

Field course in Micrometeorology and Hydrology (ATM 321)

3 – 7 September 2018, Hyytiälä Forestry Field Station, Finland

The course is organized by University of Helsinki and it is held at [Hyytiälä Forestry Field Station, Finland](#), on 3rd – 7th of September 2018. The course will cover several aspects related to methods for measuring biosphere-atmosphere exchange of energy and gases, as well as methods for hydrological measurements. In particular, this time we will focus on lake ecosystems, including measurements in the water column, in the air, and at water-air interface. During the course students will use MATLAB as main tool for data analysis, as well as the software [EddyUH](#) for processing EC data.

The course will consist of lectures, group work and practical sessions in the field and classroom, and it is intended for master and doctoral students, as well as for postdoc researchers. The course is worth of 5 ECTS.

Topics to cover and working groups:

- EC setup, sensors, methods, and data processing.
- Gas exchange measurements using floating chambers.
- In water measurements with multiparameter probes (CTD, ADCP).
- Application of flux-gradient method for T, CO₂ and H₂O.

Participation Costs:

The full fee of the course is 900 € and includes full boarding (breakfast, lunch, afternoon coffee, dinner, and evening meal), accommodation in two person bedrooms and the transfers between Helsinki and Hyytiälä. There is no course fee for students from University of Helsinki.

Facilities in Hyytiälä

Accommodation for the students is in two person rooms. Each room is equipped with beds, bed linens, towels, a small desk and a wardrobe. Two rooms share a bathroom and six rooms share a shower. It is also possible to store food in a refrigerator. There is also a washing machine for common use. For more detailed information please visit the [information page](#) of the station. It is a good idea to bring a laptop computer with you if you have one. There is a wireless internet connection at the station.

Preliminary list of lecturers:

Ivan Mammarella, Olli Peltola, Risto Taipale, Tom Kokkonen, Pasi Kolari and Kukka-Maaria Erkkilä.

Applying for the Course (Deadline 20.08.2018)

Please fill the [online application form](#) . Students from University of Helsinki should register also via WebOodi.

Contact persons:

Kukka-Maaria Erkkilä (kukka-maaria.erkkila@helsinki.fi) and Ivan Mammarella (ivan.mammarella@helsinki.fi).