Programme of the
40th Romanian National Symposium on Geomorphology

3 September 2026

14:00 – 17:00 Young Geomorphologist Day

18:00 – Ice Breaker *(Maimuța Plângătoare Restaurant, 1 Sindicatelor street)*

Young Geomorphologist Day - Monitorizarea țărmurilor cu faleze: O abordare multi-scalară prin scanare laser terestră (TLS) și teledetecție satelitară

Format: prelegere invitată (online) + atelier practic (hands-on)

Introducere

Țărmurile cu faleze sunt printre cele mai dinamice sisteme geomorfologice costiere, unde eroziunea se produce atât prin evenimente bruște (surpări, alunecări), cât și prin procese lente, cumulative. Înțelegerea acestei dinamici cere, însă, observații la scări diferite de timp și de spațiu.

Atelierul de față pornește de la ideea de complementaritate. Scanarea laser terestră (TLS) oferă un nivel de detaliu foarte ridicat asupra formei falezei, dar surprinde practic o radiografie a unui interval scurt de timp. Extragerea liniei țărmului din imagini satelitare are o rezoluție spațială mai modestă și nu prinde schimbările de mică amploare, dar în schimb permite reconstituirea tendinței pe termen lung (în cazul nostru, pe ultimii ~40 de ani). Combinarea celor două abordări oferă imaginea completă: detaliul fin al proceselor actuale, așezat pe traiectoria evoluției de lungă durată.

Pe parcursul celor trei ore, participanții vor parcurge întregul flux de lucru (de procesarea norilor de puncte în CloudCompare și Colab), la aplicarea algoritmilor de extragere a liniei țărmului pe baza imaginilor satelitare, folosind ca studiu aplicat falezele de la 2 Mai.

Program

14:00 – 14:10	**Deschidere** *Prezentarea temei și a obiectivelor atelierului*
14:10 – 14:40	**Prelegere invitată (online) - Florin Tătui** *Dinamica țărmurilor cu faleze: procese, metode și instrumente de analiză*
14:40 – 15:40	**Sesiunea 1 - Florin Miron** *Scanarea laser terestră (TLS): de la achiziția datelor la analiza norilor de puncte* Python · Colab · QGIS · CloudCompare
15:40 – 16:00	**Pauză**
16:00 – 17:00	**Sesiunea 2 - Alexandru Berbecariu** *Extragerea liniei țărmului pe baza imaginilor satelitare cu CoastSat*

	Python · Colab · QGIS · Google Earth Engine

Notă pentru participanți (pentru sesiunile de hands on)

Codurile folosite vor fi puse la dispoziția participanților. Pentru a putea rula scripturile în Colab este de preferat ca fiecare participant să aibă:

- un cont Google;
- spațiu suficient disponibil în contul personal de Google Drive.
- softul CloudCompare: www.cloudcompare.org

4 September 2026

9:00 – 9:15 Opening ceremony (*Amphitheatre of the Faculty of Geography, first floor, room 43*)

9:15 – 9:45 Keynote lecture

Thawing Ground and Shifting Livelihood: Consequences of Permafrost Altitude Recession (PAR) on the Mountain Communities of Lahaul and Spiti, Western Himalaya Sunil Kumar DE

9:45 – 10:00 Coffee break

Oral presentations (Chairs: Mirela Vasile, Pop Olimpiu)

10:00 – 10:15

International Association of Geomorphologists (IAG): 2026-2030 priorities Mihai Micu

10:15 – 10:30

Land Suitability for Future Urban Expansion Relative to Landslide Exposure. A Country-Wide Preventive Modelling for Romania Dan Bălteanu

10:30 – 10:45

Electrical resistivity tomography (ERT) investigations in fluvial deposits and hydrogeological structures in the Lipova area Petru Urdea

10:45 – 11:00

Permafrost degradation at Detunata cold scree after 2020 Răzvan Popescu

11:00 – 11:15 Coffee break

Oral presentations (Chairs: Andrea Gál, Răzvan Popescu)

11:15 – 11:30

Holocene fluvial threshold dynamics: examples of flood-related landscape transitions in Romania Ioana Perșoiu

11:30 – 11:45

The Setbacks Delieneation on the Southern Romanian Coast, After Recent Sand Nourishments Extensions Răzvan Mateescu

11:45 – 12:00

From Channels to Coast: A Geomorphological Case for Evidence-Based Sediment Management in the Danube Delta Florin Tătui

12:15 – 12:30

Restoring Sediment Balance and Its Flow: DANSER - Hydro-geomorphological Framework for Sustainable Danube River–Floodplain-Black Sea Interface Connectivity Nichersu Iulian

12:30 – 12:45

Exposure of Energy and Extractive Infrastructure to Concentrated Runoff in the Berbești-Alunu Area Alexandru Nicolae

12:45 – 14:00 Lunch *(Miko Restaurant, Clinicilor street)*

Oral presentations (Chairs: Ioana Perșoiu, Liviu Buzilă)

14:15 – 14:30

Gully development on saline substratum: A Case Study within Jijia Hills, Moldavian Plateau, Romania Niacșu Lilian

14:30 – 14:45

Four decades of vegetation dynamics in the Danube Delta from a cross-sensor harmonized Landsat archive (1984–2026) Florin Miron

14:45 – 15:00

Morphometric and spatial distribution analysis of dolines in the Ciumerna Massif (Trascău Mountains, NW Romania): Implications for the evolution of Carpathian uvalas in the context of Quaternary climate variability Enoh Constantinescu

15:00 – 15:15

Multidecadal variability of wind and wave direction in the north-western Black Sea (1940-2024): implications on longshore sediment transport in the Danube Delta Andrei Șelăvîrtea

15:15 – 15:30

Quantifying 3D Volumetric Mass Loss of Soft-Rock Shorelines: Insights from 2 Mai, Black Sea Coast Radu Marian

15:30 – 15:45 Coffee break

Oral presentations (Chairs: Ionela-Georgiana Răchită, Daniel Simulescu)

15:45 – 16:00

Coastal erosion in marine protected areas: a global assessment of shoreline retreat rates and their economic consequences Alexandru Berbecariu

16:15 – 16:30

Rethinking Holocene landscape evolution at Olympia (Greece): challenging the palaeolake hypothesis in favour of an open fluvial system Alfred Vespremeanu

16:30 – 16:45

Holocene evolution of the Voidokilia barrier - Gialova lagoon system (SW Peloponnese, Greece): geomorphological development and evidence of extreme marine inundation Mihai Cîrjan

16:45 – 17:00

Snow avalanche and debris flow hazards in Calimani Mountains (Eastern Carpathians, Romania) Pop Olimpiu

17:00 – 17:15 Coffee break

17:15 – 18:00 Poster presentations (Chairs: Renata Feher, Csaba Horvath)

1. *Weathering intensity and rate in the Bihor Massif: geochemical variability and geo-climatic controls* Liviu Buzila

2. *Stable isotope hydrology of karst groundwaters in Romania* Renata Feher

3. *Habitat Degradation Driven by Offroad Tourism in the Briței Crocus heuffelianus Field* Andrea Gál

4. *Terrain Morphology and Snow Redistribution across the Galeșu Rock Glacier, Retezat Mountains: Insights from UAV-SfM and Geomorphometric Analysis* Andrei Ioniță

5. *Reconstructing the Evolution of the Iron Gates Gorge within the Lower Danube System: A Geomorphologist's Personal Perspective* Ioana Perșoiu

6. *Forest structural responses to snow avalanche frequency: integrating tree-ring evidence and UAV photogrammetry* Ionela-Georgiana Răchită

7. *Environmental and landscape transformations induced by lignite mining: Case study of Oltenia Region (Romania)* Daniel Simulescu

8. *Multiple phases of rock glaciers dynamics and stabilization in the Southern Carpathians during Late glacial to Early Holocene derived from absolute and relative dating* Mirela Vasile

9. *Sensitivity of Electrical Resistivity Tomography to Automated Data Processing: A Case Study on the Internal Structure of the Detunata Talus Deposit* Sebastian Pisică

10. *Topographic Channeling and Urban Climate in Bistrița: A Geomorphological Perspective on Heat and Air Quality* Csaba Horvath

19:00 Dinner *(Babeș-Bolyai Restaurant – Piramida, 5 M. Kogălniceanu street)*