



DEPARTMENT OF MATHEMATICAL SCIENCES

NFMV023 Statistical climatology, 7.5 credits

Statistisk klimatologi, 7,5 högskolepoäng

Third-cycle level / Forskarnivå

Confirmation

This syllabus was confirmed by the Department of Mathematical Sciences on 2022-06-17, and is valid from Autumn semester 2022.

Responsible Department

Department of Mathematical Sciences, Faculty of Science

Entry requirements

The main requirement is a course in regression, and some elementary probability. Knowledge of R, a software environment for statistical computing and graphics, is helpful but not essential.

Learning outcomes

The students will get experience in analyzing climate data. They will get an understanding of the importance of learning about data sources and scientific background. The group projects will yield experience in communicating science and statistics.

Course content

The course will consist of two or three cases, i.e., scientific questions that we seek to answer. Scientific background material, in the form of links, summary texts, and lectures, will be provided to aid the analysis. Technical lectures (detailed or overviews) are available upon request. The class will be divided into groups, each of which do their own analysis. The intent is to have each group contain a broad spectrum of expertise.

Project reports will differ between cases, but could be a combination of oral presentations, posters, web pages, podcasts etc.

Types of instruction

Meetings (lectures etc.) once a week, scheduled to be travel friendly.

Language of instruction

The course is given in English.

Grades

The grade Pass (G) or Fail (U) is given in this course.

Types of assessment

Project reports

Course evaluation

The course is evaluated together with the examiner at the end of the course.