

Module 1 – Geological Aspects of Western Norway



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Week 33: Providing the background

Introduction

12 August	08:00-09:45 & 12:15-13:45	Room 02-15	MP	Significance; science project
13 August	Whole day	Field	TS	Molden ecology
14 August	09:15-15:00	Room 02-15	MP	Introduction: geology; glacier course
15 August	Whole day	Field	MG	Krossbu glacier course
16 August	Whole day	Field	MG	Krossbu glacier course; Bøverdalen caves

Week 34: Starting in the mountains

Limnology

19 August	Whole day	Field	MP,SS	Austerdalen river sampling
20 August	Whole day	Field	MP,SS	Hafslovatnet water and sediment sampling
21 August	Whole day	Biology lab	MP,SS	Analyzing river and lake water samples
22 August	Whole day	Biology lab	MP,SS	Analyzing river and lake water samples
23 August	09:00-12:00	Biology lab	MP,SS	Evaluation: presentation limnology data

Week 35: The fjord realm

Sediment sampling and case studies

26 August	09:15-15:00	Room 02-15	MP	Fjord processes; case study Barsnesfjord
27 August	Whole day	Field	MP,NN	Fjord sediment, hydrography, biology
28 August	Whole day	Geology lab	MP	Analysis for science project Hafslovatnet
29 August	Whole day	Geology lab	MP,NN	Analysis for science project Hafslovatnet
30 August	Deadline 16:00	Group work	MP	Evaluation: proposal science project

Week 36: Understanding regional geology

The Caledonian mountain chain

02 September	09:15-15:00	Room 02-15	MP	Caledonian orogeny, minerals, rocks
03 September	09:15-15:00	Room 02-15	MP	Devonian detachment, minerals, rocks
04 September	Whole day	Field	MP	Caledonian orogeny
05 September	Whole day	Field	MP	Devonian detachment
06 September	Deadline 16:00	Group work	MP	Evaluation: journal Caledonian mountains

Week 37: Interpreting geological history

Geological mapping at Atløy

09 September	Whole day	Field	MP	Atløy geological history and mapping
10 September	Whole day	Field	MP	Atløy geological history and mapping
11 September	Whole day	Field	MP	Atløy geological history and mapping
12 September	Whole day	Field	MP	Atløy geological history and mapping
13 September	Deadline 16:00	Group work	MP	Evaluation: journal Atløy geological history and map

Week 38: Geological aspects

Laboratory and evaluation

16 September	Whole day	Room 02-15	MP	Laboratory science project; exam preparation
17 September	Whole day	Laboratories	MP	Laboratory science project; exam preparation
18 September	Whole day	Laboratories	MP	Laboratory science project; exam preparation
19 September	Whole day	Laboratories	MP	Laboratory science project; exam preparation
20 September	09:00-13:00	Exam room	MP	Evaluation: multiple choice test 4 hours – 10 ects

MP Matthias Paetzel, MG Mette Gillespie, NN No Name, yet, SS Stefan Stoll, TS Tarald Seldal,

Module 2 – Glaciers and ecology



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Week 39: Introduction glaciers and ecology Glaciers and glacial landforms

23 September	09:15-12:00	Room 02-15	TD	Introduction to glaciers and ecology
24 September	09:15-12:00	Room 02-15	TD	Glacial landforms
25 September	Whole day	Field	TD	Jostedal: Nigardsbreen and glacier foreland
26 September	Whole day	Field	TD	Jostedal: Austdalsbreen calving glacier
27 September	09:15-12:00	Room 02-15	TD	Evaluation: presentation of results

Week 40: Glaciology Glacier mass balance and dynamics

30 September	09:15-15:00	Room 02-15	TD	Glacier mass balance
01 October	Whole day	Field	TD	Fjærland glacier museum, glacier-lake outburst flood
02 October	09:15-12:00 Afternoon	Room 02-15 Homework	TD	Glacier dynamics Paper projects (group work)
03 October	09:15-12:00 Afternoon	Computer lab Homework	TD	Simulation: glacier response to climate change Paper projects (group work)
04 October	09:15-12:00	Room 02-15	TD	Glacier hydrology and thermal regime

Week 41: Free week Enjoy Norway

07 October	No lectures			
08 October	No lectures			
09 October	No lectures			
10 October	No lectures			
11 October	No lectures			

Week 42: Glacial ecology Glacial ecosystems and glacier impact

14 October	09:15-12:00 Afternoon	Room 02-15 Homework	TD	Glaciers and sea level rise Paper projects (group work)
15 October	09:15-15:00	Room 02-15	TD/AH	Evaluation: paper presentations and discussion
16 October	09:15-15:00	Room 02-15	AH	Glacier ecosystems & bio-geochemistry
17 October	09:15-15:00	Room 02-15	AH	Proglacial hydrology
18 October	09:15-15:00	Room 02-15	AH	The role of glaciers for downstream ecosystems

Week 43: Glaciers and ecology Evaluation

21 October	Whole day	Homework		Exam preparation
22 October	09:15-12:00	Room 02-15	TD	Questions
23 October	Whole day	Homework		Exam preparation
24 October	09:00-13:00	Exam room	TD	Evaluation: written exam 4 hours – 10 ects
25 October	Whole day	Field	NN	Fjord aquarium Balestrand

AH Andy Hodson, TD Thorben Dunse, NN No name, yet

Module 3 – Fjord processes



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Week 43: Fjord aquarium

Transition to fjord processes

21 October	Whole day	Homework		Exam preparation
22 October	09:15-12:00	Room 02-15	TD	Questions
23 October	Whole day	Homework		Exam preparation
24 October	09:00-13:00	Exam room	TD	Evaluation: written exam 4 hours – 10 ects
25 October	Whole day	Field	NN	Fjord aquarium Balestrand

Week 44: Fjord hydrography

Fjord water circulation

28 October	09:15-15:00	Room 02-15	NN	Physical characteristics of fjords
29 October	09:15-15:00	Room 02-15	NN	Currents in general; water masses along the coast
30 October	09:15-15:00	Room 02-15	NN	Currents in fjords; O ₂ budget in basin waters; waves
31 October	09:15-15:00	Room 02-15	NN	Ice, light, and sound
01 November	09:15-15:00	Room 02-15	NN	Analysis of hydrographic data for Fjordology report

Week 45: Fjord biology

Fjord food webs

04 November	09:15-15:00	Room 02-15	NN	Fjord chemistry
05 November	09:15-15:00	Room 02-15	NN	Nutrients; microbiology
06 November	09:15-15:00	Room 02-15	NN	Microbiology and phytoplankton
07 November	09:15-15:00	Room 02-15	NN	General fjord biology and marine biology
08 November	09:15-15:00	Room 02-15	NN	Fjord food web; human impact; management

Week 46: Fjordology

Evaluation

11 November	Whole day	Room 02-15	NN	Journal preparation
12 November	Deadline 16:00	Group work	NN	Evaluation: journal Fjordology
13 November	Whole day	Room 02-15	NN	Exam preparation
14 November	Whole day	Room 02-15	NN	Exam preparation
15 November	09:00-12:00	Exam room	NN	Evaluation: multiple choice 2 hours – 40% of 10 ects

Week 47: Laboratory week

Finalization of science project work

18 November	Whole day	Room 02-15	MP,NN	Laboratory science project
19 November	Whole day	Geology lab	MP,NN	Laboratory science project
20 November	Whole day	Geology lab	MP,NN	Laboratory science project
21 November	Whole day	Geology lab	MP,NN	Laboratory science project
22 November	Whole day	Room 02-15	MP,NN	Laboratory science project

Week 48: Final excursion

Hoddevik and seminar preparation

25 November	Whole day	Field	MP	Hoddevik
26 November	Whole day	Field	MP	Måløy
27 November	Whole day	Room 02-15	MP,NN	Seminar preparation
28 November	Whole day	Room 02-15	MP,NN	Seminar preparation
29 November	Whole day	Room 02-15	MP,NN	Seminar preparation

MP Matthias Paetzel, NN No name, yet

Week 49: Science project**Seminar preparation**

02 December	Whole day	Room 02-15	MP,NN	Seminar preparation
03 December	Whole day	Room 02-15	MP,NN	Seminar preparation
04 December	Whole day	Room 02-15	MP,NN	Seminar preparation
05 December	Whole day	Room 02-15	MP,NN	Seminar preparation
06 December	Whole day	Josten	MP,NN	Seminar preparation

Week 50: Public seminar**Final presentation and final event**

09 December	09:00-15:00	Josten	MP,NN	Evaluation: public seminar – 60% of 10 ects
10 December	No lectures			
11 December	No lectures			
12 December	17:30-open end	Cantina	MP,NN	FINAL EVENT*
13 December	No lectures			End of From Mountain to Fjord 2019

MP Matthias Paetzel, NN No name, yet

***Final event**

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Week 50: Thursday 12 December**Final event**

All "From Mountain to Fjord" students, associated buddies, teachers, and staff are invited to the traditional "Final Event"	
Where	Cantina main building
When	12 December at 18:30h (6:30pm)
Schedule	18:30-19:00 Aperitif 19:00-20:00 Christmas dinner 20:00-21:45 The Final Lecture 20:45-21:15 Christmas desert 21:15-21:45 Presentation of the diplomas Official closure of From Mountain to Fjord 2019 From 21:45 Final party to be organized by the students: being together, memorizing, showing pictures, showing videos, singing, dancing, whatever you like