



IAG DENUCHANGE business and planning meeting (virtual meeting)

11 February 2021, 15:00-17:30 CET

Meeting summary report

Business meeting participants

Achim A. Beylich (Norway)

Irene Bollati (Italy)

Antonio Cendrero (Spain)

Piotr Cienciala (USA)

Francesco Comiti (Italy)

Marta Della Seta (Italy)

John C. Dixon (USA)

Monique Fort (France)

Daniel Germain (Canada)

Małgorzata Kijowska-Strugala (Poland)

Jasper Knight (South Africa)

Waldemar Kociuba (Poland)

Katja Laute (Norway)

Dongfeng Li (Singapore)

Luca Mao (UK)

Małgorzata Mazurek (Poland)

Ana Navas (Spain)

Eliza Płaczkowska (Poland)

Olimpiu T. Pop (Romania)

Juan Remondo (Spain)

Nurit Shtober-Zisu (Israel)

Bruno Testa (Italy)

Gianluca Tronti (Italy)

Francesca Vergari (Italy)

Zbigniew Zwoliński (Poland)

Welcome and introduction of meeting participants

Achim A. Beylich (Norway) opened the meeting and welcomed all business meeting participants. In total 25 participants from 12 different countries participated in the business meeting. All business meeting participants introduced themselves briefly.

Approval of the business meeting agenda

Achim A. Beylich presented the meeting agenda. The meeting agenda was approved by the meeting participants.

Information from the IAG Council Meeting on 19 January 2021

Achim A. Beylich informed about the relevant decisions taken during the virtual IAG Council Meeting on 19 January 2021. It was decided at the IAG Council Meeting that (i) the 10th International Conference on Geomorphology in Coimbra, Portugal is postponed to 12-16 September 2022, (ii) the Regional Conference on Geomorphology in Mashhad, Iran is postponed to spring 2022, (iii) the term of the current IAG Executive Committee is accordingly extended until September 2022, and (iv) the term of current IAG Working Groups is accordingly extended until September 2022.

The current term of IAG DENUCHANGE will therefore continue until September 2022.

DENUCHANGE test site fact sheets: Outcome of the call for catchment data/information and information on forthcoming steps

Achim A. Beylich provided a brief overview over the process of defining the DENUCHANGE working group objective (as a main output of the First DENUCHANGE Workshop held in Storkowo-Szczecinek, Poland, 25-27 September 2018) and developing the DENUCHANGE test site fact sheets (as a main outcome of the Second DENUCHANGE Workshop held in Calpe, Spain, 12-14 September 2019). He presented a summary report on the outcome of the call for DENUCHANGE catchment data/information through DENUCHANGE test site fact sheets (Tables 1 and 2) being sent to all DENUCHANGE colleagues and distributed worldwide through Geomorph-list in the years 2019 and 2020.

By 19 February 2021, data and information for 27 defined DENUCHANGE test sites (catchment systems) have been received, including 27 test sites with Table 1 of the DENUCHANGE test site sheets being completed, 9 test sites with Table 2 of the DENUCHANGE test site sheets being completed and 13 test sites with Table 2 of the DENUCHANGE test site sheets being partly or “not yet” completed. Accepted DENUCHANGE test sites and test site fact sheets have been collected from Achim A. Beylich (Norway), Irene Bollati (Italy), Francesco Comiti (Italy), Małgorzata Kijowska-Strugala (Poland), Dongfeng Li (Singapore), Luca Mao (UK), Ana Navas (Spain), Eliza Placzowska (Poland), Olimpiu T. Pop (Romania), and Zbigniew Zwoliński (Poland). It is still possible to submit completed DENUCHANGE test site fact sheets to Achim A. Beylich (achim.beylich@gmail.com). Responsible colleagues providing data and information from defined and accepted DENUCHANGE field test sites are invited to contribute with their data and information to multi-authored DENUCHANGE synthesis/review papers on (i) drivers of contemporary denudation rates in different morphoclimates (Beylich et al.) and (ii) the quantitative analysis of contemporary denudation using SWAT modelling (Gudowicz/Mazurek/Zwoliński et al.). In addition, it is planned that DENUCHANGE will offer a possible framework for the coordinated quantitative analysis of denudational processes (including the application of unified methods/techniques for selected measurements of denudational processes) at defined DENUCHANGE test sites where field measurements are still ongoing, have recently started or will start soon.

Irene Bollati (Italy) and Dongfeng Li (Singapore) provided brief introductions to their DENUCHANGE test sites in the western Italian Alps and the central Tibetan Plateau, China. More DENUCHANGE field test sites will be introduced during the virtual DENUCHANGE round table on 4 March 2021 (see below). During this virtual round table the discussions on the DENUCHANGE test sites and synthesis/review papers including data and information collected from these field test sites will be

continued. Also the development of a DENUCHANGE field test site database will be discussed and initiated.

DENUCHANGE synthesis/review papers: Presentation and discussion of initial manuscript outlines and preliminary manuscript drafts

Antonio Cendrero (Spain) gave a presentation on the DENUCHANGE synthesis paper draft developed by him, Juan Remondo (Spain) and Luis Forte (Argentina). A first draft of this synthesis paper was sent by Antonio Cendrero to all DENUCHANGE colleagues on 13 January 2021 and first comments and contributions - e.g., from John C. Dixon (USA) - were received. The synthesis paper by Cendrero, Remondo, Forte et al. is dealing with the relative importance of climate change and anthropogenic activities for relevant increases of denudation detected during the Anthropocene in different regions. Also this DENUCHANGE synthesis paper is intended to become a multi-authored paper and contributions from all DENUCHANGE colleagues are invited. The paper draft by Cendrero, Remondo and Forte was discussed and an updated draft version of the synthesis paper will soon be sent to all DENUCHANGE colleagues for further commenting and further contributions. The discussions on this synthesis paper will also be continued during the virtual DENUCHANGE round table on 4 March 2021.

Jasper Knight (South Africa) circulated an outline (structure) for a possible DENUCHANGE synthesis paper on Denudation under global change in the Anthropocene to all DENUCHANGE colleagues on 20 January 2021.

DENUCHANGE virtual round table on 4 March 2021, 15:00-17:00 CET

The DENUCHANGE round table will be organized as a public virtual event on 4 March 2021, 15:00-17:00 CET. The round table is part of the International Geomorphology Week 2021 (<http://www.geomorph.org/international-geomorphology-week-2021/>) and will include discussions on (i) presented DENUCHANGE field test sites, field activities and measurements at these field sites, and planned synthesis/review papers including field data and information from DENUCHANGE field test sites, (ii) the DENUCHANGE synthesis paper by Cendrero, Remondo, Forte et al., and (iii) possible other DENUCHANGE synthesis or review papers.

All DENUCHANGE colleagues are invited to participate and contribute, together with external colleagues that are interested in this public virtual event. Achim A. Beylich has sent information on this virtual event during the International Geomorphology Week 2021 to IAG and will send invitations to this virtual event.

Information on Special Issues

Katja Laute (Norway) informed about the recently published DENUCHANGE Virtual Special Issue (VSI) on Denudational processes and landscape responses to global environmental changes (journal Geomorphology). All relevant information on this VSI is available at

<https://www.sciencedirect.com/journal/geomorphology/special-issue/10P2X98DS2K>.

Achim A. Beylich (Norway) informed about a Special Issue on Fluvial Processes and Denudation (journal Water). This Special Issue includes a number of invited feature papers from DENUCHANGE members. For this Special Issue the deadline for submission of manuscripts is 30 June 2021 and all relevant information is found at

https://www.mdpi.com/journal/water/special_issues/Fluvial_Processes_Denudation.

Proposal for a possible extension of IAG DENUCHANGE

DENUCHANGE has been running since 2017 and will continue until September 2022. A proposal for a possible extension of IAG DENUCHANGE for an additional four-year period (2022-2026) was suggested by Achim A. Beylich (Norway) and discussed within the group. There was general agreement among the DENUCHANGE colleagues that such a proposal should be prepared and submitted to the IAG Executive Committee in spring 2022.

Development of an EC COST Action proposal related to IAG DENUCHANGE

Olimpiu T. Pop (Romania) presented his idea to develop an EC COST Action proposal related to IAG DENUCHANGE and introduced relevant information for the preparation of such an EC COST Action proposal. He also distributed this information on the preparation of EC COST Action proposals to all DENUCHANGE colleagues. There was general agreement among the DENUCHANGE colleagues that a COST Action proposal is very useful and should be prepared. The next deadline for submission of 2021 EC COST Action proposals is 29 October 2021. The discussion on the coordination and preparation of the proposal will be taken further over the coming weeks.

Third IAG DENUCHANGE Workshop, Haifa, Israel

Nurit Shtober-Zisu (Israel) informed about her preparations of the Third DENUCHANGE Workshop that will take place in Haifa, Israel. Due to COVID-19 this Workshop, originally scheduled for October 2019, was postponed to 2021. A date for this physical workshop will be fixed as soon as the global COVID-19 situation will allow it. Detailed information on the workshop and the related field trips is available at the workshop webpage: <https://denuchange.wixsite.com/denuchange2020>.

Other upcoming DENUCHANGE events

Achim A. Beylich informed about (i) the upcoming (29 April 2021, 15:30-17:00) scientific session GM4.13 Denudation, land cover dynamics and sedimentary source-to-sink fluxes under changing climate and anthropogenic impacts (co-organized by the IAG WG DENUCHANGE, co-sponsored by IAG, and including 20 accepted presentations with a solicited presentation by A. Cendrero, J. Remondo and L. Forte on Denudation, global change and the Anthropocene) at EGU 2021 (vEGU21 Gather Online, 19-30 April 2021, all session details can be found at <https://meetingorganizer.copernicus.org/EGU21/session/40271>), (ii) the IAG DENUCHANGE scientific session planned for the 10th IAG International Conference on Geomorphology, 12-16 September 2022, Coimbra, Portugal, and (iii) a planned IAG DENUCHANGE activity (conference session or working group meeting) at the IAG Regional Conference on Geomorphology, Mashhad, Iran, spring 2022.

Next DENUCHANGE business meeting

The next IAG DENUCHANGE business meeting will take place as a virtual meeting on 13 April 2021, 15:00-17:00 CEST. The ongoing discussions will be continued and taken further during this upcoming business meeting. Achim A. Beylich will invite to this virtual meeting in the end of March 2021.

Selbustrand, 19 February 2021

Achim A. Beylich