

INSECTS: INVENTORY AND IDENTIFICATION

12th – 30th of August 2024

Teachers: DK = Dave Karlsson (Station Linné)
 MF = Mattias Forshage (NRM)
 MK = Mårten Klinth (Station Linné)
 EH = Emily Hartop (NTNU)
 PJ = Pav Johnsson
 TR = Tomas Roslin (SLU)
 CRU = Carina Romero Ugarph (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, 12

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

PM Diversity and phylogeny of insects // DK
 Preparation techniques (session may be forward to another day) // DK, MF

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

Tuesday, August, 13

AM Comparative insect morphology and terminology //DK

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↪ Hand in morphology task // DK

Wednesday, August, 14

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

PM Order sorting in lab. // MK (and CRU)

19:00 Digital tools for determinations (PJ)

20:00 Night excursion // DK, MF, MK



Thursday, August, 15

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, 16

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, 19

AM Molecular methods for identifying of insect //MK

PM1 Molecular methods for identifying of insect //MK

PM2 Diversity, phylogeny and evolution of insects: Lepidoptera // DK

Tuesday, August, 20

AM Field session, collecting insects // DK, MF

PM Lab session; determination, preparation and individual lab session // DK, MF, MK, CRU

Wednesday, August, 21

AM Field session, collecting insects // DK, MF

PM Lab session; determination, preparation and individual lab session // DK, MK, CRU

Thursday, August, 22

AM Field/Lab session (personal student planning)

PM Field/Lab session (personal student planning)



Friday, August, 23

AM Field/Lab session (personal student planning)

PM Field/Lab session (personal student planning)





THIRD WEEK

Monday, August, 26

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

PM Own project/field/lab

Evening Night excursion (optional...)

Tuesday, August, 27

AM Rock n' roll with Tomas //TR

PM Own project/field/lab

Wednesday, August, 28

AM Own project/field/lab

PM Own project/field/lab

Thursday, August, 29

AM Oral presentations and course closing (group 1)

PM1 Oral presentations and course closing (group 2)

PM2 Collection report

Friday, August, 30

AM Taxon quiz //DK, MK

PM Results and course evaluation //DK, MK



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 is 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.

