

ForBio and STI course: Macro algae – systematics and taxonomy

Schedule – first version, smaller changes may come.

Confirmed teachers (still hoping for one more name, for an evening session): Gunilla Toth, Gustav Johansson, Roland Bengtsson, Stein Fredriksen.

Course coordinator at the site: Malin Strand (malin.strand@slu.se tel +46705654246) – questions on costs and local logistics

ForBio representative: Nataliya Budaeva (nataliya.budaeva@uib.no) - questions on travel reimbursement for ForBio members

Meals during the week: Breakfast 8.00, Lunch 12.00, Dinner 17-18.00 (app.). The course has scheduled evening sessions after dinner. All days start after breakfast at 9.00. Thursday is an exception for early boat time (weather dependent).

Bench fee and boat time is covered by the ForBio/STI research schools.

All course participants are considered as students participating in a ForBio activity.

May 27 Sunday

Arrival: evening at Tjärnö (transportation from Strömstad, but no food available at the field station this evening): check-in.

May 28 Monday

9.00 Welcome & Introduction: Gustav, Gunilla, Malin, Roland

Freshwater algae, lessons and lab (Gustav, Roland): Introduction to green algae incl. Charophyceae, variation in green algae. Red, brown, yellow-green and blue-green - Identification procedures - overview. CYANOBACTERIA, RHODOPHYTA, OCHROPHYTA, CHLOROPHYTA, CHAROPHYTA

May 29 Tuesday

Freshwater and brackish water algae, lessons and lab (Gustav, Roland). We plan to bring samples from the Swedish east coast to look at intraspecific variation between habitats with different salinities.

May 30 Wednesday

Brackish and marine algae, lessons and lab (Gunilla, Gustav). There will be marine algae available. Lecture: Terminology of the characters that are used in the identification keys. We will go through a few examples, so you get familiar with the keys.

Identify the common macroalgal species at the Swedish west coast. To do this you will combine field collections and lab work where you use algal keys for identification.

After the lecture we will move to the wet-lab to practice keying of macroalgae for the rest of the day. The keys are available in both Swedish and English and will be handed out during the lecture.



Fucus serratus, *Chondrus crispus*, coralline crusts and filamentous red seaweeds in the intertidal outside the Tjärnö Marine Lab.

May 31 Thursday (Stein, Gunilla)

Field excursion:

Marine macroalgal collection with R/V Nereus in the Tjärnö/Koster archipelago. Depending on the weather, we will go to both sheltered and exposed sites in order to get a view of the algal flora that grow in different habitats. Brief lecture on identification of red (Rhodophyta), brown (Phaeophyta) and green algae (Ulvophyceae).

Work on identification of collected material.



R/V Nereus

June 1 Friday

Marin algae (Stein). Finish identification of material from Thursday. Possibly a short trip to collect macroalgae in the littoral zone followed by identification of this material.

Course closes 17.00. Transportation is arranged to train/bus in Stromstad. If you have troublesome logistics please contact Malin for help!