

## Project information

### Keywords

environmental assessment, sediment map, seabed processes

### Project title

Marine base maps for the Porsanger Fjord

### Year

2016

### Project leader

Aivo Lepland

Geographical localization of the research project in decimal degrees (max 5 per project, ex. 70,662°N and 23,707°E)

70,4809N and 25.4659E

### Participants

- Project leader(s)/institutions: Aivo Lepland , Geological Survey of Norway (NGU)
- Project participants/institutions: Sigrid Elvenes, Oddvar Longva, NGU

### Flagship

Fjord and Coast

### Funding Source

FRAM centre

## Summary of Results

The project proposal for 2016 aimed at completion of the Porsanger Fjord project including production of (i) full set of marine base maps, (ii) web-based WMS applications of datasets, (iii) formal publication of maps and map notes in "Journal of Maps", and (iv) scientific publication on environmental status of the fjord. Due to limited funding we were only able to do a limited work with map production in 2016, but none of the above listed objectives were completed.

## Master and PhD-students involved in the project

The project has provided geologic material and knowledge that is relevant for student projects. Seabed, sediment stratigraphy and sub-bottom profiling data obtained in the project are being used in the PhD project supervised by Prof. Geoffrey Corner, UiT that assesses the deglaciation history of the area.

## For the Management

The seabed mapping results obtained in the project provide basis for knowledge based management of marine resources in the Porsanger Fjord and can be for various purposes such as optimal placement of fish farms, assessing economic sand resources, defining positions of seafloor pipelines and cables.

## Published Results/Planned Publications

No publications in 2016 due to limited funding, but 2 publications are planned for 2017.

## Communicated Results

Due to limited progress in 2016 no results have been communicated.

## Interdisciplinary Cooperation

The project has had an ambition of collaborating with other projects of the flag ship and integrating the base maps and field data into biological and ecological projects. Several parallel Porsanger projects have started noticing the value of good seabed data and we have made the preliminary seabed maps available for previous and current IMR projects in the Porsanger Fjord. Sharing of seabed materials between parallel projects provides basis for comparison of biologic and geologic seabed data, and compilation of most reliable seabed maps.

## Budget in accordance to results

The funding from the Fram Centre was essential for NGU to initiate the seabed mapping project in the Porsanger Fjord. Because NGU considers the environmentally diverse Porsanger Fjord as an important fjord for scientific interdisciplinary studies of the Arctic ecosystem, a 50% matching funding from NGUs own resources was secured for the project. The proposed budgets for 2012, 2013, 2015 and 2016 experienced however significant cuts, and the project was not funded in 2014. These budget cuts hindered the fulfillment of the project that was initially envisioned to be completed by 2014. NGU hopes that the Fram Centre will find means for funding the map production and publishing activities planned for 2017 in accordance with the proposal, which will be crucial for successful completion of the project.

Could results from the project be subject for any commercial utilization

Yes

If Yes

The seabed mapping results obtained in the project provide basis for knowledge based management of marine resources in the Porsanger Fjord and can be for various purposes such as optimal placement of fish farms, assessing economic sand resources, defining positions of seafloor pipelines and cables.

Conclusions

Conclusions will hopefully come in 2017 when the project will be completed if funded.