

INSECTS: INVENTORY AND IDENTIFICATION

7th – 25th of August 2023

Teachers: DK = Dave Karlsson (Station Linné)
 MF = Mattias Forshage (NRM)
 EH = Emily Hartop (Station Linné)
 FR = Fredrik Ronquist (NRM)
 JR = Jadranka Rota (LU)
 NW = Niklas Wahlberg (LU)
 TR = Tomas Roslin (SLU)
 HH = Harald Havnås (Station Linné)



Days: AM = 09:00 to 12:00 (coffee break 10:15 – 10:45)
 Lunch break 12:00 – 13:00
 PM = 13:00 – 16:00 (coffee break 14:15 – 14:45)

FIRST WEEK

Monday, August, 7

AM Introduction and welcome to Öland, Station Linné // DK, MF, HH
 Course instructions (project, collection, quiz and morphology task) // DK, MF, HH

PM Diversity and phylogeny of insects // DK
 Preparation techniques (session may be forward to Wednesday) // DK, HH

Evening (optional...) social hour/safe welcome party

Tuesday, August, 8

AM Comparative insect morphology and terminology //DK

PM Comparative insect morphology and terminology //DK

Wednesday, August, 9

AM Setting out traps (field session)// HH, MF (Neighborhood around Station Linné)
 Field session, collecting insects //MF, HH

PM Order sorting in lab. // DK or HH

Evening Night excursion // DK, MF, HH



Thursday, August, 10

AM1 Inventory methodology //MF

AM2 Construction and use of keys //MF

PM Diversity, phylogeny and evolution of insects: Hymenoptera // DK

Diversity, phylogeny, and evolution of insects: Ichneumonoidea // DK

Friday, August, 11

AM Diversity, phylogeny and evolution of insects: Coleoptera // MF

PM Diversity, phylogeny and evolution of insects: Diptera // EH (webinar?)

Evening Night excursion (optional...)



SECOND WEEK

Monday, August, 14

AM1 The importance of biological collections and why we need to keep collecting //JR

AM2 The successful evolutionary history of insects //NW

PM1 Diversity, phylogeny and evolution of insects: Lepidoptera // JR

➔ Hand in morphology task // DK, HH

Tuesday, August, 15

AM Field session, collecting insects // DK, HH

PM Lab session; determination, preparation and individual lab session // DK or HH

Wednesday, August, 16

AM Field session, collecting insects // DK, HH

PM Lab session; determination, preparation and individual lab session // DK or HH

Thursday, August, 17

AM Field/Lab session (personal student planning)

PM Field/Lab session (personal student planning)

Friday, August, 18

AM Practices about research and the world of funding //FR

PM Own project/field/lab





THIRD WEEK

Monday, August, 21

AM Going full out: All taxon biodiversity inventories //TR

PM Own project/field/lab

Tuesday, August, 22

AM Own project/field/lab

PM Own project/field/lab

Evening Night excursion (optional...)

Wednesday, August, 23

AM Own project/field/lab

PM Own project/field/lab

Thursday, August, 24

AM Oral presentations and course closing (group 1)

PM1 Oral presentations and course closing (group 2)

PM2 Collection report

Friday, August, 25

AM Taxon quiz //DK, HH

PM Results and course evaluation //DK, HH



Recommended course literature:

Gullan, PJ & Cranston, P S: Insects: An outline of Entomology, Chapman & Hall (appr. 600 SEK) (Academic standard textbook) OR [as a free pdf!](#)

Or:

Grimaldi, D & Engel, M S: Evolution of the Insects, Cambridge University Press (big, beautiful and up-to-date book, contains far more than the present course is able to cover, but strongly recommended for anyone with an interest in insects. Out of print but might be available as used or even as a pdf.)

And:

Various on-line identification keys and handouts.

