 6 Starosolskykh Street, Academic Building 2, Room 616	Oral session - Geodetic and Satellite Technologies for Engineering and Deformation Monitoring 📍 6 Starosolskykh Street, Academic Building 2, Room 619
15 ¹⁵ -15 ³⁰	Coffee break 📍 6 Starosolskykh Street, Academic Building 2, Room 617	
15 ⁴⁰ -17 ⁰⁰	Oral session - War Damage Assessment and Post-War Reconstruction 📍 6 Starosolskykh Street, Academic Building 2, Room 616	Oral session - Geodetic and Satellite Technologies for Engineering and Deformation Monitoring 📍 6 Starosolskykh Street, Academic Building 2, Room 619
17 ⁰⁰ -19 ⁰⁰	Icebreaker dinner <i>"L.I.S." – Learning Inspiring Space of Lviv Polytechnic National University 📍 2/4 Starosolskykh Street, Academic Building 1</i>	

TUESDAY, OCTOBER 06, 2026		
09 ⁰⁰ -10 ⁵⁰	Oral session - Digital technologies for Agricultural and Spatial Territory Planning 📍 6 Starosolskykh Street, Academic Building 2, Room 616	Oral session – Earth Surface Processes, Geodynamics, and Subsurface Exploration 📍 6 Starosolskykh Street, Academic Building 2, Room 619
10 ⁵⁰ -11 ¹⁰	Coffee break 📍 6 Starosolskykh Street, Academic Building 2, Room 617	
11 ¹⁰ -13 ⁰⁰	Oral session - Digital technologies for Agricultural and Spatial Territory Planning 📍 6 Starosolskykh Street, Academic Building 2, Room 616	Oral session – Earth Surface Processes, Geodynamics, and Subsurface Exploration 📍 6 Starosolskykh Street, Academic Building 2, Room 619
13 ⁰⁰ -14 ⁰⁰	Lunch break	Meeting of the EAGE Local Young Professionals Chapter in Lviv <i>Astronomical observatory of Lviv Polytechnic National University 📍 12 Bandery Street, Main Academic Building, Room 346</i>
14 ⁰⁰ -16 ⁰⁰	Oral session - Remote Sensing for Environmental Monitoring 📍 6 Starosolskykh Street, Academic Building 2, Room 616	Oral session – GIS Technologies and AI for Decision-Making and Management 📍 6 Starosolskykh Street, Academic Building 2, Room 619
16 ⁰⁰ -16 ²⁰	Coffee break 📍 6 Starosolskykh Street, Academic Building 2, Room 617	
16 ²⁰ -18 ³⁰	Oral session - Remote Sensing for Environmental Monitoring 📍 6 Starosolskykh Street, Academic Building 2, Room 616	Oral session – GIS Technologies and AI for Decision-Making and Management 📍 6 Starosolskykh Street, Academic Building 2, Room 619

WEDNESDAY, OCTOBER 07, 2026		
09 ⁰⁰ -10 ⁰⁰	Scientific seminar – Monitoring of deformation processes in the territories of nuclear power plants	<i>Astronomical Observatory of Lviv Polytechnic National University 📍 12 Bandery Street, Main Academic Building, Room 346</i>
10 ⁰⁰ -11 ⁰⁰	Scientific seminar – Innovative approaches to monitoring technogenic risks	
11 ⁰⁰ -11 ³⁰	Summarizing the results of the conference	

MONDAY, OCTOBER 05, 2026

Oral session - War Damage Assessment and Post-War Reconstruction

6 Starosolskykh Street, Academic Building 2, Room 616

Chair of Section: dr. O. Zayats

Section Secretary: dr. M. Biala

14⁰⁰-17⁰⁰

- [\[GeoTerrace-2026-016\]](#) **Spatial Analysis of Housing Price Dynamics under Wartime Risk Conditions: A Case Study of Kharkiv (2021–2025)** *K. Buhay, I. Stakhiv, V. Zatserkovnyi, T. Pastushenko (Taras Shevchenko National University of Kyiv), I. Tsyguliiov (National University of Bioresources and Nature Management of Ukraine)
- [\[GeoTerrace-2026-024\]](#) **Surface Water Transitions of the Former Kakhovka Reservoir, 2021-2026, Based on Sentinel-1 Data at Annual Temporal Resolution** *Ye. Sazonenko, L. Pidgorodetska, L. Kolos, O. Fedorov. (Space Research Institute of the NAS of Ukraine and SSA of Ukraine)
- [\[GeoTerrace-2026-030\]](#) **The Impact of Military Operations on the Spatial Heterogeneity of the Content of Mobile Zinc Compound in Soils of the Sumy Region** *M. Hunchak (Chernivtsi Regional Center of the State Institution "Institute of Soil Protection of Ukraine"), O. Hryshchenko, R. Palamarchuk (State Institution "Institute of Soil Protection of Ukraine"), A. Bortnik (Northwestern Interregional Center of the State Institution "Institute of Soil Protection of Ukraine")
- [\[GeoTerrace-2026-033\]](#) **Introducing Belligerive-Recreational Systems: A Spatial Analytical Framework and Clustering Approach for Post-War Smart Specialisation in Kyiv Oblast, Ukraine** *V. Udovychenko, L. Bilous, I. Petrovskyi (Taras Shevchenko National University of Kyiv)
- [\[GeoTerrace-2026-035\]](#) **Spectral Characterization of Post-Fire Landscape Changes in Combat Zones Using Multitemporal Satellite Imagery** *A. Marchenko, I. Tsyhanenko-Dziubenko, T. Nazarenko, N. Ventsel (Zhytomyr Polytechnic State University)
- [\[GeoTerrace-2026-039\]](#) **Identification of Destroyed and Damaged Residential Buildings in the City of Mariupol Using Sentinel-2 Satellite Imagery** *A. Prokopchuk, O. Yanchuk, A. Kibysh, P. Bilchuk (National University of Water and Environmental Engineering)
- [\[GeoTerrace-2026-048\]](#) **Comprehensive 3D Documentation and Modeling of a Ruined Wooden Church in the Village of Vyazivka for Cultural Heritage Preservation** I. Savchyn, *N. Danyliv, M. Biliavskyi (Lviv Polytechnic National University)
- [\[GeoTerrace-2026-058\]](#) **The Impact of Natural and Anthropogenic Factors on the Chemical Composition of Groundwater in the Kakhovka Reservoir Area** *D. Korniienko, I. Koliabina, I. Romaniuk (Institute of Geological Sciences NAS of Ukraine)
- [\[GeoTerrace-2026-072\]](#) **Monitoring the Dynamic Impact of Autonomous Generators on a Historic Building in an Emergency Condition** *T. Kril, D. Savchuk (Institute of Geological Sciences, NAS of Ukraine)
- [\[GeoTerrace-2026-077\]](#) **A Spatial Forensics Framework for Assessing Direct Impacts and Ambient Conditions of Warfare: Pilot Methodology and Field Validation in Lviv, Ukraine** *Phi Do (University of London) M. Biala, B. Chetverikov, Ye. Shylo, Yu. Petryk (Lviv Polytechnic National University)

MONDAY, OCTOBER 05, 2026

Oral session - Geodetic and Satellite Technologies for Engineering and Deformation Monitoring

6 Starosolskykh Street, Academic Building 2, Room 619

Chair of Section: dr. S. Doskich

Section Secretary: dr Yu. Petryk

14 ⁰⁰ -17 ⁰⁰	[GeoTerrace-2026-020] Seasonal Variations of GNSS Zenith Tropospheric Delay at the VARA Station in the Rivne NPP Region *S. Doskich (Lviv Polytechnic National University)
	[GeoTerrace-2026-007] Geometric monitoring and assessment of the deformation state of a bridge structure under intense load conditions O. Zhuk, B. Palamarchuk, *I. Openko, O. Chumachenko, R. Tykhenko (National University of Life and Environmental Sciences of Ukraine)
	[GeoTerrace-2026-014] SHM Monitoring of Historical Buildings for Rapid Assessment of Structural Condition after Blast Events *D. Savchuk (Kyiv National University of Construction and Architecture), T. Kril (Institute of Geological Sciences, NAS of Ukraine), I. Cherevko (National Reserve "Kyiv-Pechersk Lavra")
	[GeoTerrace-2026-019] Methodology for Creating Digital Twins of Buildings Based on a Combination of LiDAR and HBIM Technologies (Case Study of Cultural Heritage Sites) *M. Kyryliuk (State Scientific Institution "Center for Problems of Marine Geology, Geoecology and Sedimentary Ore Formation of the NAS of Ukraine", Kyiv), E. Bondarenko (Taras Shevchenko National University of Kyiv)
	[GeoTerrace-2026-047] Optimization of High-Precision Geometric Levelling Methodology for Monitoring Vertical Deformations of Building and Structure Foundations under Dynamic and Wartime Impacts I. Trevoho (Lviv Polytechnic National University), E. Ilkiv, Ye. Ripetskyi (Ivano-Frankivsk National Technical University of Oil and Gas), *P. Purlo (Lviv Polytechnic National University), Ie. Lavrishko (TzoV "Mirnychy").
	[GeoTerrace-2026-052] Machine Learning-Based Identification of Factors Influencing GNSS Time Series Anomalies: A Case Study of the Dnister Hydropower Complex O. Haidus, *I. Brusak (Lviv Polytechnic National University)
	[GeoTerrace-2026-055] Refinement of Building Digital Model Parameters Based on Engineering Geodetic Data *M. Yakovenko, I. Ben, Y. Zorin, Y. Zelenko, O. Lisenyi (State Research Institute of Building Constructions)
	[GeoTerrace-2026-063] Construction Surveying for Setting out Complex Structures in Mountainous Terrain *R. Oleskiv, V. Mychailishyn, T. Koliadzhyn (Ivano-Frankivsk National Technical University of Oil and Gas)
	[GeoTerrace-2026-064] Geodetic Monitoring of Vertical Deformations in the City Cardiology Hospital Building in the town of Bryukhovychi During Reconstruction *I. Savchyn, Ye. Poberezhnyi, I. Brusak (Lviv Polytechnic National University)
	[GeoTerrace-2026-071] Predicting Land Subsidence over Underground Mining Excavations Using Approximate Mathematical Modelling: A Case Study of the Kalush-Golyn Deposit M. Hrynishak, V. Mykhailishyn, O. Gera, *L. Dorosh, (Ivano-Frankivsk National Technical University of Oil and Gas)
	[GeoTerrace-2026-075] Relocating the Lysenia Cave: Geodetic, Geological, and Geodynamic Aspects of the Region *A. Vivat, I. Bubniak, A. Bubniak, P. Boretskyy, T. Marko (Lviv Polytechnic National University)

TUESDAY, OCTOBER 06, 2026

Oral session - Digital technologies for Agricultural and Spatial Territory Planning

6 Starosolskykh Street, Academic Building 2, Room 616

Chair of Section: Dr. M. Malanchuk

Section Secretary: dr. M. Biala

09⁰⁰-13⁰⁰

- [\[GeoTerrace-2026-003\]](#) **Risk-Adjusted Normative Monetary Valuation of Agricultural Land in Landslide-Prone Mountain Areas: A GIS-Based Multi-Criteria Approach** *Y. Lototskyi, I. Bodnaruk, D. Kasiyanchuk (Ivano-Frankivsk National Technical University of Oil and Gas)
- [\[GeoTerrace-2026-011\]](#) **Geodetic Support for the Placement of Renewable Energy Facilities within the Territorial Planning System** *D. Khainus (State Biotechnological University), N. Komarova (Bila Tserkva National Agrarian University), J. Valčiukienė (Vytautas Magnus University), O. Kniaz (State Biotechnological University), A. Drobenko (Lviv Polytechnic National University)
- [\[GeoTerrace-2026-012\]](#) **GIS Approaches to Spatial Planning for Renewable Energy Facility Siting** *I. Koshkalda, O. Dombrovska (State Biotechnological University), N. Stoiko (Stepan Gzhytskyi National University of Veterinary Medicine and Biotechnologies), K. Kurowska (University of Warmia and Mazury), V. Derevianko (State Biotechnological University)
- [\[GeoTerrace-2026-021\]](#) **Study of Grain Harvester Operating Speed Modes Based on GIS and GNSS Data** *P. Shostak, V. Zatserkovnyi, V. Vorokh, I. Siuiva, T. Mironchuk (Taras Shevchenko National University of Kyiv)
- [\[GeoTerrace-2026-025\]](#) **Use of UAVs in Creating a Functional Zoning Plan for the Territory** V. Sai, *L. Vynarchyk, N. Stupen, Yu. Surmach (Lviv Polytechnic National University)
- [\[GeoTerrace-2026-032\]](#) **Assessment of Spatial Heterogeneity in Maize Crops Using the dSAVI, NDVI, SAVI, OSAVI, and MSAVI Indices** *N. Bonchkovska, V. Zatserkovnyi, V. Vorokh, O. Liashchenko (Taras Shevchenko National University of Kyiv), L. Ilyin (Lesya Ukrainka Volyn National University)
- [\[GeoTerrace-2026-038\]](#) **Analysis of Spatial Variability in Vegetation Cover Using NDVI and dSAVI Indices with Climatic Conditions Taken into Account** *A. Myhalenko, I. Stakhiv, V. Vorokh, T. Pastushenko (Taras Shevchenko National University of Kyiv), O. Nikolaienko (National State University "Kyiv Aviation Institute")
- [\[GeoTerrace-2026-041\]](#) **Analysis of the Distribution of Invasive Plant Species on Agricultural Lands in the Carpathian Region** *B. Chetverikov, M. Biala, Yu. Petryk, I. Zayats (Lviv Polytechnic National University)
- [\[GeoTerrace-2026-045\]](#) **Integration of CLUE-S and ANN Models for Geospatial Prediction of Soil Fertility Dynamics (on the Example of Cherkasy region)** *D. Sopov (Odesa State Agrarian University), N. Sopova (State Biotechnological University), O. Malashchuk, V. Fomenko, Y. Tarakanova (Odesa State Agrarian University)
- [\[GeoTerrace-2026-046\]](#) **Assessment of Anthropogenic Load on the Land and Landscape of Cherkasy Region Using GIS Technologies** *D. Sopov (Odesa State Agrarian University), N. Sopova (State Biotechnological University), T. Movchan, I. Leonidova, K. Pavlenko (Odesa State Agrarian University)
- [\[GeoTerrace-2026-049\]](#) **Dynamics of Winter Wheat Crop Condition under Adverse Agrometeorological Conditions Based on Satellite Monitoring Data** V. Moshynskiy, S. Vozniuk, N. Vozniuk (National University of Water and Environmental Engineering), *V. Skyba (Dmytro Motorniy Tavria State Agrotechnological University), O. Likho (National University of Water and Environmental Engineering)
- [\[GeoTerrace-2026-074\]](#) **Use of Remote Sensing Data for the Ecological and Economic Assessment of Sunflower Cultivation Conditions in Ukraine** *V. Skyba (Dmytro Motorniy Tavria State Agrotechnological University), I. Abramova (Zhytomyr Polytechnic State University), N. Vozniuk, S. Vozniuk (National University of Water and Environmental Engineering), E. Aiubova (Dmytro Motorniy Tavria State Agrotechnological University)
- [\[GeoTerrace-2026-076\]](#) **Landscape-Ecological Analysis for Sustainable Rural Development** L. Bilous, V. Samoilenko, V. Udovychenko, *N. Nahorna, K. Gura (Taras Shevchenko National University)
- [\[GeoTerrace-2026-078\]](#) **Digital Technologies to Support Sustainable Orchard Land Use in Ukraine's Territorial Communities** M. Malashevskiy, O. Kishchak (National Academy of Agrarian Sciences of Ukraine), *O. Malashevskya (National University of Life and Environmental Sciences of Ukraine), Y. Kishchak, A. Slobodianiuk (National Academy of Agrarian Sciences of Ukraine)

TUESDAY, OCTOBER 06, 2026

Oral session – Earth Surface Processes, Geodynamics, and Subsurface Exploration

6 Starosolskykh Street, Academic Building 2, Room 619

Chair of Section: dr. Iu. Lukianchenko

Section Secretary: dr Yu. Petryk

09⁰⁰–13⁰⁰

[\[GeoTerrace-2026-006\]](#) **Software Tools for the Automated Correlation of Geological Well Sections** V. Volovetskyi (Joint Stock Company "Ukrtransgaz") *Y. Romanyshyn (Ivano-Frankivsk National Technical University of Oil and Gas) A. Levytskyi (King Danylo University) V. Sheketa, I. Matsiuk (Ivano-Frankivsk National Technical University of Oil and Gas)

[\[GeoTerrace-2026-027\]](#) **Satellite-Based Assessment of Post-Disaster Landscape Renaturalization in the Former Kakhovka Reservoir (2023–2026)** *Ye. Tsyhanok (Taras Shevchenko National University of Kyiv), K. Kinash (Ivan Franko National University of Lviv), Y. Temchenko (Taras Shevchenko National University of Kyiv)

[\[GeoTerrace-2026-043\]](#) **Numerical Modelling of Changes in Local Seismic Site Response During Progressive Tailings Dam Raising** *I. Viktosenko (Charles University), M. Doybnich, O. Tiapkin, S. Yaremii (Dnipro University of Technology), P. Pihulevskyi (Subbotin Geophysics Institute, National Academy of Sciences of Ukraine)

[\[GeoTerrace-2026-044\]](#) **Relativistic Geodesy: How Atomic Clocks Measure Height** *Iu. Lukianchenko, O. Lopushanskyi, M. Gumennyi, K. Semchenko (West Ukrainian National University)

[\[GeoTerrace-2026-051\]](#) **Seismic Indicators of Potential Gas Hydrate Manifestations in the Black Sea** *Y. Korniiichuk (Taras Shevchenko National University of Kyiv)

[\[GeoTerrace-2026-061\]](#) **Automated Processing of Daily GNSS Coordinate Time Series: Data Correction, Velocity Estimation and Grouping of Station Motion** *A. Paikush, I. Savchyn (Lviv Polytechnic National University)

[\[GeoTerrace-2026-068\]](#) **Integrated Geophysical Surveying for Landslides on the Slopes of the Kyiv-Pechersk Lavra Using Electrical Resistivity Tomography and Self-Potential Methods** *Y. Kovalenko, D. Bezrodnyi (Taras Shevchenko National University of Kyiv).

[\[GeoTerrace-2026-070\]](#) **Modern Lacustrine Sediments of Ukrainian Polissia and their Classification** * O. Ilyina, L. Ilyin (Lesya Ukrainka Volyn National University)

[\[GeoTerrace-2026-073\]](#) **Features of Chemical Composition of Drainage Waters of St Andrew's Church and Kyiv-Pechersk Lavra Territories** Ye. Dramaretskyi, *K. Yaroshenko, I. Koliabina (Institute of Geological Sciences of National Academy of Sciences of Ukraine), V. Saprykin (National Preserve "Kyiv-Pechersk Lavra"), N. Molochkova (National Conservation Area "St. Sophia of Kyiv")

[\[GeoTerrace-2026-080\]](#) **Verification of Hypocenter of Technogenic Karst-collapse Earthquake in Stebnyk (Western Part of Ukraine) on the Instrumental Data** *A. Nazarevych (Carpathian Branch of Subbotin Institute of Geophysics of NAS of Ukraine), L. Nazarevych (S. Subbotin Institute of Geophysics of NAS of Ukraine), M. Levachov (Carpathian Branch of Subbotin Institute of Geophysics of NAS of Ukraine)

[\[GeoTerrace-2026-081\]](#) **Recent Crustal Deformation and Geodynamic Processes in the Lviv Region Derived from GNSS Observations** *I. Brusak, V. Lozynskyi (Lviv Polytechnic National University), V. Brusak (Ivan Franko National University of Lviv)

[\[GeoTerrace-2026-084\]](#) **Hydrological Loading in GNSS Vertical Displacement Time Series: An Amplitude–Phase Analysis in Western Part of Ukraine** M. Forostyna, B. Dzuman, *S. Doskich (Lviv Polytechnic National University)

TUESDAY, OCTOBER 06, 2026

Oral session - Remote Sensing for Environmental Monitoring

6 Starosolskykh Street, Academic Building 2, Room 616

Chair of Section: dr. D. Kukhtar and dr. V. Lozynskiy

Section Secretary: A. Hunina

14⁰⁰-18³⁰

[\[GeoTerrace-2026-001\]](#) **Multi-Sensor Satellite Detection of Rapid Landslide Activation in the Ukrainian Carpathians: a Case Study of the January 2024 Event Using Sentinel-1 SAR and Sentinel-2 NDVI in Google Earth Engine** *O. Stelmakh (Ivano-Frankivsk National Technical University of Oil and Gas), K. Hadiatska (Taras Shevchenko National University of Kyiv), L. Shtohryn, D. Kasiyanchuk (Ivano-Frankivsk National Technical University of Oil and Gas)

[\[GeoTerrace-2026-002\]](#) **Geospatial Modeling of Sand Extraction Potential Based on Integrated Topographic and Bathymetric Surveys: A Case Study for the Dnipro River Near Vyshhorod in the Polissia Region of Ukraine** O. Shevchenko, *I. Openko, O. Ozhereliev, O. Pron (National University of Life and Environmental Sciences of Ukraine), Yu. Litvin (Bogomolets National Medical University)

[\[GeoTerrace-2026-004\]](#) **Remote Sensing and GIS-Based Mapping of War-Induced Fires: Evidence from Sumy Region, Ukraine** *M. Zavodiana, O. Sakal (National Academy of Agrarian Sciences of Ukraine), L. Hebryn-Baidy (University of Cambridge), B. Zaiachkivska, V. Bozhok (National University of Life and Environmental Sciences of Ukraine)

[\[GeoTerrace-2026-005\]](#) **A Geospatial Assessment of the Impact of Combat Operations on Atmospheric Air Quality in Radioactively Contaminated Territories** *M. Zavodiana, O. Sakal (National Academy of Agrarian Sciences of Ukraine), L. Hebryn-Baidy (University of Cambridge), B. Zaiachkivska, V. Bondarchuk (National University of Life and Environmental Sciences of Ukraine)

[\[GeoTerrace-2026-022\]](#) **Use of NDVI and NDBI Indices for Assessing Built-Up Areas of Kyiv (Case Study of the Darnytskyi District)** *T. Kostyrko, I. Stakhiv, T. Shovkopliash, T. Pastushenko (Taras Shevchenko National University of Kyiv), I. Tsyguliiov (National University of Bioresources and Nature Management of Ukraine)

[\[GeoTerrace-2026-029\]](#) **The Influence of Land Cover Type and Seasonal Vegetation on Effective Ground Point Density in Airborne Laser Scanning (Using the Example of LiAir V70)** *Y. Vash, M. Nychvyd, I. Kalynych, N. Kablak (Uzhhorod National University) N. Vash (Uzhhorod Scientific Lyceum)

[\[GeoTerrace-2026-036\]](#) **Biophysical Assessment of Lake Ecosystem Services for Flood Regulation** K. Aghaloo, M. Inacio*, P. Pereira (Mykolas Romeris University)

[\[GeoTerrace-2026-037\]](#) **Long-Term Land Cover Change in Kyiv (Ukraine): A Paired Point-based Assessment Using i-Tree Canopy and Google Earth Pro** *Ye. Tsyhanok (Taras Shevchenko National University of Kyiv), K. Kinash (Ivan Franko National University of Lviv), M. Zhokhova (Taras Shevchenko National University of Kyiv)

[\[GeoTerrace-2026-053\]](#) **Monitoring of Deforestation in the Democratic Republic of the Congo in the Kisangani Region Using Earth Observation Data (2017-2026)** I. Honchar, B. Tsibenko, *T. Malik, V. Kravchenia, O. Tsyk (Taras Shevchenko National University of Kyiv)

[\[GeoTerrace-2026-057\]](#) **Investigation of the Urban Heat Islands Formation within the Ivano-Frankivsk Region** V. Baran (Kyiv School of Economics), *L. Davybida (Ivano-Frankivsk National Technical University of Oil and Gas)

[\[GeoTerrace-2026-059\]](#) **GIS/Remote Sensing Analysis of Erosion Potential in Small-River Catchments of the Ukrainian Carpathians for Geoplanning: Topilnychanka and Upper Dniester** *G. Bayrak, O. Dzvonkovska (Ivan Franko National University of Lviv)

[\[GeoTerrace-2026-062\]](#) **Use of the LandViewer Application for Monitoring Catchment Urbanization and the Ecological Status of Lake Basiv Kut** O.Likho (National University of Water and Environmental Engineering), N.Vozniuk, *V. Skyba (Dmytro Motornyi Tavria State Agrotechnological University), S. Vozniuk (National University of Water and Environmental Engineering)

	[GeoTerrace-2026-067] Preliminary Mapping of Potential Wetland Areas and Seasonal Land Surface Temperature Patterns within the Bug–Styr Plain: A Case Study of Sheptytska Hromada *Kh. Marusazh, Yu. Petryk (Lviv Polytechnic National University) [GeoTerrace-2026-069] Spatial and Temporal Monitoring of Rangelands by the Use of Satellite-derived Indices within the Rural Territorial Community S. Kokhan, O. Drozdovskiy (State Institution "Scientific Centre for Aerospace Research of the Earth of the Institute of Geological Sciences of the National Academy of Sciences of Ukraine"), V. Chekhniy (Institute of Geography of the National Academy of Sciences of Ukraine), L. Bilous (Taras Shevchenko National University of Kyiv), *Y. Temna (State Institution "Scientific Centre for Aerospace Research of the Earth of the Institute of Geological Sciences of the National Academy of Sciences of Ukraine") [GeoTerrace-2026-079] Spatio-Temporal Analysis of Land-Cover Dynamics in the Makariv Territorial Hromada, 2021-2025 A. Slipchuk (Institute of Geography of National Academy of Sciences of Ukraine) *P. Hutsova (Ukrainian Researchers Society) [GeoTerrace-2026-082] Monitoring Glacier Dynamics Using Copernicus Data *D. Kukhtar, K. Tretyak (Lviv Polytechnic National University) [GeoTerrace-2026-013] Seasonal Variability of Land Surface Temperature in Halych National Nature Park *O. Hnatiuk, M. Sishchuk (Ukrainian Mountain Forestry Research Institute named after P.S. Pasternak), V. Mahuran, A. Ivaniuk (National Forestry University of Ukraine), L. Kovalska (Vasyl Stefanyk Carpathian National University) [GeoTerrace-2026-017] Automated Air Quality Monitoring Using Sentinel-5P Data and Google Earth Engine: Case Study of Dnipropetrovsk and Zaporizhzhia Regions *A. Andreiev (State Institution "Scientific Centre for Aerospace Research of the Earth of the Institute of Geological Sciences of the National Academy of Sciences of Ukraine"), T. Dudar, D. Malyi (State University "Kyiv Aviation Institute"), O. Titarenko, A. Kozlova (State Institution "Scientific Centre for Aerospace Research of the Earth of the Institute of Geological Sciences of the National Academy of Sciences of Ukraine") [GeoTerrace-2026-018] Environmental Impact on Forest Ecosystems Using Remote Sensing Data: Case Study of Novhorod-Siverske Polissia (Ukraine) T. Dudar (State University "Kyiv Aviation Institute"), S. Stankevich, *O. Titarenko (State Institution "Scientific Centre for Aerospace Research of the Earth of the Institute of Geological Sciences of the National Academy of Sciences of Ukraine"), D. Malyi (State University "Kyiv Aviation Institute") [GeoTerrace-2026-010] Investigation of Surface Water Dynamics Using the NDCI and NDTI Remote Sensing Indices *V. Petrenko, L. Plichko, O. Liashchenko (Taras Shevchenko National University of Kyiv), O. Nikolaienko (National University "Kyiv Aviation Institute"), I. Siuiva (Taras Shevchenko National University of Kyiv)
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TUESDAY, OCTOBER 06, 2026

Oral session – GIS Technologies and AI for Decision-Making and Management

6 Starosolskykh Street, Academic Building 2, Room 619

Chair of Section: Dr. N. Stupen

Section Secretary: L. Vynarchyk

14⁰⁰-18³⁰

- [\[GeoTerrace-2026-008\]](#) **Geoinformation and Automated Systems as the Main Tools for Maintaining a Water Cadastre (Using the Example of the Kharkiv Region)** A. Siedov, *S. Vynohradenko (State Biotechnological University), V. Gurskienė (Vytautas Magnus University), O. Stupen (Stepan Gzhytskyi National University of Veterinary Medicine and Biotechnologies of Lviv), Yu. Pohrebniak (State Biotechnological University)
- [\[GeoTerrace-2026-009\]](#) **AI and GIS Modelling for Agrivoltaic Deployment in Ukraine** *I. Sadovy (State Biotechnological University) A. Celms (Latvia University of Life Sciences and Technologies) T. Anoprienko, A. Riasnianska, K. Lebedieva (State Biotechnological University)
- [\[GeoTerrace-2026-023\]](#) **Geospatial Modelling of Conflict-Induced Urban Landscape Degradation Based on Sentinel-2 Imagery** *O. Miloshkina, T. Malik, V. Kravchenia, O. Tsyvk, D. Liashenko (Taras Shevchenko National University of Kyiv)
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