

Report of the 17th International Young Geomorphologists' Meeting, Berlin (Wannsee), Germany June 09-11, 2023



Following last year's succesful meeting in Bad Kreuznach,

the Young Geomorphologists hosted the 17th International Young Geomorphologists Meeting in Berlin on the shore of the scenic Wannsee on June 9-11, 2023. The event also featured an additional excursion to the surrounding area on June 12. Gathering participants from Germany, Italy, Spain, Switzerland, and Ireland, the event welcomed a vibrant and diverse group comprising 38 early-career professionals and students, ranging from Bachelor's to Post-Doc level and representing a total of 15 different institutions.

The meeting's program was thoughtfully designed to encompass a diverse range of academic topics and activities, ensuring a rewarding and enriching experience for all attendees. It featured three engaging sessions of oral presentations with short discussions, an evening poster session, an inspiring keynote talk on the geomorphological landscapes of Berlin and its greater surroundings, and a candid panel discussion centered on academic life. Additionally, participants had the opportunity to explore the glacial-formed landscape of the city of Berlin during an exciting excursion (see attached program for details).

Proceedings

This year's meeting kicked off with a warm welcome from the organizing committee, followed by an enjoyable icebreaker known as the "Scales Game," fostering initial interactions among attendees. It provided a fantastic opportunity for everyone to introduce themselves and share their research projects briefly. Building on the camaraderie, we then delved into an animated "Personen Bingo," creating a friendly atmosphere and encouraging personal conversations that extended beyond the boundaries of research topics.

After the following dinner, we had the privilege of hosting a captivating panel discussion featuring Prof. Dr. Julia Meister from the University of Würzburg. She shared her inspiring academic journey in geomorphology and geoarcheology, along with valuable insights into balancing family life and a scientific career, and the challenges of frequent work-related travel. The discussion highlighted the importance of curiosity, building meaningful connections with colleagues and researchers, and maintaining a passion for academia. The first day concluded with a relaxed gathering at the youth hostel, where participants enjoyed each other's company and exchanged ideas in a casual setting.

Saturday began with an enlightening keynote talk by Prof. Dr. Margot Böse (former FU Berlin), delving into the geomorphological landscapes of Berlin and the surrounding areas of Lake Wannsee within an anthropogenic context. The talk highlighted fascinating aspects, demonstrating that geomorphology remains applicable and vibrant even in urbanized cities like Berlin. It was truly inspiring to witness the interplay between natural processes and human activities shaping the landscape.

The day continued with engaging sessions on absolute dating methods in Quaternary Science in the "Dating Apps" session, and intriguing talks on glacial geomorphology and landscape evolution modeling during the "Ice Ice Sediment Baby!" session. The "30 seconds madness" poster session added a dynamic element to the event, giving each presenter a brief window to introduce his or her work. The ensuing poster session





featured 15 diverse and captivating posters, generating stimulating discussions and allowing participants to exchange ideas. It was impressive to witness the wide range of topics covered, from geoarchaeological landscape changes in Tunisia to methodological analyses in OSL dating.

To infuse a sense of informality and novelty, we introduced a fresh segment known as the "Scientific Failure session" at the scenic beach of Lake Wannsee. The concept behind this session was to openly share the struggles and inevitable failures that researchers encounter during their journeys. The aim was twofold: first, to help others avoid similar pitfalls and gain valuable insights, and second, to embrace the normalcy of failure in our endeavors. The session became a platform for sharing humorous anecdotes and valuable lessons learned. To conclude the day, we relished the warm sunshine by the lakeside, fostering a relaxed atmosphere conducive to engaging discussions. Participants delved into both scientific and personal aspects of their research and studies.

On the final day, Sunday, we gathered for our last session, which focused on "Arid landscapes." The presentations brought a perfect conclusion to our scientific exploration. Afterward, we shared our last lunch together and reconvened in the conference hall for a valuable feedback session. The organizing committee concluded the event with their closing words, bidding farewell to half the group while the other 15 participants remained for an exciting excursion.

Excursion

On Monday, we embarked on a grand excursion, replacing the usual workshop format. Our knowledgeable host, Robert Hebenstreit (lecturer at FU Berlin), met us at a tram station in Berlin city, and together we strolled towards the intriguing locale known as "Kreuzberg." Along the way, Robert expertly taught us to discern subtle differences even in cultivated areas, revealing the landforms hidden in plain sight. Once in Kreuzberg, we immersed ourselves in the local glacial geomorphological setting of Berlin and its environs. The expedition provided a wealth of knowledge about the fascinating Urstromtal and the scientific complexities surrounding the glacial landscapes, including the intricate process of dating terminal moraines. Our journey then led us to Hermsdorf, situated north of Berlin, where we explored the harmonious coexistence of humanity with the glacial-formed landscape, showcasing how people harnessed its resources, such as clay pits, for their benefit. Following the enlightening experience in Hermsdorf, we traced the path of the Tegeler Fließ, ending our venture at the serene Lake Tegel with shared cold beers.



Investigating the past glacialiation of Berlin with Robert



Discussing scientific failures at the Wannsee



Feedback

We were delighted to receive an overwhelming amount of positive feedback for this year's meeting, particularly regarding the program and engaging talks. The introduction of the "failure session" also garnered much appreciation for its refreshing and informative approach. However, one significant area of improvement highlighted was the late communication about arrival and departure times. We appreciated this constructive criticism and will make sure to communicate these important details well in advance for next year's meeting so everyone can arrange for affordable transport.

Overall, the 17th International Young Geomorphologists' Meeting in Berlin proved to be an inspiring, intellectually stimulating, and socially rewarding experience. We depart with cherished memories, strengthened connections, and a renewed passion for the field of geomorphology. As we look forward to future meetings, we remain grateful for the valuable insights and knowledge exchanged during this unforgettable event.

With warm regards from the old and new board of Young Geomorphologists:

AAndreas, Bastian, Dennis, Doris, Emma, Isabel, Johanna, Lars, Laura, Linda, Lisa, Lukas and Salome

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17th International Young Geomorphologists Meeting

Berlin Wannsee

June 9th-11th, 2023

JUNGE
GEOMORPHOLOGEN



PROGRAM

Friday, June 9th, 2023

- 16⁰⁰ Arrival & check-in
- 17⁰⁰ Get to know the program and the group
Let's learn some names and share a drink!

 18³⁰ Dinner

 20⁰⁰ Talk with Prof. Dr. Julia Meister
Meet the Meister: Academic Paths & Experiences Conveners: Basti & Lisa


21⁰⁰ Icebreaker games and freetime



Keynote by Margot Böse

Saturday, June 10th, 2023

 7-9³⁰ Breakfast

 10⁰⁰ Keynote talk by Prof. Dr. Margot Böse
Quaternary landscape change Conveners: Laura & Basti

 ORAL PRESENTATIONS
You have 15 mn. for your topic, so make your talk short (~12 mn.) and leave enough time for discussion!

 11⁰⁰ Session I: Dating Apps Conveners: Laura & Basti

11⁰⁰ Gregor Rink University of Galway, Ireland

Using cosmogenic nuclides and photogrammetry to quantifying the drivers of rocky coastline erosion under changing climate and sea-level conditions

11²⁰ Salome Oehler University of Lausanne, Switzerland

Hard Rock Hallelujah - Shining a light on LGM (rock) surface temperature using luminescence paleothermometry

 12⁰⁰ Lunch



13³⁰ Session II: Ice Ice Sediment Baby! Conveners: Emma & Lukas

13⁴⁰ Felix Martin Hofmann Universität Freiburg, Germany

Late Pleistocene glacier variations in the southern Black Forest, Germany

14⁰⁰ Lisa Rehn University of Lund, Sweden and Universität Freiburg, Germany

Detecting variability in rock glacier movement

14⁴⁰ Bastian Ringleb Universität Gießen Germany

Landscape evolution modelling in a mesoscale catchment of the Northern Franconian Jura: A look at the sediment dynamics of the Weismain river



15⁰⁰ Coffee break



15³⁰ “30 seconds madness” Poster Session Convener: Lisa



You have 30 SECONDS to present your topic on one slide. After the short introductions we will continue discussing the posters with some cool drinks.

Simon Bitzan Freie Universität Berlin, Germany

Spatial and temporal patterns of dust inputs in the eastern Mediterranean region and their composition and impact on recent soil formation processes

Lukas Dörwald RWTH Aachen University, Germany

From one to seven: Barchans splitting up from a mound of sand

Lars Engelmann Universität Trier, Germany

Application of FTIR for soil analysis in degraded argan populations in South Morocco

Anna-Lena Geis Universität Gießen, Germany

Infrared-Radiofluorescence dating of the Riedstadt-Erfelden drill core to assess northern Upper Rhine Graben chronology: Dating approach and first results

Sten Gilfert Universität Potsdam, Germany

Controls of disturbance exposure on C formation in Coastal Rainforests of Patagonia

Bastian Grimm Universität Gießen, Germany

Evolution of a human-dominated floodplain system: The Wiesent River System in the Northern Franconian Alb (Main catchment) in Early Middle Ages to Early Modern times

Paula Sofía Jerez Longres University of Granada, Spain

Multitemporal landslide susceptibility assessment by probabilistic modelling in Torvizcón-Cádar (Granada)

Jens Jouaux Freie Universität Berlin, Germany

Identification of sedimentary units based on statistical analysis of geochemical data (p-ED-XRF)—comparing cluster analysis and linear discriminant analysis

Lauretta Kaerger University of Florence, Italy

Preliminary results on geomorphic and seismological analysis on earthquake and tsunami hazards in the inner Northern Apennines

Julia Kroner Universität Gießen, Germany

Algal blooms at Lake Edersee: Challenging satellite-based analyses for inland water monitoring?

Julia Pagels Universität Potsdam, Germany

Tracing historical landscape changes using fluvial and alluvial sedimentological records: A case study from the hinterland of the Roman town Chimtou, North Tunisia

Niklas Pauly Universität Gießen, Germany

Comparative Analysis of Stimulation with Green and Blue LEDs in OSL Dating

Isabel Wapenhans Universität Potsdam, Germany

Neogene glacial influence on topography from thermochron, Austria

Helen Werner GFZ-Potsdam, Germany

Impact of spatial resolution on large-scale ice cover modeling of mountain regions

Amanda Wild GFZ-Potsdam, Germany

Landscape Evolution Modelling of Stratigraphic Grain Size Fining

 **18⁰⁰ Dinner**

19⁰⁰ Walk along Wannsee (optional)



20⁰⁰ Scientific Failures Session Conveners: Lukas & Emma



Sunday, June 11th, 2023

 **7-9³⁰ Breakfast**



10⁰⁰ Session III: Arid Landscapes Conveners: Basti & Laura

10⁰⁰ Emma Lodes GFZ-Potsdam, Germany

Lithological control on drainage density and vegetation in central Chile

10²⁰ Laura Kögler Universität Gießen, Germany

Dynamics of Quaternary river basin erosion

10⁴⁰ Aydogan Avcioglu Universität Potsdam, Germany

Badland Systems in Turkey: A holistic approach to understand understanding the formation, controlling factors, and geomorphologic characteristics

11⁰⁰ Caroline Fenske GFZ-Potsdam, Germany

Modelling iron duricrust formation

11²⁰ Robert Busch Freie Universität Berlin, Germany

Socio-ecological modeling in the Pergamon micro-region

 **12⁰⁰ Lunch**

13⁰⁰ Give us what we deserve!

We need your opinion on what you liked and disliked!

13³⁰ Goodbye and some final remarks



The participants





LIST OF PARTICIPANTS

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