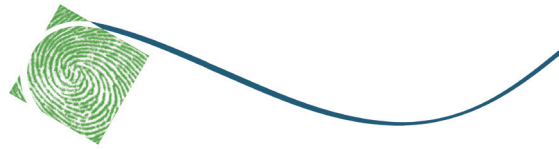


known paths: 16  
Path from C-1 to C-7  
Path from C-3 to C-10  
Path from C-1 to C-2  
Path from C-5 to C-6  
Path from C-4 to C-7  
Path from C-1 to C-4  
Path from C-3 to C-5  
Path from C-7 to C-9  
Path from C-4 to C-9  
Path from C-4 to C-5  
Path from C-1 to C-8  
Path from C-3 to C-6  
Path from C-4 to C-8  
Path from C-3 to C-4  
Path from C-5 to C-10  
Path from C-2 to C-7  
connectedness: 0.3559



**human development in landscapes**  
GRADUATE SCHOOL AT THE UNIVERSITY OF KIEL

**MODELLING IN THE GRADUATE SCHOOL:  
INTERRELATIONS OF ENVIRONMENTAL AND SOCIAL CHANGE  
WITH A FOCUS ON ECONOMIC RELATIONS**  
Kiel, Mon 25th - Tue 26th of June 2012

The Graduate School "Human Development in Landscapes" (GSHDL) has a strong interest in modelling ancient eco-social systems and intends to intensify this interdisciplinary field of research. The focus lies on the threefold impact of natural, social, and economic factors on human behaviour and the development of human communities. The goal is to quantify the space- and time-dependent impact of these three components.

In order to sharpen the profile of modelling-related research in GSHDL, an international workshop will be held from 25th - 26th June 2012. The workshop "Modelling in the Graduate School: Interrelations of Environmental and Social Change with a Focus on Economic Relations" aims to shed light on the interplay between environmental and social drivers of human behaviour with special regard to economic relations. The workshop sets out to explore international modelling activities and to evaluate different concepts according to the Graduate School's objectives. The focus lies on concepts of numeric models which are to be exemplified in case studies.

**DAY 1: MONDAY 25TH JUNE**

Venue: Leibnizstraße 1, room 204

**11:00-11:30 Welcome**

**I SETTLEMENT PATTERNS AND POPULATION DYNAMICS**

**11:30-12:00  
Introduction**

**12:00-12:45  
Variables for Modelling Ancient Societies and Landscapes**  
Johannes Müller (CAU, Institute of Pre- and Protohistoric Archaeology)

**12:45-13:30  
Predictive Modelling as a Tool for Archaeological Research**  
Martin Hinz (CAU, Institute of Pre- and Protohistoric Archaeology)

**13:30-14:15 Lunch break**

**14:15-15:00  
Location and Transportation**  
Dirk Stelder (University of Groningen, Department of Economics and Econometrics)

**15:00-15:45  
Economic Modelling of Central Places**  
Johannes Bröcker (CAU, Institute of Regional Research)

**15:45-16:30  
Long-term Drivers of Holocene Regional Populations**  
Carsten Lemmen (Helmholtz-Zentrum Geesthacht, Institute of Coastal Research)

**16:30-17:00 Coffee break**

## **II BIWEEKLY COLLOQUIUM**

**17:00-19:00**

### **Introducing the Human Factor in Predictive Modelling**

Philip Verhagen (VU University Amsterdam, Faculty of Arts)

**20:00 Dinner**

## **DAY 2: TUESDAY 26<sup>TH</sup> JUNE**

Venue: Leibnizstraße 1, Room 105a

## **III SYSTEMS OF TRANSPORTATION**

**10:00-10:45**

### **Modelling Systems of Transportation**

Oliver Nakoinz (CAU, Institute of Pre- and Protohistoric Archaeology)

**10.45-11:30**

### **Modelling of Roman and Byzantine Routes in Cappadocia**

Philip Verhagen (VU University Amsterdam, Faculty of Arts)

**11:30-12:00 Coffee break**

**12:00-12:45**

### **Models of Movement**

Andrew Bevan (UCL, Institute of Archaeology)

**12:45-13.30**

### **Decreasing Transportation Costs and the Process of Urbanisation: New Economic Geography as a Modelling Paradigm of Urban Beginnings**

Arne Windler (University of Bochum, Institute of Archaeological Sciences)

**13:30-14:00**

### **Closing discussion**

**14:00-15:00 Lunch**

Optional visit to the waterside

