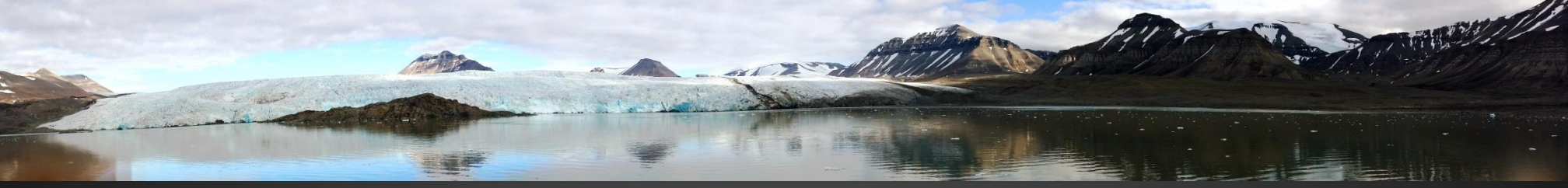

PhD Course on Arctic tectonics, volcanism and climate

Taught at: UNIS , Svalbard, Norway
Dates: 3 – 10 August 2018
Credits: 5 ECTS credits based on attendence, oral presentation and home exam

The course will be taught by researchers and international collaborators, including Carmen Gaina, Grace Shephard, Morgan Jones, Lars Eivind Augland, Alexander Minakov (CEED, UiO), Kim Senger (UNIS), Bernie Coakley (U.F.Alaska), Owen Anfinson (Sonoma State), Andrew Schaeffer (U.Ottawa), Danny Stockli (U.Texas).

Application deadline 23 April 2018

For application and more information, visit our webpage:
mn.uio.no/deep

Course content

This course addresses the diverse geological history of the Arctic region, including both onshore and offshore regions from Paleozoic to recent times. It will focus on the interplay of plate tectonics and volcanism (including, arc, rifting and plume-related) and explore some of the outstanding region-by-region case studies/questions within the Arctic research community. Based in the gateway to the Arctic, Svalbard, the course will be complemented by a field trip.

The students will gain specialized insight into the circum-Arctic's evolution including:

- Linking onshore and offshore geological processes
- Changes throughout the Palaeozoic and Phanerozoic
- Understanding major volcanic events, magmatic systems, and climatic consequences
- Plate tectonic events and visualize reconstructions using modern software
- Relationship between surface and deeper mantle structure and dynamics
- Insights into methodologies (e.g. geochronology, geophysics) and data acquisition in the Arctic
- Regional focus on Svalbard geology and CO2 storage system through a field trip.