

S115 Terrestrial Ecosystems – Field Studies**Coordinator:** Prof. Dr. J. Schrautzer**Teaching Staff:** Prof. Dr. J. Schrautzer, Prof. Dr. K. Dierßen, Prof. Dr. Bilger**Section for SSE:** B3 - Environmental Management**Status for SSE:** Elective**Section for EM:** B3 - Environmental Management**Status for EM:** Elective**Contact time overall:** 60 hours**Credit points:** 6 ECTS**Term (Semester):** 2 Summer**Independent study:** 120 hours**Prerequisites:** None**Language of tuition:** English**Overall workload:** 180 hours**Class size:** 16**Teaching Units:****Exercise – Terrestrial Ecosystems – Field Studies****Teaching Staff:** Prof. Dr. J. Schrautzer, Prof. Dr. K. Dierßen, Prof. Dr. Bilger**Contact time:** 60

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Teaching Staff:**Contact time:**

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S115

Terrestrial Ecosystems – Field Studies

Content:

This module focuses on the population/community dynamics and physical processes in terrestrial and semi-terrestrial ecosystems. The course provides knowledge about principal geobotanical techniques, measurements to acquire plant physiological processes, population dynamics of plant species and succession processes within plant communities. Special attention will be given to different restoration concepts currently applied in Central Europe. Exercises are carried out in differently managed forests, wet and dry grasslands, mires and gravel pits.

Learning outcomes:

Students are able to measure principle processes within ecosystems and to recognize their biotic and abiotic structure. They are able to evaluate the possibilities, limits and informative value of field data for ecosystem conservation and management.

References:

Kent, M. & Coker, P. (1992): Vegetation description and analysis. CRC, Boca Raton.

Moore, P.D., Chapman, S.B. (1986): Methods in plant ecology. 2nd edition. Blackwell, Oxford.

Grime, J.P. (2002): Plant strategies, vegetations processes and ecosystem properties. 2nd edition. Wiley, Chichester

Recommended previous knowledge:

Basic knowledge of biology, chemistry, ecology

Teaching media:

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Assessment:

Report: 100%

Contact details of module coordinator:

Prof. Dr. J. Schrautzer
University of Kiel - Institute for Ecosystem Research
Department Ecosystem Research
Olshausenstr. 75
24118 Kiel
Germany
Phone: +49 (0)431 880-4595
Fax: +49 (0)431 880-4083
Mail: jschrautzer@ecology.uni-kiel.de