

**S151 Long Term Analysis of Environmental Trends****Coordinator:** Prof. Dr. H.-R. Bork**Teaching Staff:** Prof. Dr. H.-R. Bork**Section for SSE:** E - Open Studies**Status for SSE:** Elective**Section for EM:** B7 - Human Development in Landscapes**Status for EM:** Elective**Contact time overall:** 59 hours**Credit points:** 6 ECTS**Term (Semester):** 3 Winter**Independent study:** 121 hours**Prerequisites:** None**Language of tuition:** English**Overall workload:** 180 hours**Class size:** 25**Teaching Units:****Lecture - Long Term Analysis of Environmental Trends****Teaching Staff:** Prof. Dr. H.-R. Bork**Contact time:** 13**Exercise - Long Term Analysis of Environmental Trends****Teaching Staff:** Prof. Dr. H.-R. Bork**Contact time:** 20**Seminar - Long Term Analysis of Environmental Trends****Teaching Staff:** Prof. Dr. H.-R. Bork**Contact time:** 26**Teaching Staff:****Contact time:****Competences the module has been designed to develop:****Mastery of subject matter:** medium**Problem solving competences:** strong**Mastery of methods:** strong**Communication competences:** strong**Application of knowledge and understanding:** strong**Learning competences:** strong

S151

Long Term Analysis of Environmental Trends

**Content:**

Interpretation and analysis of long-term dynamics of landscapes depending on social processes, land-use and natural processes. The natural and anthropogenic components will be differentiated. With the help of examples from different continents the multiple direct and indirect impacts of cultures on landscape characteristics and development will be clarified. In groups case studies will be analysed with the help of the 4-dimensional landscape analysis and evaluated regarding their relevance for current environmental action. Results will be presented in an exhibition to the public.

**Learning outcomes:**

Students are able to identify long-term trends of the development of ecosystems in different landscapes and the dominating processes and structures at different times. Participants are able to evaluate the impact of landscape development regarding current management decisions.

**References:**

H.-R. Bork: CD with relevant publications in English.

**Recommended previous knowledge:**

Assessment of Module 2.1.5

**Teaching media:**

Field work, data analysis

**Assessment:**

Report: 100%

**Contact details of module coordinator:**

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