# S152 Geoarchaeology and Holocene palaeoecology – reconstruction of natural and human processes in ecosystems

**Coordinator:** Prof. Dr. H.-R. Bork  
**Teaching Staff:** Dr. S. Dreibrodt

**Language of tuition:** English  
**Term (Semester):** 3 Winter

<table>
<thead>
<tr>
<th>Contact time overall:</th>
<th>52 hours</th>
<th>Credit points:</th>
<th>6 ECTS</th>
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</thead>
<tbody>
<tr>
<td>Independent study:</td>
<td>128 hours</td>
<td>Prerequisites:</td>
<td>None</td>
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<tr>
<td>Overall workload:</td>
<td>180 hours</td>
<td>Language of tuition:</td>
<td>English</td>
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<tr>
<td>Class size:</td>
<td>14</td>
<td>Class size:</td>
<td>14</td>
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</tbody>
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**Teaching Units:**

**Exercise** – Geoarchaeology and Holocene palaeoecology – reconstruction of natural and human processes in ecosystems  
**Teaching Staff:** Dr. S. Dreibrodt  
**Contact time:** 26

**Seminar** – Geoarchaeology and Holocene palaeoecology – reconstruction of natural and human processes in ecosystems  
**Teaching Staff:** Dr. S. Dreibrodt  
**Contact time:** 26

**Competences the module has been designed to develop:**

- **Mastery of subject matter:** medium  
- **Mastery of methods:** strong  
- **Application of knowledge and understanding:** strong  
- **Problem solving competences:** strong  
- **Communication competences:** strong  
- **Learning competences:** medium
Content:
Students get experienced to carry out geoarchaeological and Holocene palaeoecological studies. They learn to collaborate in groups while analyzing, compiling, combining, discussing and interpreting different available data (in part gained from S152) within the frame of projects. A major aspect is the comparison of palaeoenvironmental results with recent data. Whereas one focus is lead on the analysis another one is set on the presentation (talk) and publication of the results.

Learning outcomes:
Different palaeoenvironmental data (available from S 152 and earlier projects) are compiled, discussed, interpreted, presented and published by the students. Students are organized in project teams.

References:
Scientific papers according to the respective project- examples for palaeoclimatic research on lake sediments or historical soil erosion:


Recommended previous knowledge:
Basics in Ecology, consolidation/ continuation of S152

Teaching media:
Lab work (microscope), data analysis, interpretation, presentation

Assessment:
Project: 100%

Contact details of module coordinator:
Prof. Dr. H.-R. Bork
University of Kiel - Institute for Ecosystem Research
Department of Ecosystem Research and Geoarchaeology
Olshausenstr. 75
24118 Kiel
Germany
Room: 107
Phone: +49 (0)431 880-3953
Fax: +49 (0)431 880-4607
Mail: hrbork@ecology.uni-kiel.de