



## Course organizers:

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Niklas Rakos/Erik Lundir ICOS

Day	Date	Time	Type		Location	Teacher
Mo	28-aug	1100-1600		Arrival in Abisko; pick-up from train, pick up keys at ANS		GBW
Tue	29-aug	0900-1100	Lecture	<b>Introduction</b>	B-house	GBW
		1100-1200	Tour	Instructions: Lab security		EA, LK
		1300-1400	Instruction	<b>Instructions: projects + Excursion Mt. Nuolja</b> (+group picture)	B-house	GBW, EA, LK
		1400-1700	Self study	Prepare Mt. Nuolja excursion		
We	30-aug	0830-0900	Tour	Instructions: Cleaning & tour of the buildings and personnel		Noella Jonsson
		0900-1000	Lecture	<b>The Arctic and Subarctic terrestrial environment</b>	B-house	ED
		1000-1030	Lecture	<b>Climate change in the Arctic and Subarctic</b>	B-house	ED
		1100-1700	Excursion	<b>Excursion: The Arctic/alpine landscape - Mt Nuolja</b> <b>Incl. Mountain Security, orienteering</b>		GBW
Thu	31-aug	0900-1000	Lecture	<b>Plants in cold climates</b>	B-house	ED
		1000-1700	Project	Self study: Course literature - projects		GBW, EA, LK
Fr	01-sep	0900-1000	Lecture	<b>Experimental design and hypothesis</b>	B-house	GBW
		1030-1200	Project	Project (hypotheses and aims)		GBW, EA, LK
		1300-1500	Project	Reading time and development of hypothesis and aims		
		1500-1600	Symposium	<b>Presentation hypothesis</b>	B-house	GBW, EA, LK
Sa	02-sep					
Su	03-sep					
Mo	04-sep	0900-1200	Lecture	<b>Belowground ecology</b>	B-house	GBW
		1300-1700	Project	Project (incl. evaluation of preparation phase with supervisor)		EA, LK
Tue	05-sep	0830-1000	Lecture	<b>Plant-soil-microbe interactions</b>	B-house	RG
		1100-1700	Project	Project (practical work)		
We	06-sep	0800-1700	Excursion	<b>Subarctic vegetation, Nutrient limitations, Plant-soil-microbe interactions (Kärkevagge)</b>		RG
Thu	07-sep	0900-1700	Project	Project (practical work)		
Fr	08-sep	0900-1700	Project	Project (practical work)		
Sa	09-sep					
Su	10-sep					
Mo	11-sep	0900-1100	Lecture	<b>Herbivores and herbivory in the Arctic</b>	Lecture Theatre	TH
			Excursion	<b>Herbivores/Sami/Landscapes/scaling</b>		TH
Tue	12-sep	0900-1700	Project	Project (practical work)		EA, LK
We	13-sep	0900-0930	Instruction	<b>Instructions methods seminar</b>	Lecture Theatre	EA
		0930-1700	Project	Project (practical work)		EA, LK
Thu	14-sep	0930-1700	Project	Project (practical work)		EA, LK
Fr	15-sep	0900-1700	Project	Project (last practical work)		EA, LK
Sa	16-sep					
Su	17-sep					
Mo	18-sep	0900-1200	Project	Self study: Course literature - projects		
		1300-1700	Project	Project (prepare methods posters)		
Tue	19-sep	0900-1100	Seminar	<b>Methods poster seminar</b>	Lecture Theatre	JS, EA, LK
		1100-1230	Lecture	<b>Plant-plant interactions/Generalisations</b>	Lecture Theatre	JS
		1330-1500	Lecture	<b>Plant community responses to climate change + instructions next day</b>	Lecture Theatre	JS
		1500-1700	Self study	Prepare for seminar		
We	20-sep	0900-1400	Self study	Prepare for seminar		
		1400-1700	Seminar	<b>Seminar - arctic plant-soil linkages</b>	Lecture Theatre	JS
Thu	21-sep	0900-1200	Lecture	<b>Applied statistical methods (theory and application in R)</b>	Lecture Theatre	JS
		1000-1200	Excercise	Applied statistical methods (application in R)	Lecture Theatre	JS
		1300-1430	Project	Project (meetings with group supervisor)		EA
		1300-1700	Project	Project (data analyses)		EA
Fr	22-sep	0900-1000	Seminar	<b>Pictionary 1</b>	Lecture Theatre	JS
		1000-1700	Project	Project (data analyses)		EA
Sa	23-sep					
Su	24-sep					
Mo	25-sep	0900-1130	Lecture	<b>Climate feedbacks from arctic ecosystems</b>	B-house	ED
		1230-1700	Self study	Self study: Course literature - projects		
Tue	26-sep	0900-1700	Symposium	<b>CIRC Symposium</b>		
We	27-sep	0900-1300	Project	Project (last data analyses)		
		1400-1500	Lecture	<b>Scaling processes to the arctic landscape</b>	B-house	MS
		1500-1700	Excursion	<b>Scaling processes to the arctic landscape</b>		MS
Thu	28-sep	0900-1400	Self study	Prepare for seminar		
		1400-1700	Seminar	<b>Seminar - grazed arctic landscapes</b>	B-house	GBW
Fr	29-sep	0900-1000	Lecture	<b>Instructions: Writing a paper</b>	B-house	ED
		1000-1700	Project	Project (writing report)		
Sa	30-sep					

Su	01-okt						
Mo	02-okt	0900-1700	Self study	Study time (course literature, prepare role play)			
Tue	03-okt	0900-1700	Self study	Study time (course literature, prepare role play)			
Wed	04-okt	0900-1300	Self study	Study time (course literature, prepare role play)			
		1300-1700	<b>EXAM</b>	<b>Role play</b>	B-house		GBW
Thu	05-okt	0900-1700	Project	Project (writing report)			
Fri	06-okt	0900-1700	Project	Project (writing report)			
Sa	07-okt						
Su	08-okt						
Mo	09-okt	0900-1700	Project	Project (writing report)			
		1700	Project	Hand in first draft of report to peers at 17:00 latest			EA, GBW, LK
			Project	Upload project data to Canvas			
Tue	10-okt	0900-1130	<b>Lecture</b>	<b>Seasonality and Winter processes</b>	B-house		ED
		12:30-1700	<b>Excursion</b>	<b>Permafrost peatlands (Stordalen)</b>			ED, ICOS
We	11-okt	900-1230	Project	Peer reviewing project reports draft			
			Project	Responses sent from peers to first draft, latest 12.30			EA, GBW, LK
		1300-1700	Project	Project (revising report)			
Thu	12-okt	0900-1200	Project	Project (revising report)			
		1200	Project	Hand in first draft of report to group supervisors at 12.00 latest			EA, GBW, LK
		1300-1700	Self study	Study time (course literature, pictionary)			
Fri	13-okt	0900-1700	Self study	Study time (prepare oral presentation, course literature)			
Sa	14-okt						
Su	15-okt						
Mo	16-okt	0800-1000	Project	Project (feedback from group supervisor, responses to first draft)	B-house		EA, GBW, LK
		1000-1700	Project	Project (revising report)			
Tue	17-okt	0900-1000	<b>Lecture</b>	<b>Mosses in the Arctic</b>	B-house		EA
		1030-1700	Project	Project (revising report)			
We	18-okt	0900-1500	Project	Project (revising report)			
		1500	Project	Hand in final report to GBW, LK EA at 15.00 latest			EA, GBW, LK
		1500-1700	Self study	Study time (pictionary)			
		1700	Deadline	Hand in pictionary drawings			
Thu	19-okt	0900-1200	Self study	Study time (prepare oral presentation)			
		1300-1600	<b>EXAM</b>	<b>Project: mini-symposium (oral presentations)</b>	B-house		EA, GBW, LK
		1600-1700	Self Study	Study time (course literature, pictionary)			
Fri	20-okt	0900-1300	Self study	Study time (course literature, pictionary)			
		1300-1500	<b>Seminar</b>	<b>Pictionary 2</b>	B-house		ED
		1500-1600	Meeting	Questions to teachers	B-house		JS, ED, GBW
		1600-1700	Self Study	Study time (course literature)			
Sa	21-okt						
Su	22-okt						
Mo	23-okt	0900-1200	Self study	Study time (course literature, exam study)			
		1300-1700	<b>Excursion</b>	<b>Seasonality and Winter processes</b>			ED
Tue	24-okt	0900-1700	Self study	Study time (course literature, exam study)			
We	25-okt	0900-1200	Self study	Study time (course literature, exam study)			
		1300-1700	<b>EXAM</b>	<b>Written exam</b>	B-house		ED, EA, LK
Thu	26-okt	1130-1330		Evaluation	B-house		GBW, ED, EA, LK
Fr	27-okt	0800-1000		Cleaning and departure			