
Project

RIS-ID

11085

IMPACT OF CLIMATE CHANGE AND MICROPLASTICS ON MARINE BENTHIC COMMUNITIES IN SVALBARD (ICMB)

The purposes of this project are 1) to investigate the impact of climate change on marine benthic communities, and 2) to investigate the accumulation of microplastics on marine benthic organisms.

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PROJECT DATE

Starts 2018-07-01

Ends 2019-07-01

PROJECT STATUS

Planned

ASSOCIATED PROJECTS**PROJECT TYPE**

Field work

DISCIPLINE

Marine biology

PROJECT KEYWORDS

Biosphere / aquatic ecosystems / marine habitat

Human dimensions / environmental impacts / contaminants

Biosphere / aquatic ecosystems / benthic habitat

Oceans / marine biology / marine invertebrates

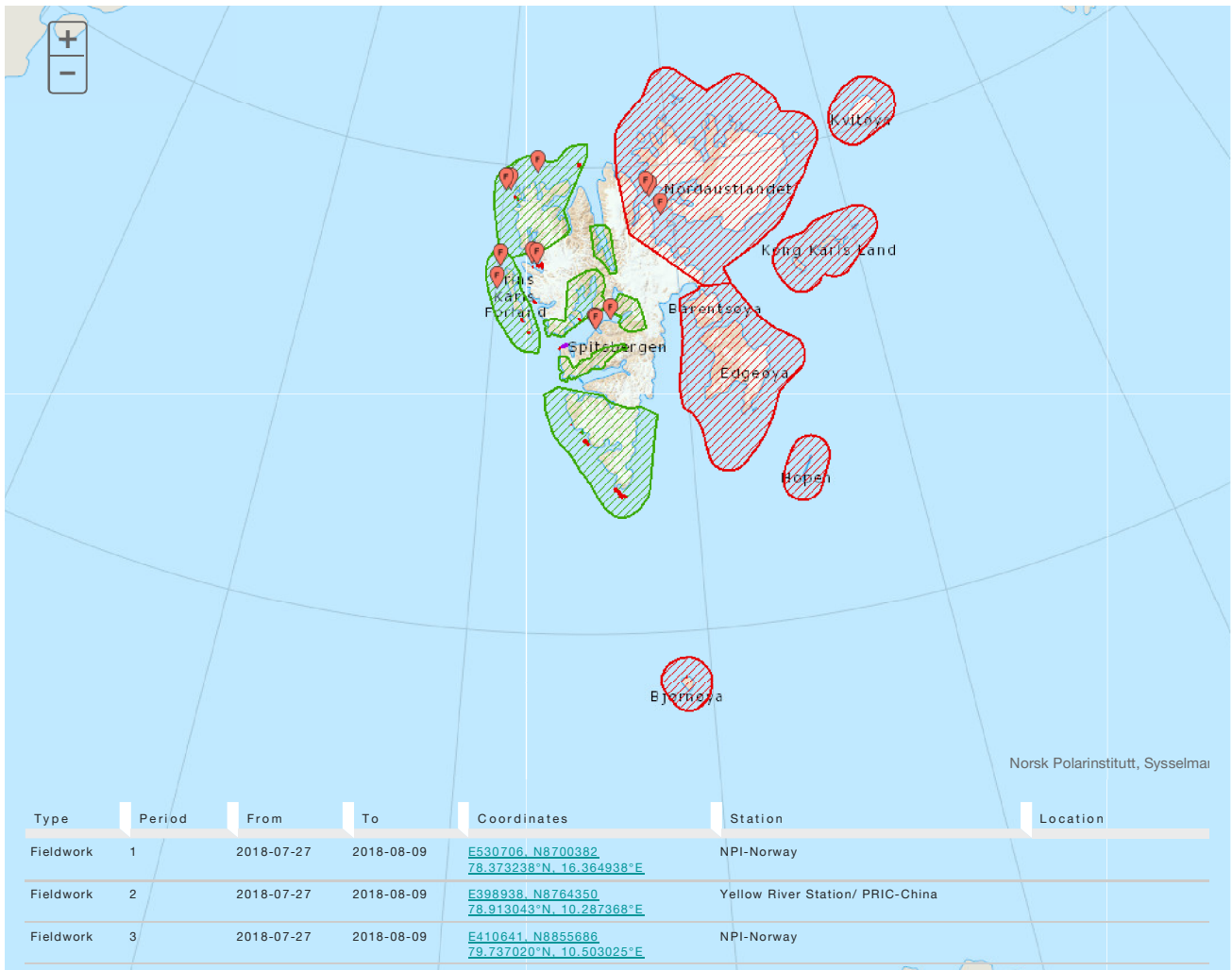
Oceans / marine biology / fish

Oceans / marine biology / marine microbiota

Cryosphere / sea ice / ice growth/melt

Climate indicators / biospheric indicators / range changes





Norsk Polarinstitutt, Sysselmat

Type	Period	From	To	Coordinates	Station	Location
Fieldwork	1	2018-07-27	2018-08-09	E530706, N8700382 78.373238°N, 16.364938°E	NPI-Norway	
Fieldwork	2	2018-07-27	2018-08-09	E398938, N8764350 78.913043°N, 10.287368°E	Yellow River Station/ PRIC-China	
Fieldwork	3	2018-07-27	2018-08-09	E410641, N8855686 79.737020°N, 10.503025°E	NPI-Norway	
Fieldwork	4	2018-07-27	2018-08-09	E575667, N8847816 79.675407°N, 18.784388°E	(no station)	
Fieldwork	5	2018-07-27	2018-08-09	E511333, N8689394 78.277559°N, 15.499681°E	Longyearbyen	
Fieldwork	6	2018-07-27	2018-08-09	E436210, N8767944 78.967184°N, 12.012857°E	Yellow River Station/ PRIC-China	
Fieldwork	7	2018-07-27	2018-08-09	E511950, N8688005 78.265065°N, 15.526333°E	Longyearbyen	Spitsbergen
Fieldwork	8	2018-07-27	2018-08-09	E441432, N8766183 78.953719°N, 12.260876°E	Yellow River Station/ PRIC-China	Prins Karls Forland
Fieldwork	9	2018-07-27	2018-08-09	E394629, N8737992 78.674545°N, 10.188377°E	NPI-Norway	Prins Karls Forland
Fieldwork	10	2018-07-27	2018-08-09	E405723, N8856174 79.737885°N, 10.254613°E	NPI-Norway	Prins Karls Forland
Fieldwork	11	2018-07-27	2018-08-09	E443898, N8875736 79.935163°N, 12.123330°E	Yellow River Station/ PRIC-China	Prins Karls Forland
Fieldwork	12	2018-07-27	2018-08-09	E571968, N8851148 79.707300°N, 18.610197°E	NPI-Norway	Nordaustlandet
Fieldwork	13	2018-07-27	2018-08-09	E589213, N8826507 79.476472°N, 19.379470°E	Yellow River Station/ PRIC-China	Nordaustlandet

SUMMARY

Svalbard area is one of the sensitive areas for the impact of changing in water temperatures and sea ice melting. The purposes of this project are 1) to investigate the impact of climate change on marine benthic communities and 2) to investigate the accumulation of microplastics on marine benthic organisms. The survey data of marine benthic and fish communities from this study will be compared with the previous data and previous surveys to analyze the changes of the communities overtimes. In addition, the accumulation of microplastics in marine invertebrates, fish, and sea ice will be investigated. Both field and laboratory work will be conducted. To survey marine communities, scuba diving along with transects and photo quadrats will be used. In addition, the uptake rates of microplastics on marine invertebrates and fish will be determined.

PROJECT MEMBERS

[Suchana Chavanich](#)

Project Owner

CU

[Voranoop Vivakarn](#)

Investigator

CU

PARTICIPATING INSTITUTIONS

[Chulalongkorn University \(CU\)](#)

Marine Science
Responsible institution
Thailand

[Norwegian Polar Institute \(NPI\)](#)

Norsk Polarinstitutt
Participating institution
Norway

[Polar Research Institute of China \(PRIC\)](#)

All
Participating institution
China

[The University Centre in Svalbard \(UNIS\)](#)

Department of Arctic Biology
Participating institution
Norway

PROJECT UPDATES

No updates yet

PUBLICATIONS

No publications yet

DATASET

No dataset yet