



IAG-DENUCHANGE-2023
3rd Working Group Workshop
March 13-16. 2023
ISRAEL

Monday, March 13. 2023
Library Auditorium [Room 146] Main Building
University of Haifa

8:30 – 9:30 Registration

9:30 – 9:40 Opening ceremony

9:40 – 11:20 Session 1: Denudation and Landscape Evolution

Chair: Milica Kašanin-Grubin

Denudational landforms in the first 100 geoh heritage sites

Zbigniew Zwoliński

Environmental change and changing rates of escarpment retreat in a sedimentary tableland, SW Poland

Filip Duszyński, Kacper Jancewicz, Piotr Migoń, Jarosław Waroszewski, Marcus Christl, Dmitry Tikhomirov, Markus Egli

Debris-flow and snow-avalanche activity in Făgăraș Mountains (Southern Carpathians, Romania) reconstructed using tree-rings

Olimpiu Pop

A Multitemporal NDVI analysis for understanding the anthropic influence on the recent erosion dynamics in the Upper Orcia Valley central Italy)

Francesca Vergari, Annalisa Sannino, Giulia Iacobucci, Maurizio Del Monte

Role of lithological properties on development of badlands in arid regions

Milica Kašanin-Grubin, Aydogan Avcioglu, Luobin Yan, Nevena Antić, Tomislav Tosti, Snežana Štrbac

11:20 – 11:40 Coffee break

11:40 – 13:00 Session 2A: Young Geomorphologists

Chair: Katja Laute

Anthropogenic impact on solute fluxes and chemical denudation in a headwater catchment – a case study of the TERENO Wüstebach experimental catchment

Eliza Płaczowska, Heye Reemt Bogena, Michael Leuchner

Denudation and solid transport assessment in small mountain catchments: the Alpe Veglia test site (Central-Western Italian Alps)

Gianluca Tronti, Irene Maria Bollati, Francesco Comiti, Andrea Andreoli, Luca Mao, Luigi Perotti, Testa B, Aldighieri B, Cristina Viani, Manuela Pelfini

Geochemical and mineralogical studies of clay deposits in Makhanda and its environs, Eastern Cape, South Africa

Ibukunoluwa Samuel Adeola, Bassey Ekpo, Nicolas Waldmann, Mimonitu Opuwari

Denudation vs Soil formation: Landscape dynamics in the mountainous tropical southern Mexico

Axel Cerón-González, Alma Barajas-Alcalá

13:00 – 14:00 Lunch break

14:00 – 14:40 Posters Session & Young Geomorphologists meeting

14:40 – 16:00 Session 2B: Young Geomorphologists

Chair: Olimpiu Pop

From natural processes to Geohazards – Palaeoflood hydrology in the Judean desert ephemeral streams as tool to improve risk assessment

Rami Zituni, Noam Greenbaum, Naomi Porat, Gerardo Benito

Dispersion of sediment caused by land use change

Nevena Antić, Milica Kašanin-Grubin, Branimir Jovančević

Late Quaternary aeolian-fluvial palaeoarchives record landscape evolution along dunefield margins

Lotem Robins, Joel Roskin, Revital Bookman, LuPeng Yu, Noam Greenbaum

Late Quaternary paleoenvironmental evolution of the Yesha Valley (Naftali mountains, Israel)

Hilit Kranenburg, Nurit Shtober-Zisu, Nicolas Waldmann, Naomi Porat, Noam Greenbaum

16:00 – 16:20 Coffee break

16:20 – 18:00 Session 3: Denudation and fluvial systems

Chair: Eliza Płaczowska

Trends of changes in erosion, transportation and deposition of sediments in fluvial system of the Upper Vistula River (Poland) caused by human impact – selected aspects

Adam Łajczak

Sediment sources and spatiotemporal variability of fluvial bedload transport in the cold-climate mountain environment of the upper Driva drainage basin in central Norway

Katja Laute and Achim A. Beylich

Impact of climate change on pollution transport in river sediments

Gorica Veselinović, Sanja Pržulj, Milica Kašanin-Grubin, Sanja Stojadinović, Branimir Jovančević

Boulders transport and suspended sediment amounts during large floods in Nahal Hatzera stream, Negev Desert, Israel

Noam Greenbaum, Uri Schwartz, Paul A. Carling, Nethaniel Bergman, Amit Mushkin, Rami Zituni, Gerardo Benito, Judith Lekach, Moti Zohar, Naomi Porat

Boulder transport monitoring using acoustic impact plates in a heavily armored basalt stream, Nahal Meshushim, Central Golan Heights and NE Sea of Galilee, Israel

Nathaniel Bergman, Noam Greenbaum

Tuesday, March 14. 2023
Library Auditorium [Room 146] Main Building
University of Haifa

9:00 – 10:20

Session 4: Soil erosion and Landscape Evolution

Chair: António Vieira

Quantitative assessment of denudation processes on the slopes of the Aigba Ridge under increased anthropogenic impact

Valentin Golosov, Sergey Kharchenko, Anna Derkacheva, Sergey Shvarev

The influence of crop pattern on the loess gully erosion rate at the Lublin Upland (Stocki Creek, E Poland)

Jan Rodzik, Jakub Kościarczyk, Grzegorz Janicki, Krzysztof Stępniewski and Waldemar Kociuba

Gully erosion in areas affected by wildfires and salvage logging in NW Portugal: Preliminary results

António Vieira, António Bento-Gonçalves, Saulo Folharini, Jorge Novais, José Rocha, Sarah Santos

Soil erosion in post-glacial areas and temperate climate on the example of north-eastern Poland based on 15-year monitoring

Ewa Smolska

10:20 – 10:30 Coffee break

10:30-11:30

Working group business meeting

Chair: Zbigniew Zwoliński

IAG Secretary General: Achim A. Beylich

POSTERS

Vegetation renewal in areas recurrently affected by large wildfires

António Bento-Gonçalves, Sarah Santos, António Vieira

Geomorphic monitoring of experimental flow releases from the new National Reverse Water Carrier, Lower Nahal Tsalmon, Lower Galilee, Israel

Nathaniel Bergman, Noam Greenbaum, Orah Moshe, Eyal Weinberg, Iyad Swaed, Avi Uzan

Sediment sources, sediment (dis)connectivity, spatiotemporal variability and future trends of land-to-sea solute and sedimentary fluxes in Mediterranean catchment systems in eastern Spain

Achim A. Beylich and Katja Laute

Badlands evolution in a pilot area of the Emilia Apennines (northern Italy)

Paola Coratza, Carlotta Parenti, Mauro Soldati

Spatial and temporal distribution of moisture in tafoni: Way to reveal the weathering processes

Jakub Mareš, Jiří Bruthans, Alžběta Studencová

Impact of rainfall intensity on soil erosion based on experimental research

Mikołaj Majewski, Aleksandra Czuchaj, Marek Marciniak

Effects of groundwater sapping on drainage network and landscape evolution in postglacial areas (the Dębica catchment, Pomeranian Lakeland, NW Poland)

Małgorzata Mazurek, Renata Paluszkiewicz

Small endorheic basins as paleoenvironmental archives

Shlomy Vainer, Joel Roskin, Itzhak Raish, Mikhail Markin, Nimer Taha, Revital Bookman

Source to sink sediment fingerprinting in a mixed lithology catchment; the case of Nahal Sa'ar, Golan Heights, Israel

Nurit Shtober-Zisu, Nathaniel Bergman

FIELD TRIP

March 14. 2023

Leaving the University of Haifa at 12:00

Horvat Mador: Soils and Soil erosion of the NW Negev

Guides: Nurit Shtober-Zisu, Joel Roskin, Boaz Zissu

Overnight at Kibbutz Gvulot

March 15. 2023

Beit Guvrin and Tel Maresha National Park: Geoarchaeology (*Boaz Zissu*)

Ness Harim [Bar Bahar]: Long-term denudation of the Judean Mountains (*Uri Ryb*)

Northern Dead Sea shores: Tectonics, Geomorphic response to sea level drop

(*Nicolas Waldmann and Amos Frumkin*)

Overnight at Ein Gedi Youth Hostel

March 16. 2023

Massada stream: The LG Lake Lisan (*Nicolas Waldmann*)

Southern Dead Sea Shores: Mount Sodom salt diapir (*Amos Frumkin*)

Swimming in the Dead Sea.

Traveling to Tel Aviv (ca 3 hrs)

Farewell at Tel Aviv-Hashalom train station.