

### Arctic Geology: Advancing Research, Education, and Collaboration in the Arctic

The TN on Arctic Geology addresses the deep-time and deep-Earth evolution of the Arctic – one of the last geological frontiers on Earth. We conduct geological fieldwork, education and outreach throughout the circum-Arctic and build an effective geoscience-focused collaborative network. The past year included the organization of a major Arctic geoscience conference (ICAM-X in Bremen, Germany, March), teaching Arctic Tectonics and Volcanism at UNIS, Longyearbyen (April-June), a field expedition to Woodfjorden in northern Spitsbergen (August) and a growing number of scientific publications.



Photo: Kim Senger

#### Teaching

As every year, teaching the MSc/PhD course in Arctic Tectonics and Volcanism at the University Centre in Svalbard was a highlight – allowing students and lecturers alike to traverse Spitsbergen from east to west looking at large-scale tectonic features and manifestations of large igneous provinces.



Photo: Kim Senger

#### Publications

There was a growing number of scientific publications from the network, including contributions to the ICAM-IX special volume by Ammerlaan et al (forward modelling of potential field data), Sartell et al (geochronology of HALIP) and Senger et al (new gravity data from Svalbard).

In addition, the network was active in lobbying for more geosphere-related work within the realm of the Svalbard Integrated Earth Observing System (SIOS) through the provision of two SESS report chapters (Senger et al., 2025; 2026).

#### Field expeditions

In August we undertook a 2-week long expedition to the Woodfjorden-Wijdefjorden area in northern Spitsbergen using the Ulla Rinmann boat as a mobile base for sleeping, eating and keeping away from polar bears. The scientific crew of the boat consisted of 11 geoscientists from BSc students to Professors, especially interested in the Miocene volcanic evolution of the area and Quaternary volcanism including volcano-ice interactions.



photosphere of Festningen  
(credit www.vrsvalbard.com)

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