

Research questions and approaches to fortifications on communication routes. The INHILLDAUGAR Project (an introduction)

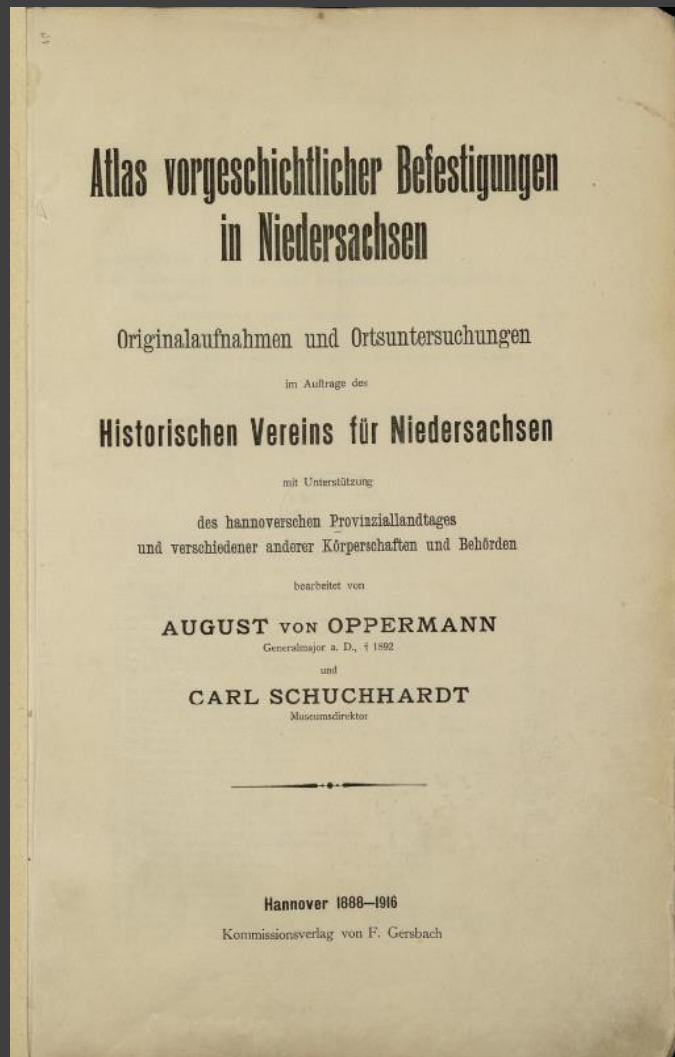
Jens Schneeweiß

Cluster of Excellence ROOTS
Centre for Baltic and Scandinavian
Archaeology, Schleswig / Kiel University

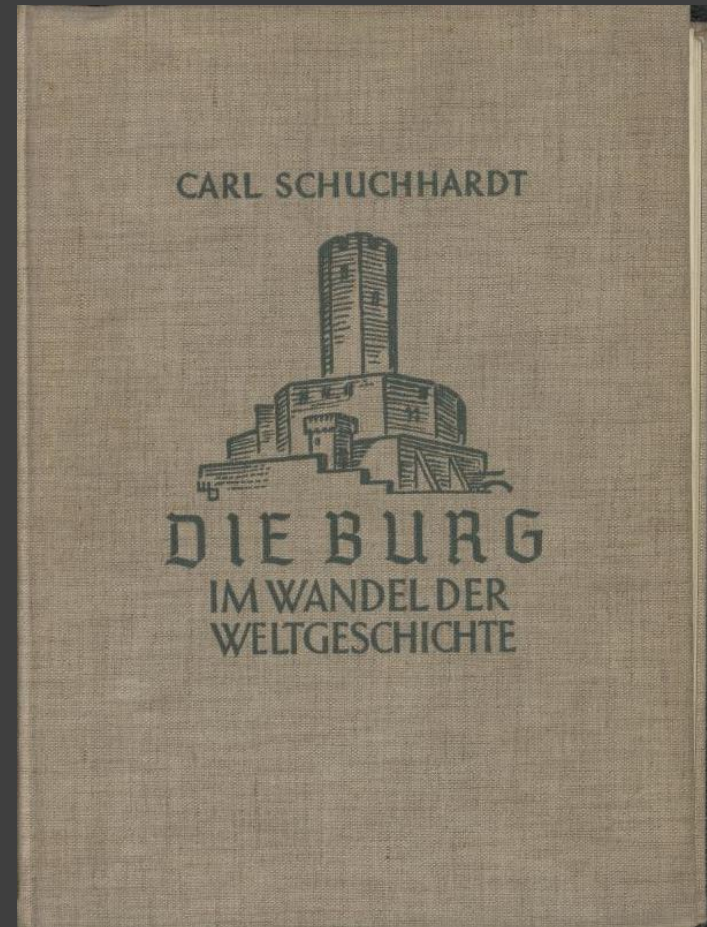
Structure:

- Research history: 2 Examples
 - Carl Schuchhardt and the Elbe River
 - The early medieval defence system along the Schlei
- The INHILLDAUGAR Project
 - Background, Objectives, Approaches

Early stage of fortification research: corpus works of individual monuments



Atlas of Prehistoric Fortifications
in Lower Saxony, 1888-1916

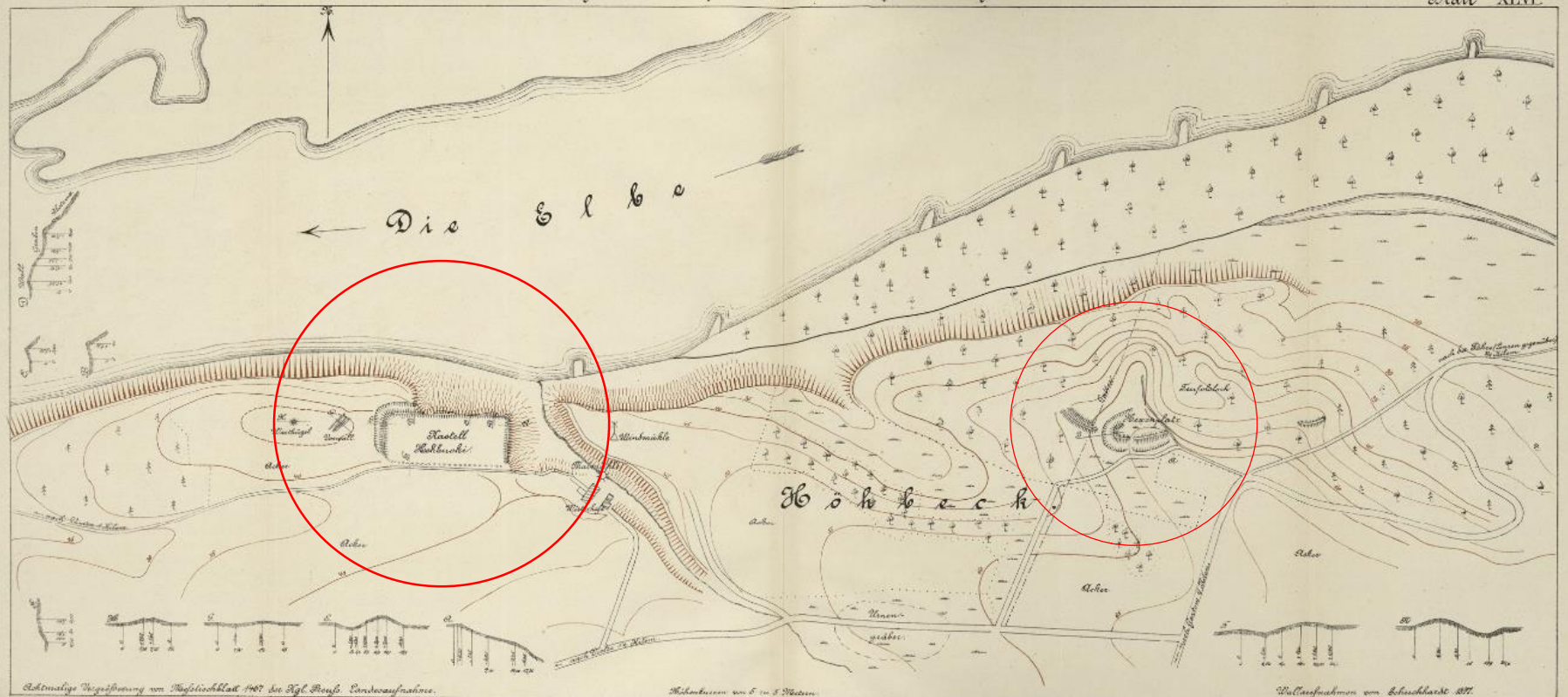


The Fortress in the changing World
History, 1931

Schanze auf dem Hühbeck (Kastell Hohbuoki Karls d. Gr.) und Schanze auf dem Hexenplatz.

bei Gastow am linken Ufer der Elbe, Kreis Lüneburg, Reg. Bez. Lüneburg.

Blatt XLVI.



Rechnung der Festung von Hühbeck 1887, des Rgl. Regt. Lüneburg.

Hühbeck von S. u. S. Westen.

Querschnitt von Schanze 1887.

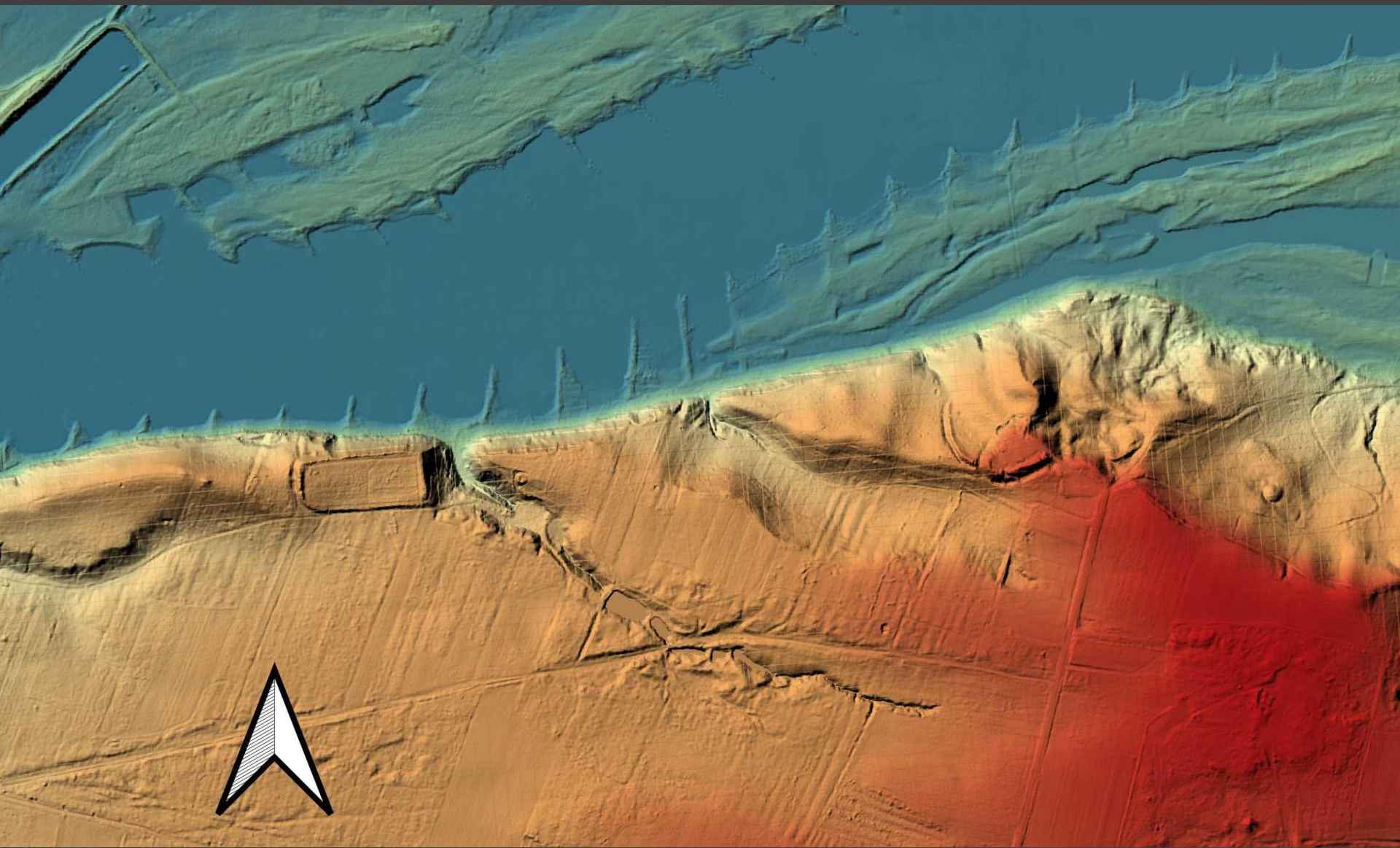
Querschnitt für den Lagerplan 1885



Querschnitt für die Wallprofile 1885



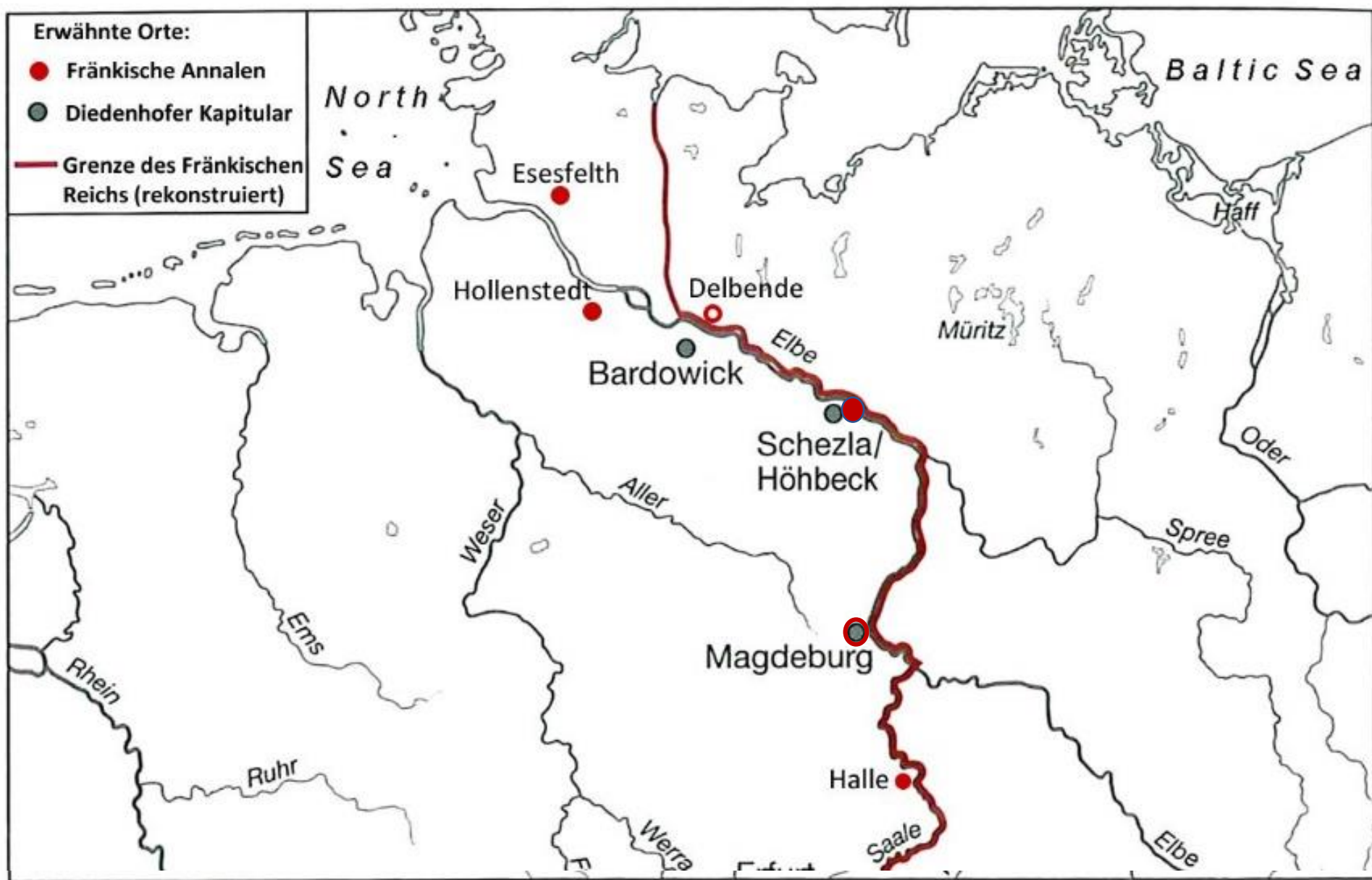
Castellum Hohbuoki at the Elbe river, Atlas of Prehistoric Fortifications in Lower Saxony, 1888-1916

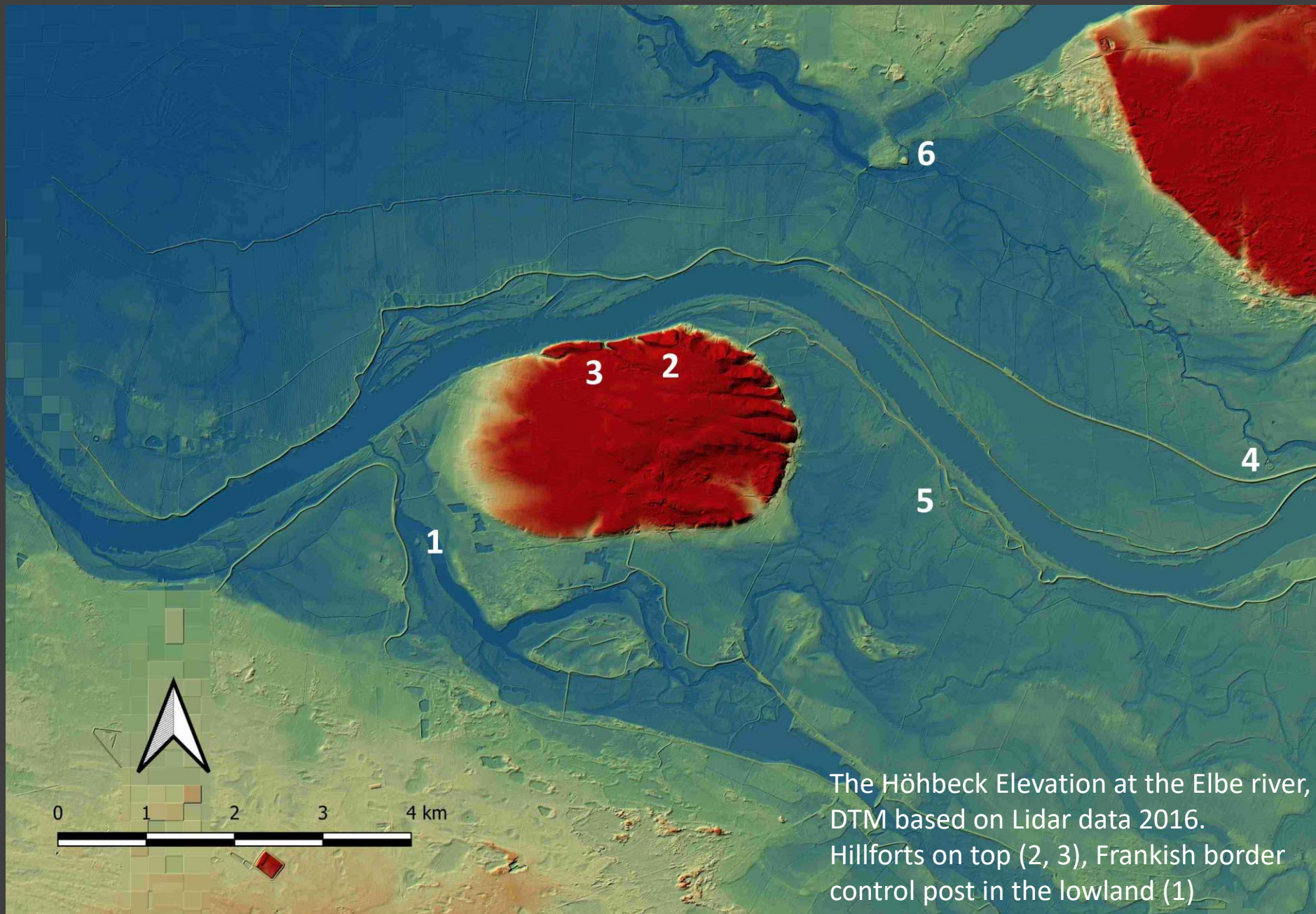


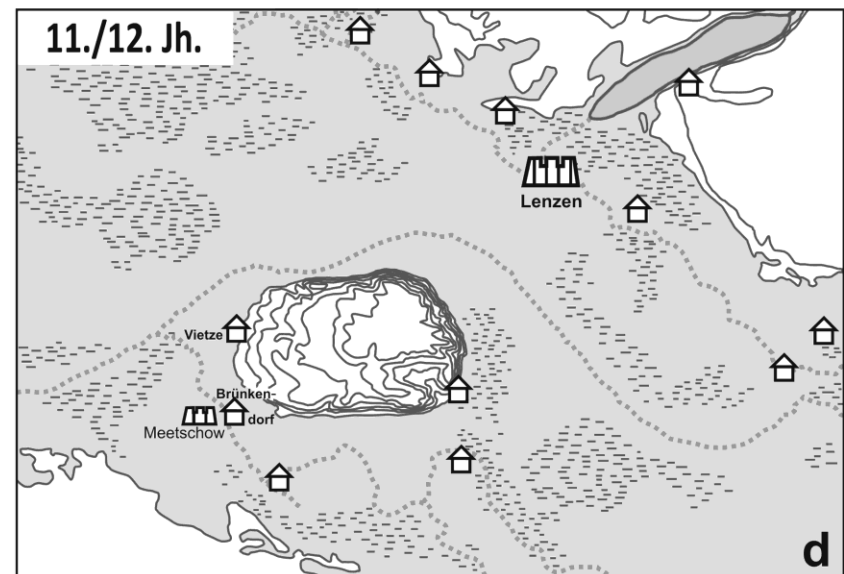
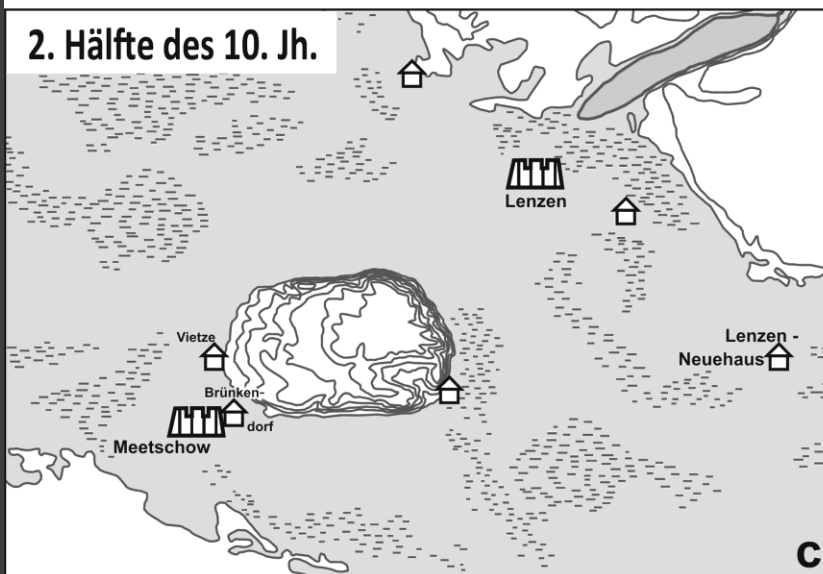
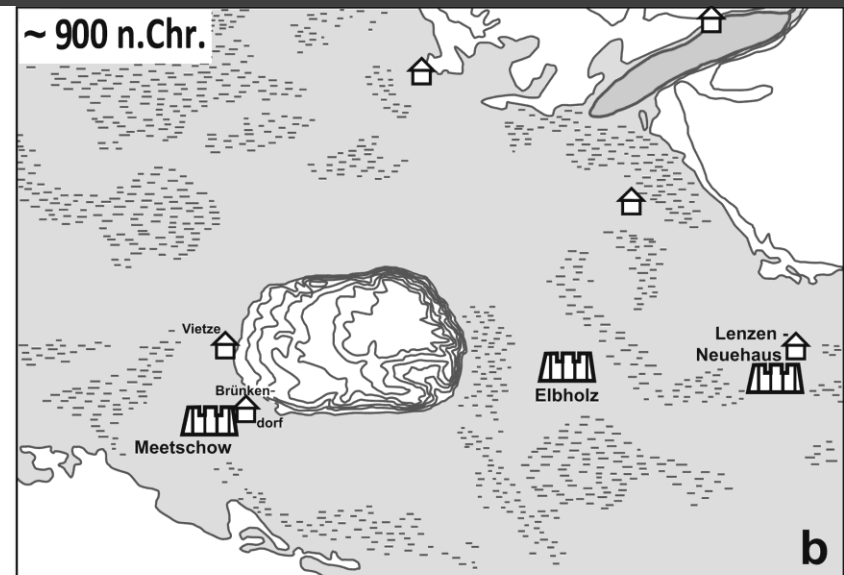
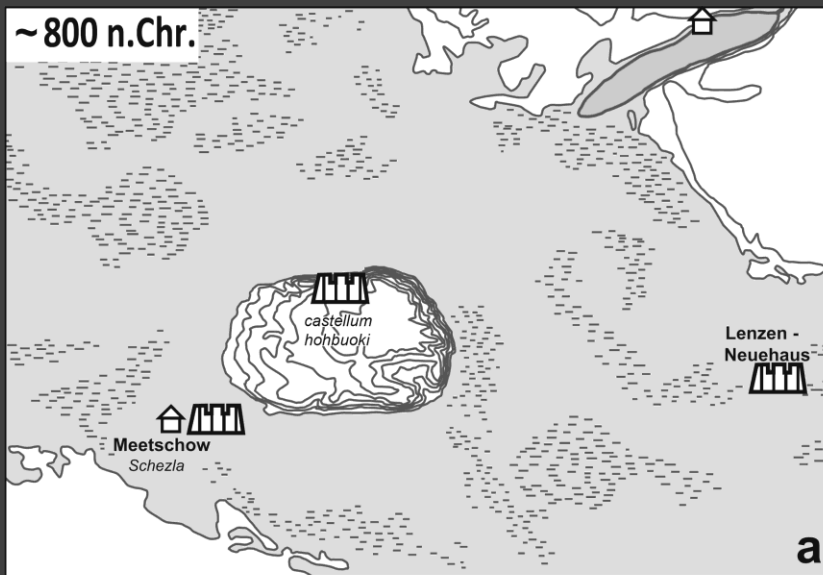
Castellum Hohbuoki at the Elbe river,
DTM based on Lidar data 2016

Erwähnte Orte:

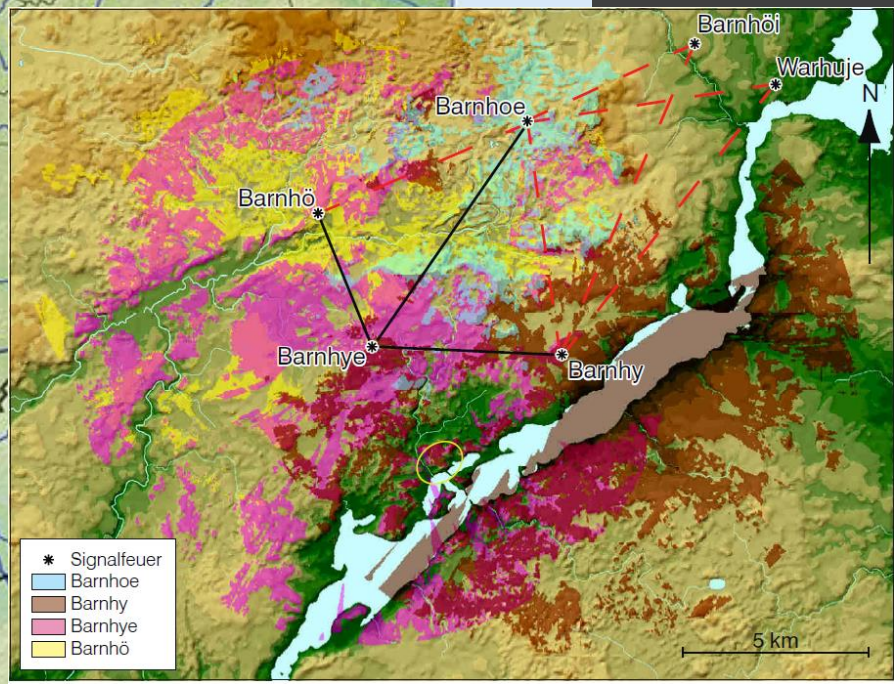
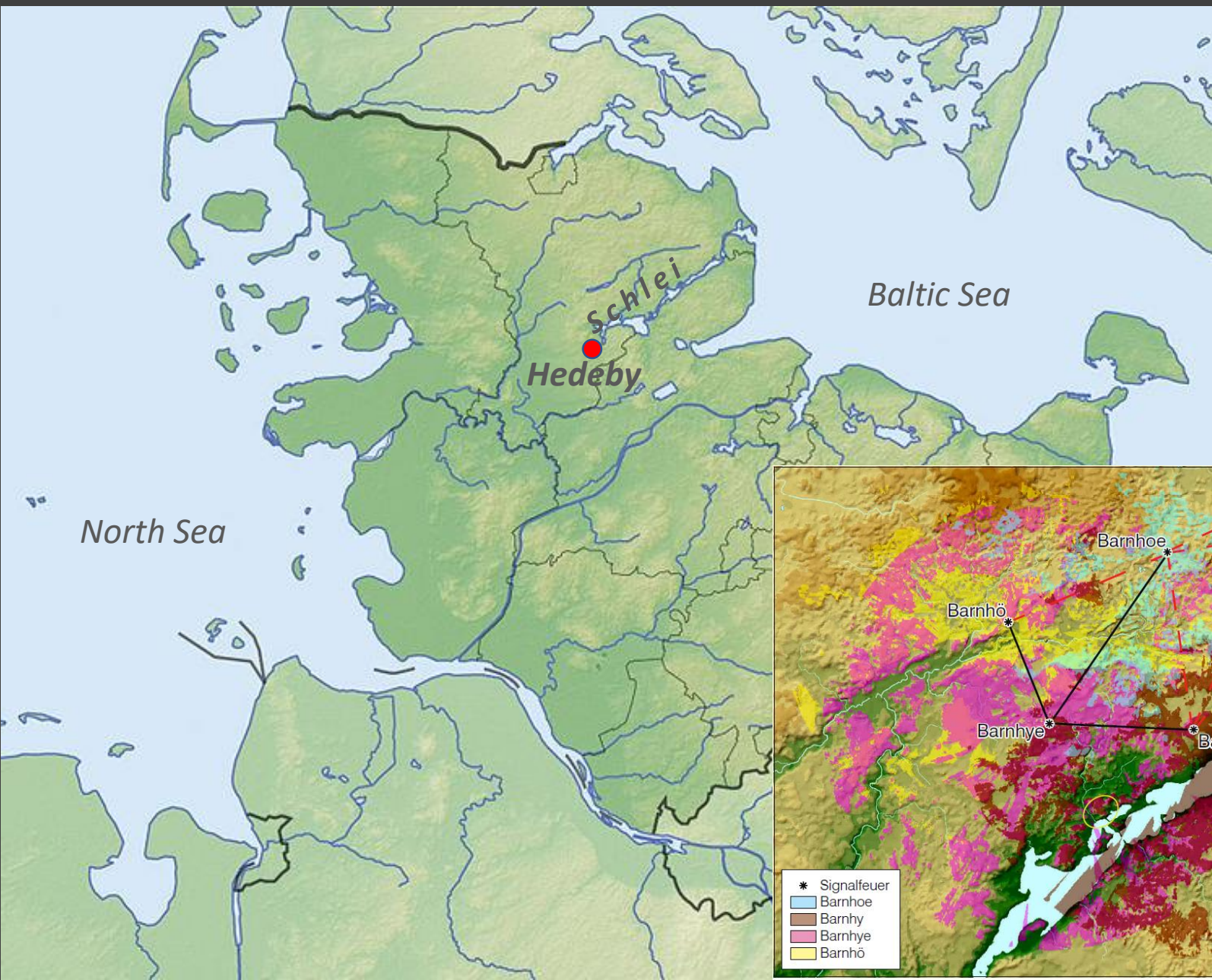
- Fränkische Annalen
- Diederhofer Kapitular
- Grenze des Fränkischen Reichs (rekonstruiert)



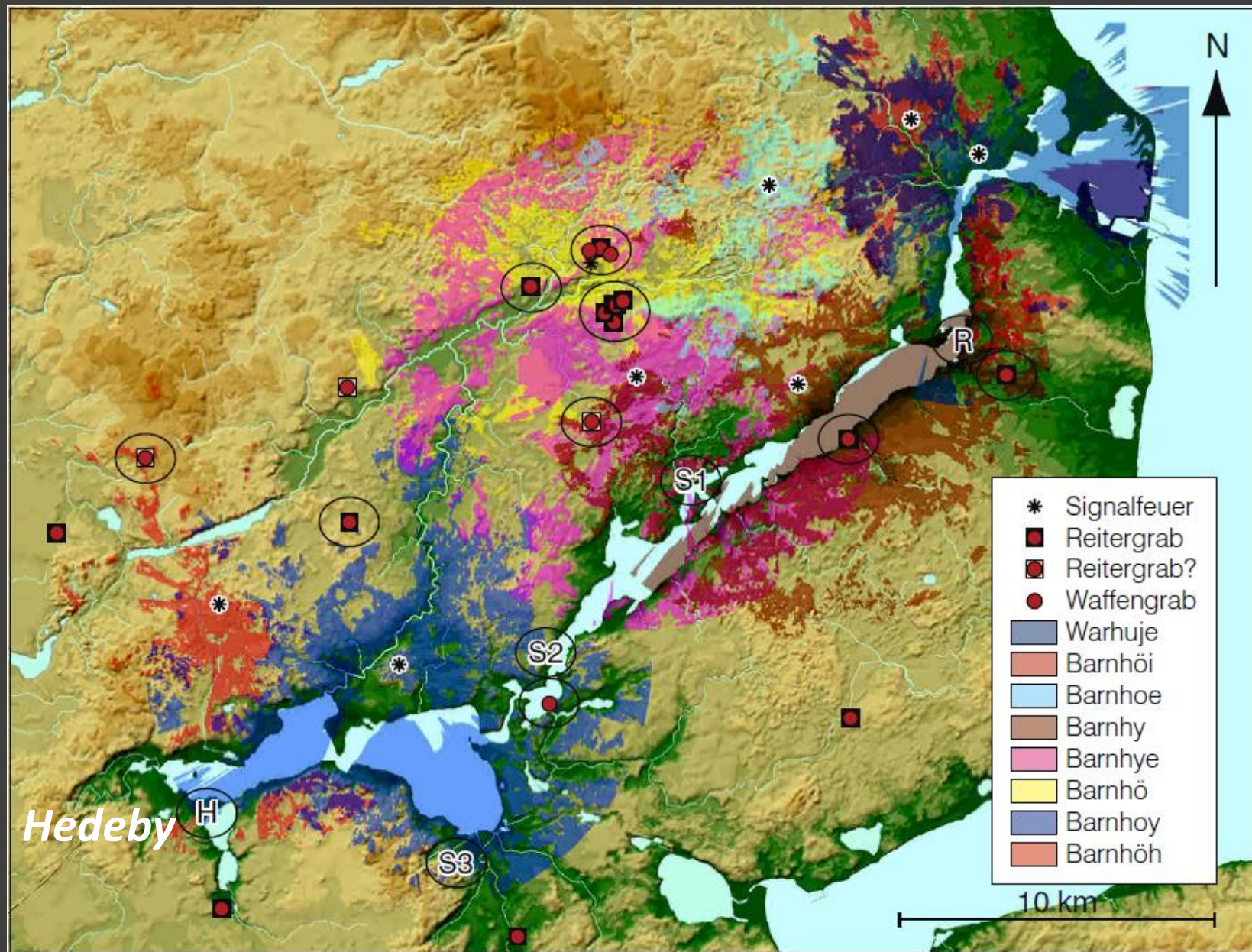




Scheme of the development of fortifications and settlements in the Höhbeck area from 8th-12th c. AD



Viking Age trading town Hedeby – cultural crossroads between Scandinavia and the continent, between the Baltic and the Northern Sea areas



Maritime defence system along the Schlei to protect Hedeby based on archaeological data, toponyms, spatial and viewshed analyses.

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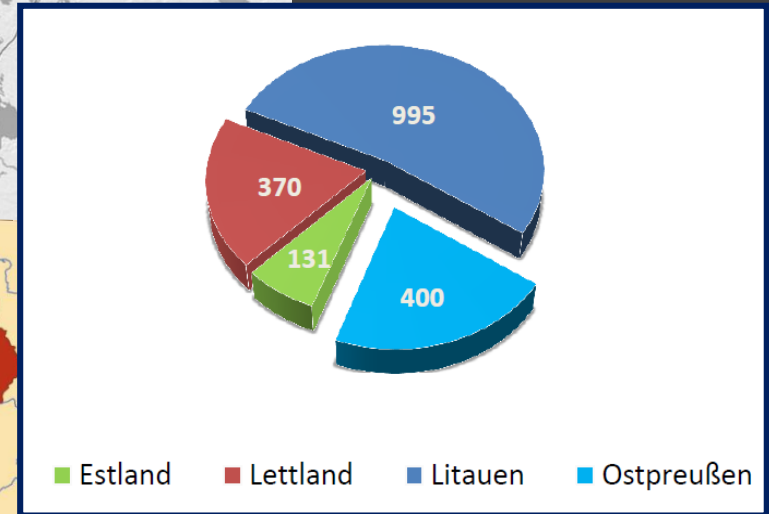
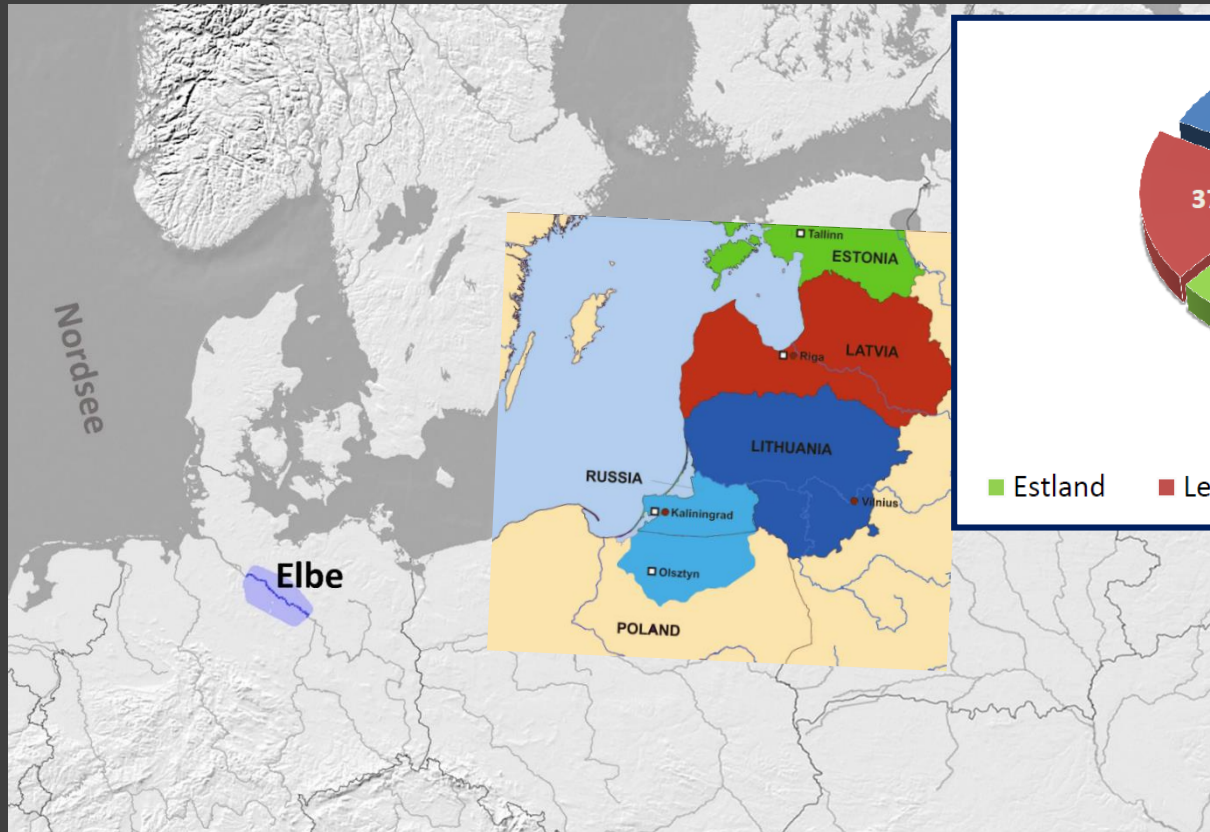
Interdisciplinary Hillfort Studies at the Daugava River: Merging and Decoding Archaeological, Environmental and Linguistic Data



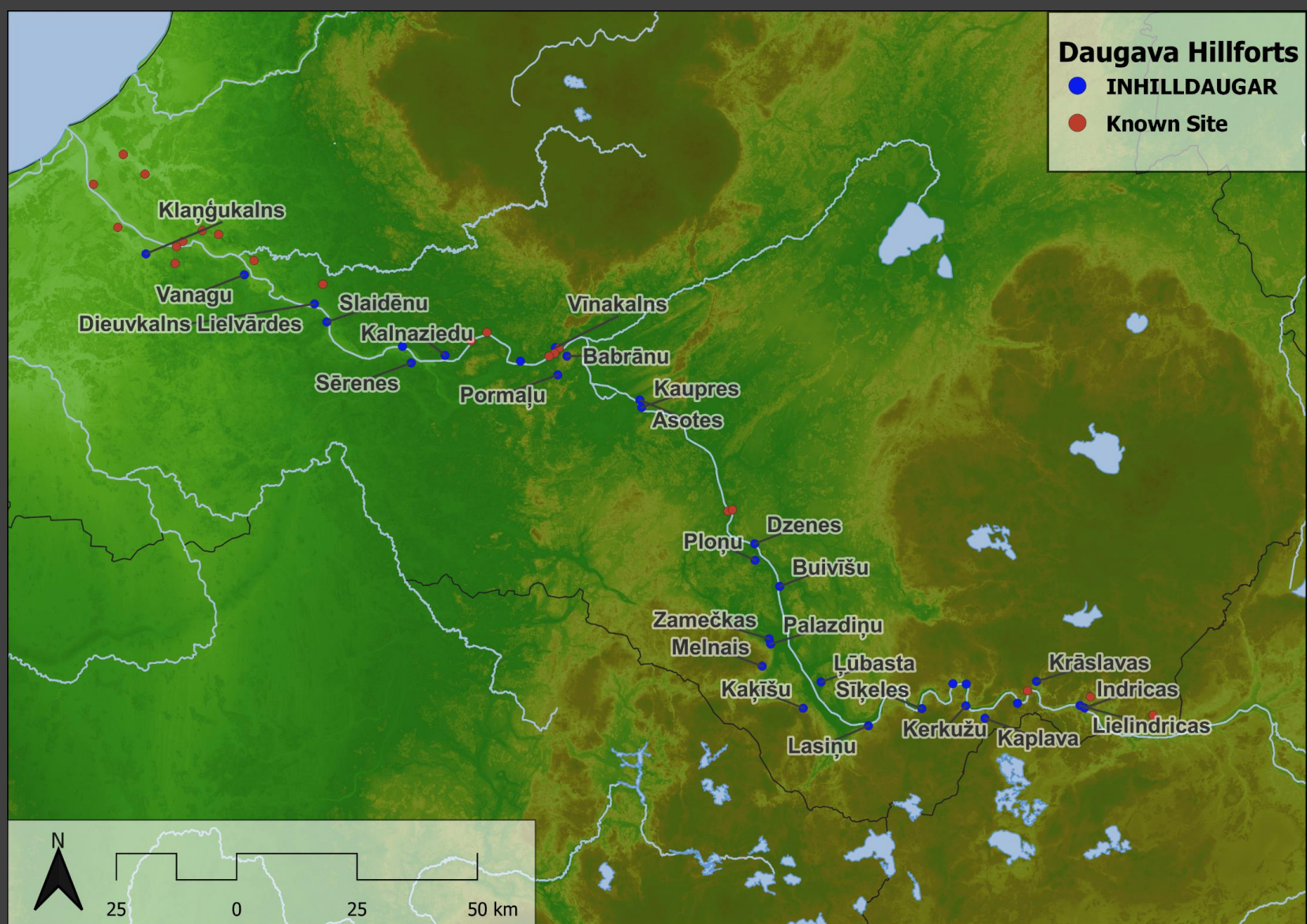
**Beethoven CLASSIC 4 –
Polish-German research initiative**



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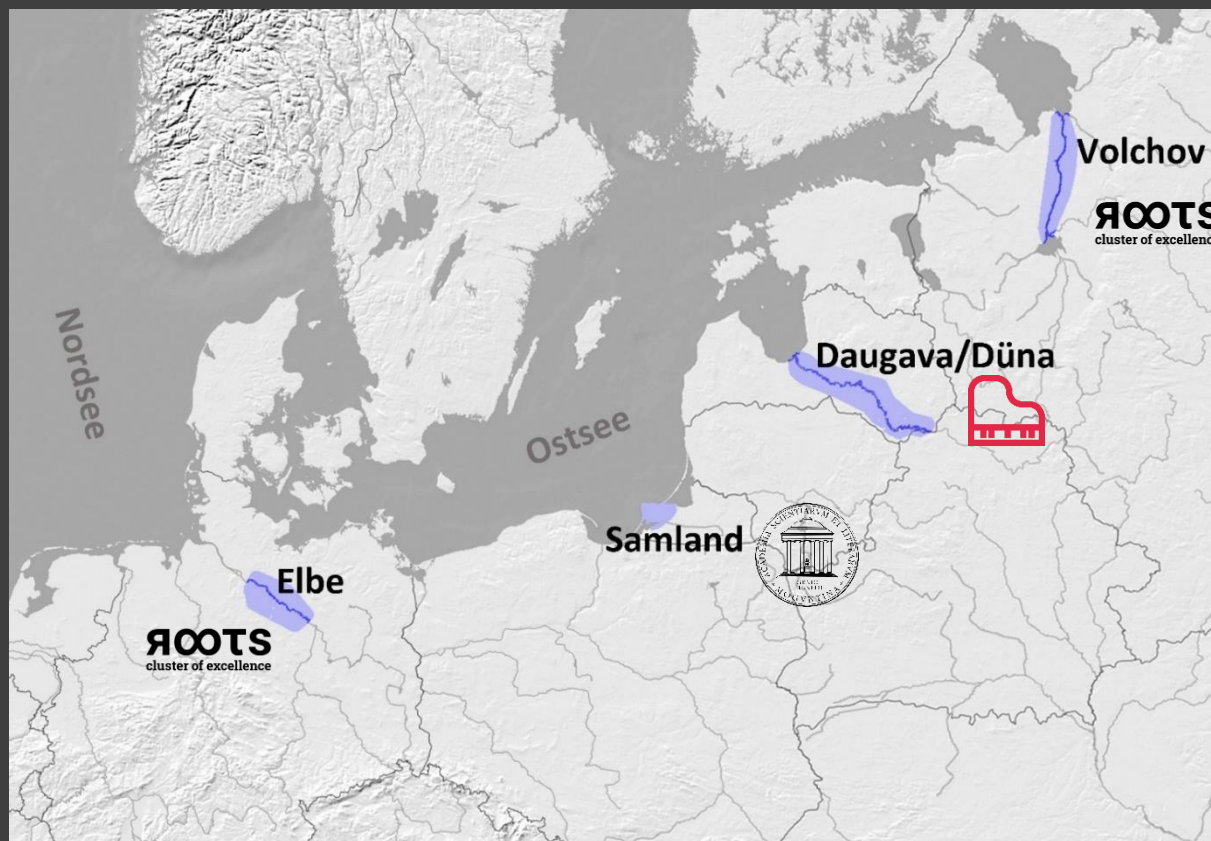
~ 2000 hillforts in the Baltic region!



- one of the most important traffic arteries in the Baltic region
- about 30 hillforts give evidence of the use and control of this waterway
- research focus on the whole system, by combining palaeoenvironmental, archaeological and linguistic studies

Hillfort research at the Centre for Baltic and Scandinavian Archaeology

Hillforts – silent witnesses of the past



The Daugava was chosen as a comparative waterway area to the Volkhov region. It fits well in the core working areas of ZBSA hillfort research in the Baltic sea area.

main research questions

- A. chronology
- B. function
- C. maintainance
- D. demography
- E. conflict potential

Fortifications along the waterway not as single spots, but as a system

project team

Poland

Piotr Kittel (project leader PL)
geoarchaeology
Jerzy Sikora, Artur Ginter
archaeology, GIS
Łukasz Musiaka
historical geography
Edyta Kalińska, Jacek Szmańda
geomorphology

Germany / Latvia

Jens Schneeweiß (project leader GER),
Vanda Visocka
archaeology
Ilja Seržants (Co-PI), Aigars Kalnins
historical linguistics
Timo Ibsen (Co-PI), Leonid Vyazov
archaeology, GIS

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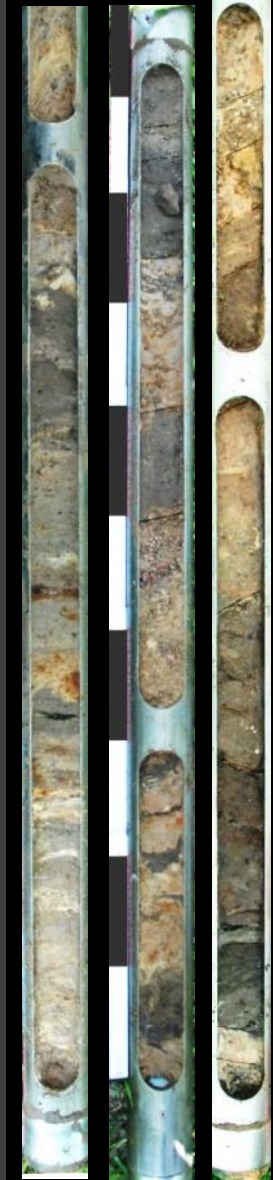
methodology

- Compilation of data
- combination of palaeoenvironmental, archaeological and linguistic studies
- joint application of non- and minimal invasive techniques:
 - geophysical surveys
 - drillings and test pits
 - ^{14}C - and dendrochronological datings
 - linguistic and toponomastic investigation

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Field methods

Drilling:
the „Speed-Dating“ method



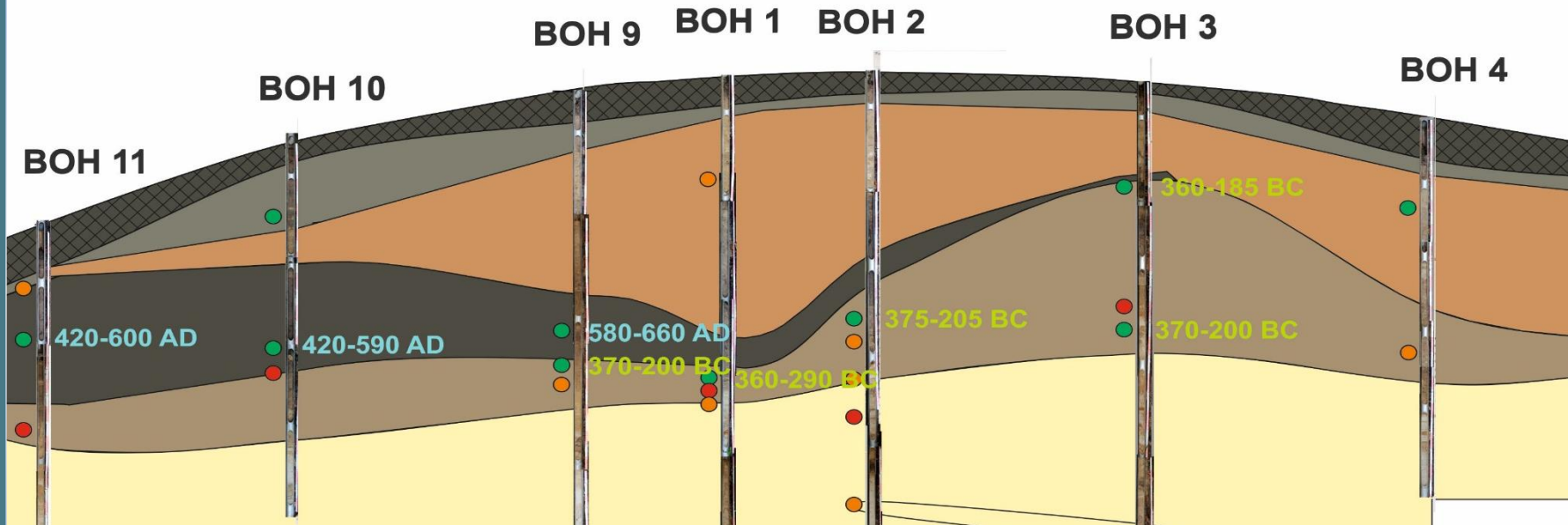
- extraction of charcoal from drillings
- identification of wood type
- ^{14}C -dating of ~20 samples per hillfort

-> chronological development

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Field methods

„Speed-Dating“



OxCal v4.2.4 Bronk Ramsey (2013); r.5 IntCal13 atmospheric curve (Reimer et al 2013)

KIA-51257 Kringitten BOH11 Probe 2 (1543,36)
 KIA-51256 Kringitten BOH10 Probe 2 (1540,28)
 KIA-51254 Kringitten BOH9 Probe 2 (2214,33)
 KIA-51253 Kringitten BOH9 Probe 1 (1420,28)
 KIA-51252 Kringitten BOH3 Probe 3 (2217,26)
 KIA-51251 Kringitten BOH3 Probe 1 (2191,24)
 KIA-51250 Kringitten BOH2 Probe 1 (2223,19)
 KIA-51249 Kringitten BOH1 Probe 2 (2189,19)

1500

1000

500

1calBC/1calAD

501

1001

Calibrated date (calBC/calAD)

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Field methods

small scale excavation
and test pits



Ritvars Ritums at the foot of hillfort Grobina in Latvia in 2012

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Field methods

reconstruction of palaeoenvironment



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aims/results

- GIS-based „Atlas of hillforts along the Daugava“ (printed and digital version [open access]) with reconstruction of landscape and hillforts along the river
- publication of linguistic data base
- analytical comparison with other fortified systems along rivers (Volkhov, Neman/Memel...)

➔ **Started in April 2022!**

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Kick-off excursion in April 2022: 30 hillforts in 5 days



aims: 1. exploring state of preservation, 2. evaluation of research potential



First field campaign in June/July 2022 at Dzenes Kalns, Ļūbasta and Zamečkas sites