

## Project information

### Project title

Delivering policy-relevant knowledge about past and projected change, risk and safety of maritime activities around Svalbard (PRISMAS)

### Year

2020-2022

### Project leader

Maaïke Knol-Kauffman

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

### Participants

UiT The Arctic University of Norway - BFE Faculty: Maaïke Knol-Kauffman (coordinator), Peter Arbo

UiT The Arctic University of Norway - NT Faculty: Maria Sydnes

UNIS: Are Sydnes

Norwegian Meteorological Institute: Malte Müller, Jelmer Jeuring, Cyril Palerme

### Flagship

Arctic Ocean

For the Management

Climate change affects marine systems most drastically in polar regions. As a consequence, new and remote areas are becoming accessible. This leads to increased maritime traffic, and a stretching and surpassing of limits in terms of operational seasons and areas, and entrepreneurial initiatives. This raises strong concerns about Search and Rescue and emergency response capacities. The increase in maritime activity also puts pressure on the improvement of Arctic weather and sea ice forecasting services. In PRISMAS, a team of social and natural scientists will study the dynamics of maritime activities around Svalbard with the aim to deliver policy-relevant knowledge. The results will provide guidance for mitigating risk and enhancing safe navigation. We will do so by a) providing a comprehensive understanding of past and projected change; b) developing a holistic overview of safety and preparedness capacities in Svalbard waters, and analyze the extent to which these are efficiently supported by forecasting infrastructures; and c) assessing risks related to navigating in Svalbard waters through performing predictability studies on hazardous ice and temperature conditions.

## Published Results/Planned Publications

### Published result:

Knol-Kauffman, M. and P. Arbo 2020. Informasjon og sikkerhet i arktiske farvann. Nordlys 04.07.2020  
<https://munin.uit.no/handle/10037/18798>

### Planned publication

M. Müller, Knol-Kauffman, M, J. Jeuring, C. Palerme, (in preparation). Arctic shipping on the rise - a challenge for weather and sea ice services. Prepared as Perspective paper for Nature Climate Change.

## Communicated Results

We published a newspaper chronicle in Nordlys:

Knol-Kauffman, M. and P. Arbo 2020. Informasjon og sikkerhet i arktiske farvann. Nordlys 04.07.2020  
<https://munin.uit.no/handle/10037/18798>

This article is also published digitally:

- in Nordnorskdebatt.no [here](#)
- as a blog on the Fram Centre website [here](#)

In addition, these links have been actively spread via social media (Twitter, Facebook, LinkedIn)

#### Interdisciplinary Cooperation

The project integrates social and natural sciences throughout the work packages.

Could results from the project be subject for any commercial utilization

No