Magnetic and geochemical properties of surface sediments from the western Norwegian margin and the Barents Sea

Within the MAREANO program, the Geological Survey of Norway (NGU) has collected a large number of surface sediments (0-1 cm) along the western Norwegian margin and the Barents Sea (see Figure 1). We are currently looking for a master student to conduct research on the environmental magnetic and geochemical properties of these sediments. The goal is to identify potential source regions of the terrigenous proportions and associated sedimentary processes and thus establish new climate-related proxies for reconstructing past climate variability.

The candidate will be trained in all experimental methods including XRF, ICP-MS for inorganic geochemical characterization of the sediments as well as in the new 2G Squid cryogenic magnetometer at NGU for determining common rock magnetic parameters including magnetic susceptibility. All technical equipment is available at NGU and training will be provided. Some travel to Trondheim is needed, however, costs will be covered. For further questions, please contact Karl Fabian (karl.fabian@ngu.no) and/or Jochen Knies (jochen.knies@ngu.no).

The study is part of the Center of Excellence "CAGE - Center for Arctic Gas Hydrate, Environment, and Climate" hosted by the University of Tromsø and possibilities for exchange within the CAGE working groups will be given.

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