



Course organizers:

Gesche Blume-Werry GBW gesche.blume-werry@umu.se
Ellen Dorrepaal ED ellen.dorrepaal@umu.se

Other teachers:

Judith Sarneel JS judith.sarneel@umu.se
Emil Andersen EA emil.andersen@umu.se

Reiner Giesler RG
Tim Horstkotte TH
Keith Larson KL
Matthias Siewert MS
Niklas Rakos/Erik Lundin ICOS

Day	Date	Time	Type		Location	Teacher
Mo	29-Aug	1100-1600		Arrival in Abisko; pick-up from train, pick up keys at ANS		GBW
Tue	30-Aug	0900-1100	Lecture	Introduction	B-house	GBW
		1100-1200	Tour	Instructions: Lab security		EA
		1300-1400	Instruction	Instructions: projects + Excursion Mt. Nuolja (+group picture)	B-house	GBW, EA
		1400-1700	Self study	Prepare Mt. Nuolja excursion		
We	31-Aug	0830-0900	Tour	Instructions: Cleaning & tour of the buildings and personnel		Noella Jonsson
		0900-1000	Lecture	The Arctic and Subarctic terrestrial environment	B-house	ED
		1000-1030	Lecture	Climate change in the Arctic and Subarctic	B-house	ED
		1130-1700	Excursion	Excursion: The Arctic/alpine landscape - Mt Nuolja Incl. Mountain Security, orienteering		GBW
Thu	01-Sep	0900-1000	Lecture	Plants in cold climates	B-house	ED
		1000-1700	Project	Self study: Course literature - projects		GBW, EA
Fr	02-Sep	0900-1000	Lecture	Experimental design and hypothesis	B-house	GBW
		1030-1200	Project	Project (hypotheses and aims)		GBW, EA
		1300-1500	Project	Reading time and development of hypothesis and aims		
		1500-1600	Symposium	Presentation hypothesis	B-house	GBW, EA
Sa	03-Sep					
Su	04-Sep					
Mo	05-Sep	0900-1200	Lecture	Belowground ecology	B-house	GBW
		1300-1700	Project	Project (incl. evaluation of preparation phase with supervisor)		EA
Tue	06-Sep	0830-1000	Lecture	Plant-soil-microbe interactions	B-house	RG
		1100-1700	Project	Project (practical work)		
We	07-Sep	0800-1700	Excursion	Subarctic vegetation, Nutrient limitations, Plant-soil-microbe interactions (Kärkevagge)		RG
Thu	08-Sep	0900-1700	Project	Project (practical work)		
Fr	09-Sep	0900-1700	Project	Project (practical work)		
Sa	10-Sep					
Su	11-Sep					
Mo	12-Sep	0900-1100	Lecture	Herbivores and herbivory in the Arctic	Lecture Theatre	TH
			Excursion	Herbivores/Sami/Landscapes/scaling		TH
Tue	13-Sep	0900-1700	Project	Project (practical work)		EA
We	14-Sep	0900-1000	Lecture	Birds in the Arctic	Lecture Theatre	KL
		1015-1045	Instruction	Instructions methods seminar	Lecture Theatre	EA
		1100-1700	Project	Project (practical work)		EA
Thu	15-Sep	0930-1700	Project	Project (practical work)		EA
Fr	16-Sep	0900-1700	Project	Project (last practical work)		EA
Sa	17-Sep					
Su	18-Sep					
Mo	19-Sep	0900-1200	Project	Self study: Course literature - projects		
		1300-1430	Lecture	Plant-plant interactions/Generalisations	Lecture Theatre	JS
		1430-1600	Lecture	Plant community responses to climate change	Lecture Theatre	JS
Tue	20-Sep	0900-1430	Project	Project (prepare methods posters)		
		1430-1700	Seminar	Methods poster seminar	Lecture Theatre	JS, EA
		1600-1700	Seminar	Pictionary 1 + instructions next day	Lecture Theatre	JS
We	21-Sep	0900-1500	Self study	Prepare for seminar		
		1500-1700	Seminar	Seminar - arctic plant-soil linkages	Lecture Theatre	JS
Thu	22-Sep	0900-1200	Lecture	Applied statistical methods (theory and application in R)	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	23-Sep	0900-1700	Project	Project (data analyses)		EA
Sa	24-Sep					
Su	25-Sep					
Mo	26-Sep	0900-1130	Lecture	Climate feedbacks from arctic ecosystems	B-house	ED
		12:30-1700	Excursion	Permafrost peatlands (Stordalen)		ED, ICOS
Tue	27-Sep	0900-1700	Symposium	CIRC Symposium		
We	28-Sep	0900-1300	Project	Project (last data analyses)		

		1400-1500	Lecture	Scaling processes to the arctic landscape		B-house	MS
		1500-1700	Excursion	Scaling processes to the arctic landscape			MS
Thu	29-Sep	900-1500	Self study	Prepare for seminar			
		1500-1700	Seminar	Seminar - grazed arctic landscapes		B-house	GBW
Fr	30-Sep	0900-1000	Lecture	Instructions: Writing a paper		B-house	ED
		1000-1700	Project	Project (writing report)			
Sa	01-Oct						
Su	02-Oct						
Mo	03-Oct	0900-1700	Self study	Study time (course literature, prepare role play)			
Tue	04-Oct	0900-1700	Self study	Study time (course literature, prepare role play)			
Wed	05-Oct	0900-1400	Self study	Study time (course literature, prepare role play)			
		1400-1700	EXAM	Role play		B-house	GBW
Thu	06-Oct	0900-1700	Project	Project (writing report)			
Fri	07-Oct	0900-1700	Project	Project (writing report)			
Sa	08-Oct						
Su	09-Oct						
Mo	10-Oct	0900-1700	Project	Project (writing report)			
		1700	Project	Hand in first draft of report to peers at 17:00 latest			EA, GBW
			Project	Upload project data to Canvas			
Tue	11-Oct	0900-1130	Lecture	Seasonality and Winter processes		B-house	ED
		1230-1600	Project	Peer reviewing project reports draft			
		1600-1700	Project	Responses sent from peers to first draft, latest 14.00			
We	12-Oct	0900-1700	Project	Project (revising report)			EA, JS
Thu	13-Oct	0900-1200	Project	Project (revising report)			
		1200	Project	Hand in first draft of report to group supervisors at 12.00 latest			EA, GBW
		1300-1700	Self study	Study time (course literature, pictionary)			
Fri	14-Oct	0900-1700	Self study	Study time (prepare oral presentation, course literature)			
Sa	15-Oct						
Su	16-Oct						
Mo	17-Oct	0800-1000	Project	Project (feedback from group supervisor, responses to first draft)		B-house	EA, GBW
		1000-1700	Project	Project (revising report)			
Tue	18-Oct	0900-1000	Lecture	Mosses in the Arctic		B-house	EA
		1030-1700	Project	Project (revising report)			
		0900-1500	Project	Project (revising report)			
		1500	Project	Hand in final report to GBW and EA at 15.00 latest			EA, GBW
We	19-Oct	1500-1700	Self study	Study time (prepare oral presentation, pictionary)			
		0900-1130	EXAM	Project: mini-symposium (oral presentations)		B-house	EA, GBW
Thu	20-Oct	1230-1700	Self study	Study time (course literature, pictionary)			
		1700	Deadline	Hand in pictionary drawings			
Fri	21-Oct	0900-1300	Self study	Study time (course literature)			
		1300-1430	Seminar	Pictionary 2		B-house	ED
		1430-1530	Meeting	Questions to teachers		B-house	JS, ED, GBW
		1530-1700	Self Study	Study time (course literature)			
Sa	22-Oct						
Su	23-Oct						
Mo	24-Oct	0900-1200	Self study	Study time (course literature, exam study)			
		1300-1700	Excursion	Seasonality and Winter processes			ED
Tue	25-Oct	0900-1700	Self study	Study time (course literature, exam study)			
We	26-Oct	0900-1200	Self study	Study time (course literature, exam study)			
		1300-1700	EXAM	Written exam		B-house	ED, EA
Thu	27-Oct	1300-1500		Evaluation		B-house	GBW, ED, EA
Fr	28-Oct	0800-1000		Cleaning and departure			