



IAG DENUCHANGE business and planning meeting (virtual meeting)

23 November 2021, 15:00-16:00 CET

Meeting summary report

Business meeting participants

Achim A. Beylich (Norway)

Antonio Cendrero (Spain)

Piotr Cienciala (USA)

Valentin Golosov (Russia)

Artyom Gusarov (Russia)

Milica Kasanin-Grubin (Serbia)

Małgorzata Kijowska-Strugala (Poland)

Jasper Knight (South Africa)

Waldemar Kociuba (Poland)

Katja Laute (Norway)

Dongfeng Li (Singapore)

Luca Mao (UK)

Ana Navas (Spain)

Eliza Płaczowska (Poland)

Olimpiu T. Pop (Romania)

Juan Remondo (Spain)

Nurit Shtober-Zisu (Israel)

Gianluca Tronti (Italy)

Zbigniew Zwoliński (Poland)

Welcome of meeting participants

Achim A. Beylich (Norway) opened the meeting and welcomed all business meeting participants. In total 19 participants from 12 different countries participated in the business meeting.

New series with presentations of scientific highlights by DENUCHANGE members

Achim A. Beylich informed about a new series “Scientific Highlights” where DENUCHANGE members are invited to present highlights of their research.

The series was started with an invited talk by Dongfeng Li (Singapore). Dongfeng Li presented work which he recently published in the journal *Science*: Dongfeng Li, Xixi Lu, Irina Overeem, Desmond E. Walling, Jaia Syvitski, Albert J. Kettner, Bodo Bookhagen, Yinjun Zhou, Ting Zhang, 2021. Exceptional increases in fluvial sediment fluxes in a warmer and wetter High Mountain Asia. *Science* 374, 599-603 (2021). The scientific presentation was followed by an extended discussion.

Report on the DENUCHANGE scientific webinar on 13 October 2021

DENUCHANGE organized a scientific webinar on 13 October 2021. The webinar included nine scientific talks from DENUCHANGE members and provided an overview of latest research outcomes on denudation presented by members of the group.

The public webinar was well attended and received. The webinar program and flyer is available at the DENUCHANGE website (<http://www.geomorph.org/denuchange-working-group/>).

DENUCHANGE virtual event during the International Geomorphology Week 2022

As in 2021, DENUCHANGE will again organize a virtual event (round table discussion) during the International Geomorphology Week 2022 (28 February - 4 March 2022). The DENUCHANGE round table discussion will be organized as a public virtual event on **1 March 2022, 15:00-17:00 CET**.

Detailed information on this virtual DENUCHANGE event will be announced soon.

Third DENUCHANGE Workshop, Haifa, Israel, 16-18 May 2022

Nurit Shtober-Zisu (Israel) informed about the status of the Third DENUCHANGE Workshop in Haifa, Israel. The Third DENUCHANGE Workshop is now scheduled as a physical workshop for **16-18 May 2022**.

Detailed information on the workshop and the connected field trips is available at the workshop webpage under <https://denuchange.wixsite.com/denuchange2020>.

All DENUCHANGE colleagues are kindly requested to inform Nurit Shtober-Zisu (nshtober@research.haifa.ac.il) before **15 January 2022** if they plan to attend this physical DENUCHANGE workshop.

DENUCHANGE scientific session at EGU 2022 in Vienna, Austria, 3-8 April 2022

A DENUCHANGE Scientific Session GM4.1 *Hillslope and fluvial processes and associated source-to-sink fluxes and sedimentary budgets under changing climate and anthropogenic impacts*, co-sponsored by IAG, convened by Achim A. Beylich, Katja Laute, Dongfeng Li, Ana Navas and Olimpiu T. Pop, will be organized at the EGU General Assembly 2022, 3-8 April 2022 in Vienna, Austria.

Detailed information on the scientific session can be found at <https://meetingorganizer.copernicus.org/EGU22/session/43953>. The deadline for submission of abstracts for EGU 2022 is **12 January 2022**.

DENUCHANGE session section during the IAG International Conference on Geomorphology in Coimbra, Portugal, 12-16 September 2022

DENUCHANGE will organize a scientific session section as part of the Thematic Session 5 on *Forms, Processes and Landscape Change* (convened by Achim A. Beylich, Luca Mao, Osmar Carvalho, Roberto Verdum, Adélia Nunes) during the 10th IAG International Conference on Geomorphology in Coimbra, Portugal, 12-16 September 2022. Further information on the conference, the various conference sessions and the submission of abstracts is found at the conference website under <https://www.icg2022.eu/>.

DENUCHANGE activity at the IAG Regional Conference in Mashhad, Iran

A possible scientific activity of DENUCHANGE during the IAG Regional Conference in Mashhad, Iran, 2022, was discussed. The discussions will be continued during the next DENUCHANGE business meeting on 10 February 2022.

DENUCHANGE field test site catalogue

The current status of the DENUCHANGE field test site catalogue was presented. The DENUCHANGE field test site catalogue is prepared as an interactive PDF-file including short and well illustrated presentations of all accepted DENUCHANGE field test sites. Each presented field test site will be linked to an interactive map. A first edition of the DENUCHANGE field test site catalogue will be prepared by Katja Laute (Norway) with support from Dongfeng Li (Singapore) by the end of the year 2021.

The deadline for submission of material (logo, photos, figure, summary texts) for the first edition of this catalogue was extended until **10 December 2021**. All material for the DENUCHANGE field test site catalogue should be sent to Katja Laute (katja.laute@geofieldlab.com).

DENUCHANGE synthesis and review papers

Jasper Knight (South Africa) presented the idea to develop a possible paper for the EGU journal Earth System Science Data (Copernicus), including data collections from DENUCHANGE field test sites.

Joanna Gudowicz (Poland) was in contact with all colleagues that have provided catchment data for the DENUCHANGE SWAT modelling project. Joanna Gudowicz will work on SWAT modelling for those catchments where SWAT modelling has never been done before: Erdalen (Norway), Sulden/Solda (Italy), Estero Morales (Chile), Tuotuohe (China) and Sullivan Creek (USA). A modelling plan will be sent, including the work schedule: Data collection, modelling steps, output data and calibration.

Achim A. Beylich (Norway) is working on the outline for the DENUCHANGE synthesis/review paper (Beylich et al.) on *Drivers of contemporary denudation in different morphoclimates*.

Antonio Cendrero (Spain) presented updated information on the multi-authored synthesis paper on *Denudation, global change and the Anthropocene* (Cendrero, Remondo, Forte et al.). A new draft of this synthesis paper is currently edited and will soon be sent to DENUCHANGE members for final commenting. The finalized paper shall then be submitted to a leading international journal.

Book project on Climate and Anthropogenic Impacts on Earth Surface Processes

Achim A. Beylich informed about an upcoming edited book project (Elsevier) on the theme of *Climate and Anthropogenic Impacts on Earth Surface Processes*. The book will be edited by Achim A. Beylich, Dongfeng Li, Rosana Menendez Duarte, Mario Morellon Marteles and Marc Oliva. The invited book editors will start to work on the outline of the planned book in January 2022. DENUCHANGE colleagues will in 2022 be invited to contribute to this edited book.

COST Action proposal related to DENUCHANGE

Luca Mao (UK) presented updated information on the COST Action proposal *SeDyChange* related to DENUCHANGE. The proposal was successfully submitted by Luca Mao on 29 October 2021. Information on the outcome of the COST Action proposal *SeDyChange* can be expected in May 2022. Luca Mao has been leading the COST Action proposal and is the main proposer for this COST Action.

Next DENUCHANGE business and planning meeting

The next DENUCHANGE business and planning meeting will take place as a virtual meeting on **10 February 2022**, 15:00-17:00 CET. The ongoing discussions will be continued and taken further during this upcoming business meeting.

Achim A. Beylich will invite to this virtual meeting in January 2022.

Selbustrand, 14 December 2021

Achim A. Beylich