SV0019 Analyses of environmental data 1 *2025-01-20 - 2025-06-08*

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Please note that the scheduled activities may change within the times allocated!!!

Teachers:
LK- Lenka Kuglerová
RS –Robert Spitzer
RBH – Ruben Baan Hofman
CG – Caroline Greiser

Day	Date	Time and location	Activity	Content	Teacher
Mon	20-Jan				
Tue	21-Jan	13.00-16.00 Online + Datorsal 1A,B	Lecture and exercise Introduction to R and RStudio	M1: How to install R, RStudio, creating project, scripts, R markdown, R documentation, how to google/chatGPT R problems	LK, RS
Wed	22-Jan	Whole day	M1 Assignment	Discovering R	Teacher (LK) consultation between 14.00 and 15.00
Thurs	23 Jan	Whole day	M1 Assignment	Discovering R	
Fri	24 Jan				
Sat	25 Jan				
Sun	26 Jan				
Mon	27 Jan				
Tue	28 Jan				
Wed	29 Jan	23:59	M1 Assignment	Submit M1 through canvas	
Thurs	30 Jan	13.00-16.00 Online + Datorsal 1A,B	Exercise	M2: Getting data in R, data manipulation (packages dplyr, tdyr)	LK, RBH
Fri	31 Jan	Whole day	M2 Assignment	Data manipulation	Teacher (LK) consultation between 14.00 and 15.00
Sat	1 Feb				
Sun	2 Feb				
Mon	3 Feb	Whole day	M2 Assignment	Data manipulation	
Tue	4 Feb				
Wed	5 Feb				Teacher (RBH) consultation between 14.00 and 15.00
Thurs	6 Feb				
Fri	7 Feb				
Sat	8 Feb				
Sun	9 Feb				
Mon	10 Feb				

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Tue	11 Feb				
Wed	12 Feb				
Thurs	13 Feb				
Fri	14 Feb				
Sat	15 Feb				
Sun	16 Feb	23:59	M2 Assignment	Submit M2 through canvas	
Mon	17 Feb	13.00-16.00 Online + Datorsal 1A,B	Exercise	M3: Plots (package ggplot and ggplot2)	LK, RBH
Tue	18 Feb	Whole day	M3 Assignment	Plots	
Wed	19 Feb	Whole day	M3 Assignment	Plots	Teacher (LK) consultation between 14.00 and 15.00
Thurs	20 Feb				
Fri	21 Feb				
Sat	22 Feb				
Sun	23 Feb				
Mon	24 Feb				
Tue	25 Feb				
Wed	26 Feb				Teacher (LK) consultation between 14.00 and 15.00
Thurs	27 Feb				
Fri	28 Feb				
Sat	1 Mar				
Sun	2 Mar				
Mon	3 Mar	13.00-14.00 Online + Vita havet 23:59	Lecture M3 Assignment	M4: Simple guide to data analyses (lecture) Submit M3 through canvas	LK
Tue	4 Mar	9.00-11.00 Online + Datorsal 1A,B 13.00-15.00 Online + Datorsal 1A,B	Exercise	Linear regression Anova	LK, RBH
Wed	5 Mar	Whole day	M4 Assignment	Simple univariate data analyses	Teacher consultation between 14.00 and 15.00
Thurs	6 Mar				
Fri	7 Mar				
Sat	8 Mar				

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Sun	9 Mar				
Mon	10 Mar				
Tue	11 Mar				
Wed	12 Mar				Teacher (LK) consultation between 14.00 and 16.00
Thurs	13 Mar				
Fri	14 Mar				
Sat	15 Mar				
Sun	16 Mar				
Mon	17 Mar	23:59	M4 Assignment	Submit M4 through canvas	
Tue	18 Mar	13.00-16.00 Online + Datorsal 1A,B	Exercise	M5: Introduction to pseudoreplication How to deal with it? Linear mixed effect models (package nlm and lmer4)	LK, RBH
Wed	19 Mar	Whole day	M5 Assignment	Mixed effect models	Teacher consultation between 14.00 and 15.00
Thurs	20 Mar	Whole day	M5 Assignment	Mixed effect models	
Fri	21 Mar				
Sat	22 Mar				
Sun	23 Mar				
Mon	24 Mar				
Tue	25 Mar				
Wed	26 Mar				Teacher (LK) consultation between 14.00 and 15.00
Thurs	27 Mar				
Fri	28 Mar				
Sat	29 Mar				
Sun	30 Mar				
Mon	31 Mar	23:59	M5 Assignment	Submit M5 through canvas	
Tue	1 Apr	13.00-16.00 Online + Datorsal 1A,B	Exercise	M6: Ordination analyses, niche overlap/resource partitioning (PCA, package vegan)	RS
Wed	2 Apr	Whole day	M6 Assignment	Ordinations	Teacher consultation between 14.00 and 15.00
Thurs	3 Apr	Whole day	M6 Assignment	Ordinations	
Fri	4 Apr				
Sat	5 Apr				

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Sun	6 Apr				
Mon	7 Apr				
Tue	8 Apr				
Wed	9 Apr				Teacher (RS) consultation between 14.00 and 15.00
Thurs	10 Apr				
Fri	11 Apr				
Sat	12 Apr				
Sun	13 Apr				
Mon	14 Apr	23:59	M6 Assignment	Submit M6 through canvas	
Tue	15 Apr	13.00-16.00 Online + Datorsal 1A,B	Exercise	M7: Time series and microclimate data	CG
Wed	16 Apr	Whole day	M7 Assignment	Microclimate data	Teacher (CG) consultation between 14.00 and 15.00
Thurs	17 Apr	Whole day	M7 Assignment	Microclimate data	
Fri	18 Apr	Easter			
Sat	19 Apr	Easter			
Sun	20 Apr	Easter			
Mon	21 Apr	Easter			
Tue	22 Apr				
Wed	23 Apr				Teacher (CG) consultation between 14.00 and 15.00
Thurs	24 Apr				
Fri	25 Apr				
Sat	26 Apr				
Sun	27 Apr				
Mon	28 Apr	23:59	M7 Assignment	Submit M7 through canvas	
Tue	29 Apr	13.00-16.00 Online + Datorsal 1A,B	Exercise	M8: population estimates / distance sampling	TBA
Wed	30 Apr	Whole day	M8 Assignment		Teacher consultation between 14.00 and 15.00
Thurs	1 May	Public holidays			
Fri	2 May	Whole day	M8 Assignment		
Sat	3 May				
Sun	4 May				

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Mon	5 May				
Tue	6 May				
Wed	7 May				Teacher consultation between 14.00 and 15.00
Thurs	8 May				
Fri	9 May				
Sat	10 May				
Sun	11 May				
Mon	12 May	23:59	M8 Assignment	Submit M8 through canvas	
Tue	13 May	13.00-16.00 Online + Datorsal 1A,B	Exercise	M9: eDNA based population monitoring	TBA
Wed	14 May	Whole day	M9 Assignment		Teacher consultation between 14.00 and 15.00
Thurs	15 May	Whole day	M9 Assignment		
Fri	16 May				
Sat	17 May				
Sun	18 May				
Mon	19 May				
Tue	20 May				
Wed	21 May				Teacher consultation between 14.00 and 15.00
Thurs	22 May				
Fri	23 May				
Sat	24 May				
Sun	25 May				
Mon	26 May	23:59	M9 Assignment	Submit M9 through canvas	
Tue	27 May	13.00-16.00 Online + Datorsal 1A,B	Exercise	M10: Predictive modeling in R	TBA
Wed	28 May	Whole day	M10 Assignment		Teacher consultation between 14.00 and 15.00
Thurs	29 May	Public holidays			
Fri	30 May	Whole day	M10 Assignment		
Sat	31 May				
Sun	1 June				
Mon	2 June				
Tue	3 June	9-11 online + Vita havet	Discussion	Course conclusions, course evaluation	LK, RS

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Wed	4 June				Teacher consultation between 14.00 and 15.00
Thurs	5 June				
Fri	6 June	Public holidays			
Sat	7 June				
Sun	8 June	23:59	M10 Assignment	Submit M10 through canvas	