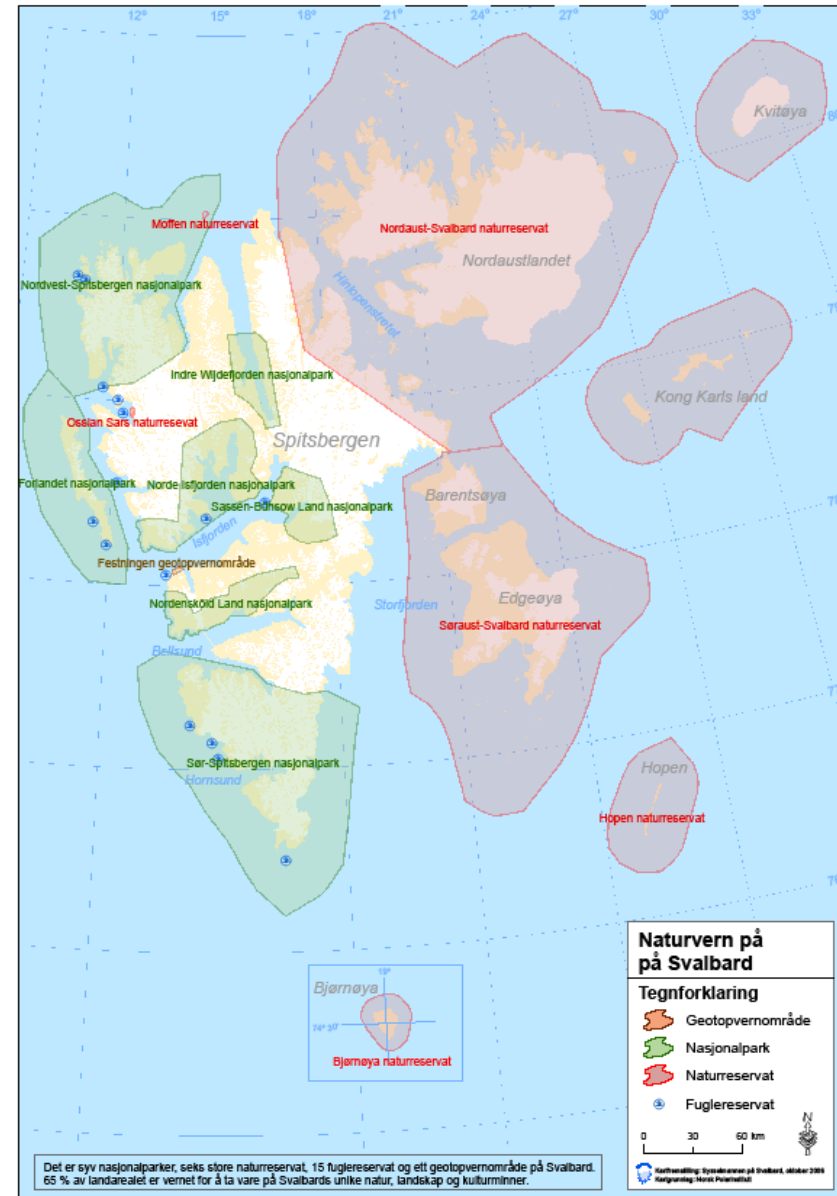


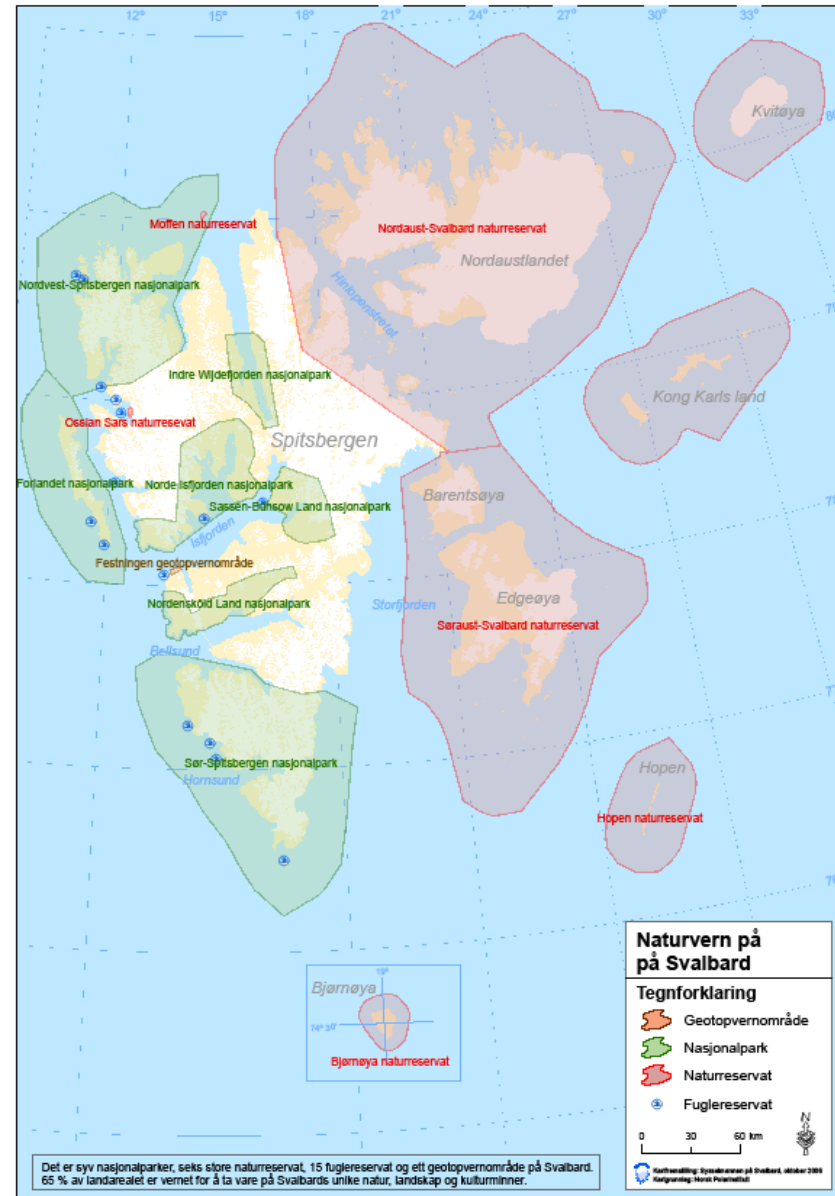
# Selected projects of science, teaching and logistics at UNIS during summer and fall 2009.

1. Terrestrial activities
2. Activities at sea, cruises.
3. New cooperation projects at UNIS
4. Unsolved challenges



# Terrestrial activities

1. IPY field school
2. AG-338
3. High Arctic Invertebrate..
4. Field camp in Bilefjorden
5. Master projects in Geology
6. Biology in Bockfjorden
7. Geology project UNIS / ENI
8. Geology project in Woodfjorden
9. Dynamics of calving glaciers...
10. Longyearbyen CO2 lab
11. Use of Kapp Linne
12. Activities elsewhere..



# IPY field school

## Main activity / study area

An Interdisciplinary introduction to environmental change in the Polar areas.

## Responsible scientist and institution

Hanne Christensen and Elise Strømseng  
UNIS, IPY Norway, Uarctic and APECS

## Number of participants

22 – 25

## Period

15.06.09 – 03.07.09

## Area

Longyearbyen, Kapp Linne, Isfjorden

## Transportation

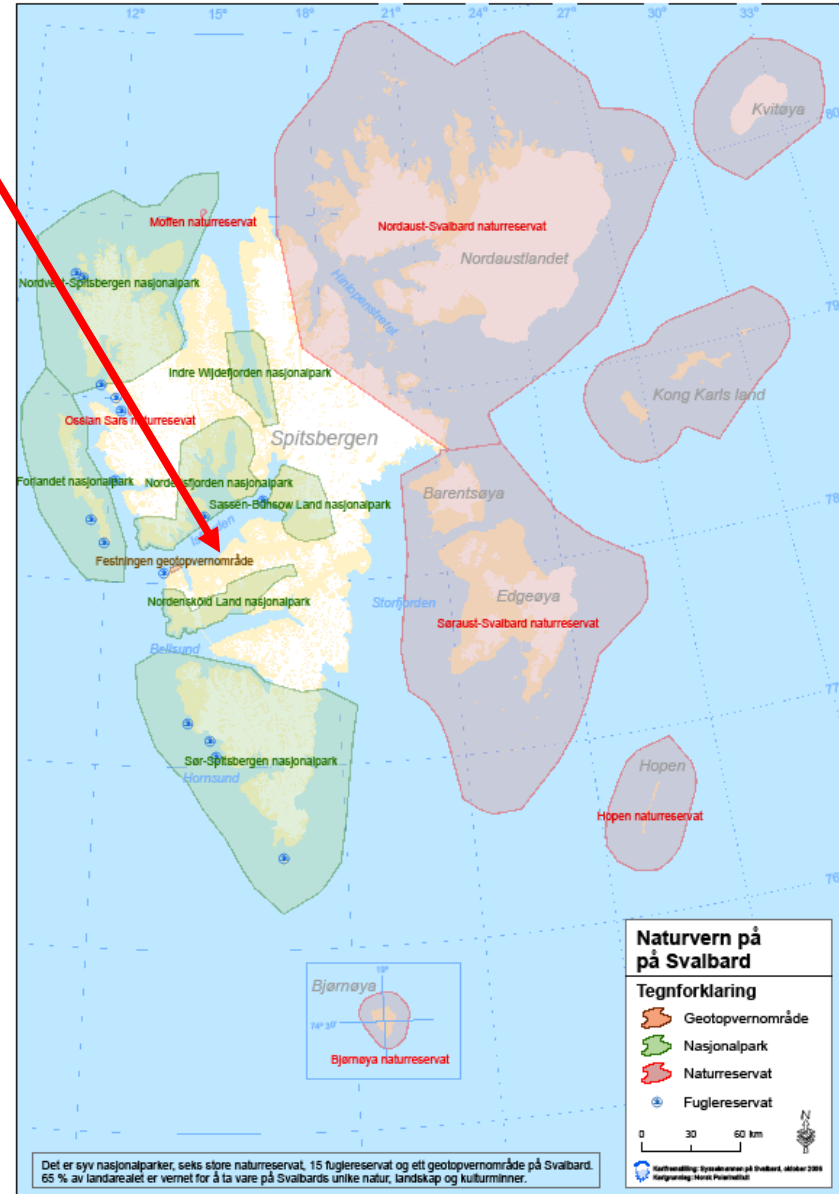
Small boats (Polarcirkel and Viking Explorer)

## Special circumstances / need of permission

None

## Special HSE aspects

None



AG-338

**Main activity / study area**

New field course in Sedimentology

**Responsible scientist and institution**

Maria Jensen, UNIS

**Number of participants**

Ca 15

**Period**

15.06.09 – 10.07.09

**Area**

Longyearbyen, Isfjorden, Svea

**Transportation**

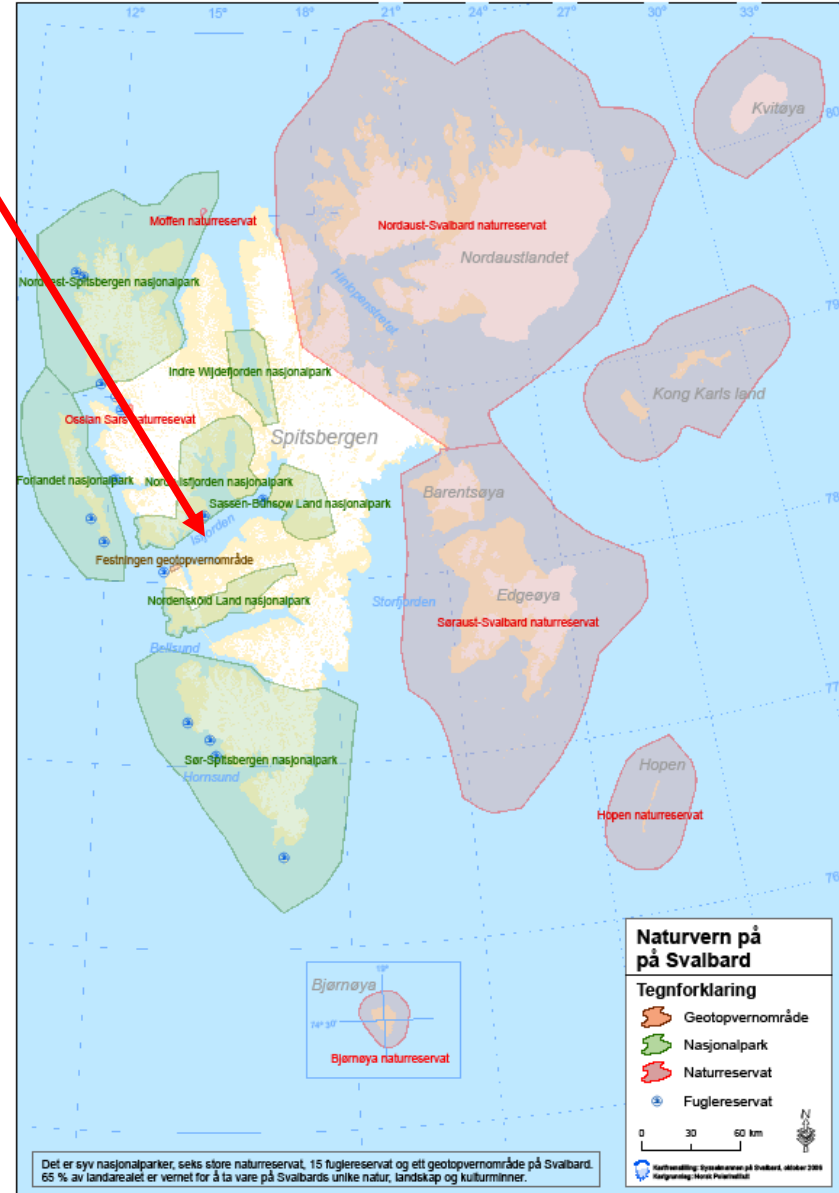
Boat and plane

**Special circumstances / need of permission**

Will probably establish field camp in isfjorden area

**Special HSE aspects**

None



# High Arctic Invertebrate Biogeography

## Main activity / study area

[Dispersal of invertebrates.](#)

## Responsible scientist and institution

María Luisa Ávila Jimnés, UNIS

## Number of participants

2-4

## Period

July and August

## Area

Adventdalen, Egdeøya, Kapp Laila, Ny Ålesund

## Transportation

Boat, plan and helicopter

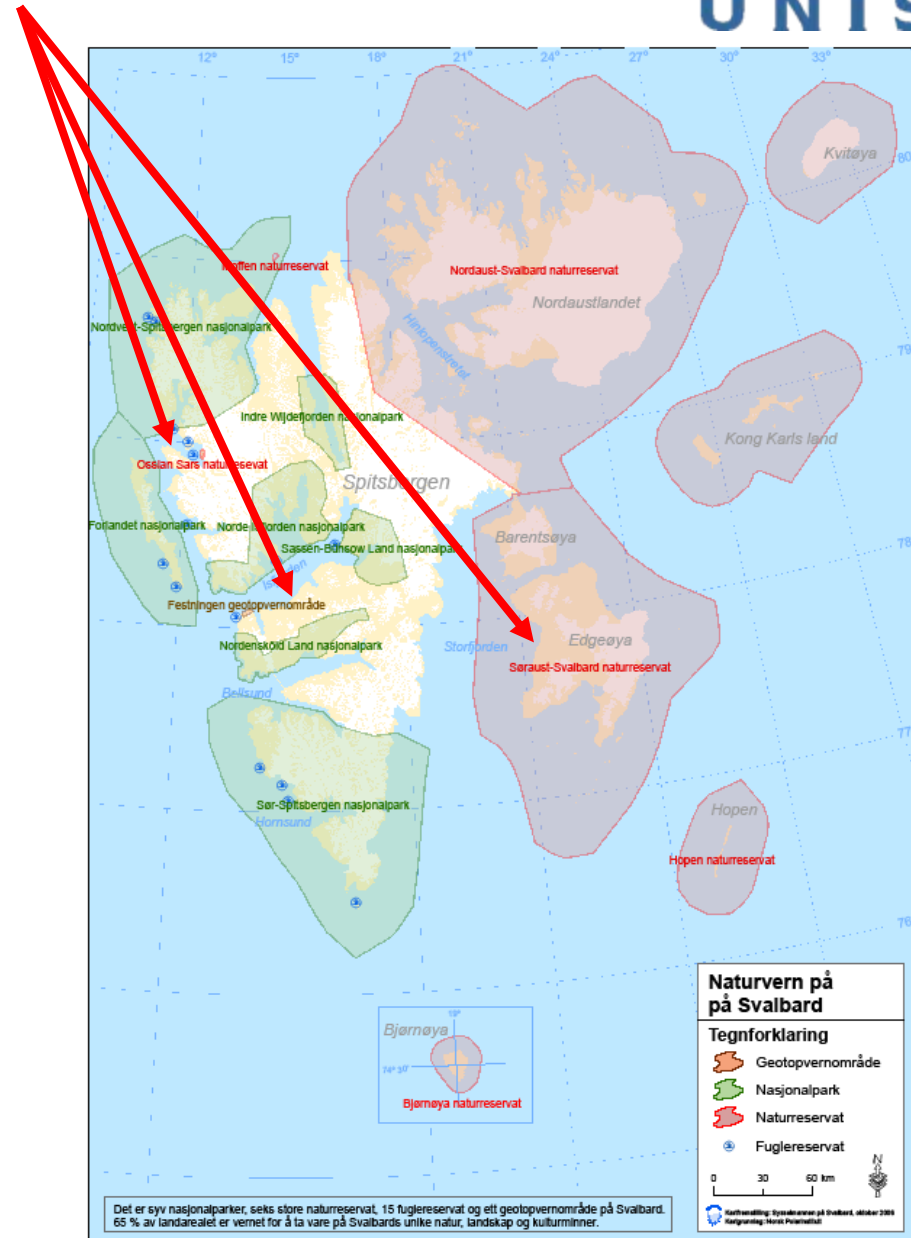
## Special circumstances / need of permission

Applications sent to the Governors office.

Will probably establish small field camps

## Special HSE aspects

None



# Fieldcamp in Billefjorden, Rudmosepynten

## Main activity / study area

Different Geo and Bio projects

## Responsible scientist and institution

UNIS

## Number of participants

Up to 50 pax

## Period

14.08.09 – 31.08.09

## Area

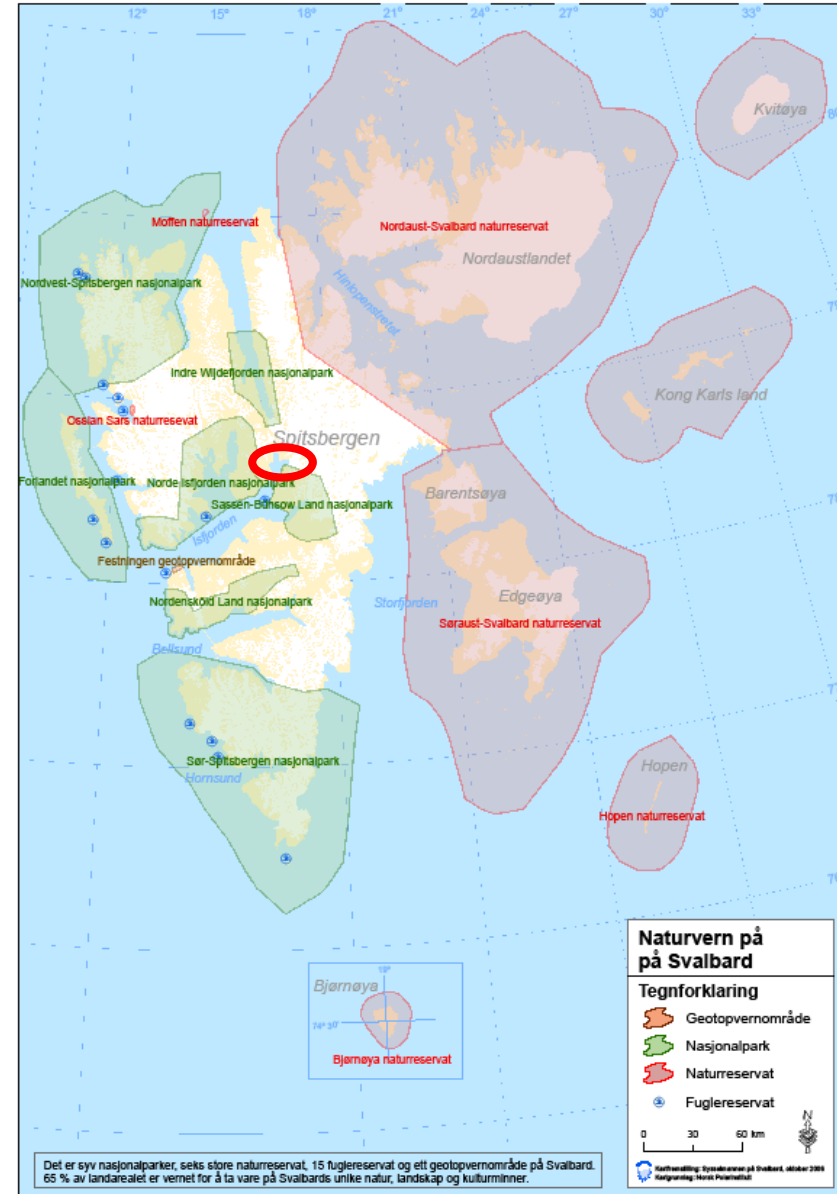
Billefjorden, Rudmosepynten

## Transportation

Boat

## Special circumstances / need of permission

## Special HSE aspects



# Master projects in geology

## Main activity / study area

Geology

## Responsible scientist and institution

William Helland Hansen, UNIS / UiB

## Number of participants

8 persons split in 4 different groups

## Period

15.07.09 – 23.08.09

## Area

Ringdalen, Van Keulen, Coles Bay and Rypefjella.

## Transportation

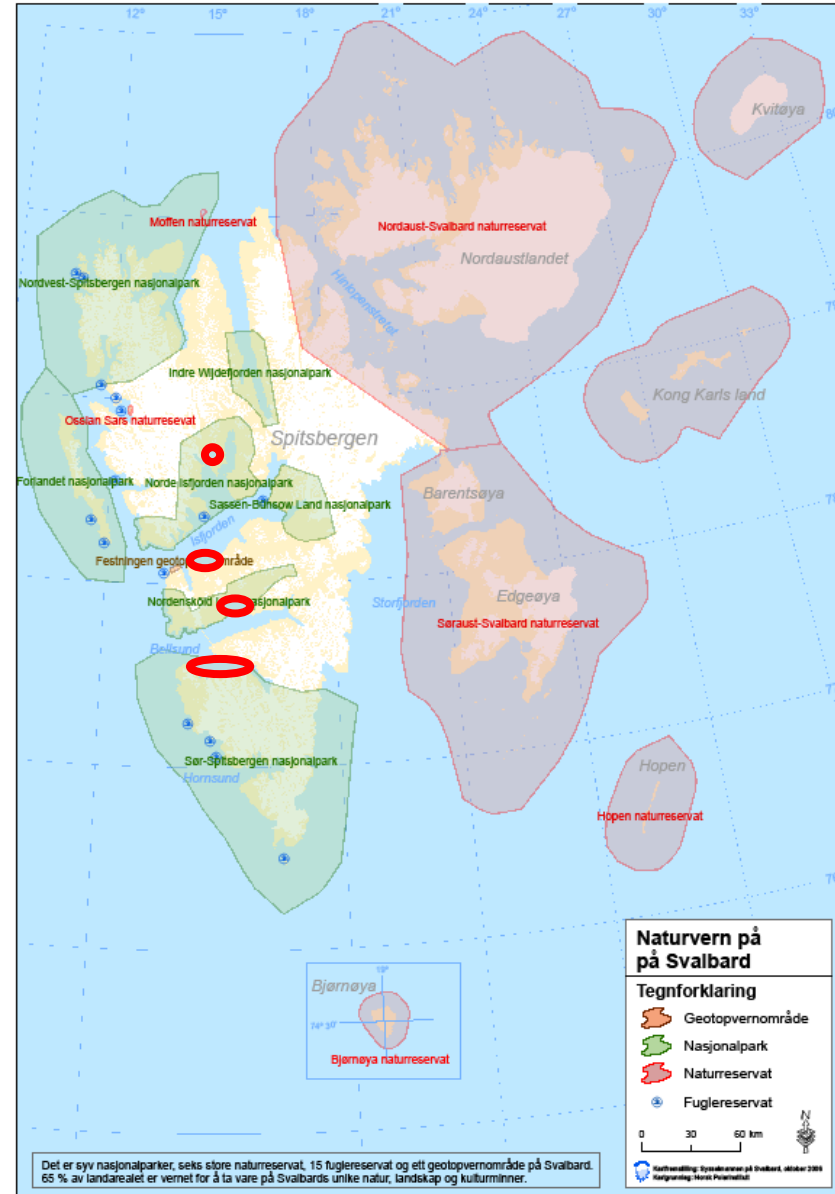
Boat and helicopter

## Special circumstances / need of permission

Needs permission for landing with helicopter

## Special HSE aspects

Small camps with few people, low threshold for aborting in case of polar bear trouble.





# Biology in Bockfjorden

## Main activity / study area

Studier av rødlistearter ved Trollkjeldene i Bockfjorden.

## Responsible scientist and institution

Inger Greve Alsos

## Number of participants

3

## Period

31.07 – 03.08

## Area

Bockfjorden

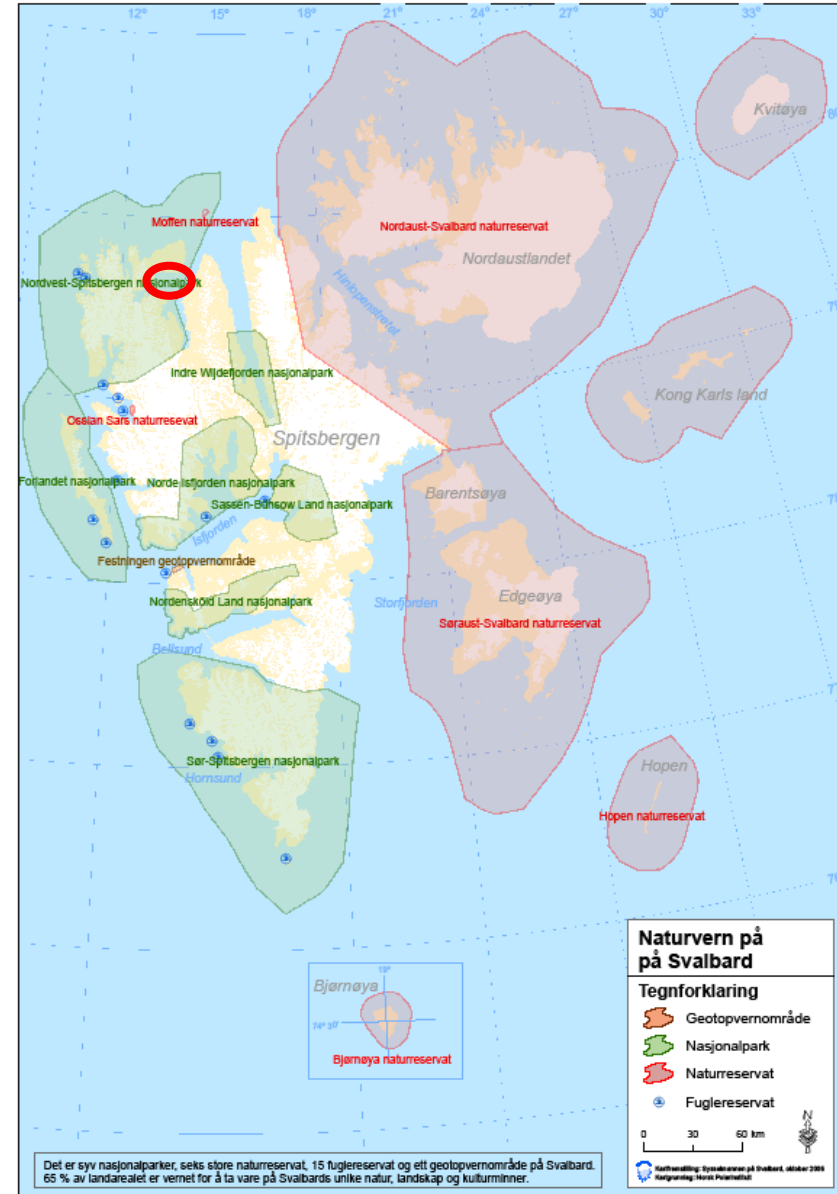
## Transportation

Helicopter

## Special circumstances / need of permission

Has got permission to land in Bockfjorden

## Special HSE aspects





# Geology cooperation projects UNIS / ENI

## Main activity / study area

Petroleum geology

## Responsible scientist and institution

Alvar Braathen, UNIS

Snorre Olausen, ENI

## Number of participants

4 - 10

## Period

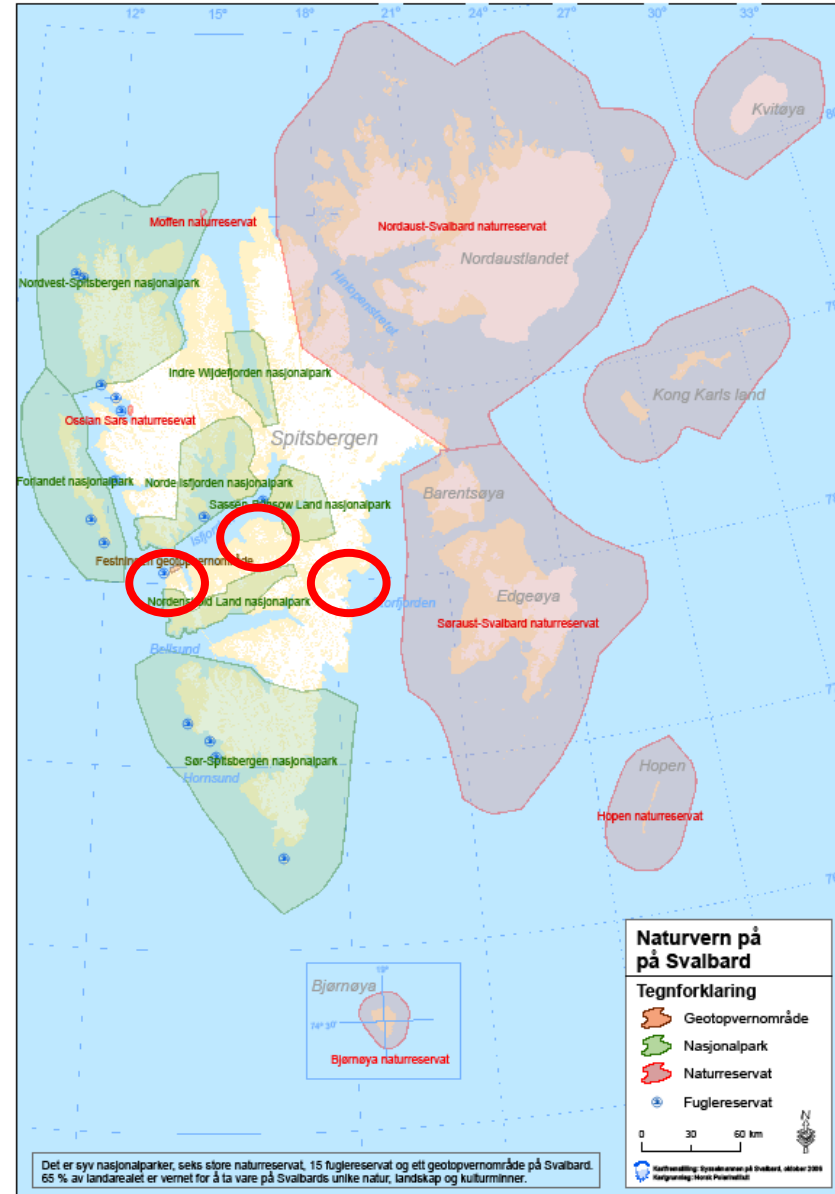
## Area

Revneset, Festningen, Agardh

## Transportation

## Special circumstances / need of permission

## Special HSE aspects



# Geology project on Germanianhalvøya, Woodfjorden

## Main activity / study area

Study faults along the contact between basement and Devonian rocks

## Responsible scientist and institution

Alvar Braathen, UNIS

## Number of participants

3

## Period

27.07 – 01.08

## Area

Woodfjorden

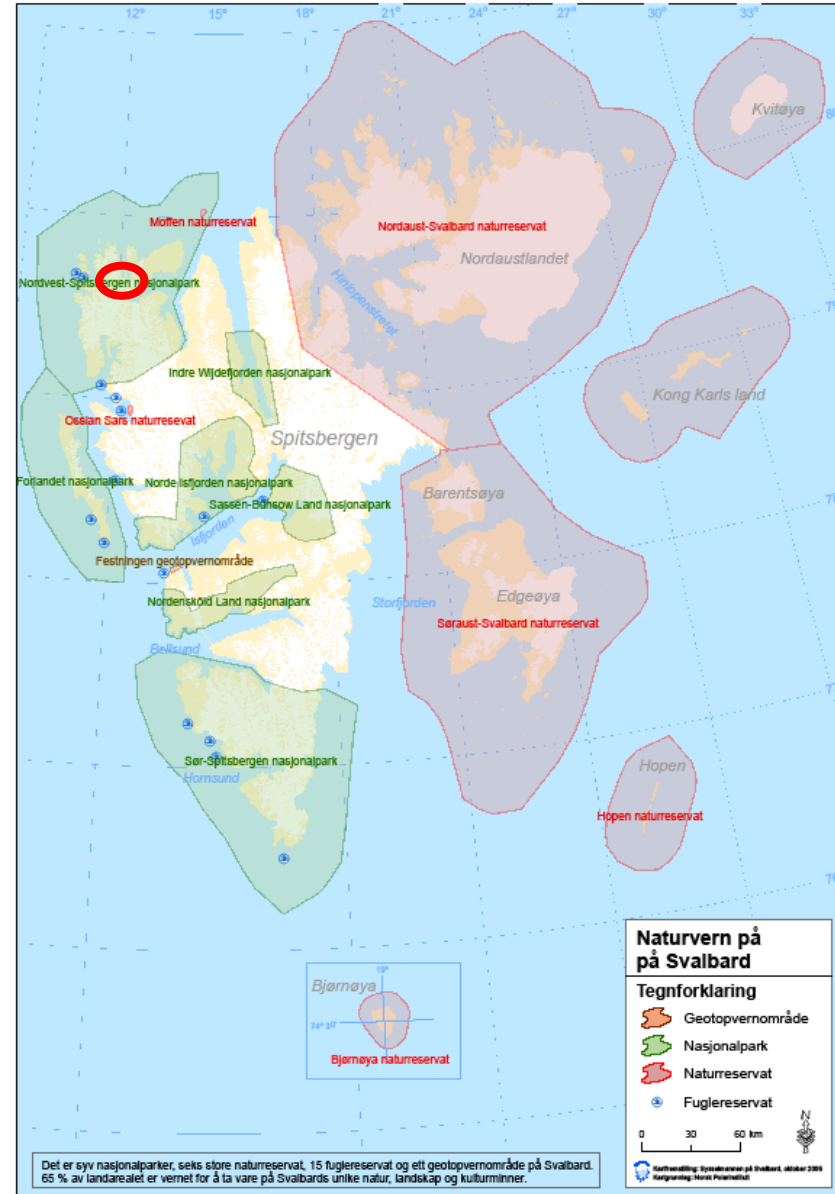
## Transportation

Helicopter

## Special circumstances / need of permission

Needs permission to land.

## Special HSE aspects



# Dynamics of calving and surging glaciers

## Main activity / study area

## Responsible scientist and institution

Monica Sund

## Number of participants

2

## Period

15.07 – 10.08

25.08 – 20.09

## Area

Main parts of Spitsbergen

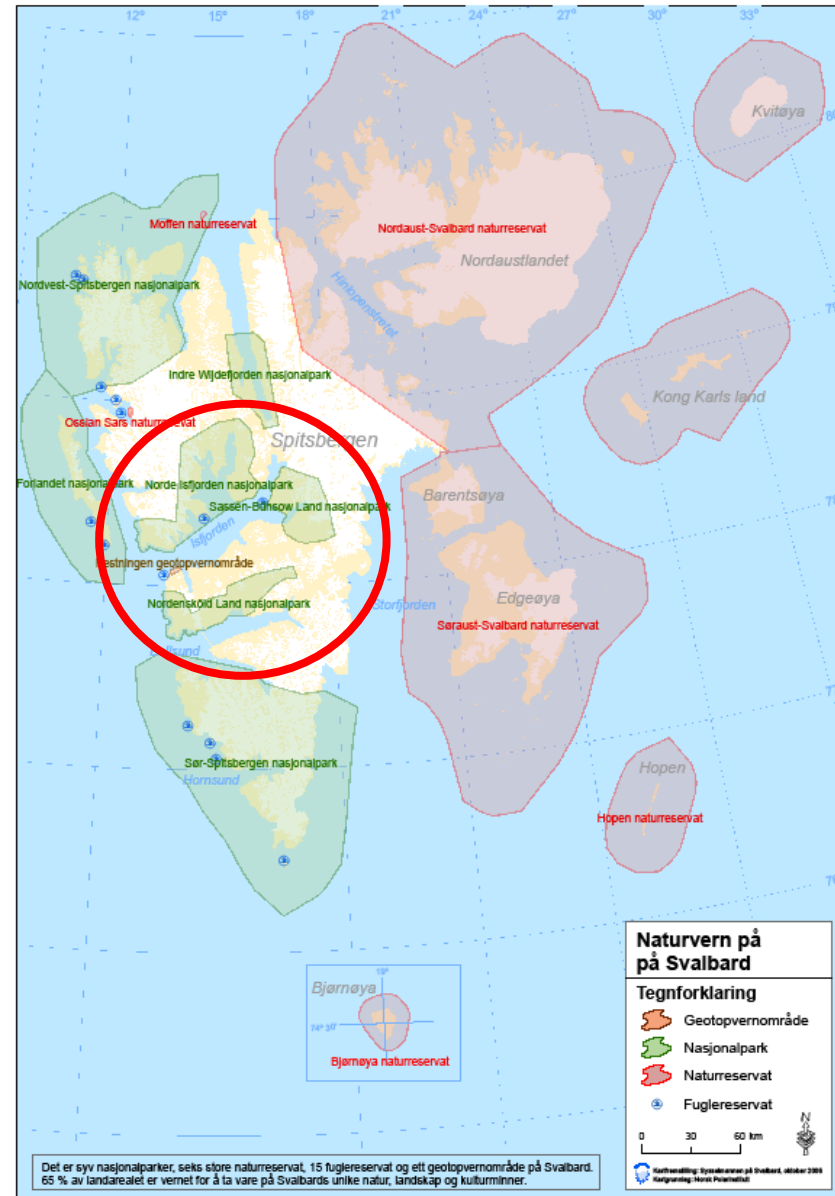
## Transportation

Helicopter

## Special circumstances / need of permission

Will need permission to land and also depends on cooperation with other projects.

## Special HSE aspects



# Longyearbyen CO2 lab.

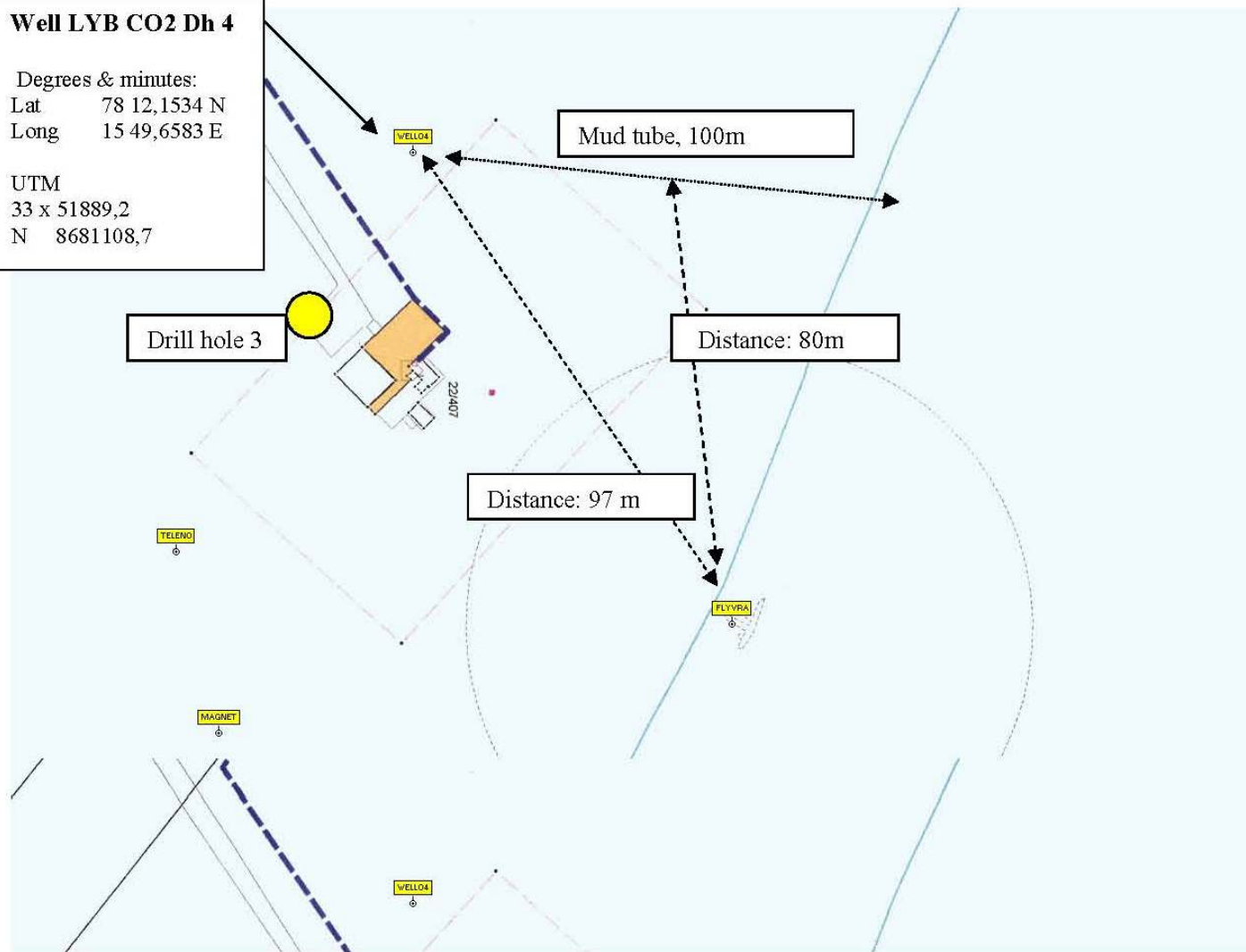
[Follow the drilling live...](#)

## Appendix 1. Position of drill hole 4.

### Well LYB CO2 Dh 4

Degrees & minutes:  
Lat 78 12,1534 N  
Long 15 49,6583 E

UTM  
33 x 51889,2  
N 8681108,7



# Use of Kapp Linne, Isfjord Radio

Different projects and groups

## Main activity / study area

Geology and biology studies

## Responsible scientist and institution

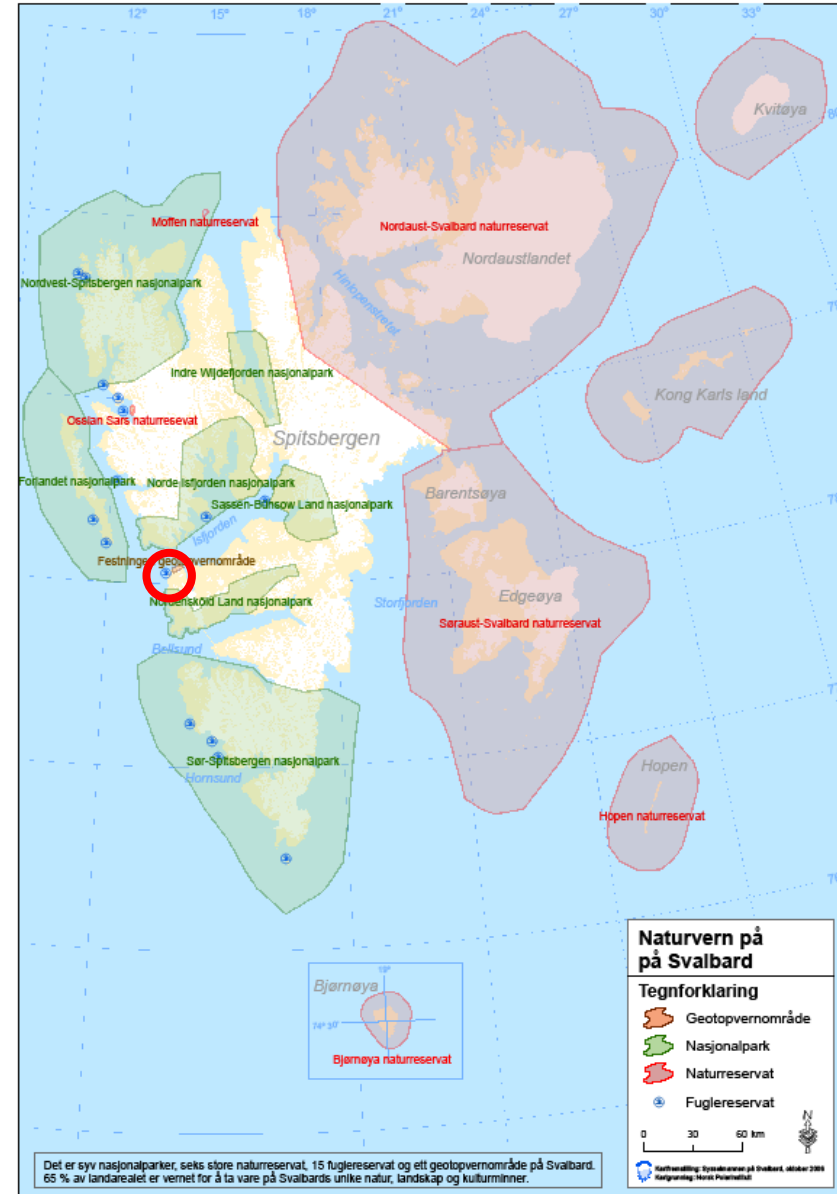
IPY Field school	27.06 – 28.06	30 pax
REU	23.07 – 04.08	11 pax
AB-201	09.08 – 11.08	21 pax
PhD T. Holm	18.07 – 24.07	2 pax
TSP Norway	05.08 – 10.08	4 pax

## Transportation

Lots of transportation with small boats (Polarcirkel)

## Special circumstances / need of permission

## Special HSE aspects



# Activities and fieldwork elsewhere..

## Svea

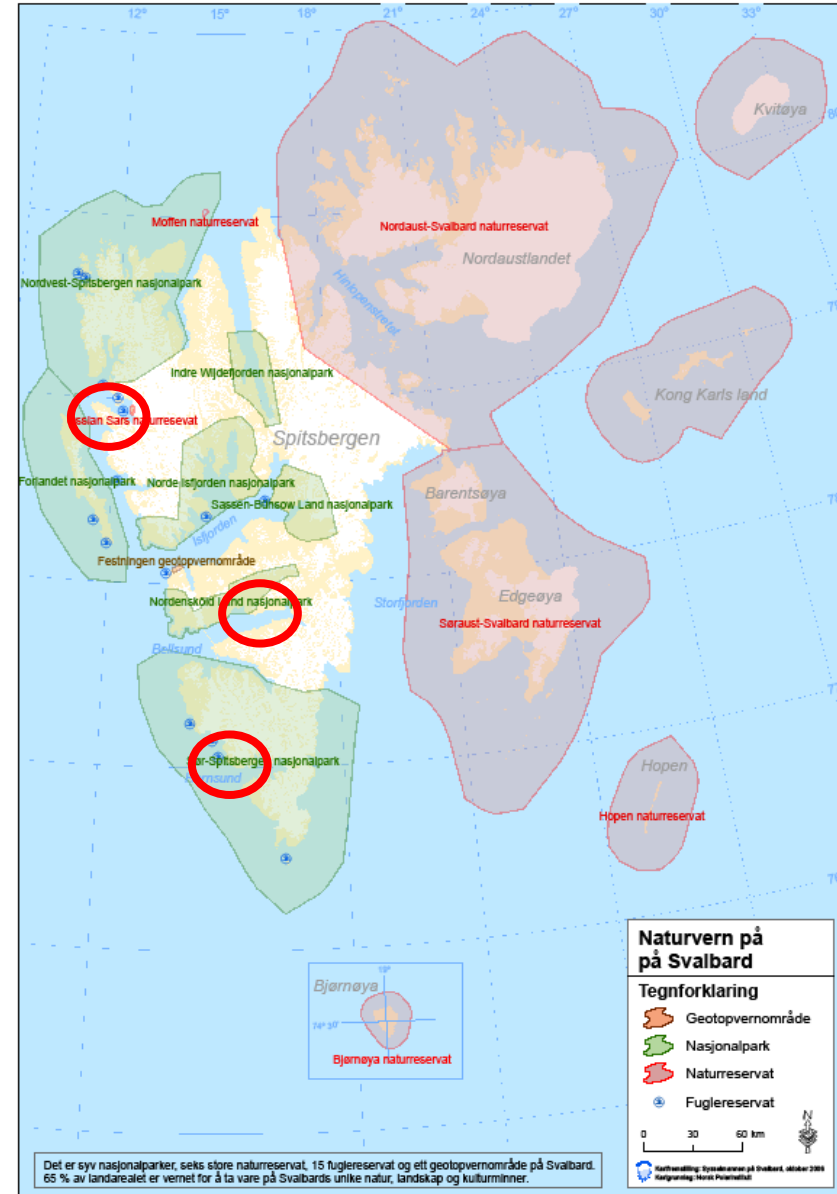
Fieldwork for courses, master and PhD

## Hornsund

PhD fieldwork

## Ny Ålesund

Fieldwork for courses, master, PhD and science projects.





# Projects at sea, Cruises



UNIS uses the following Wessel's this summer:

KV Kongsøy;	11.07 – 26.08
RV Jan Mayen;	17.08 – 07.09
RV Håkon Mosby;	05.09 – 14.09
MS Expedition;	28.08 – 04.09
RV SABVABAA	June – september
Viking Explorer	Whole season



Wind Generator and Solar Panels are powering an autonomous drifting seismic profiling buoy - under test



R/H Sabvabaa - Yermak Plateau - July 2008





# IPY project, Hovercraft

## Main activity / study area

1. [Three cruises up to 81° with scientists and high school students.](#)
2. Deployment of seismic byes
3. Cooperation wit AWI and “Polar stern”

## Responsible scientist and institution

Yngve Kristoffersen, UiB

## Number of participants

2 – 4

## Period

June to September

## Area

Along west coast of Spitsbergen, up to 81°

## Transportation

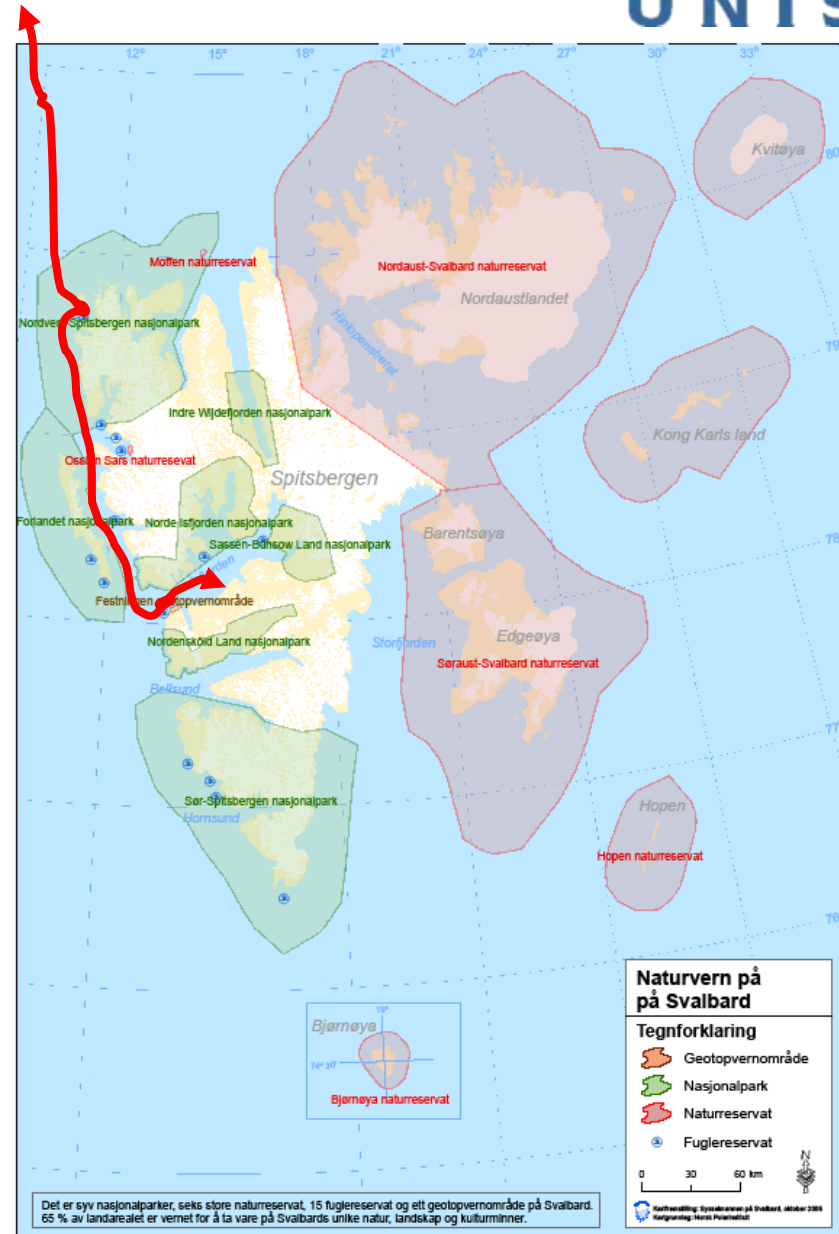
Hovercraft

## Special circumstances / need of permission

Applications sent to the Governor on Svalbard.  
 Fuel depot in Bjørnhamna  
 Probably need of assistant Wessel.

## Special HSE aspects

Special challenges and high HSE awareness.



# AB-326, Cruise with KV Kongsøy

## Main activity / study area

To introduce the flora, phylogeography and vegetation history of the Arctic

## Responsible scientist and institution

Inger Greve Alsos, UNIS

## Number of participants

Ca 25

## Period

18.07.09 – 25.07.09

## Area

Isfjorden, Kongsfjorden, Hornsund

## Transportation

Boat

## Special circumstances / need of permission

None

## Special HSE aspects

None



# AG-332, Cruise with KV Kongsøy

## Main activity / study area

An understanding of the Quaternary history of Svalbard, and of the long-term climatic fluctuations between glacial and interglacial periods in the Arctic.

## Responsible scientist and institution

Olafur Ingolfsson, UNIS

## Number of participants

Ca 25

## Period

26.07.09 – 03.08.09

## Area

Isfjorden, Kapp Linne, Brøggerhalvøya, Forlandet, Bellsund

## Transportation

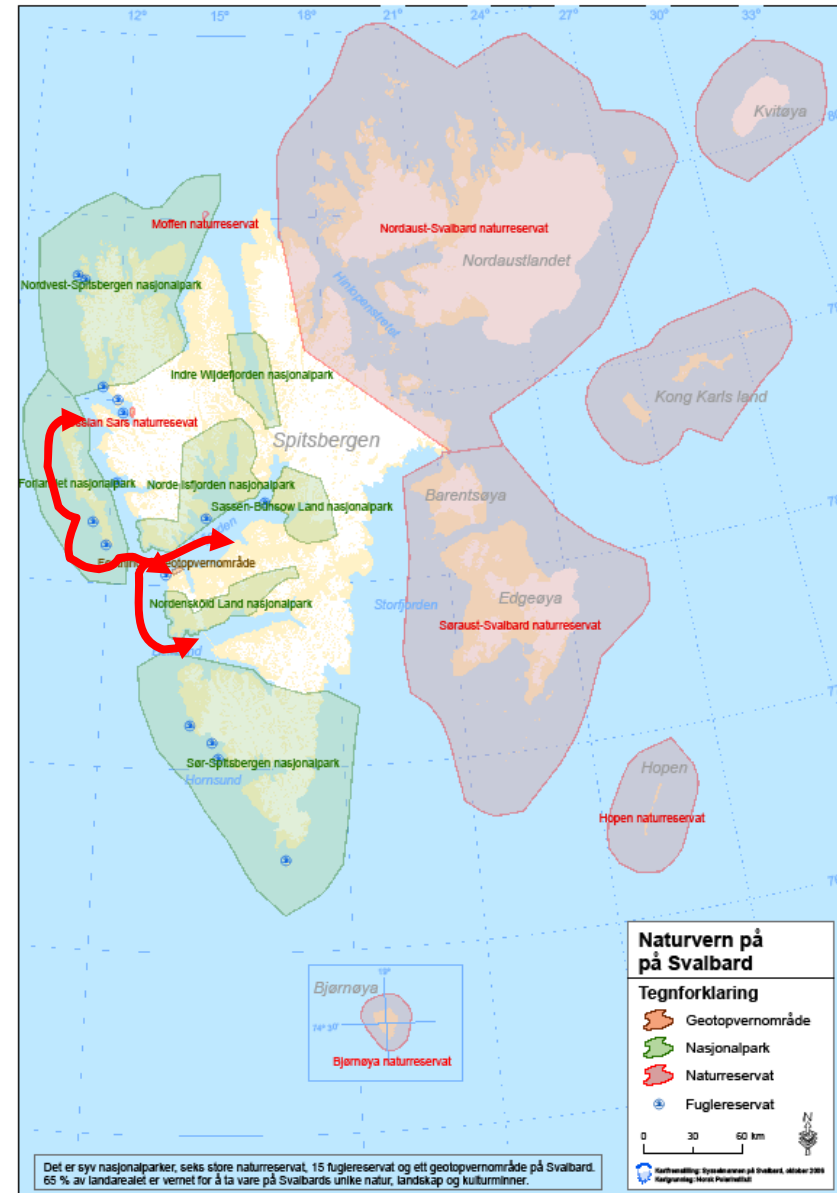
Boat

## Special circumstances / need of permission

Might need permission to land at Forlandet

## Special HSE aspects

None



# AB-201, Cruise with KV Kongsøy

## Main activity / study area

An introduction to terrestrial and fresh water biological communities of the Arctic.

## Responsible scientist and institution

Pernille Bronken Eidesen, UNIS

## Number of participants

Ca 25

## Period

04.08.09 – 09.08.09

## Area

Isfjorden, Hornsund, West coast of Spitsbergen

## Transportation

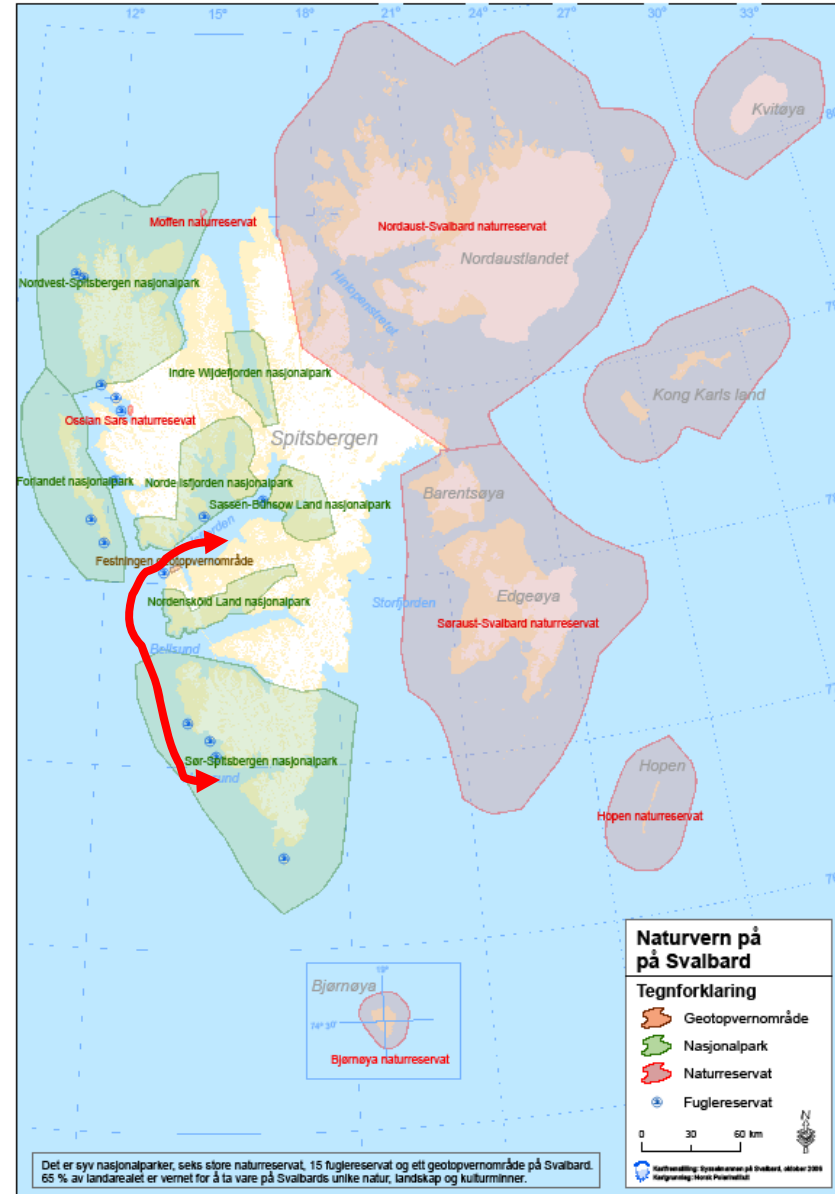
Boat

## Special circumstances / need of permission

None

## Special HSE aspects

None



# AG-210, Cruise with KV Kongsøy and RV Jan Mayen

## Main activity / study area

A thorough understanding of the Quaternary geological evolution of Svalbard and the Barents Sea.

## Responsible scientist and institution

Anne Hormes, UNIS

## Number of participants

Ca 20

## Period

24.08.09 – 27.08.09 (KV Kongsøy)

08.09.09 – 11.09.09 (RV Jan Mayen)

## Area

Isfjorden, Forlandet, Van Keulen

## Transportation

Boat

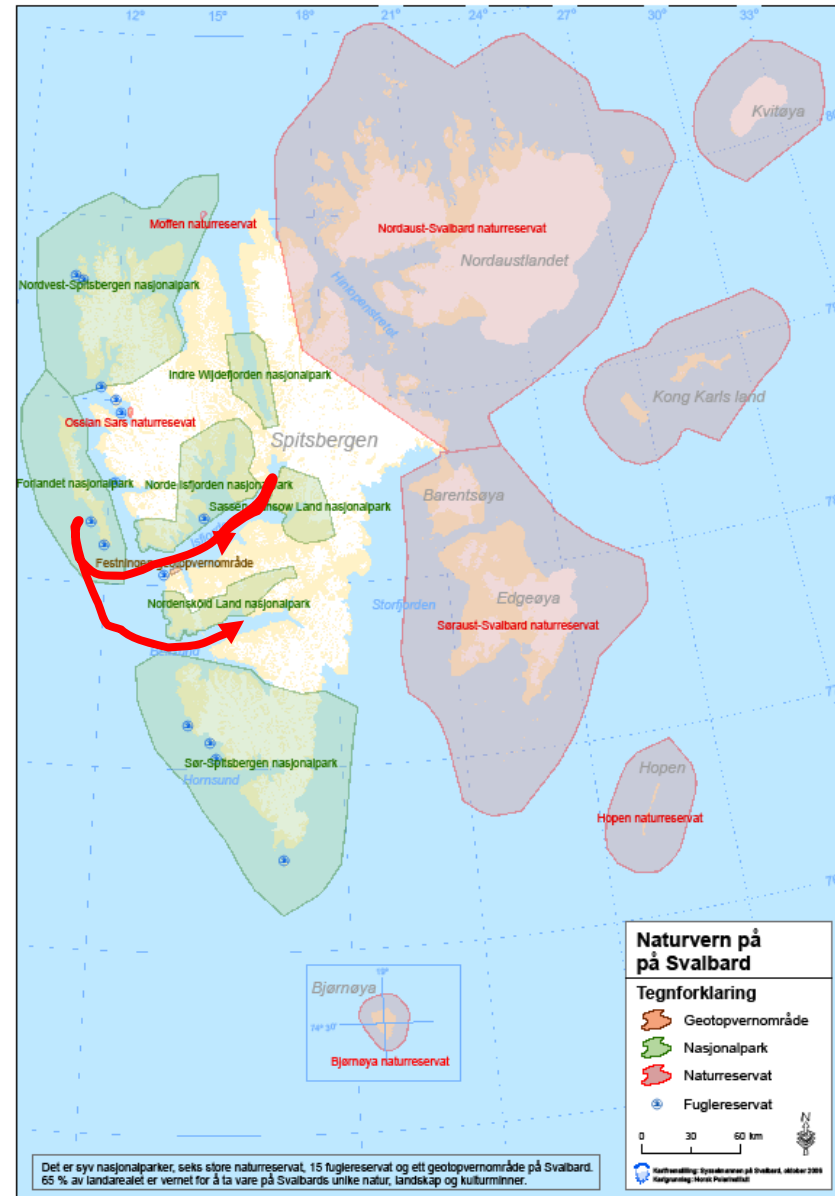
## Special circumstances / need of permission

Might need permission to land at Forlandet

Will probably establish field camp in Billefjorden (Rudmosepynten) in August.

## Special HSE aspects

None



# AB-202, Cruise with RV Jan Mayen

## Main activity / study area

An introduction to marine Arctic plants and animals, and their adaptations to the environment.

## Responsible scientist and institution

Jørgen Berge, UNIS

## Number of participants

Ca 25

## Period

17.08.09 – 23.08.09

## Area

Isfjorden, North West coast of Svalbard, The barents sea.

## Transportation

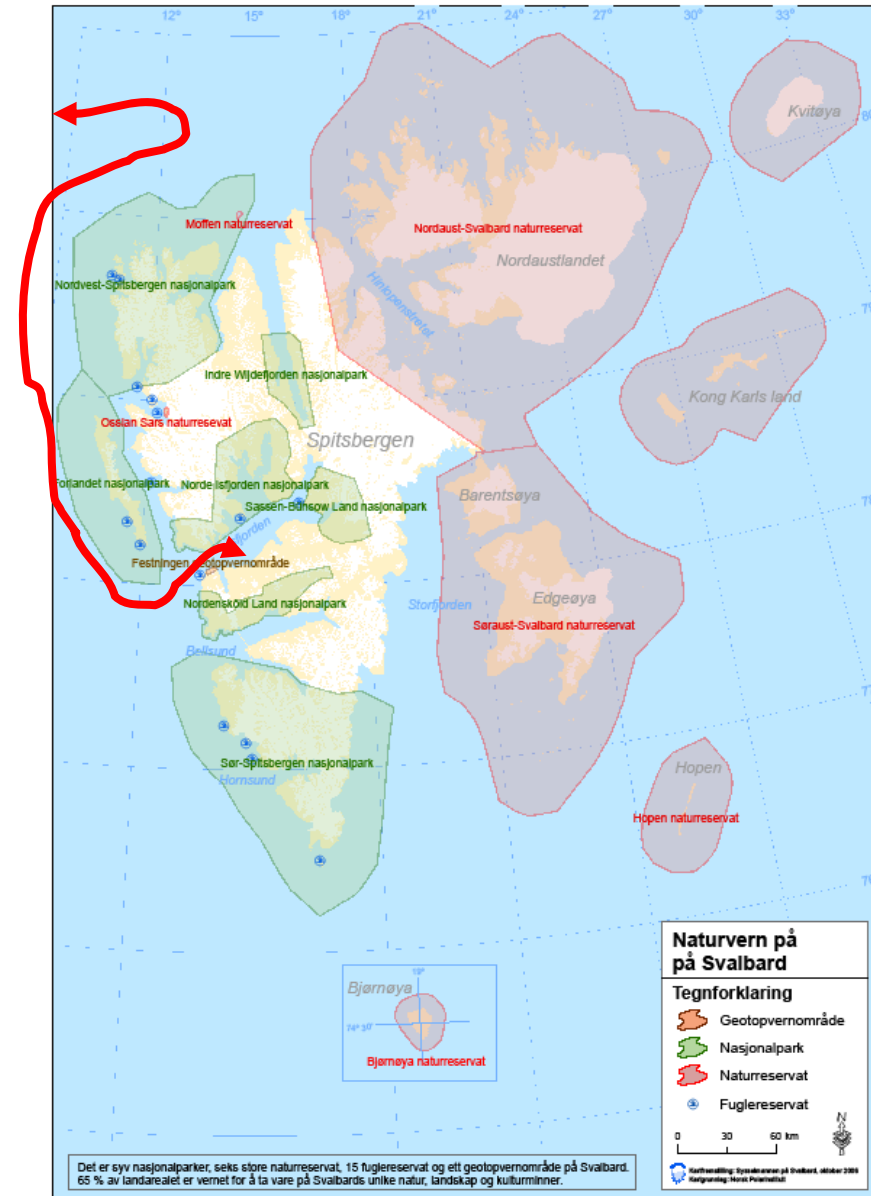
Boat

## Special circumstances / need of permission

None

## Special HSE aspects

None





# AB- 321, Cruise with RV Jan Mayen

## Main activity / study area

The animal life on Arctic seafloors, benthic population ecology and community features in relation to environmental conditions with focus on invertebrates.

## Responsible scientist and institution

Bjørn Gulliksen / Jørgen Berge, UNIS

## Number of participants

Ca 25

## Period

24.08.09 – 06.09.09

## Area

Isfjorden, North West coast of Svalbard, The barents sea.

## Transportation

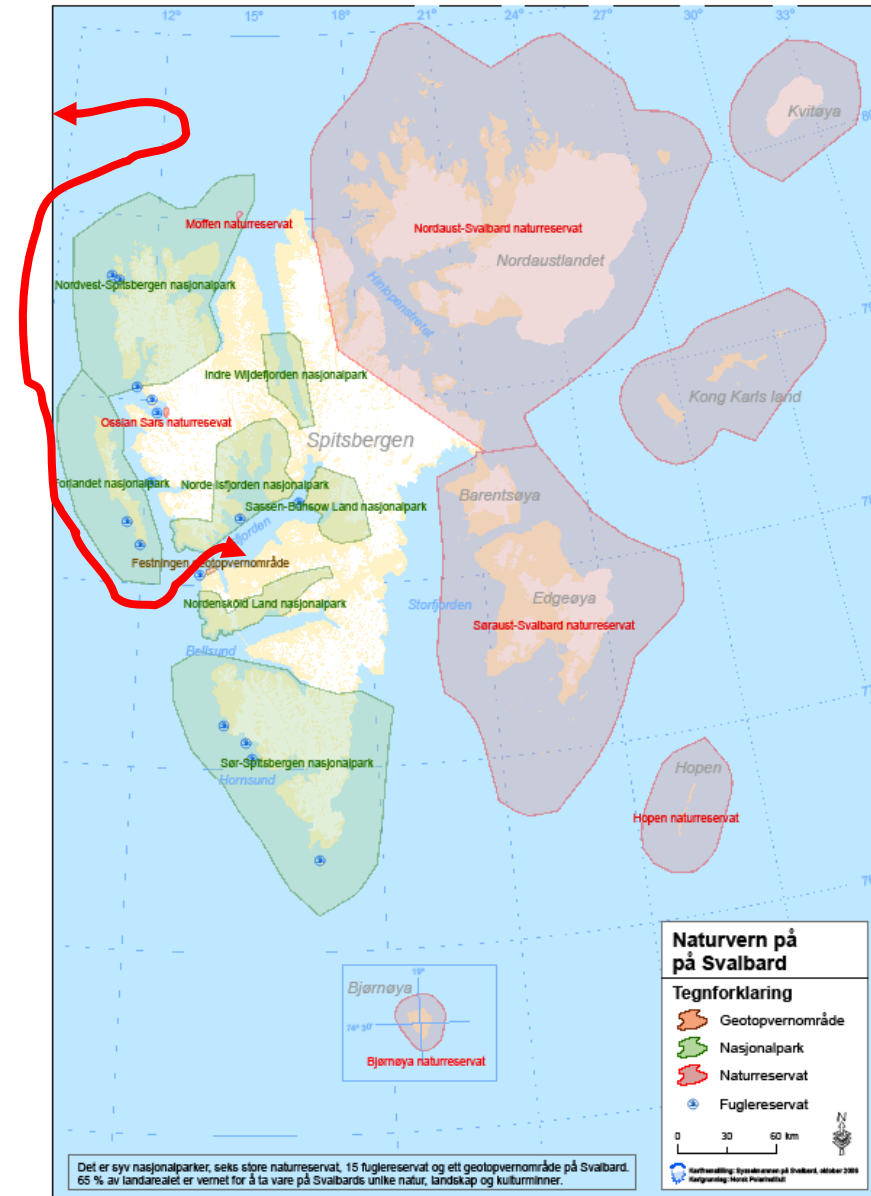
Boat

## Special circumstances / need of permission

Needs permission for trawling.

## Special HSE aspects

None





# AGF- 214, Cruise with Håkon Mosby

## Main activity / study area

An understanding of the dynamic and thermodynamic processes determining the circulation in the different Polar regions.

## Responsible scientist and institution

Frank Nilsen, UNIS

## Number of participants

Ca 20

## Period

06.09.09 – 15.09.09

## Area

Isfjorden, SW coast of Spitsbergen, Storfjorden

## Transportation

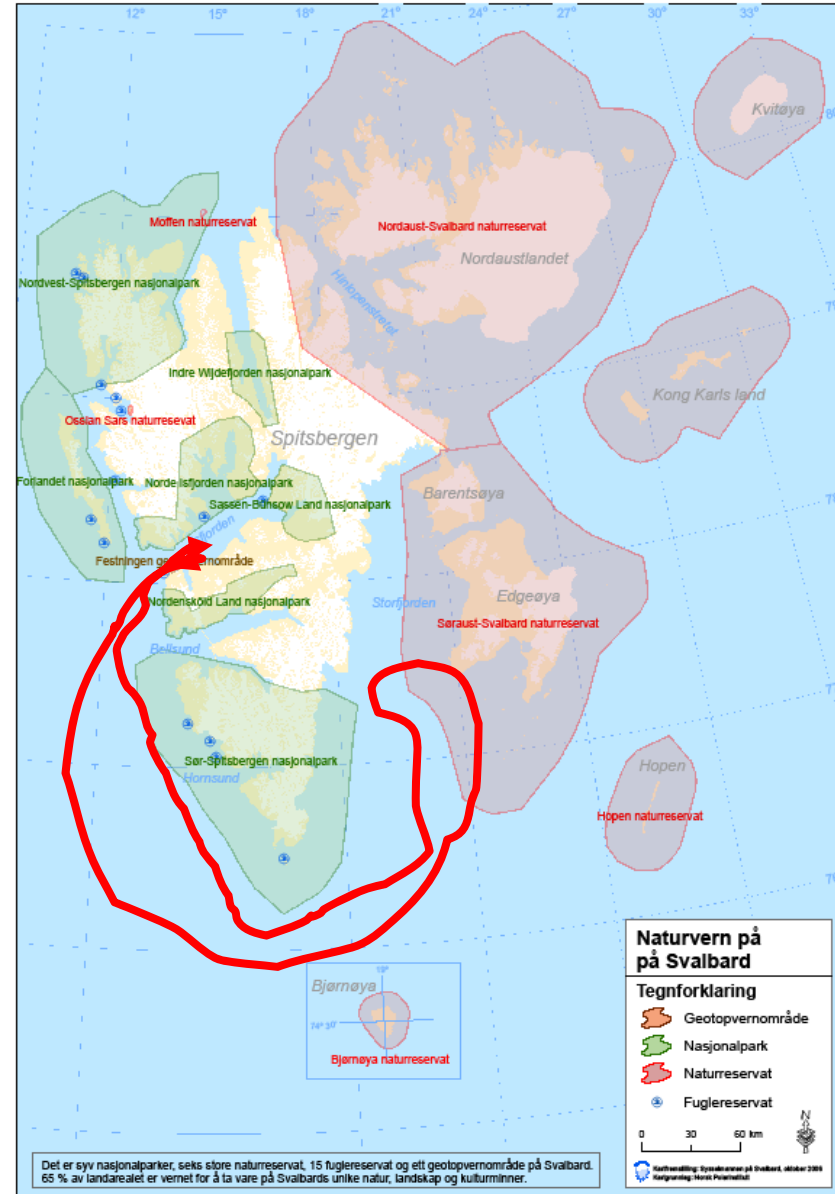
Boat

## Special circumstances / need of permission

None

## Special HSE aspects

None



# Svalex, Cruise with MS Expedition

## **Main activity / study area**

A multidisciplinary integration of students attending petroleum related courses at the Norwegian Universities UiO, UiB, NTNU, UiT, UiS and UNIS.

## **Responsible scientist and institution**

Egil Tjåland, NTNU

Logistics and HSE, Martin Indreiten, UNIS

## **Number of participants**

120

## **Period**

28.08.09 – 04.09.09

## **Area**

Isfjorden and Van Keulen

## **Transportation**

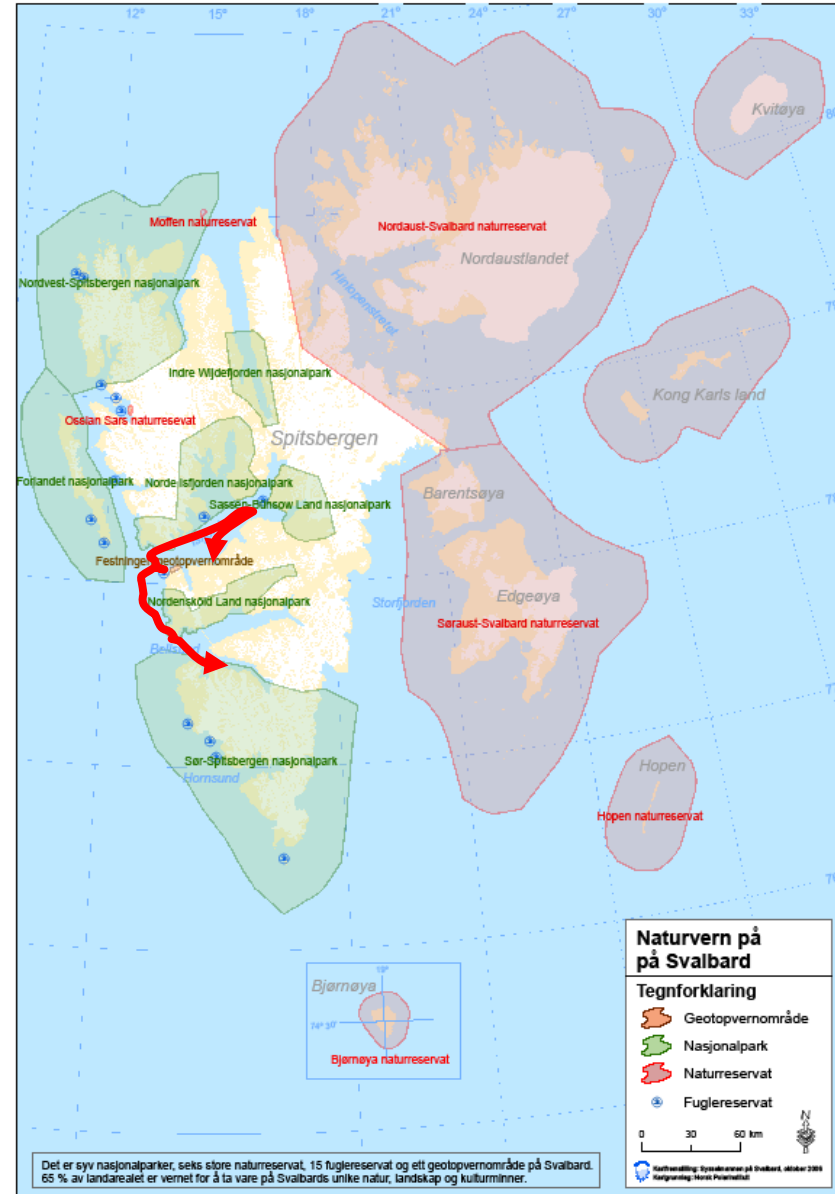
Boat

## **Special circumstances / need of permission**

None

## **Special HSE aspects**

Big groups of personnel landing 1 – 2 times each day.



# Use of the UNIS “sjark” Viking Explorer

## Main activity

IPY Field school                      week 26  
 Alkekonge, J. Berge                  week 30 and 31

In use one or two days, more or less each week through July and August for smaller projects.

## Responsible scientist and institution

John Inge Karlsen, UNIS

## Number of participants

Max 11

## Special HSE aspects

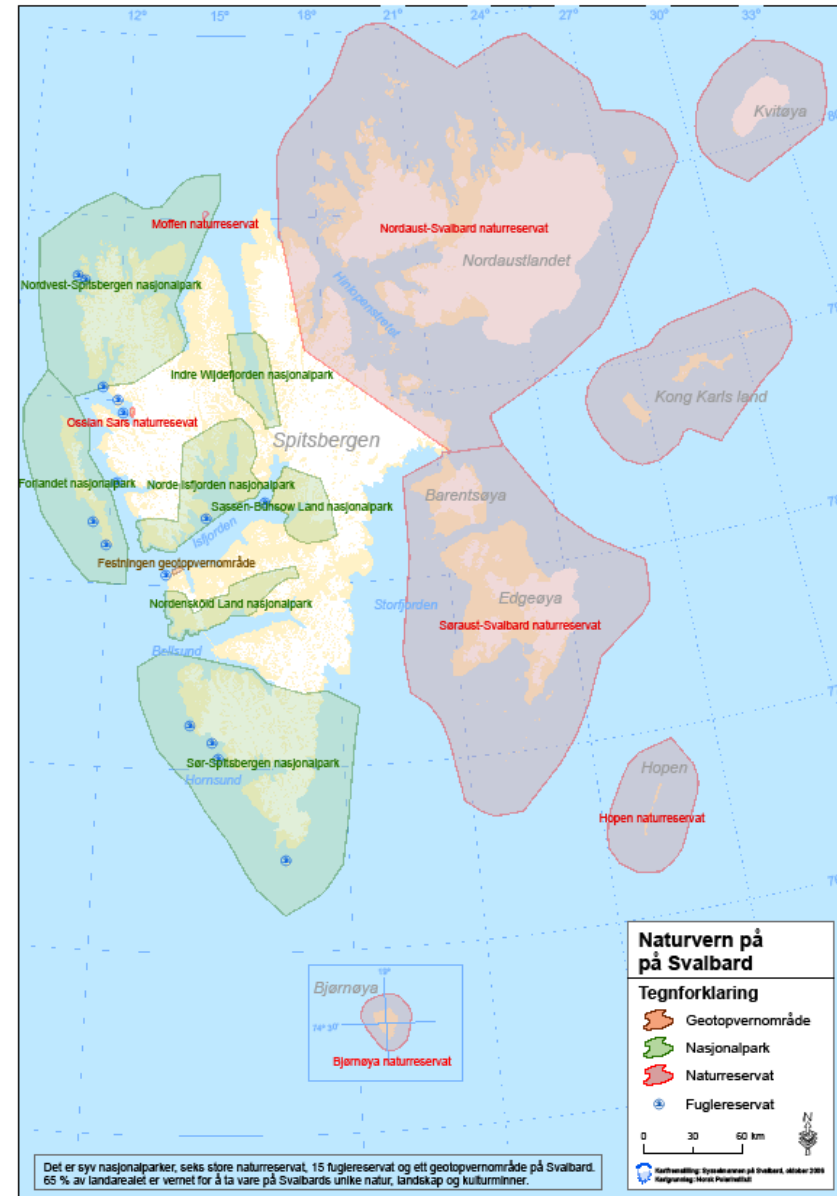
Needs UNIS safety course

The boat will be located on Svalbard during all summer and autumn and will be on the water as long as the ice conditions allows.



# New cooperating projects at UNIS

1. Arctic Nature Guide
2. GTO
3. Youth camp Billefjorden



# Arctic Nature Guide

A new international interdisciplinary study program in Svalbard for guides

## Main activity / study area

Enable the students to operate as professional guides and ambassadors of sustainable development through a combination of interdisciplinary qualifications, environmentally ethical perspectives and an educational fostering of communicator and counselling skills.

## Responsible scientist and institution

Høgskolen I Alta, UNIS and Svalbard Reiseliv as

## Number of participants

Ca 20

## Period

10.08.09 – May 2010

## Area

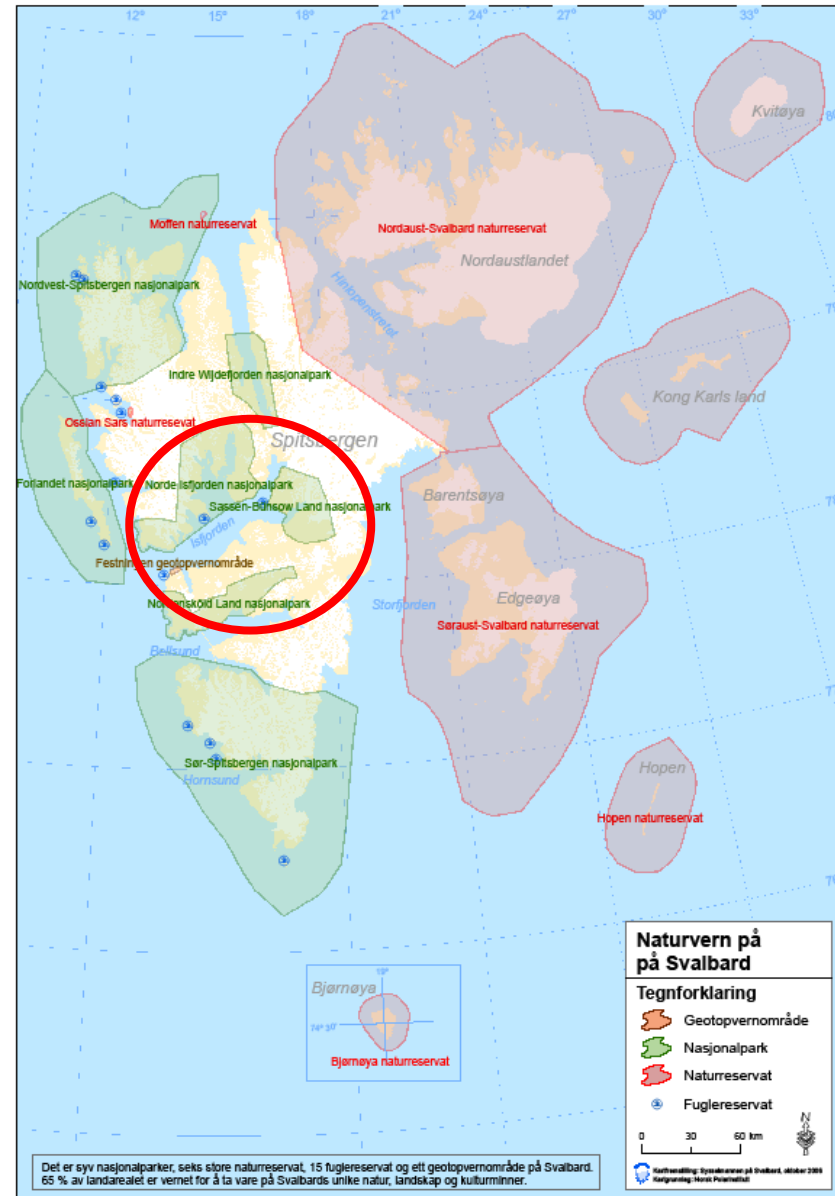
Spitsbergen

## Transportation

All kinds

## Special circumstances / need of permission

## Special HSE aspects



## Main activity / study area

Formålet med opplæringen er å styrke reisemålets profil, samt øke sikkerheten i turproduksjonen.

## Responsible scientist and institution

Svalbard Reiseliv bestiller, UNIS utfører.

## Number of participants

## Period

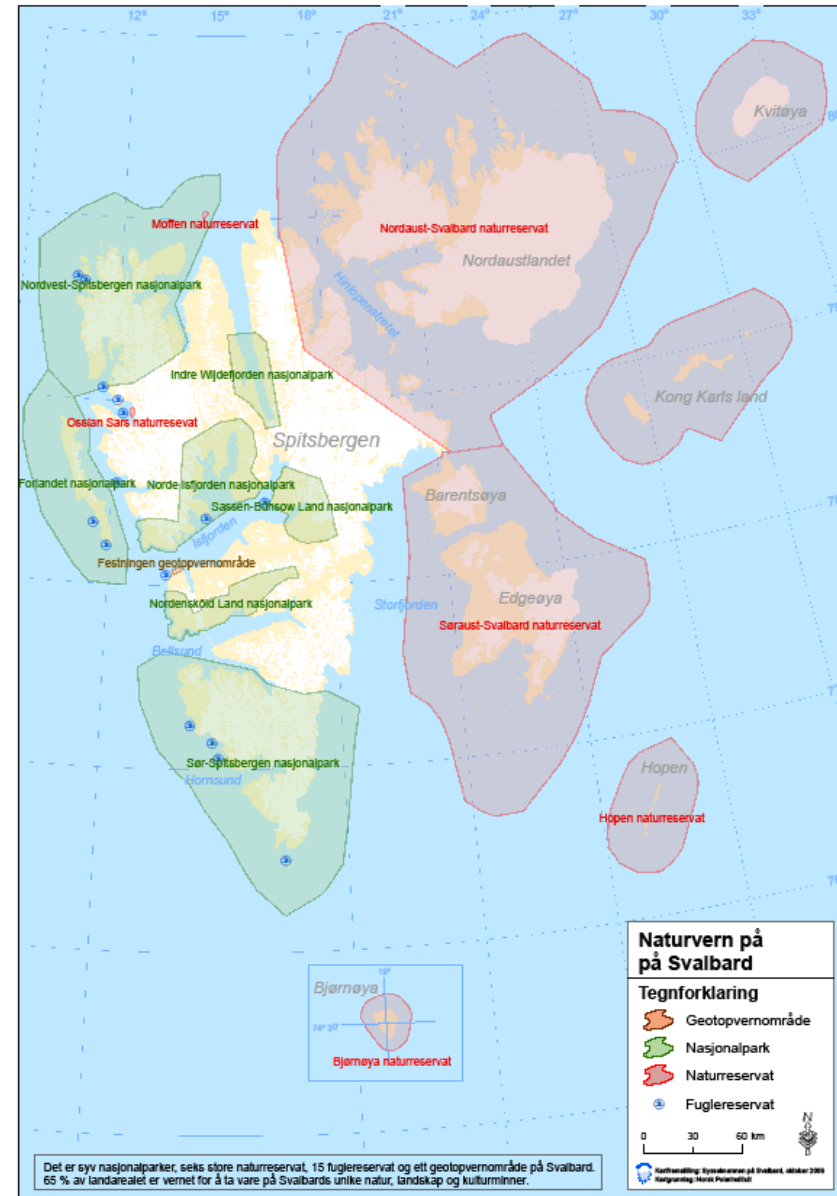
Week 25 and 26, 2009.

## Area

## Transportation

## Special circumstances / need of permission

## Special HSE aspects





# Youth camp in Billefjorden

## Main activity / study area

Outdoor and wildlife experience for youth in Longyearbyen.

## Responsible scientist and institution

Longyearbyen Lokalstyre

UNIS

## Number of participants

40 - 50

## Period

21.08.09 – 24.08.09 (uncertain)

## Area

Rudmosepynten

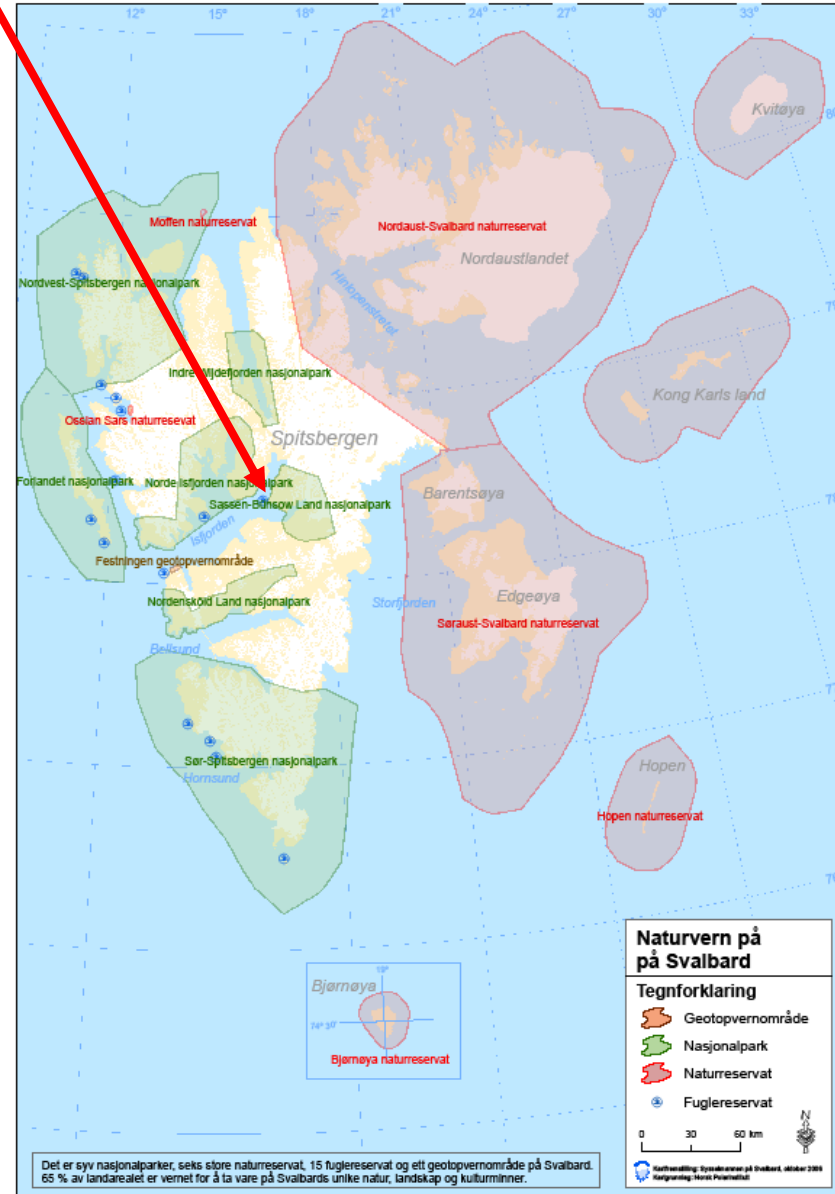
## Transportation

Small boats, kayaks, on foot

## Special circumstances / need of permission

Will stay in UNIS` fieldcamp at Rudmosepynten

## Special HSE aspects





# Unsolved matters / needs

## Main activity

- Transportation of equipment from Rijpfjorden (possible with KV Svalbard in week 36 or 37)

## Responsible scientist and institution

## Number of participants

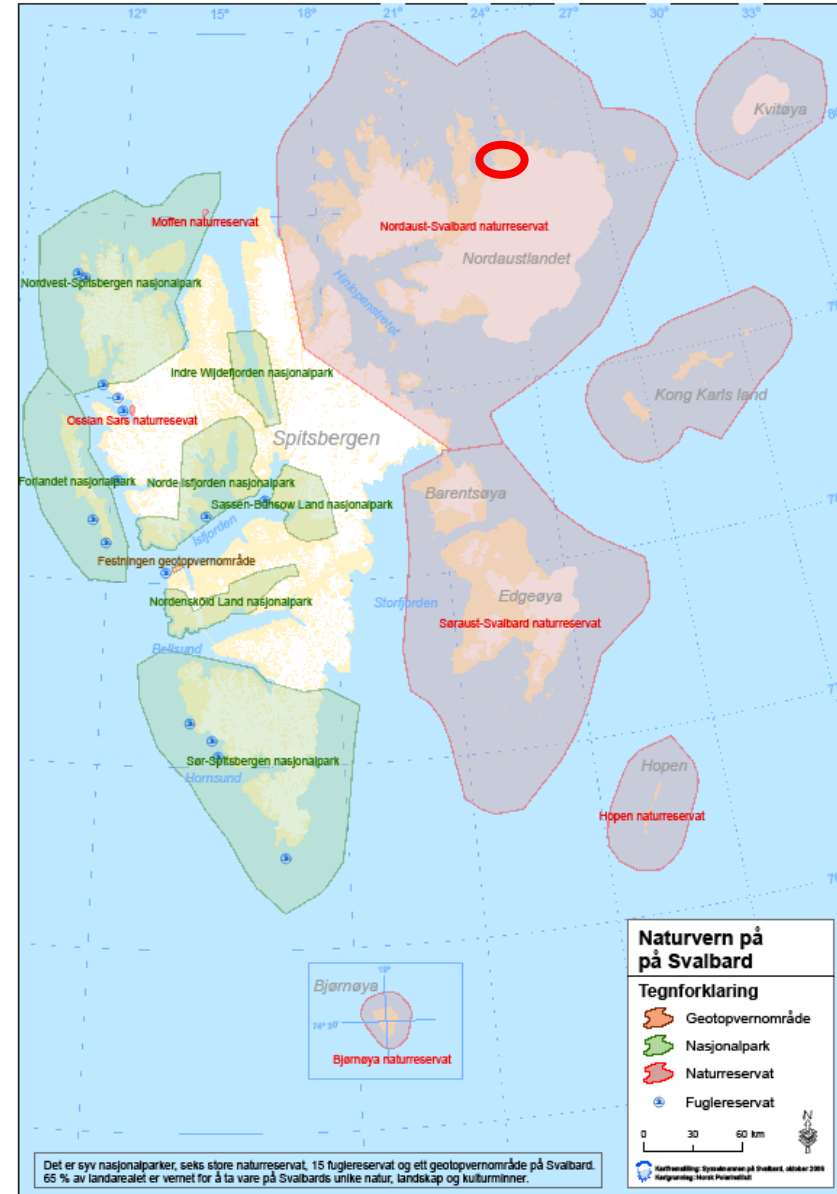
## Period

## Area

## Transportation

## Special circumstances / need of permission

## Special HSE aspects



**Main activity / study area**

**Responsible scientist and institution**

**Number of participants**

**Period**

**Area**

**Transportation**

**Special circumstances / need of permission**

**Special HSE aspects**

