



IMBRSea Joint School Edition 2018

This document provides practical information regarding the organisation of the joint school edition 2018. Please read this document very carefully.

Practicalities:

- **Prior to the joint school:**

During the annual symposium an info session will be organized in which the practicalities will be further explained and in which the research topics will be presented.

- **Start and End:**

First joint school: 1-11 August 2018

We start on 1st of August at 12.00 with lunch. Students who arrive on the 31st can have breakfast on the 1st of August. We end on 11th in the evening with a feedback moment and a closing event. On the 12th in the morning breakfast is still foreseen. The night from 31-1 August is included. However dinner on 31st is not foreseen. At the accommodation, there is a kitchen where small meals can be prepared. Try to foresee food when you arrive on the 31st (closest shop is at 15 km from the marine station).

Second joint school: 13-23 August 2018

We start on 13th of August at 12.00 with lunch. Students who arrive on the 12th can have breakfast on the 13th of August. We end on 23rd in the evening with a feedback moment and a closing event. On the 24th in the morning breakfast is still foreseen. The night from 12-13 August is included. However dinner on 12th is not foreseen. At the accommodation, there is a kitchen where small meals can be prepared. Try to foresee food when you arrive on the 12th (closest shop is at 15 km from the marine station).

- **Reaching Tjärnö:** on the website of the institute -

http://loven.gu.se/english/about_the_loven_centre/tjarno/how_to_get_there_tjarno. From Gothenborg to Stromstad as well as from Oslo to Stromstad there are busses available.

Busline 891 goes from Stromstad to the station

(<https://www.rome2rio.com/s/Gothenburg/Str%C3%B6mstad>). Note that we will have a car available from the 31st of August afternoon onwards and we can pick up people if needed.

If possible try to arrange transport among each other.

- **Surroundings of the station:** the station is located on an Island in a Fjord. In the neighborhood of the station there is fantastic nature, but nothing more. Nearest shop is at 15 km from the station. It is thus important to keep in mind that there will be no “escaping” possibilities. We will organize during the event possibilities on a regular basis where you can order specific items to be bought. Keep also in mind that at the station no alcoholic drinks can be bought. In case you want to offer your friends or teachers something in the evening, you should be creative in organizing this (begging at neighboring houses is not appreciated)

- **Swedish way of living:** there are a number of Swedish habits applied at the station:
 - It is good to be prepared for Swedish weather ... check the forecasts and bring matching clothing. During outside fieldwork this will be very important. At the station there will be wading suits and rubber boots available in case needed. In case you need to snorkel for research reasons, you should bring your own mask. Fins and wetsuits are available at the station. Water temperature will be around 18 degrees.
 - Inside the accommodation people do not wear shoes. Socks or slippers might be nice ...
 - Breakfast, lunch and dinner are served at “Northern European” time slots:
 - Breakfast : 8-8.45
 - Lunch: 12-13.00
 - Dinner: 17-18.00
- **Items to bring:**
 - One set of sheets is foreseen for each person. You should however bring your own **towel**. There are possibilities to wash clothes. You will need to bring your own washing powder.
 - You should bring your own **laptop**, notebooks and writing material. There is WIFI through Eduroam in all the buildings. Ensure that your Eduroam accounts are working properly before arrival as we will use a lot of online communication tools.

Schedule:

A regular day plan will look as follows:

- 8.00 : Breakfast
- 9.00 : Start of the Lab work
- 12.00 : Lunch
- 13.00 : Speed Lecture - Session with a short lecture on a practical or theoretical concept that will be used during the joint school (e.g. blogging, experimental design, presentation techniques, ...)
- 13.30 : Lab work
- 17.00 : Dinner
- 18.00 : Lab work
- 20.00 : Closing session

The overall schedules look as follows. During the school additional activities or changes might still be announced.

First joint school: 1-11 August 2018

- 1 August:
 - 8:00 Breakfast
 - 12.00 Lunch
 - 13.00 Welcome + intro session + practical guidelines
 - 17.00 Dinner
 - 18.00 Writing research proposal
- 2 August:
 - Writing research proposal
 - 16.00 Submission of the proposal
 - 18.00 – 20.00: Short presentations on the research proposal
- 3 August: Research / Sampling

- 4 August: Research/ Sampling
- 5 August: Research/ Sampling
- 6 August: Research / Sampling
- 7 August: Research
- 8 August: Research
- 9 August: Report writing / Lab cleanup
- 10 August: 17.00 Deadline submission reports
- 11 August: Presentations
- 12 August: Breakfast

Second joint school: 13-23 August 2018

- 13 August:
 - o 8:00 Breakfast
 - o 12.00 Lunch
 - o 13.00 Welcome + intro session + practical guidelines
 - o 17.00 Dinner
 - o 18.00 Writing research proposal
- 14 August:
 - o Writing research proposal
 - o 16.00 Submission of the proposal
 - o 18.00 – 20.00: Short presentations on the research proposal
- 15 August: Research / Sampling
- 16 August: Research / Sampling
- 17 August: Research / Sampling
- 18 August: Research / Sampling
- 19 August: Research
- 20 August: Research
- 21 August: Report writing / Lab cleanup
- 22 August: 17.00 Deadline submission reports
- 23 August: Presentations
- 24 August: Breakfast

An excursion and a free afternoon are planned during each joint school. During this excursion we will visit the Naturum Information centre on one of the Islands of the Archipel. The excursion will focus on the Kosterhavets National Park (<http://projektwebbar.lansstyrelsen.se/kosterhavet/Sv/english/Pages/index.aspx>). This visit will be done using a boat. The exact dates will be communicated at the start of each school depending on the availability of boats and guides.

Research work:

The station has excellent facilities for carrying out research. Experimental work as well as field work is possible in the best possible conditions. Below is an overview of the content and deliverables of the research work:

Students are divided in small teams and have to develop a research topic around one of the suggested research questions. Each team is assigned at least one responsible teacher. This teacher gives scientific support and follows up the group dynamics and personal commitment of each student.

Deliverables of research topics

For each research a number of assignments have to be completed:

1. **Written research proposal:** at the end of the second day all groups have to submit a written research proposal. This proposal sets clearly the hypothesis that will be tested, describes the activities that will be undertaken and the methodologies and equipment that will be used. It also includes a schedule and a view on expected outcomes.
2. **Presentation of the research proposal:** at the end of the second day all groups give a short oral presentation to the group at large on what they will do. It is an oral summary of the written research proposal. This 5 minutes presentation is followed by an in depth discussion which may lead to new insights or possible adaptations of the research plans.
3. **Daily work plans:** on a daily basis each group submits a view on the activities of the day. Each work plan has to be submit each evening before 8 pm. This to ensure that practical arrangements in terms of guidance and equipment can be undertaken. A work plan includes details on who will be doing what at which times.
4. **Written scientific report:** at the end of the school a scientific report has to be submitted on the activities carried out. Each report should include at least the following sections: introduction, material and methods, results, discussion and suggestions for follow-up research. The length of the report is limited to 2 pages per person + 2. A group of 4 people can thus submit a report of $(4 \times 2 + 2) = 10$ pages.
5. **Presentation of the research:** during the last day of the school all teams present the scientific work carried out. During a 15 minutes presentation, in which all members of the group have at least to present, the framework, results and conclusions are discussed. After each presentation a moment of discussion is foreseen.
6. **Outreach and communication products:** An IMBRSea joint school includes besides the regular scientific reporting also two other types of outreach communication activities.
 - a. **Blog:** a blog will be set up. Each team has to submit at least three blog posts during the school. One at the start, one in the middle and final one at the closing of the school. Blog posts are screened before publishing.
 - b. **Documentary movie:** besides the blog students also have to make a short movie documentary explaining the public at large what research was carried out. A short lecture is given on how to make such movies.

To Do's

- Complete the joint school information form on your IMBRSea pages by **1 July 2018** at the latest. You should provide info on:
 - Day and time of arrival
 - Dietary restrictions
 - Exact time of leave
- Make sure you bring all the items you should bring (see above)