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GoNorth - A new initiative for High Arctic research

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With this contribution we call for international cooperative effort towards increasing resolution of seismological networks in the Arctic region. This is becoming more feasible with current advances in seismological instrumentation such as a new generation broadband ocean bottom seismometers.
Supported by Norwegian authorities the GoNorth initiative represented by consortium of several universities and industry partners in Norway is currently developing a plan for a multidisciplinary scientific expedition in the Arctic Ocean during 2018-2021. The understanding of ultraslow seafloor spreading, relationship of magma-poor margins and adjacent Yermak Hotspot, tectonic and geochemical linkage of the Artic and the North Atlantic region are among of many topics of the research proposal. New icebreaker-class research vessel Kronprins Haakon is scheduled for delivery in 2017. The vessel is designed for year-round operation in ice-covered waters (PC 3 class) and equipped with moonpool and ROV, AUV and helicopter operations facilities.
The acquisition of new seismological data in the Arctic Eurasia Basin is in the core of GoNorth. In the poster we will present a preliminary plan for data acquisition and encourage the international community to join efforts.