

50th annual meeting of the German Society for Geomorphology

9th to 12th October 2024 (2nd circular)

Dear members of the German Society for Geomorphology,
Dear colleagues,

We warmly invite you to the 50th annual meeting of the German Society for Geomorphology at Leipzig University.

DGGM 2024 – Legacies and emerging fields in Geomorphology

The conference is dedicated to the entire research spectrum on geomorphological archives, forms and processes at all possible spatial and temporal scales. We are excited to present a comprehensive program. The conference will feature 6 sessions with a total of 33 talks. Additionally, there will be more than 60 poster presentations covering a wide range of topics.

We have scheduled a dedicated but fully open networking timeslot (Wednesday, 6 pm – 7:15 pm), during which new-to-establish or existing project and workings groups can convene in various open rooms or just share visions and ideas over „legacies and emerging fields in Geomorphology”.

The Ferdinand von Richthofen Gold Medal will be awarded at the 50th annual meeting of the German Society for Geomorphology on Thursday, October 10, 2024 at 5 p.m. The medal is awarded for outstanding achievements in the field of geomorphological research. The DGGM General Assembly will then take place at 5:30 p.m. as part of the annual conference.

We recommend to travel by train to Leipzig. The parking situation around the lecture hall is tense.

We look forward to your participation in Leipzig 2024 and remain with best regards.

Oliver Sass

DGGM chairman

Christoph Zielhofer
Djamil Al-Halbouni

Leipzig Coordinators

DGGM 50th annual meeting in Leipzig - Information

Conference date: Wednesday, 9th October 2024 (12 am) to Friday, 11th October 2024 (4 pm)

Field trips: 12th October 2024 (8 am to 4 pm) Field trip A (Mansfelder Land)
12th October 2024 (8 am to 4 pm) Field trip B (Weiße Elster)

Leadership: Prof. Dr. Christoph Zielhofer, Jun.-Prof. Dr. Djamil Al-Halbouni

Conference office: Lisa Pohlmann, Dr. Birgit Schneider, Dr. Johannes Schmidt

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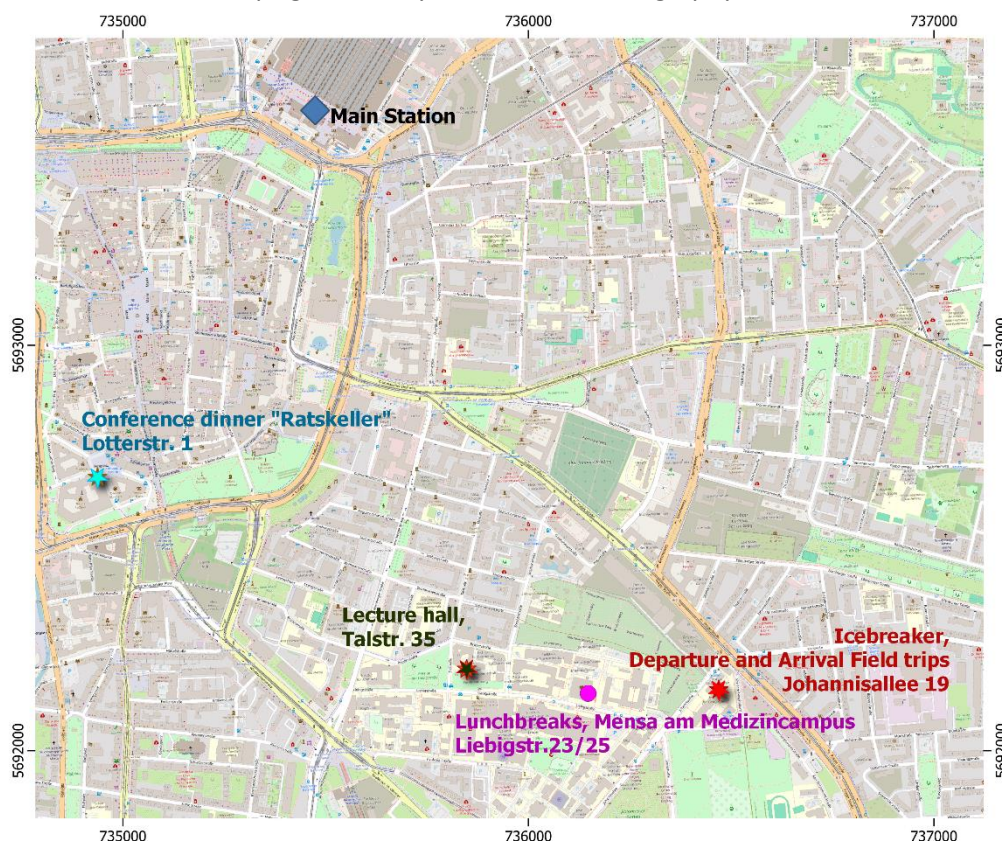
Internet: <https://www.physes.uni-leipzig.de/institut-fuer-geographie/dggm-2024>

Ice Breaker: Wednesday, 9th October 2024, 7.30 pm, Institut für Geographie,
Johannisallee 19a, 04103 Leipzig

Lunch breaks: Mensa am Medizincampus, Liebigstr., 04103 Leipzig

Conference Dinner: Thursday, 10th October 2024, 7:30 pm, Ratskeller, Lotterstr. 1, 04109 Leipzig

Conference location: Leipzig University, Talstraße 35, Geography Lecture Hall, 04103 Leipzig



Timetable DGGM2024

	Wed., 09.10.	Thur., 10.10.	Fri., 11.10.	Sat., 12.10.
08:00-		Conference office	Conference office	Excursion A - Subrosion Mansfelder Land Excursion B - Holocene Dynamic Weisse Elster
09:00-		Session 3b	Session 5b	
10:00-		Session 3c	Session 6a	
11:00-	Registration Conference office	Coffee break	Coffee break	
12:00-	Welcome	Session 3c	Session 6b	
13:00-	Session 1	Lunch break	Lunch break	
14:00-	Poster Session A & Coffee break	Session 4	DGGM awards	
15:00-		Session 5a	Farewell	
16:00-		Poster Session B & Coffee break	Departure Conference office	
17:00-	Session 2	Richthofen medal		
18:00-	Session 3a	General assembly		
19:00-	Networking time			
20:00-	Icebreaker	Conference dinner		

Session 1: "Fluvial Anthropospheres"

Session 2: "Geomorphology towards an anthropogenic world"

Session 3: "Shifting environmental and planetary boundaries"

Session 4: "Palaeofires and Biogeomorphology"

Session 5: "Permafrost dynamics"

Session 6: "Geomorphological hazards"

Schedule

day	time	topic	Session
09.10.	12:00 – 12:20	Welcome	Session 1: Fluvial Anthropospheres Conveners: Wiebke Bebermeier, Jan Blöthe
	12:20 – 12:40	Christoph Zielhofer (Leipzig) <i>On the Way to Fluvial Anthroposphere - Interdisciplinary perspectives of an emerging field</i>	
	12:40 – 13:00	Marie Kaniecki (Leipzig) <i>The fluvial architecture and land-use of the Lower Havel floodplain and bio-geomorphological implications</i>	
	13:00 – 13:20	Bastian Grimm (Giessen) <i>Reconstruction of the Holocene floodplain environment of a mesoscale fluvial catchment: The Wiesent river in Franconia, NE Bavaria / Germany</i>	
	13:20 – 13:40	Anna Holmer (München) <i>Floodplain deposits reveal (pre-)historic land use history of two catchments in the Bavarian Forest, south-east Germany</i>	
	13:40 – 14:10	Poster session A - 1-min, 1-slide presentations	
	14:10 – 16:00	Poster session A + coffee break	Session 2: Geomorphology towards an anthropogenic world Conveners: Magdalena Lauermaier, Joe Schmidt
	16:00 – 16:20	Michael Hein (Leipzig) <i>What the landscape can tell: An integrative, stratigraphic prospection approach for localizing a medieval Black Death mass grave in Erfurt/Germany</i>	
	16:20 – 16:40	Philipp Garbe (Würzburg) <i>Paleoenvironmental reconstruction of the settlement area of ancient Bubastis, southeastern Nile Delta (Egypt)</i>	
	16:40 – 17:00	Manuel Seeger (Trier) <i>Geomorphodynamic changes by land-use change in south Spain</i>	
	17:00 – 17:20	Joel Mohren (Aachen) <i>Plutonium concentrations link soil organic matter decline to wind erosion in ploughed soils of South Africa</i>	
	17:20 – 17:40	Georg Stauch (Würzburg) <i>A 115-year record of anthropogenic changes in the Eifel Mountains based on reservoir sediments</i>	
	17:40 – 18:00	Hans von Suchodoletz (Jena) <i>Holocene overbank sedimentation in Central Europe between natural and human drivers - The Weiße Elster River (Central Germany)</i>	Session 3a
	18:00 – 19:15	Networking time	
	From 19:30	Icebreaker (Johannisallee 19a)	

10.10.	09:00 – 09:20	Jens Jouaux (Berlin) <i>River on the move: fluvial dynamics and paleoenvironmental changes in the traditional settlement area of the Rintelner Becken, Lower Saxony</i>	Session 3b: Shifting environmental and planetary boundary conditions Convener: Stefanie Tofelde, Christian Zeeden
	09:20 – 09:40	Michael Klinge (Göttingen) <i>Welche Umweltveränderungen führen seit 2000 Jahren zur Bildung von Hochwassersedimenten in der Mongolei?</i>	
	09:40 – 10:00	Simon Matthias May (Köln) <i>Terracettes in the hyperarid Atacama Desert - fog-driven landforms of Holocene age?</i>	
	10:00 – 10:20	Maximilian Rau (München) <i>A Central European Landscape Evolution Model Explaining Sudden Drainage Reversals</i>	
	10:20 – 10:40	Georg Veh (Potsdam) <i>Progressively smaller outbursts despite worldwide growth of glacier lakes</i>	
	10:40 – 11:10	Coffee break	Session 3c: Shifting environmental and planetary boundary conditions Convener: Miriam Marzen, Markus Fischer
	11:10 – 11:30	Jacob Hardt (Berlin) <i>Ice-sheet-induced salt movements in Germany - Physical modeling results</i>	
	11:30 – 11:50	Felix Martin Hofmann (Freiburg) <i>Unravelling the timing of the onset of the last deglaciation of the southern Black Forest, SW Germany</i>	
	11:50 – 12:10	Sylvain Pichat (Lyon) <i>The North African margin: a field laboratory for future climate change. Reconstructing paleo-wind circulations using dust provenance</i>	
	12:10 – 12:30	Simon Bitzan (Berlin) <i>Seasonal and site-specific characterization of dust deposition in Western Crete and identification of source areas – first results</i>	
	12:30 – 13:30	Lunch break	Session 4: Palaeofires and Biogeomorphology; Convener: Agnieszka Gruszczynska, Michael Klinge
	13:30 – 13:50	Ramesh Glückler (Potsdam) <i>Wildfire activity may have been mediated by indigenous land use practices since 800 years in the boreal forest of Central Yakutia, Siberia</i>	
	13:50 – 14:10	Magdalena Lauermann (Eichstätt) <i>Semiarid floodplain forest dynamics depend on connectivity: remote sensing time series analysis reveals channel-floodplain connectivity at river corridor scale</i>	
	14:10 – 14:30	Steffen Seitz (Tübingen) <i>Biota and Erosion: Tree Traits, Biological Soil Crusts and Mesofauna Affect Sediment Translocation in Woodlands</i>	

	14:30 – 14:50	Melanie Stammeler (Bonn) <i>Vertical and horizontal surface change detection on Dos Lenguas rock glacier (Argentina): understanding potential permafrost degradation in the Dry Andes</i>	Session 5a
	14:50 – 15:20	Poster session B – 1-min, 1-slide presentations	
	15:20 – 17:00	Poster session B + Coffee break	
	17:00 – 17:30	Ferdinand von Richthofen medal award Ute Wardenga (IfL Leipzig) <i>The career forge - Ferdinand von Richthofen in Leipzig</i>	
	17:30 – 19:00 From 19:30	General assembly DGGM Conference Dinner (Ratskeller)	

11.10.	09:00 – 09:20	Hanne Hendrickx (Dresden) <i>AI-Driven tracking on hourly monoscopic time-Lapse imagery for alpine landform monitoring</i>	Session 5b: Permafrost dynamics; Convener: Michael Angelopoulos, Ramesh Glöckler
	09:20 – 09:40	Michael Krautblatter (München) <i>Does the Fluchthorn massive permafrost rock slope failure answer long-standing questions in permafrost and landslide research?</i>	
	09:40 – 10:00	Djamil Al-Halbouni (Leipzig) <i>Monitoring of Sinkhole Formation – Trends and Perspectives</i>	
	10:00 – 10:20	Nadine Sängler (Halle) <i>Aktuelle Geländesenkung im Großerdfallgebiet Neckendorf (Lutherstadt Eisleben)</i>	Session 6a: Geomorphological hazards; Convener: Melanie Stammeler, Rainer Bell
	10:20 – 10:40	Qi Zhou (Potsdam) <i>Enhancing debris flow warning via machine learning feature reduction and model selection</i>	
	10:40 – 11:10	Coffee break	
	11:10 – 11:30	Sibashish Dash (Potsdam) <i>Seismic Analysis of Precursors and Collapse of the 2 Mm³ Brienz/Brinzauls Rockslide in Switzerland</i>	Session 6b: Geomorphological hazards; Convener: Till Wenzel, Alina Shevchenko
	11:50 – 12:10	Benedikt Müller (Wien) <i>High-accuracy landslide monitoring in densely vegetated slopes: A methodological approach using terrestrial photogrammetry and novel filtering techniques</i>	
	12:10 – 12:30	Ikram Zangana (Bonn) <i>Semi-Automatic Mapping of Forest-Covered Landslides Using Geographic Object-Based Image Analysis (Jena, Germany)</i>	
	12:30 – 12:50	Edoardo Carraro (Wien) <i>Multi-method investigation to characterize kinematic drivers in clay-rich, slow-moving landslides</i>	
	12:50 – 14:00	Lunch break	
	14:00 – 14:45	DGGM awards <i>(Phd award, PostDoc award, Presentation and poster awards)</i>	
	14:45 – 15:00	Farewell	

Poster session A

Wednesday, 09.10.2024

1. **Jussi Baade (Jena)** *The choice of EO-based Digital Elevation Models determines the outcome of soil erosion assessments - Examples from South Africa*
2. **Laura Bergmann (Leipzig)** *Saharan dust supply in the Middle and High Atlas during the African Humid Period and the Holocene*
3. **Florian Betz (Würzburg)** *Remotely sensed riverscapes: Towards a better understanding of complex process regimes in river corridors across multiple spatial and temporal scales through earth observation*
4. **Tara Beuzen-Waller (Perpignan)** *Late Pleistocene to mid Holocene fluvial aggradation in the area of Al Khashbah, southern piedmont of the Hajar Mountains (Oman)*
5. **Alexander Bonhage (Cottbus)** *Historic Raised Bed morphology may still control current soil properties and functions in Ireland*
6. **Elisabeth Dietze (Göttingen)** *Towards inter- and transdisciplinary research on high-mountain land use in the tropical Andes under climate change: the role of landscape dynamics and local knowledge systems*
7. **Charlotte Engelmann (Freiburg)** *Deciphering the Holocene floodplain architecture and the impact of anthropogenic land use along the Kinzig catchment, Germany*
8. **Monique Fahrenberg (Berlin)** *Sedimentation in the Iishana System, Northern Namibia and Southern Angola, using Radionuclide Dating*
9. **Markus Lothar Fischer (Potsdam)** *Climate Constrains on a pan-African Hominid Network Using Cost Raster Modeling*
10. **Agnieszka Gruszczyńska (Leipzig)** *How do Arthropoda in a peat bog respond to a big fire? Results of paleoecological analyses from the Khentii Mountains area*
11. **Jacob Hardt (Berlin)** *Geoarchaeological works in the Sultanate of Tadjoura (Djibouti) - first results*
12. **Felix Henselowsky (Mainz)** *The anthropogenic relief of the Rhenish lignite mining district*
13. **Manuel Herzog (Heidelberg)** *Sedimentological patterns of dunes in the Tafilalet Basin, South-East Morocco*
14. **Marie Kaniecki (Leipzig)** *GIS-Analysis of peat-loss in the Greater Donaumoos Region – consequences from human interventions*
15. **Johannes Keßels (Aachen)** *Settlement and Mining History in the Selke Catchment since the Middle Ages – using historical and geoarchaeological archives.*
16. **Jonathan Kless (Bayreuth)** *Mikroklimatische Einflüsse auf die Verwitterung der Felsenkeller in Weidenberg (Oberfranken)*
17. **Sebastian Kliems (Dresden)** *Bodenkundlich-sedimentologische Untersuchungen in der Jungmoränenlandschaft Brandenburgs im Gebiet der Lebuser Platte nördlich von Briesen/Mark*
18. **Bertil Mächtle (Heidelberg)** *The hidden danger? – Anthrax in the Fluvial Anthroposphere*
19. **Miriam Marzen (Trier)** *Differences in aeolian post-fire redistribution and emission of ash, pyrogenic carbon and unburnt litter from oak (*Quercus robur*) and pine (*Pinus sylvestris*)*
20. **Martin Offermann (Leipzig)** *Extinction of Salmon (*Salmo salar*) in the Mulde River - human-induced deteriorations in river connectivity and structure during the 19th and 20th century AD*
21. **Snjezana Pejdanovic (Tübingen)** *First steps towards the reconstruction of land use in the medieval Fluvial Anthroposphere of the Echaz floodplain (Southwest Germany)*
22. **Johannes Rabiger-Völlmer (Leipzig)** *Evaluation of high-magnitude flood events based on hydro-sedimentary and historical archives in low mountain floodplains - A contribution to current risk assessment*
23. **Zakieh Rashidi Koochi (Würzburg)** *Field based reconstruction of Late Pleistocene-Holocene aeolian-fluvial processes and landscape history in the arid Khur Basin, Central Iran*

24. **Christoph Schay (Dresden)** *Cyclic patterns of Quaternary Vega sequences on the eastern Canary Islands*
25. **Johannes Schmidt (Leipzig)** *Spatiotemporal dynamics of floodplain patterns during the last 400 years south of Leipzig - A regional scale analysis*
26. **Manuel Seeger (Trier)** *Microplastic transport on coarse textured vineyard soils – An experimental and educational approach*
27. **Christian Stolz (Flensburg)** *Celtic fields in Mitteleuropa*
28. **Hans von Suchodoletz (Jena)** *Quantifying the annual mobilization of organic carbon from a Central European upland floodplain - the uppermost Weiße Elster River*
29. **Markus Winkler (Bayreuth)** *The fluvial dynamics of the Röslau River (Fichtelgebirge) – great changes in the modern period?*
30. **Christian Zeeden (Hannover)** *Assessing quantitative paleoprecipitation estimates for the last interglacial in Kashmir, based on rock magnetic proxies*
31. **Ema Zvara (Leipzig)** *First steps towards a multidisciplinary reconstruction of the evolution of the anthropogenic Lake Bleiche in the Eger floodplain in Nördlingen, South Germany*
32. **Ema Zvara (Leipzig)** *Biochemostratigraphy of the Eger floodplain downstream of the medieval town of Nördlingen – probable heavy metal contamination and pollution*

Poster session B

Thursday, 10.10.2024

1. **Michael Angelopoulos (München)** *Geoelectrical Imaging of Coastal Saline Permafrost at Drew Point, Alaska*
2. **Baturalp Arisoy (Würzburg)** *High Performance Desert Analytics: Characterizing Earth surface dynamics in arid regions through 'terabyte' and multi-sensor Earth Observation archives*
3. **Rainer Bell (Bonn)** *Electrical Resistivity Tomography (ERT) Moisture Monitoring on the Müsch Landslide (Ahr valley, Germany)*
4. **Katharina Boie (München)** *Landslide mobility with erosion: simulation with a mechanical model and validation*
5. **Christian Büdel (Würzburg)** *A geomorphological mapping approach to multi-hazard risk zonation in mountainous areas of North Tehran, Iran*
6. **Manon Cramer (Bonn)** *Subsurface pattern and potential permafrost content of block- and talus slopes in the upper Agua Negra catchment, Argentina*
7. **Michael Dietze (Göttingen)** *Hidden Water and Landscape Erosion – How subsurface water flow changes hillslope activity, stream flow, sediment export and landscape evolution*
8. **Laura Rossana Fracica Gonzalez (Göttingen)** *Using Acoustic Doppler Current Profiler (ADCP) to measure groundwater flow in the Yucatan Peninsula, Mexico and its correlation with water clarity*
9. **Philipp Gewalt (München)** *Decadal climatic forcing of sediment redistribution on a highly active alpine alluvial fan*
10. **Diana-Eileen Kara (Eichstätt)** *Quantifying Subglacial and Proglacial Contributions to Suspended Sediment Load in the Upper Kaunertal, Austria*
11. **Johannes Keßels (Aachen)** *Enormous headward erosion at the open-cast lignite mine Inden during the flood of July 2021 in Germany*
12. **Azra Khosravichenar (Leipzig)** *Land Subsidence Monitoring Using Combined Multi-Temporal InSAR and Drone Analysis near Wimmelburg, Germany*
13. **Tamara Köhler (Bonn)** *Deciphering cryospheric water contributions in the Dry Andes (Agua Negra, Argentina)*
14. **Magdalena Koschmieder (Eichstätt)** *Landschaftsparameter und Wahrnehmung: Die Ästhetik alpiner Landschaften im Klimawandel*
15. **Philipp Marr (Wien)** *Exploring the potential of Cosmic Rays Neutron Sensing (CRNS) on a slow-moving landslide in Lower Austria*
16. **Joel Mohren (Aachen)** *CRC 1211 Project C02: achievements, challenges, and perspectives*
17. **Sarah Putzhammer (München)** *New Insights into Weathering and Runoff Processes in Periglacial Slope Deposits and Sapolite through Comparative Geophysical Methods*
18. **Jana Richter-Krautz (Dresden)** *Zirkon als geomorphologisches Archiv*
19. **Jakob Rom (Eichstätt)** *Evaluation of debris flow frequencies since 1850 using remote sensing data and a Regional Climate Model*
20. **Andreas Ruby (Potsdam)** *River long profile modelling since the Mid-Pleistocene for the Río Santa Cruz, Southern Patagonia*
21. **Oliver Sass (Bayreuth)** *How does water enter the stone? Two years of moisture monitoring using microwave sensors in the cave town of Uplistsikhe, Georgia*
22. **Alina Shevchenko (Potsdam)** *Multi-sensor analysis of rock glaciers at Hekla volcano*
23. **Matthias Silbermann (Leipzig)** *Geophysical investigation of a subsidence geohazard zone near Wimmelburg, Saxony-Anhalt, Germany*
24. **Melanie Stammeler (Bonn)** *Object-based mapping of cold-climate aeolian sand dunes in the European Arctic*

25. **Stefanie Tofelde (Berlin)** *Quantifying Earth's topography: steeper and larger¹ than projected in Digital Terrain Mode*
26. **Stefania Ursica (Potsdam)** *Evolutionary Computing and AI-Driven Seismic Monitoring: Enhancing Detection and Prediction of Mass Wasting Events*
27. **Jörg Völkel (München)** *Saprolite and Regolith (PSD) as Crucial Strata of the Critical Zone in the Mid-Latitudes*
28. **Hans von Suchodoletz (Jena)** *Application of portable VNIR and MIR spectroscopy for the analysis of physicochemical sediment characteristics and stratigraphy in drill cores of Holocene overbank deposits in Central Europe*
29. **Janek Walk (Würzburg)** *Expanding the Late Quaternary alluvial fan morphochronology along the coast of the Atacama Desert (northern Chile) by calibrated Schmidt hammer exposure-age dating*
30. **Till Wenzel (Wien)** *Critical Infrastructure at Risk: Analysing Geomorphic Hazards in the Wipptal, Tirol*
31. **Tingting Yue (München)** *Cluster Analysis for Distinguishing Geogenic Soil Materials as Crucial Components of Periglacial Slope Deposits (PSD) and Saprolites – A Study from the Bavarian Forest (Regensburger Vorwald)*