

About the course

Overview

How spatial data on properties of terrestrial and marine environments can be combined with genomic data to gain an understanding of population structure, dispersal routes and patterns. And how such can facilitate appropriate and sustainable land and seabottom use and management.

Teachers

Cynthia Riginos (University of Queensland, guest professor at University of Gothenburg)

Anna Runemark (Lund University)

Mark Ravinet (University of Nottingham)

Kerstin Johannesson (University of Gothenburg, main organiser)

Per Jonsson (University of Gothenburg)

Dates

29th October to 4 November, 2023

Venue

Tjärnö Marine Laboratory, Strömstad, Sweden

Credits

2.5 hp

Course Schedule

Saturday 28th October

Arrivals and light evening meal

Sunday 29th October

08.00-09.00	Breakfast
09.00-10.00	Basic population genetics (Kerstin)
10.00-10.30	Coffee/Tea
10.30-12.00	Basic R (Cynthia)
12.00-13.00	Lunch
13.00-15.00	Basic bash (Anna)
15.00-15.30	Coffee/Tea
15.30-16.30	Walk and talk
17.00-18.00	Dinner
18.00-20.00	Free time, catch up on readings

Monday 30th October

(meals and breaks same as Sunday)

09.00-12.00	Land/river/seascape genetics (Cynthia)
12.00-14.00	Lunch + Tour de Lab
14.00-17.00	Making maps and using spatial data (Cynthia)
17.00-18.00	Dinner
18.00-20.00	Short project presentations by participants

Tuesday 31th October

(meals and breaks same as Sunday)

- 09.00-12.00 [Describing genetic differentiation and genetic structuring](#) (Anna, Mark)
- 12.00-14.00 Lunch + **visit snail beach**
- 14.00-17.00 [RDA as a flexible tool](#) (Cynthia)
- 17.00-18.00 Dinner
- 18.00-20.00 **Short project presentations by participants**

Wednesday 1st November

(meals and breaks same schedule as Sunday)

- 09.00-12.00 [Simulations & demographic analyses](#) (Mark, Zachary, Simon)
- 12.00-12.45 Lunch
- 12.45-15.00 Boat excursion (ROV)
- 15.00-17.00 [Simulations & demographic analyses, continued](#)
- 17.00-18.00 Dinner
- 18.00-19.00 Evening lecture (remote) - Landscape Resistance (Bill Peterman)
- 19.00-23.00 Inhouse pub

Thursday 2nd November

(meals and breaks same schedule as Sunday)

- 09.00-12.00 [Resistance surfaces](#) (Joscha Beninde, Isolde van Riemsdijk)
- 12.00-13.00 Lunch
- 13.00-14.30 [Projecting into the future with generalised dissimilarity modelling, gradient forests](#) (Cynthia)
- 14.30-17.00 [Biophysical models of dispersal](#) (Per Jonsson)
- 17.00-18.00 Dinner
- 18.00-19.00 Inspiring talks: *Connectivity in the seascape* - Marlene Jahnke
- 19.00-23.00 Inhouse pub

Friday 3rd November

(meals and breaks same schedule as Sunday)

09.00-12.00 [More GEAs and genomic offsets](#) (Cynthia)

12.00-14.00 Lunch + walk & talk

14.00-17.00 [\(Time permitting\) Landscape genomics and genetic architectures](#)

17.00-18.00 Dinner

19.00-23.00 Inhouse pub

Saturday 4th November

Departures in the morning -sorry to see you go!