

Borsod Region Bronze Age Settlement



BORBAS 2012-2022

Celebrating 10 Years of Collaborative Research on Bronze Age Tells

Celebrating 10 Years of Collaborative Research on Bronze Age Tells

The BORBAS project was established in 2012 and is carried out in close cooperation with the Department of Prehistory and Archaeology, University of Miskolc, the Department of Prehistoric Archaeology, University of Cologne, and the Herman Ottó Museum at Miskolc.

BORBAS focuses on the multi-layer settlement mounds of the Hatvan and Füzesabony periods along the foothills of the Bükk mountains and on the adjacent lowlands of the Borsod plain.

Instead of applying covering models to Bronze Age tell communities throughout the Carpathian Basin and subsuming variability under abstract notions of 'social evolution' or 'political economy', BORBAS seeks to contribute to a more nuanced understanding of tell-living and the different regional traditions of tell communities by turning back to the evidence and allowing for variability in local manifestations and trajectories.

With this presentation – for all those interested, and in particular our past and present collaborators and students – we want to commemorate and celebrate the 10 years continuity of our project.

Acknowledgements

Over the past decade BORBAS has received the kind support of numerous institutions and individuals for which we are much obliged.



The continuous financial, administrative and logistical support of our respective institutions, the University of Miskolc, the University of Cologne, and the Herman Ottó Museum at Miskolc is gratefully acknowledged.

Acknowledgements

Special thanks go to all our colleagues and students from Miskolc, Cologne and other universities who participated in BORBAS' research during the past decade.

You know who you are, and we owe many enjoyable months of fieldwork and lively discussions accompanied by the occasional bottle of pálinka!



Acknowledgements

In 2019 the BORBAS project entered into cooperation with ArchaeoConnect, Tübingen, whose support during our fieldwork seasons and beyond is greatly appreciated!



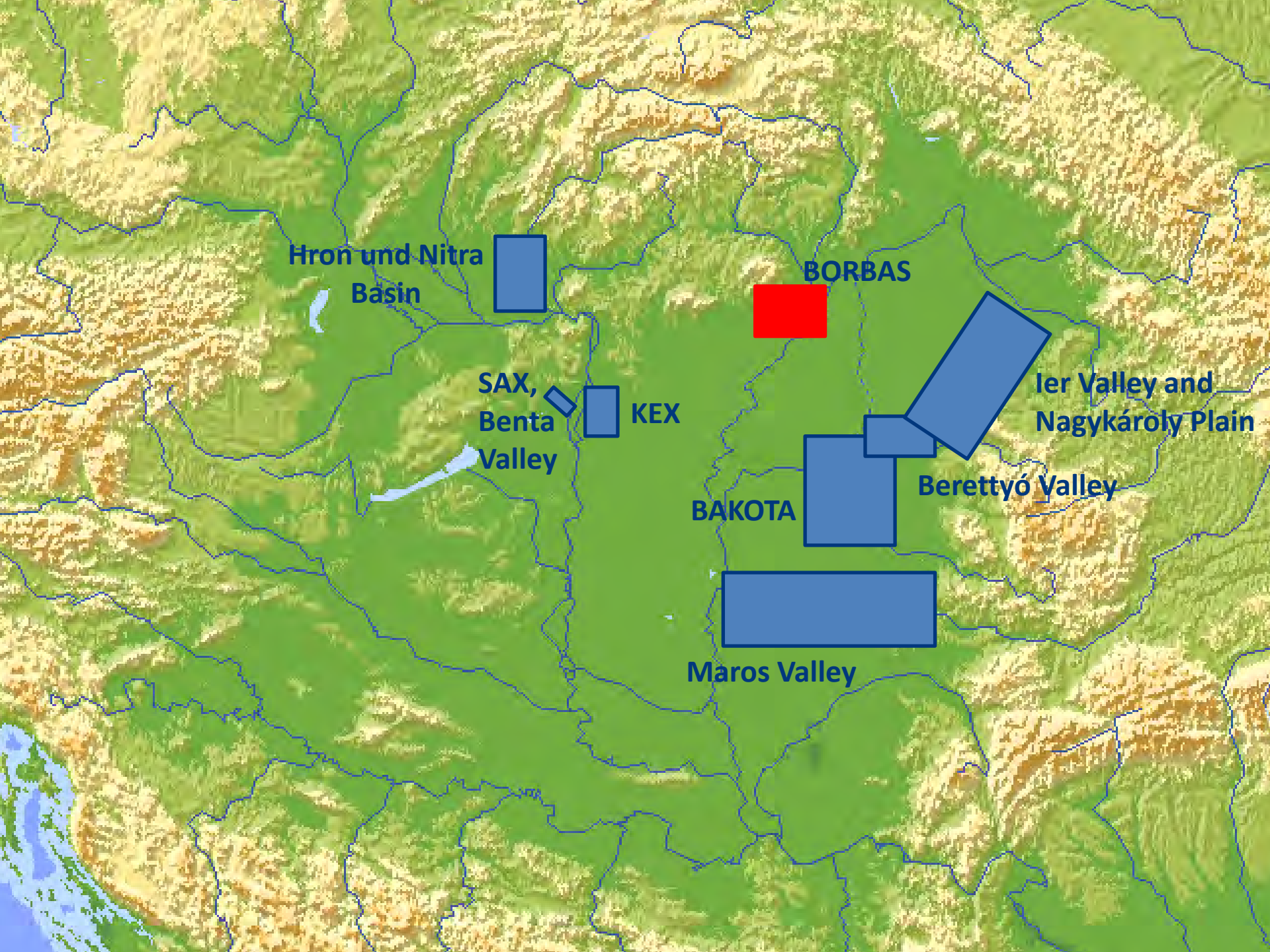
And last but certainly not least ...

We are glad to announce that the future work of BORBAS and the continuity of our project will be most generously supported by:



FOUNDATION FOR
THE **STUDY** AND **PRESERVATION** OF **TELLS**
IN THE PREHISTORIC OLD WORLD





Hron und Nitra
Basin

SAX,
Benta
Valley

KEX

BORBAS

BAKOTA

Maros Valley

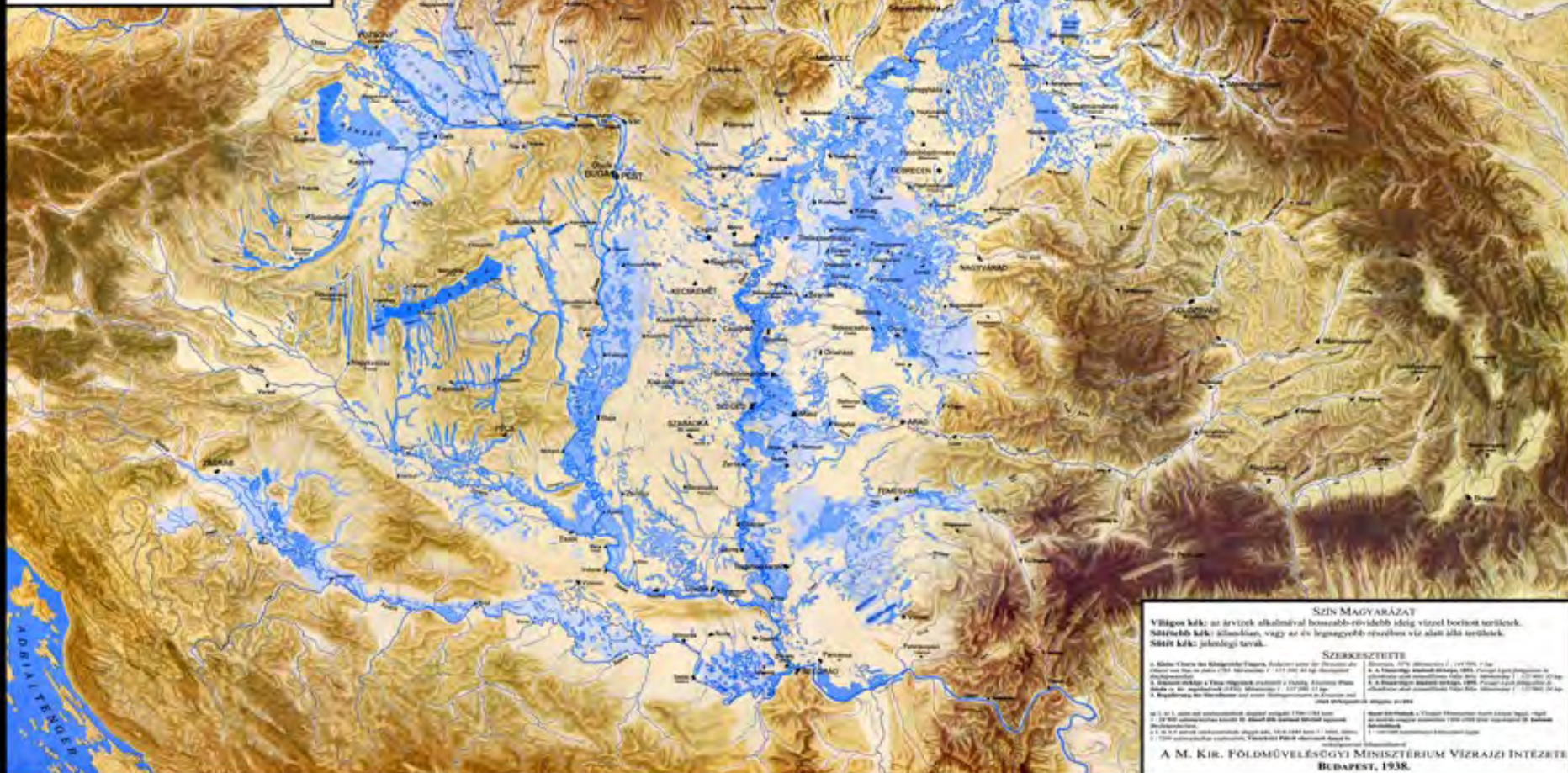
Berettyó Valley

Ier Valley and
Nagykároly Plain

A KÁRPÁT MEDENCE

vízborította és árvízjárta terület,
az ármentesítő és lecsapoló munkálatok
megkezdése előtt.

Méretarány: 1 : 600'000



SZÍN MAGYARÁZAT

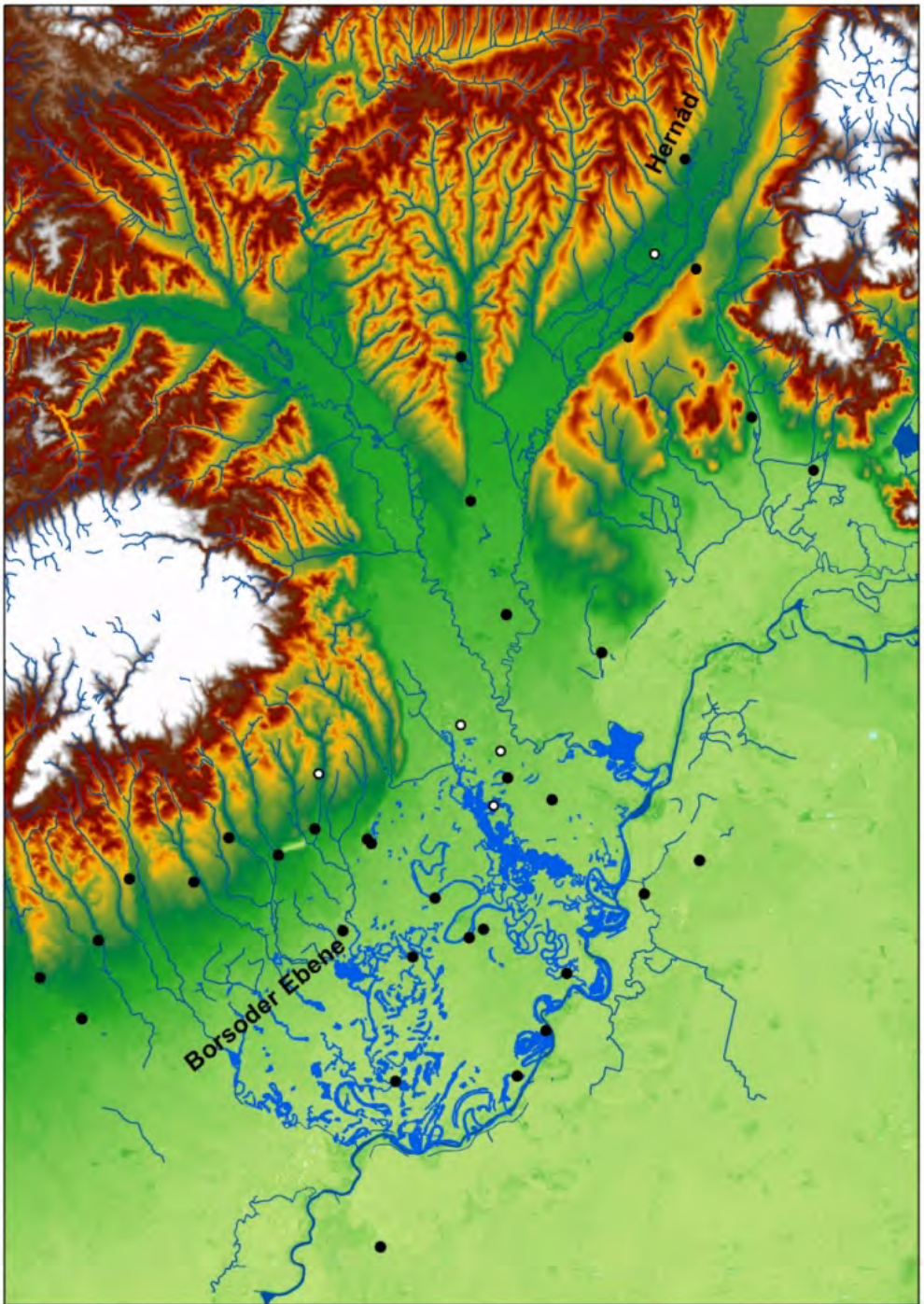
Világos kék: az árvízek alkalmával hosszabb-rövidebb ideig vízzel borított terület.
Sötétebb kék: állandóan, vagy az év legnagyobb részében víz alatt álló területek.
Sötét kék: jelölési tervek.

SZÉKESKÉZTETÉS

A. Károlyi Gyula és Károlyi Gyula, Budapest, 1938. évi kiadás.
B. Károlyi Gyula és Károlyi Gyula, Budapest, 1938. évi kiadás.
C. Károlyi Gyula és Károlyi Gyula, Budapest, 1938. évi kiadás.
D. Károlyi Gyula és Károlyi Gyula, Budapest, 1938. évi kiadás.

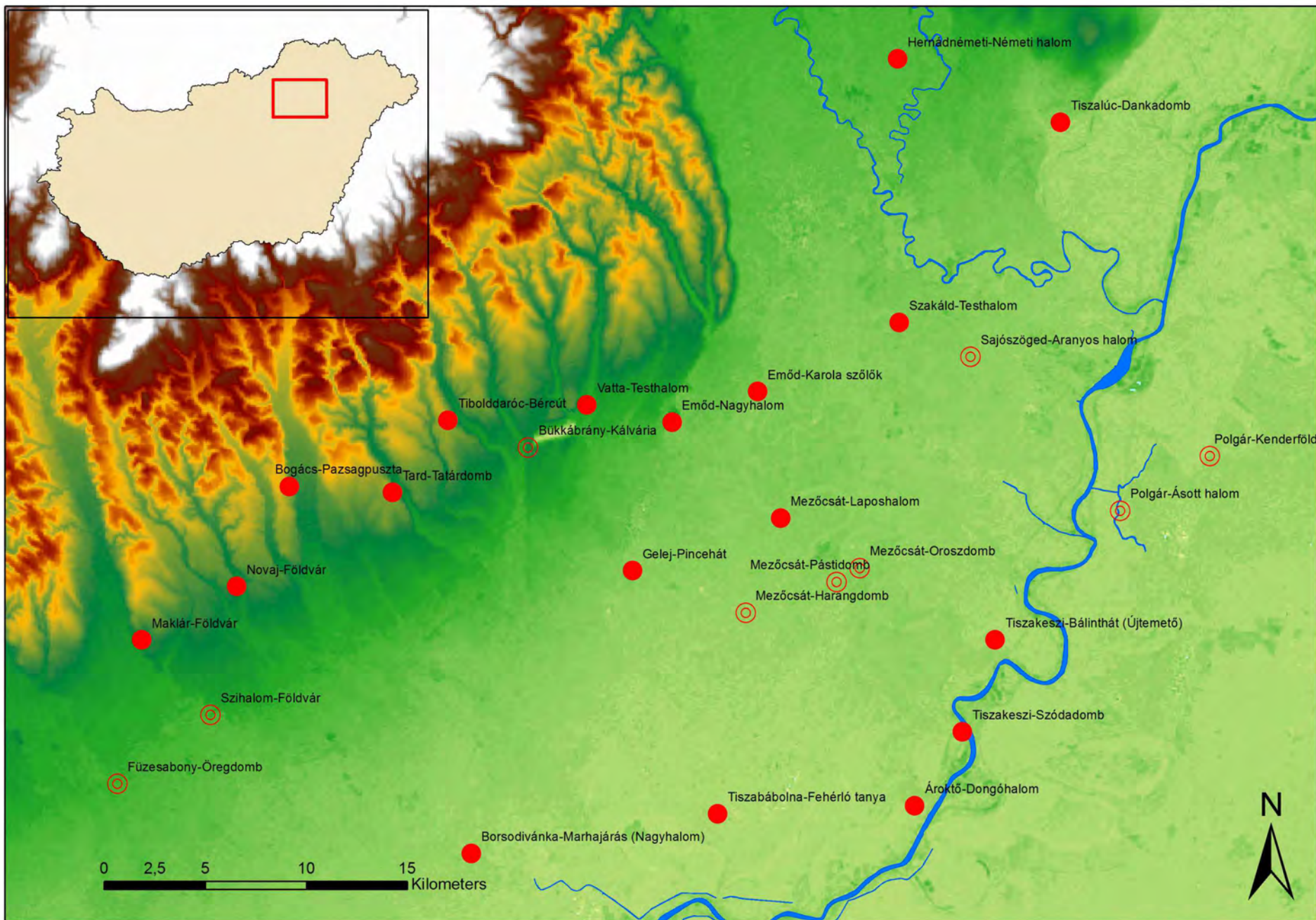
A. Károlyi Gyula és Károlyi Gyula, Budapest, 1938. évi kiadás.
B. Károlyi Gyula és Károlyi Gyula, Budapest, 1938. évi kiadás.
C. Károlyi Gyula és Károlyi Gyula, Budapest, 1938. évi kiadás.
D. Károlyi Gyula és Károlyi Gyula, Budapest, 1938. évi kiadás.

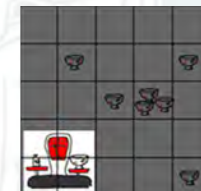
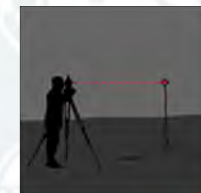
A. M. KIR. FÖLDMŰVELÉSI MINISZTERIUM VÍZRAJZI INTÉZETE
BUDAPEST, 1938.



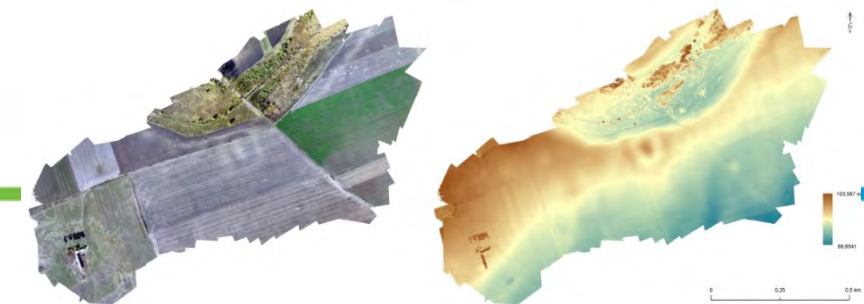
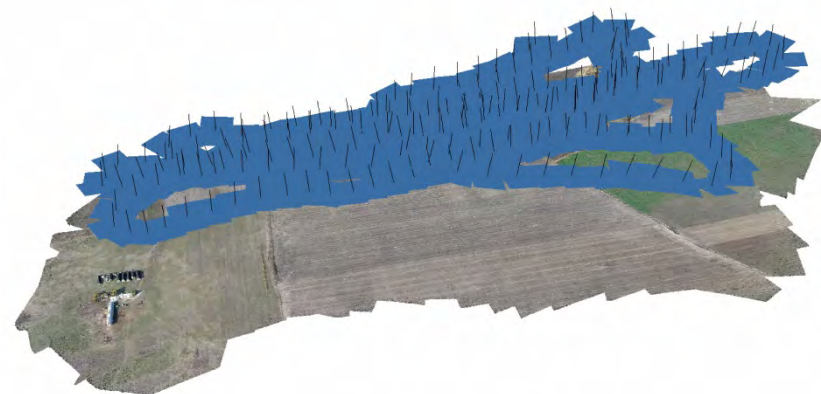
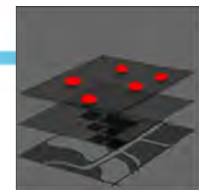
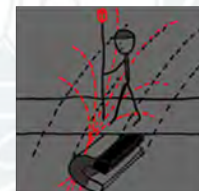
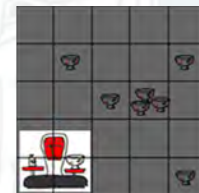
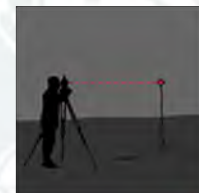
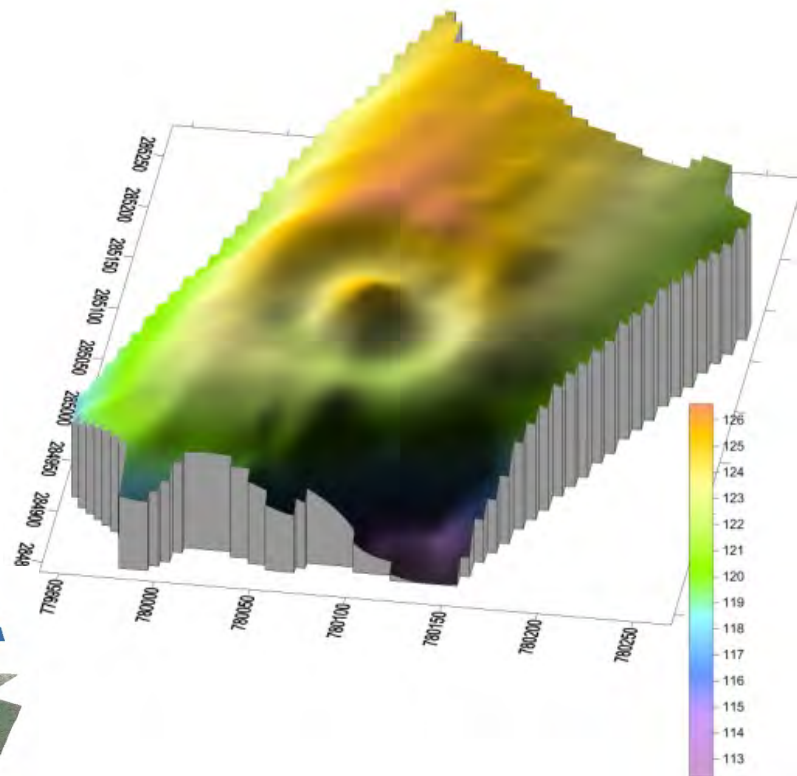
◀ Distribution map of the Hatvan and Füzesabony period settlements on the Borsod plain and in the foothill zone of the Bükk mountains.

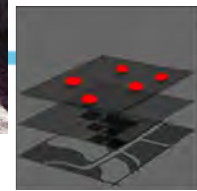
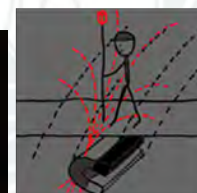
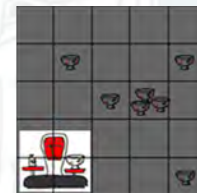
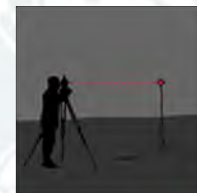






BORBAS: Methods





BORBAS: Methods

UNIVERSITÄTSFORSCHUNGEN ZUR PRÄHISTORISCHEN ARCHÄOLOGIE

Aus dem Institut für Ur- und Frühgeschichte der Universität zu Köln

Band 317

Borsod Region Bronze Age Settlement (BORBAS)

Catalogue of the Early to Middle Bronze Age
Tell Sites Covered by Magnetometry and
Surface Survey

von

Tobias L. Kienlin
Klára P. Fischl
Tamás Pusztai

2018

VERLAG DR. RUDOLF HABELT GMBH, BONN

- Verification of sites according to Kalicz (1968) 👍
- GIS 👍
- aerial photography 👍
- DEM 👍
- systematic surface survey (👍)
- Magnetometer Survey 👍
- environmental reconstruction (pollen, macro remains)
- core drilling
- excavation(s): Tell / outer settlement (started: Borsodivanka)



Magnetometer Survey

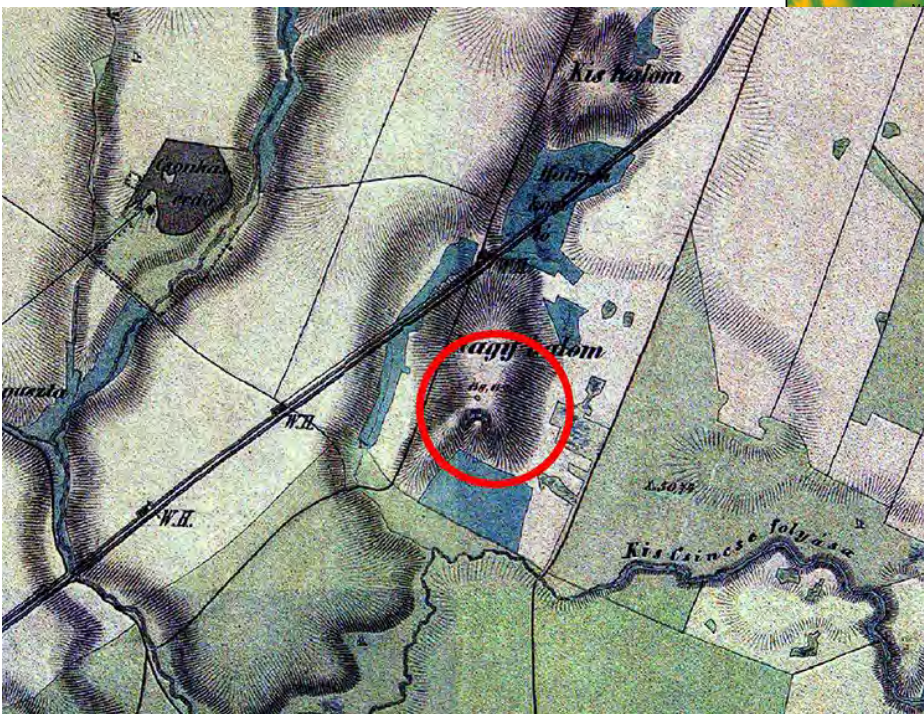
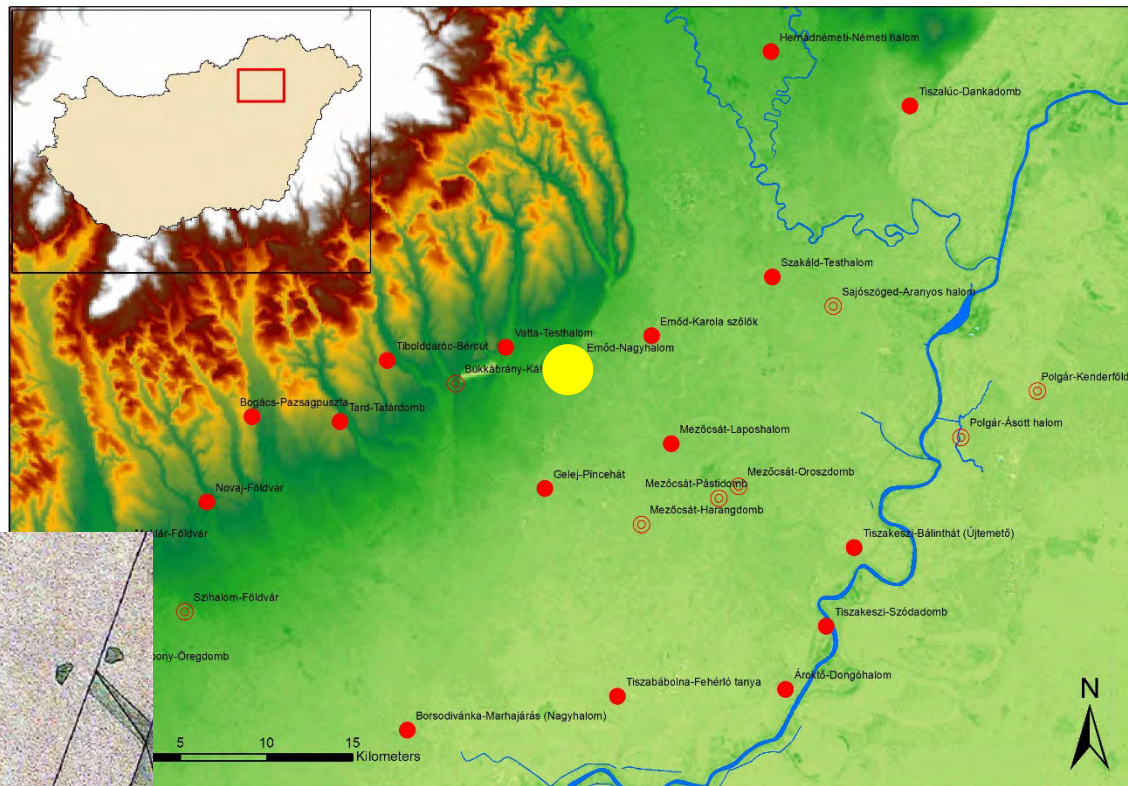
- ▶ Emőd-Nagyhalom
- ▶ Mezőcsát-Laposhalom
- ▶ Tard-Tatárdomb

Surface Survey

- ▶ Emőd-Nagyhalom
- ▶ Mezőcsát-Laposhalom
- ▶ Tard-Tatárdomb

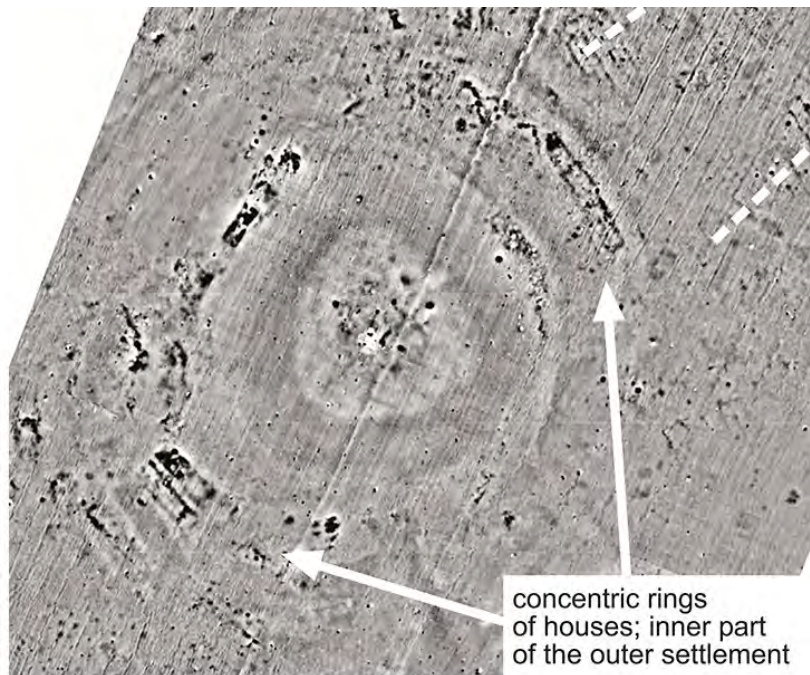


► Emőd-Nagyhalom





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0 m 100 m

▲ Emőd-Nagyhalom. Magnetometer data of the tell-like central part of the site and part of the outer settlement.

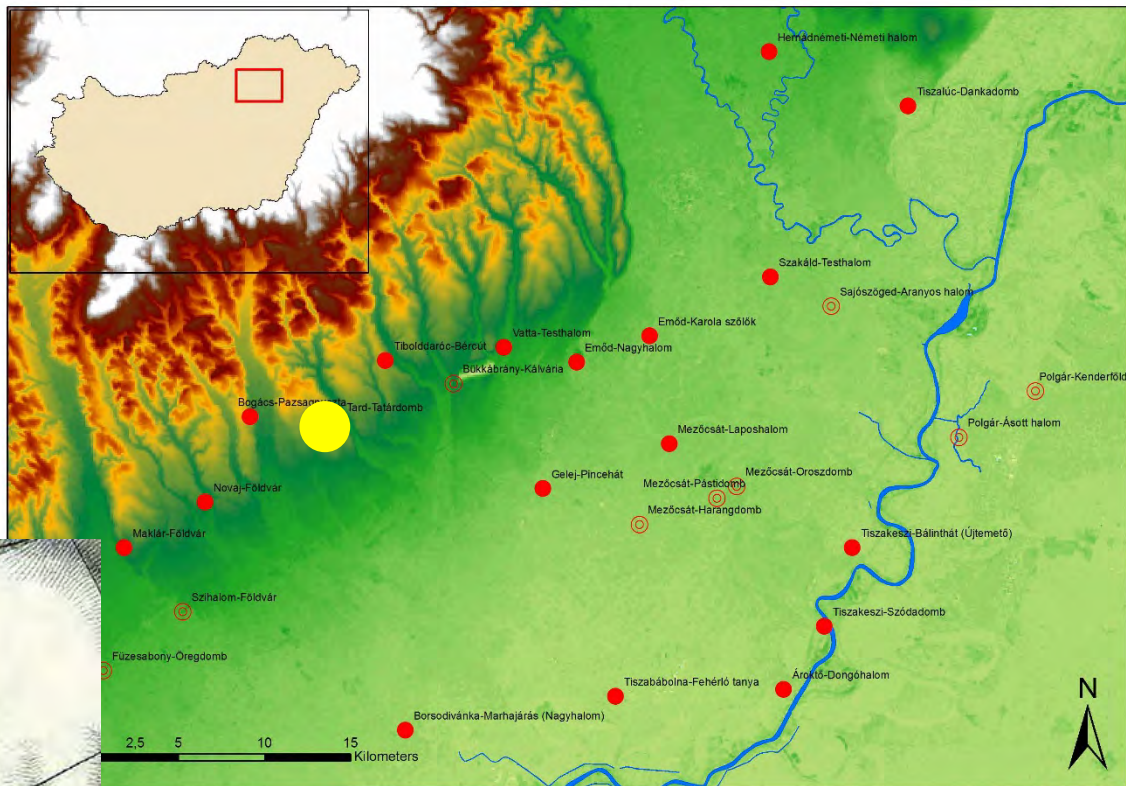
BORBAS 2012





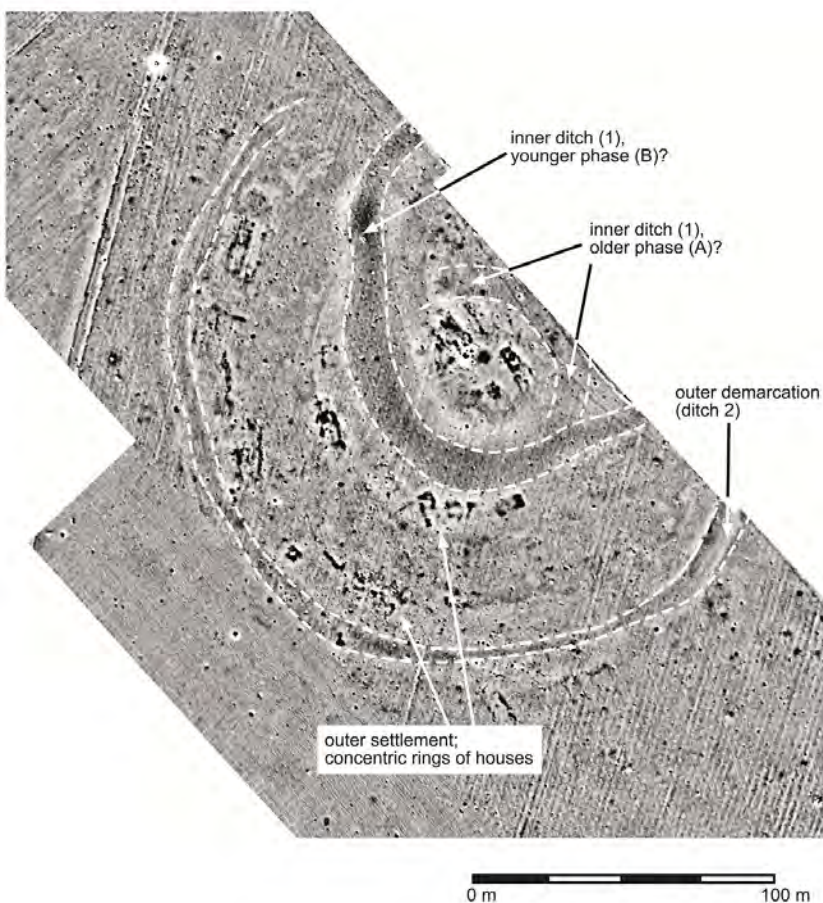
BORBAS 2012

► Tard-Tatárdomb





BORBAS 2012



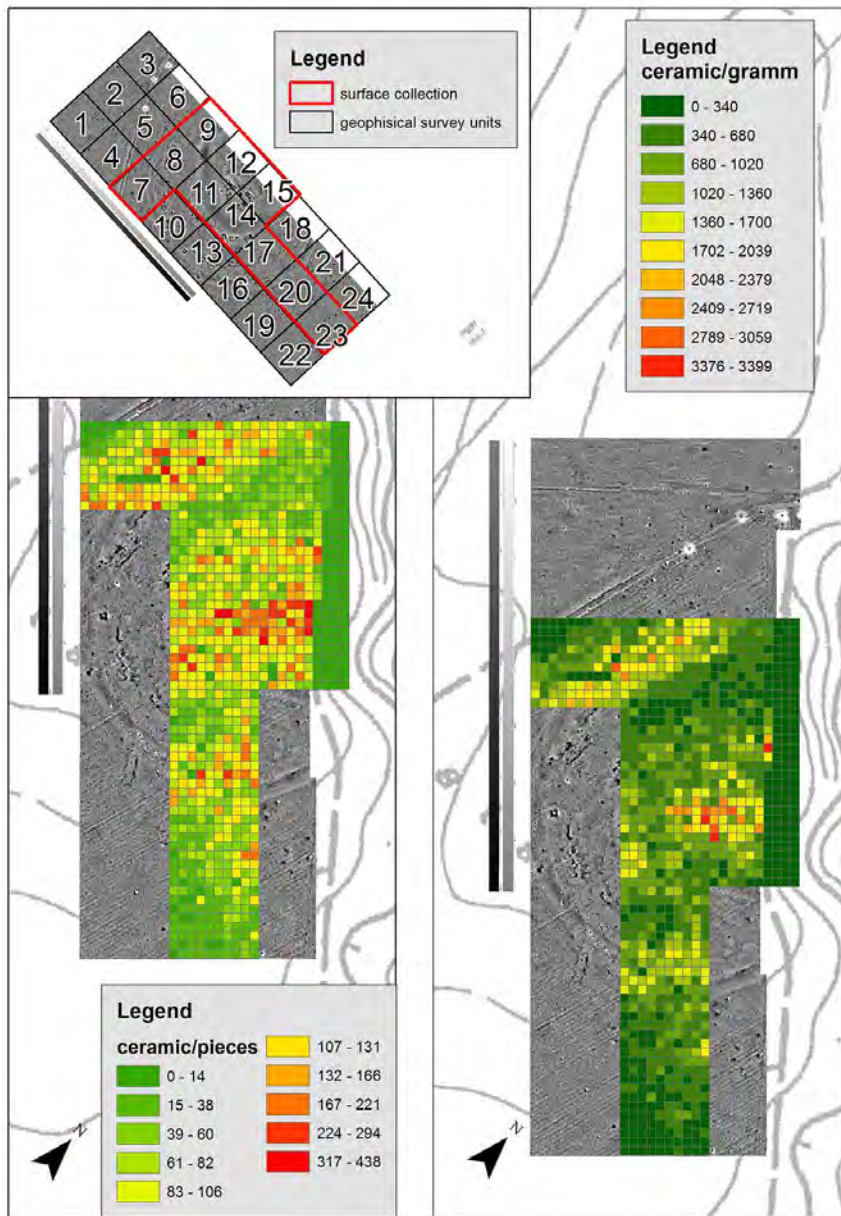
▲ Tard-Tatárdomb. Interpretation of the magnetometer data showing the two-phase inner ditch enclosing the central tell-like part of the site.

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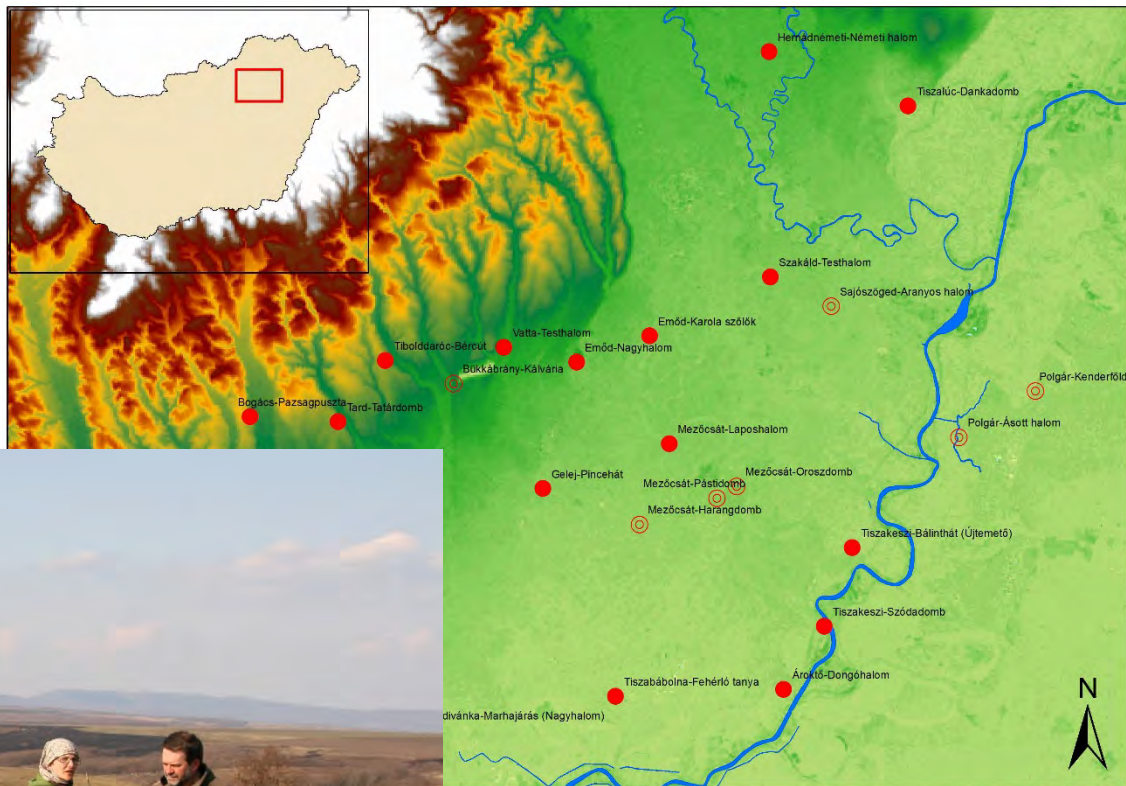


◀ Tard-Tatárdomb. Results of the surface survey in 2012.



BORBAS 2012

► Social Life on BORBAS Tells





BORBAS 2012



▲ The first visit to Emőd-Karola szőlők.



▲ The first visit to Hernádnémeti-Németihalom.



▲ ► A visit to Ároktő-
Dongóhalom.



BORBAS 2012



▲ The previous surface survey at Ároktő-Dongóhalom in 2008.





BORBAS 2012

▲ At the Tisza near
Tiszakeszi-Szódadomb.



BORBAS 2012

▲ Accomodation at Miskolc University campus



BORBAS 2012





Magnetometer Survey

- ▶ Emőd-Nagyhalom
- ▶ Mezőcsát-Laposhalom
- ▶ Tiszabábolna-Fehérló tanya
- ▶ Tiszakeszi-Szódadomb
- ▶ Vatta-Testhalom

Surface Survey

- ▶ Emőd-Nagyhalom
- ▶ Gelej-Pincehát (Pincehalom)
- ▶ Mezőcsát-Laposhalom
- ▶ Szakáld-Testhalom
- ▶ Tiszabábolna-Fehérló tanya
- ▶ Tiszakeszi-Szódadomb
- ▶ Vatta-Testhalom

Preliminary Core Drilling

- ▶ Mezőcsát-Laposhalom
- ▶ Tard-Tatárdomb

► Core drilling for a pollen profile close to Szakáld-Testhalom.





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▲► Core drilling for a pollen profile close to Tiszabábolna-Fehérlő tanya.

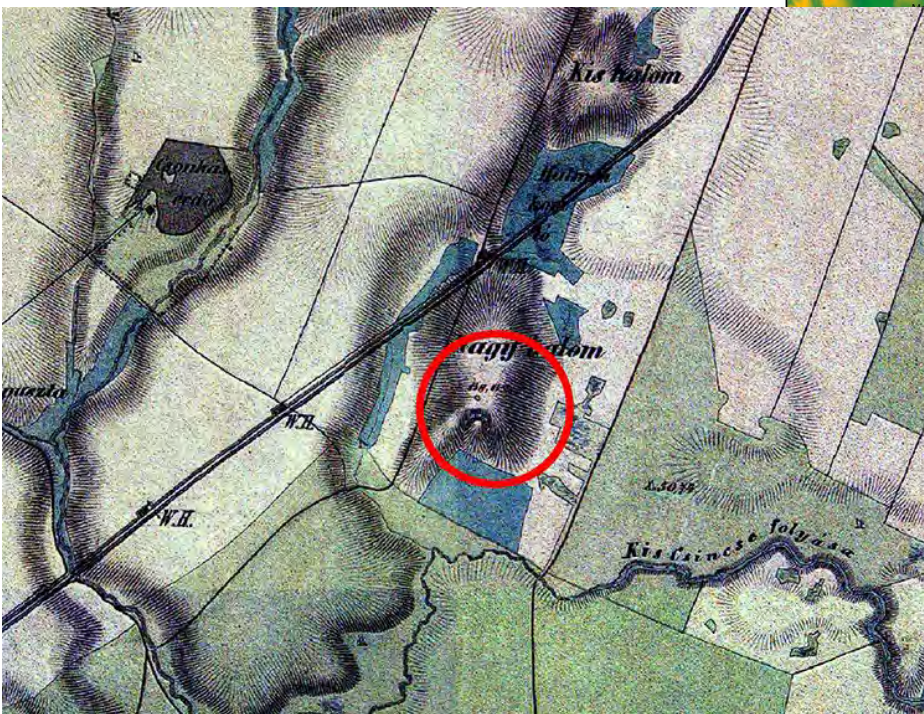
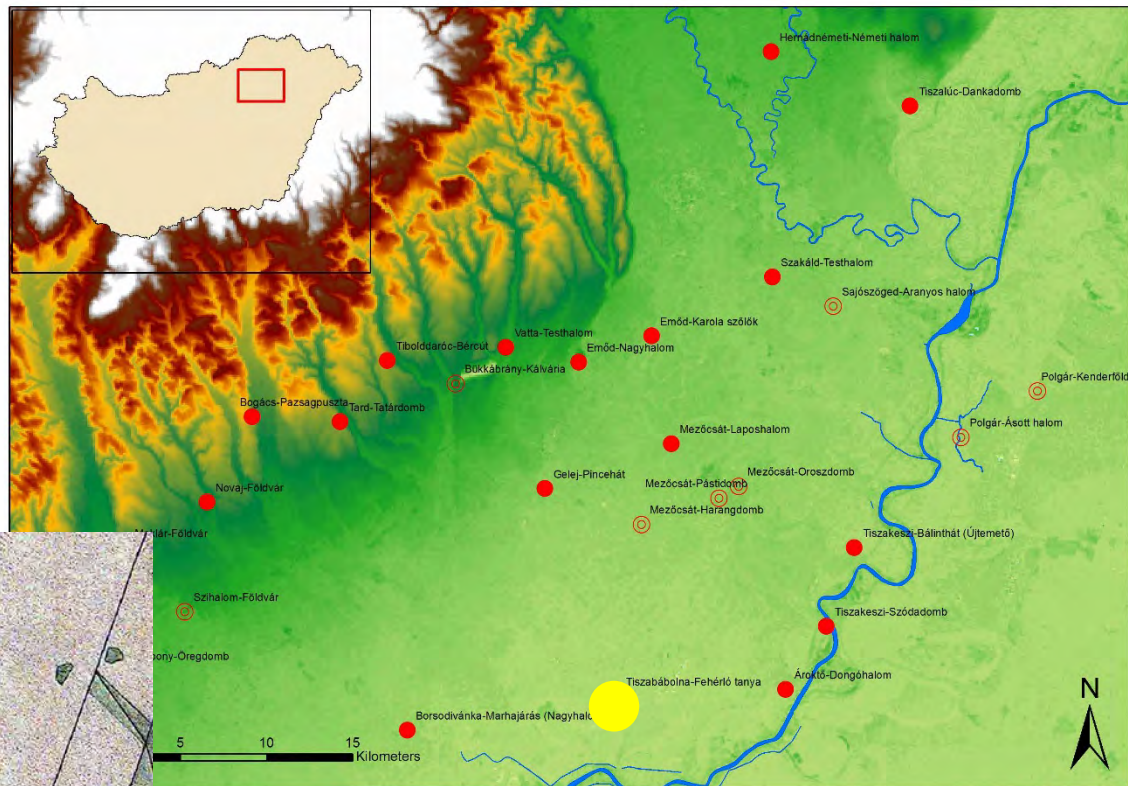


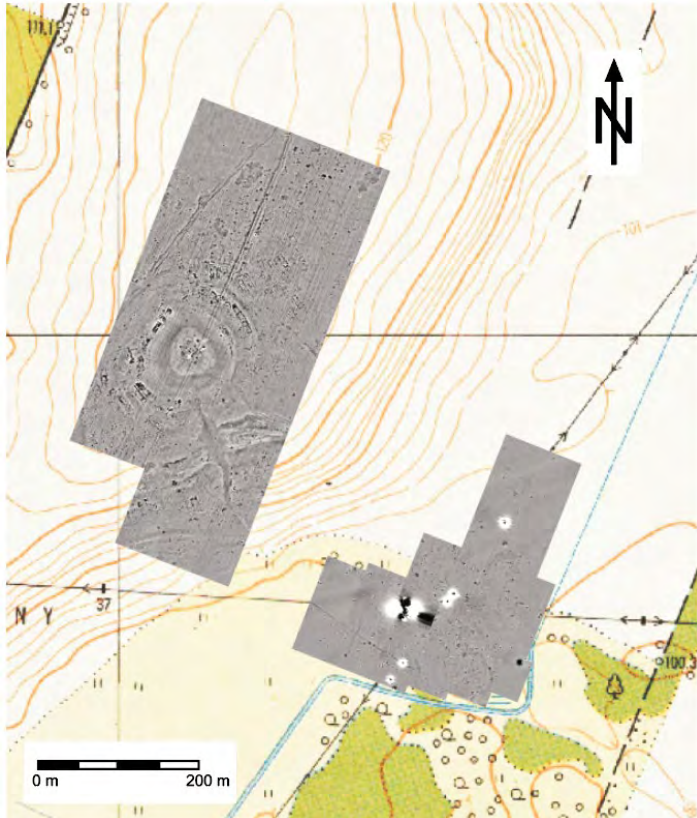
BORBAS 2013



BORBAS 2013

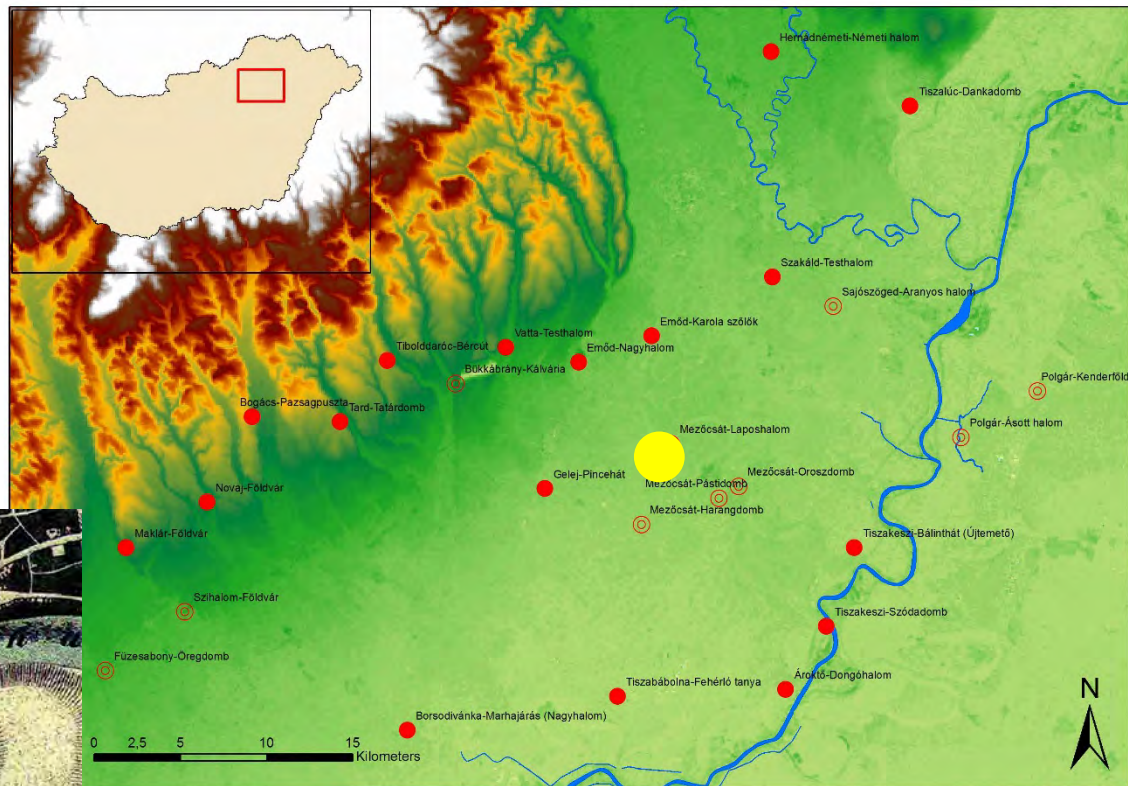
► Emőd-Nagyhalom



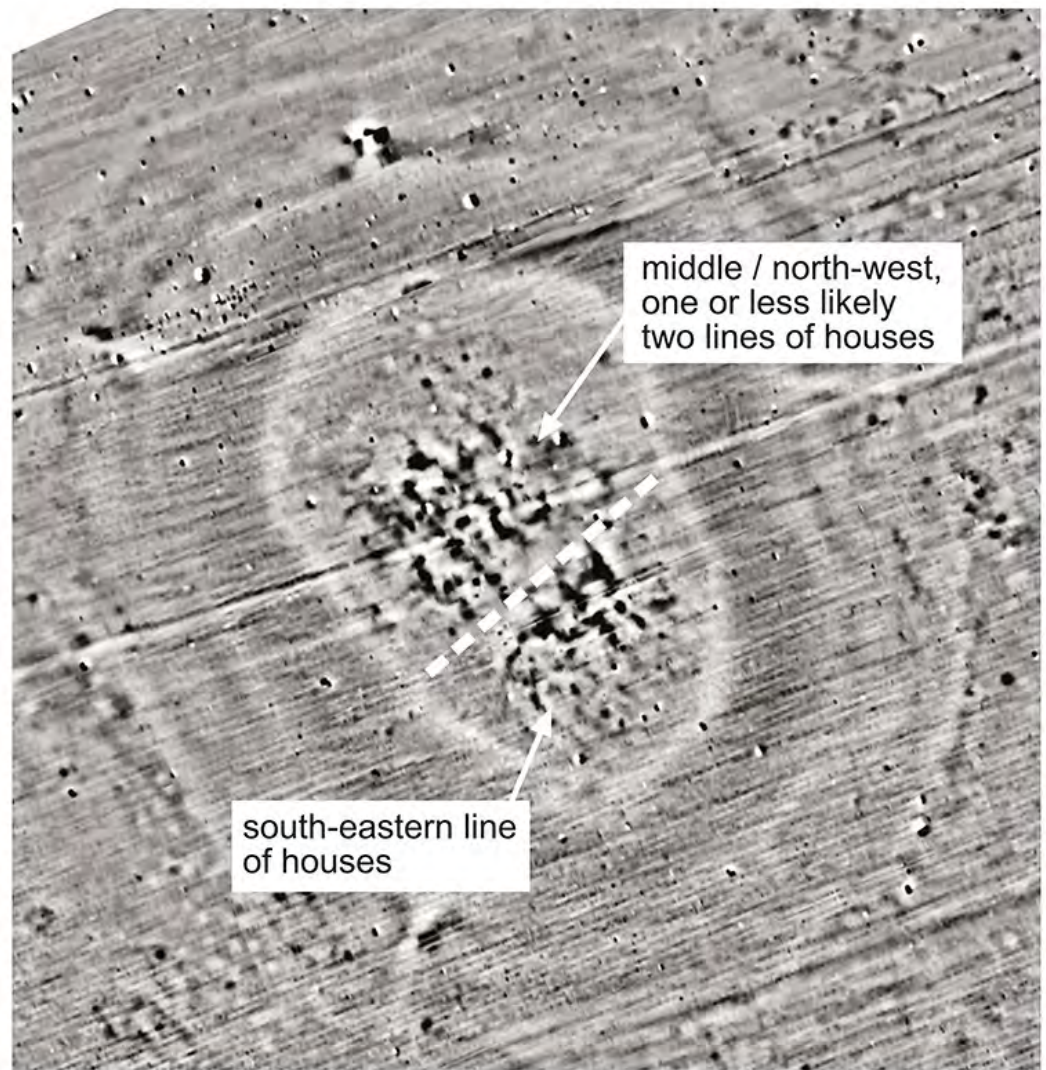


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► Mezőcsát-Laposhalom



► Mezőcsát-Laposhalom. Detail of the magnetometer data from the central part of the site illustrating the inferred layout of the settlement with various phases of two rows of houses.

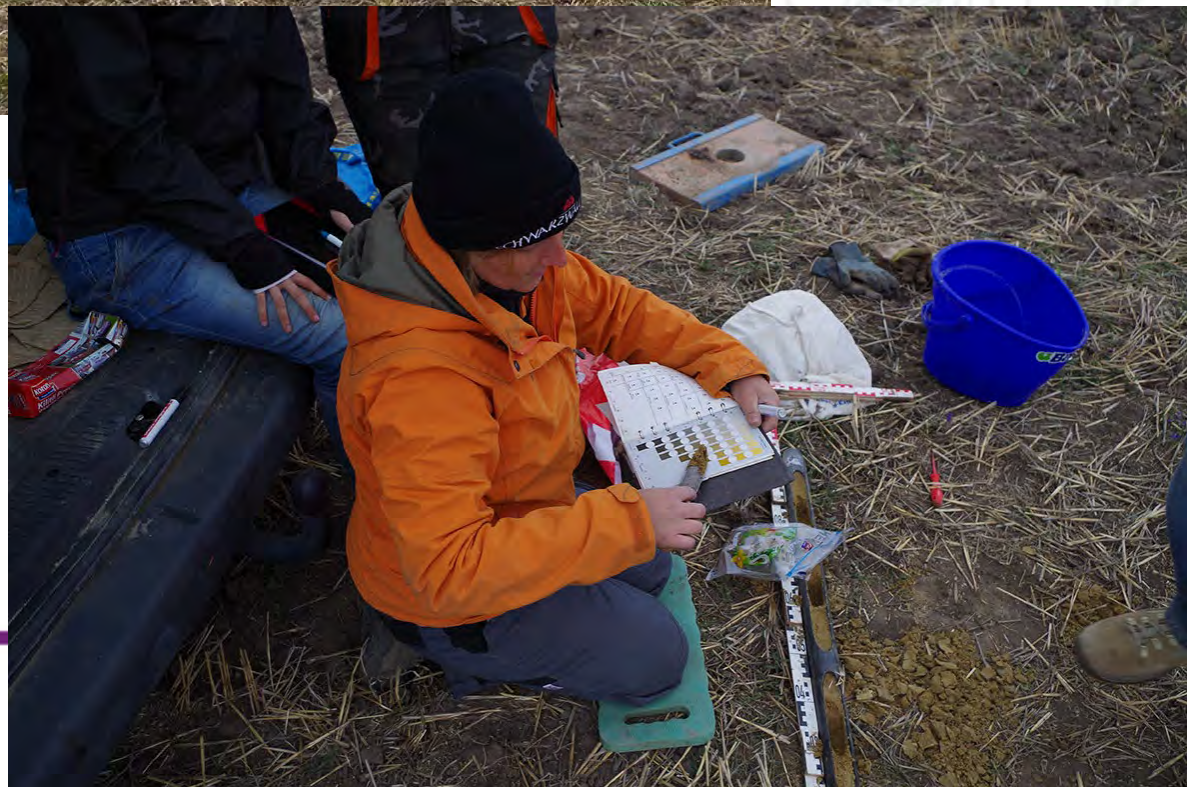


0 m 60 m





BORBAS 2013



BORBAS 2013

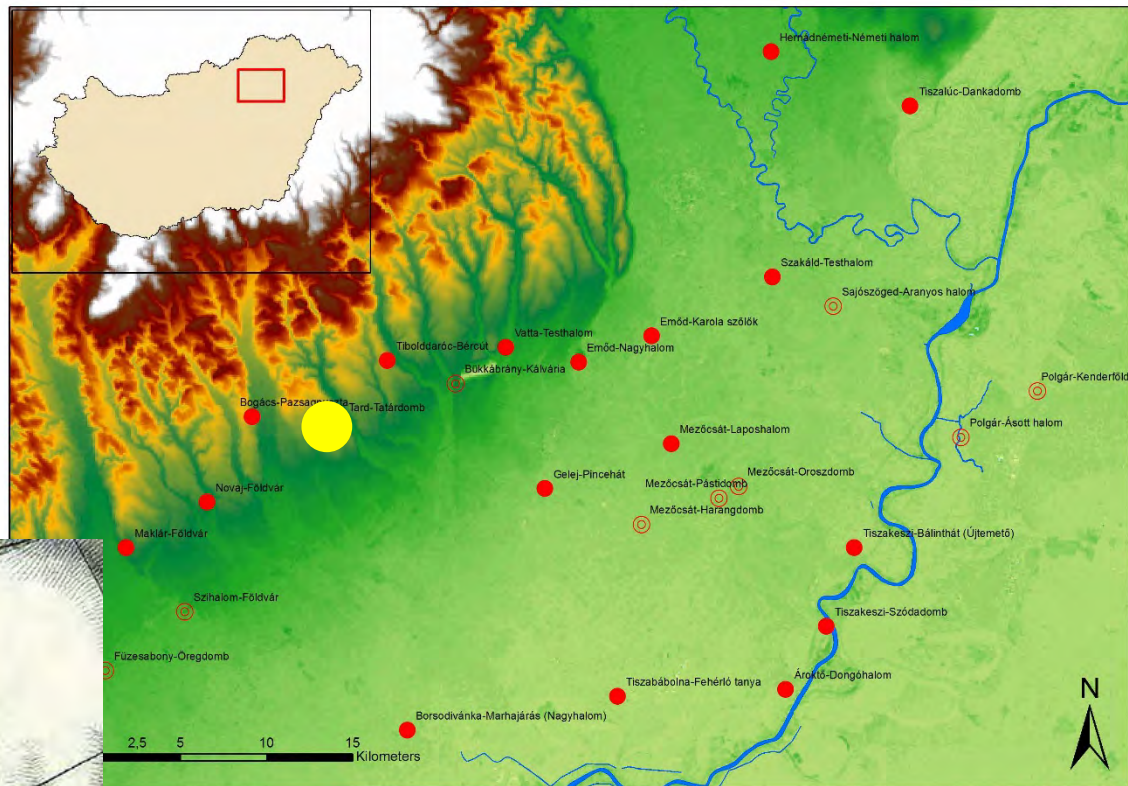
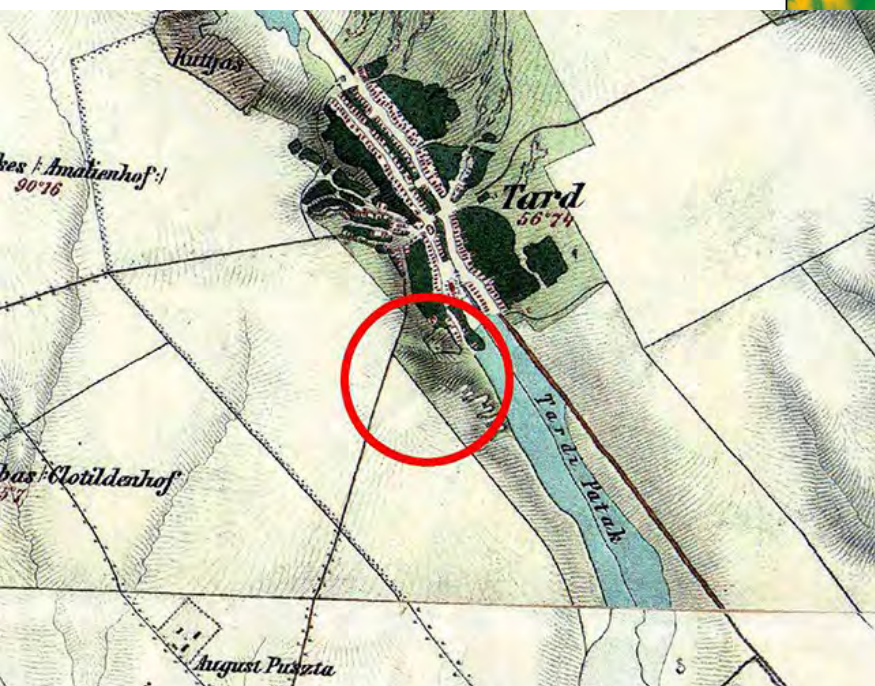


BORBAS 2013



BORBAS 2013

► Tard-Tatárdomb





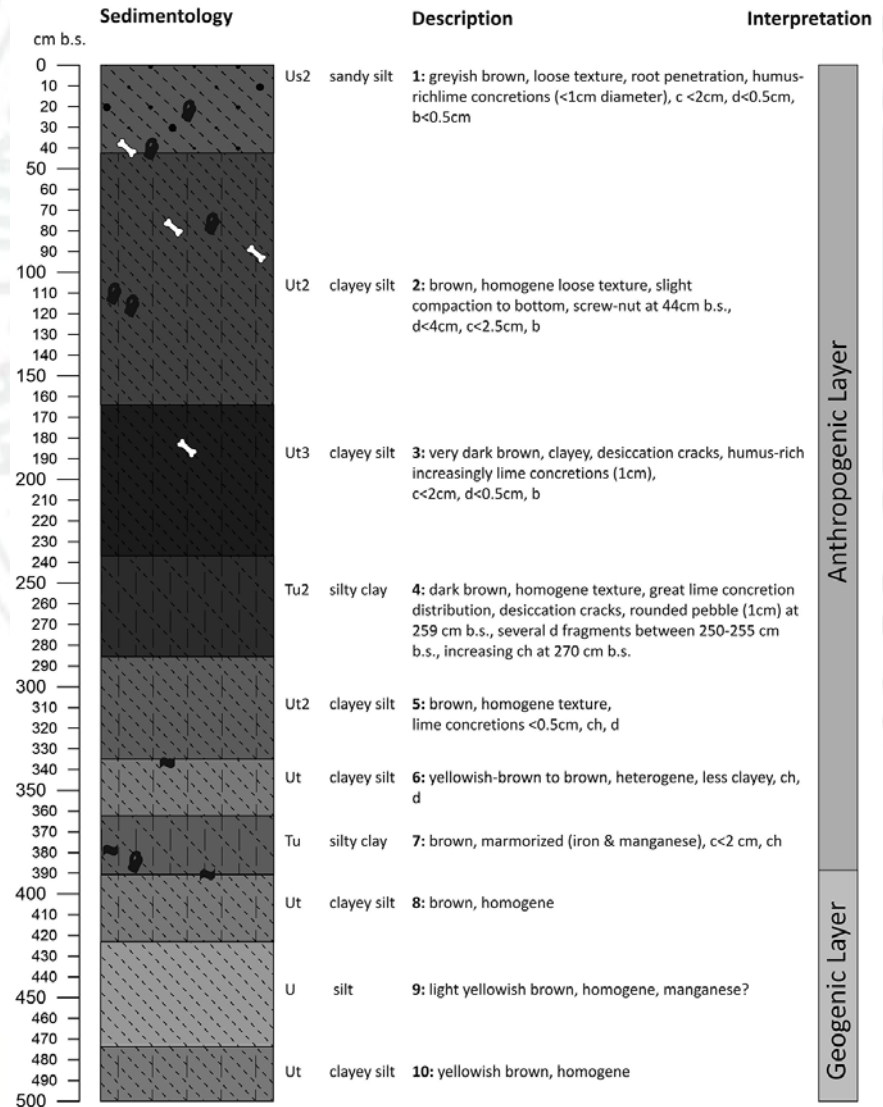
BORBAS 2013



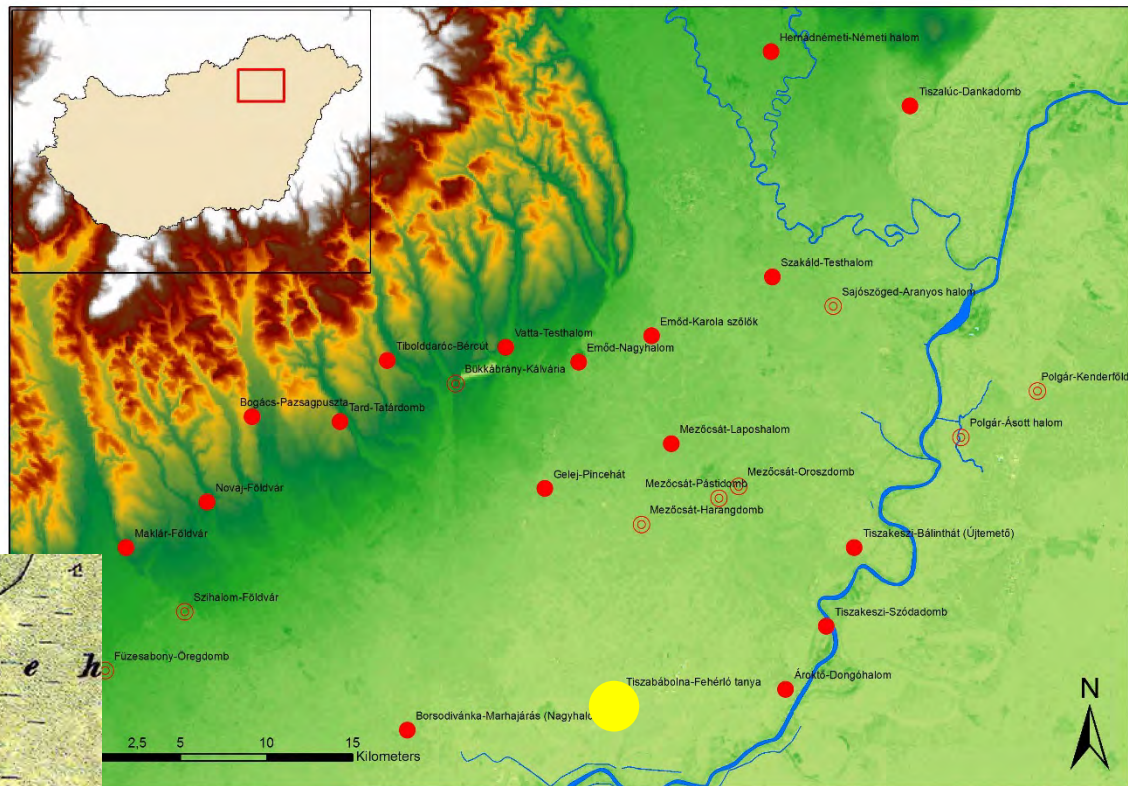
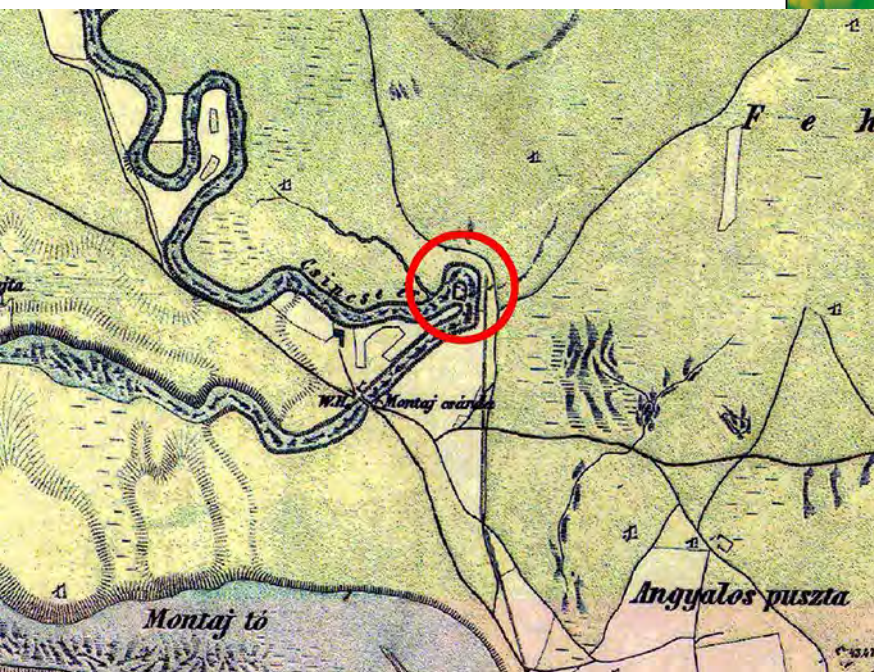
BORBAS 2013

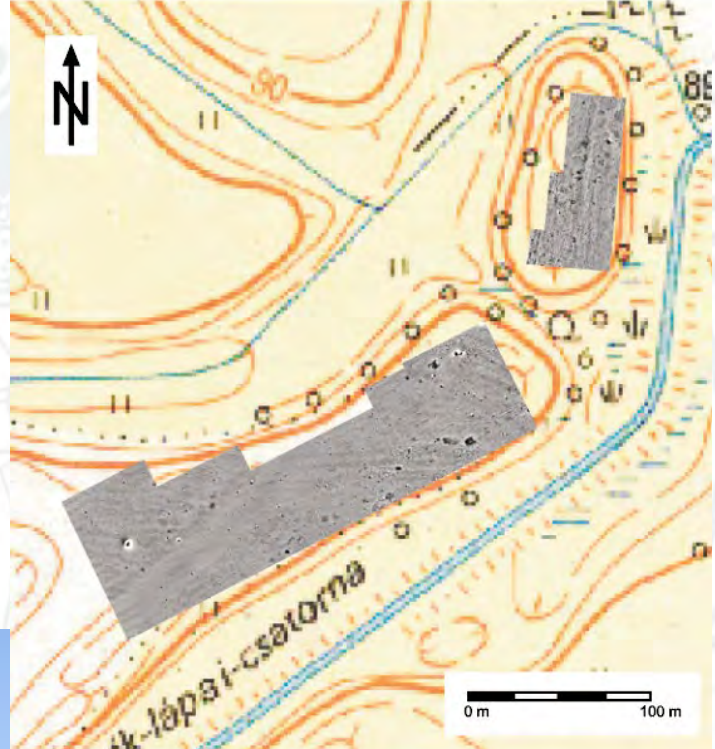


Core TAR 2 Layer Characterisation



► Tiszabábolna-Fehérló tanya

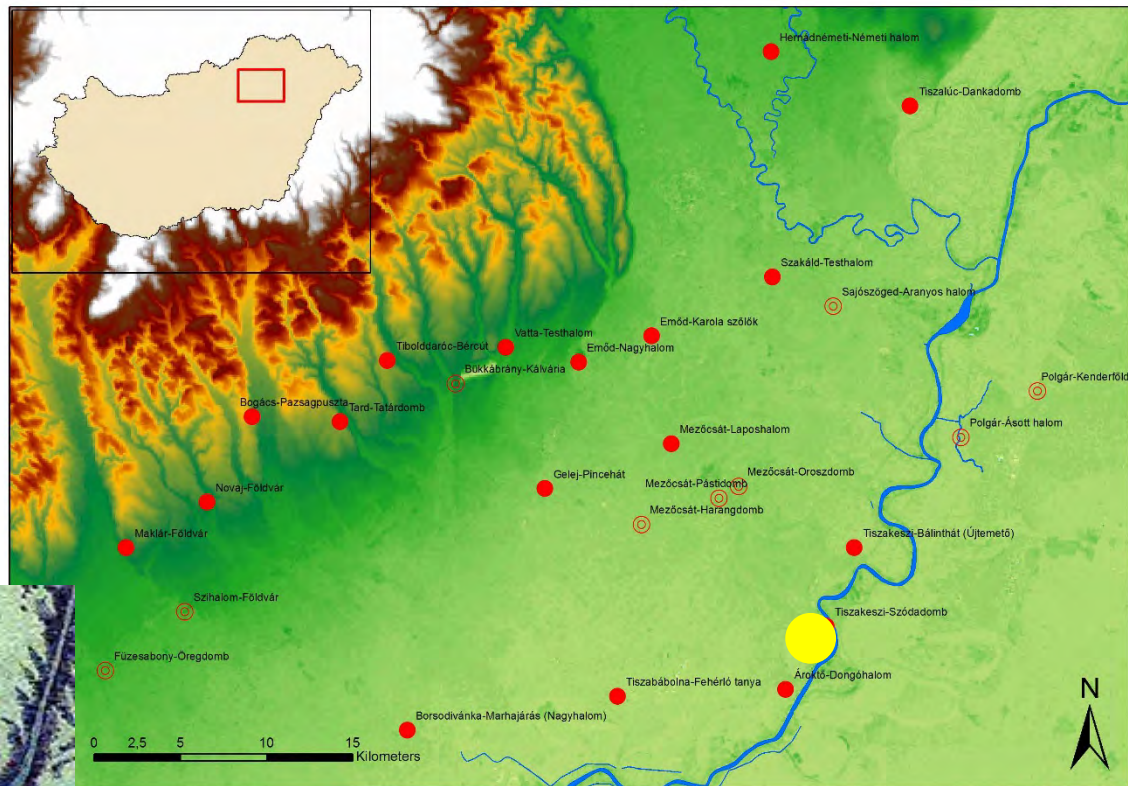






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► Tiszakeszi-Szódadomb





BORBAS 2013

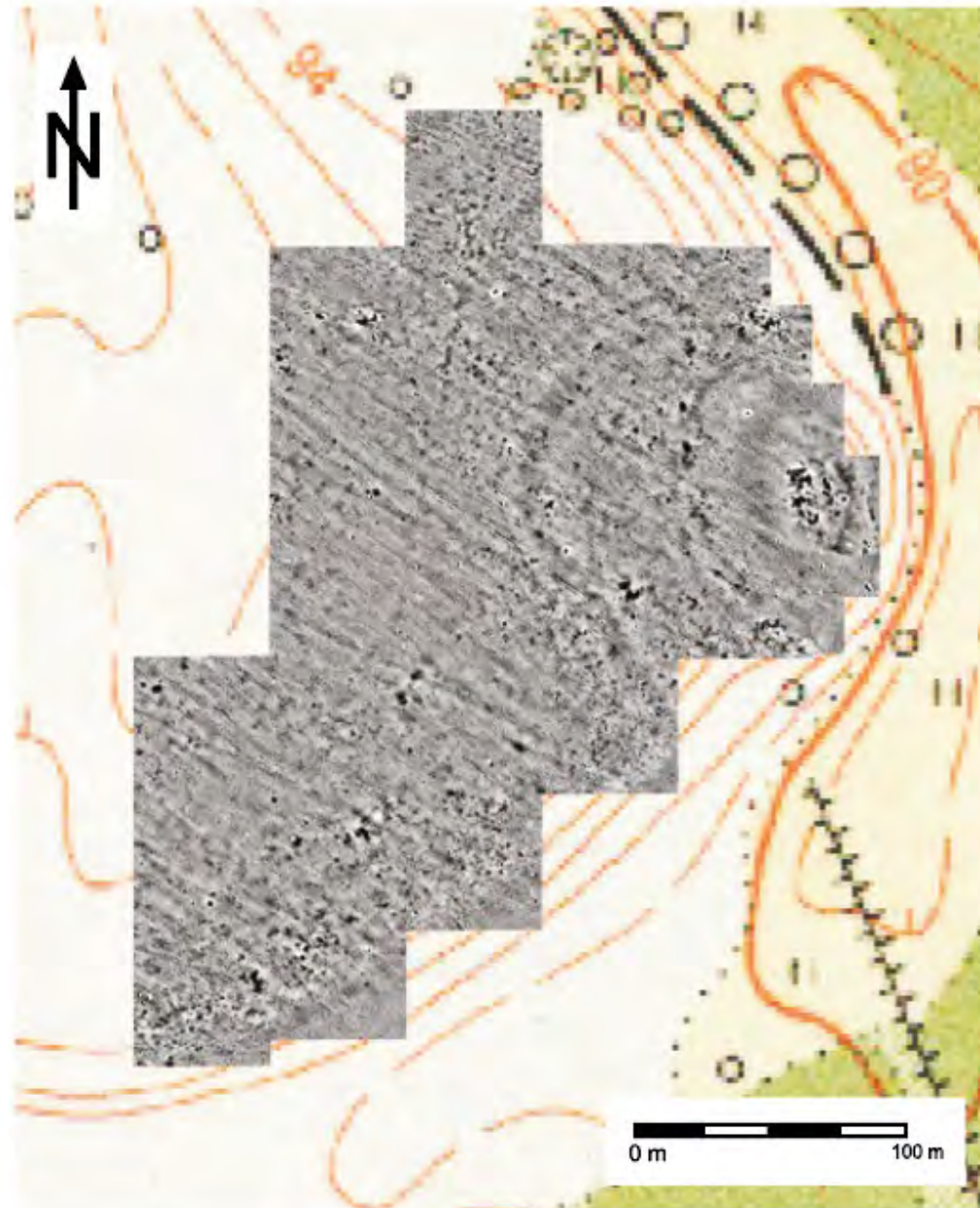


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BORBAS 2013

► Tiszakeszi-Szódadomb. Results of magnetometry.



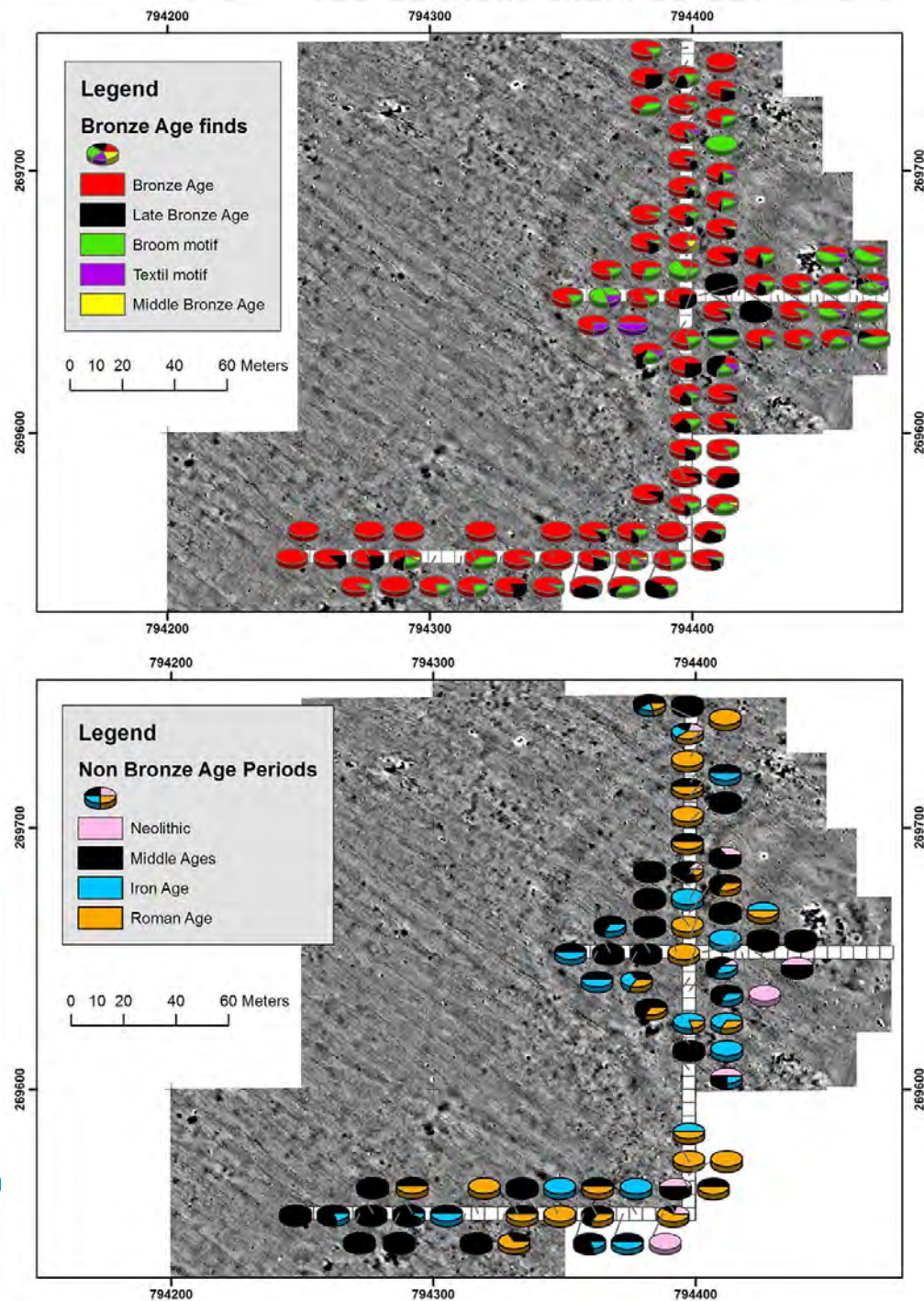


BORBAS 2013

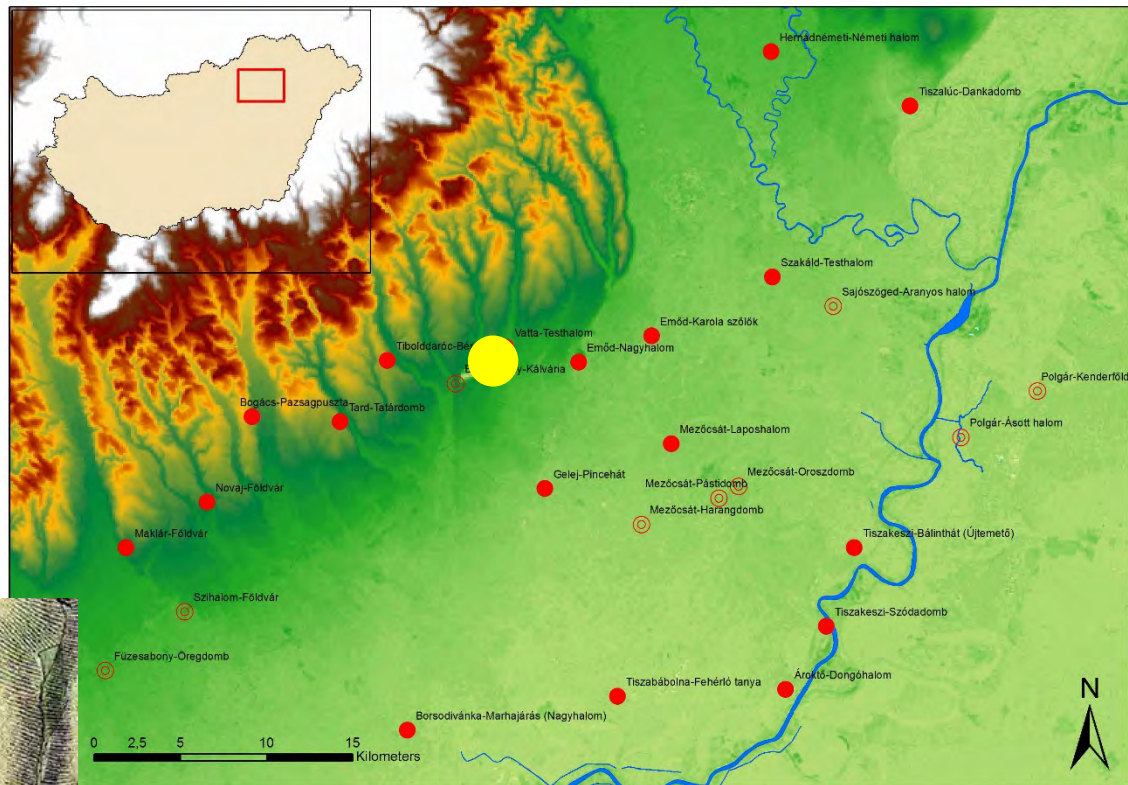


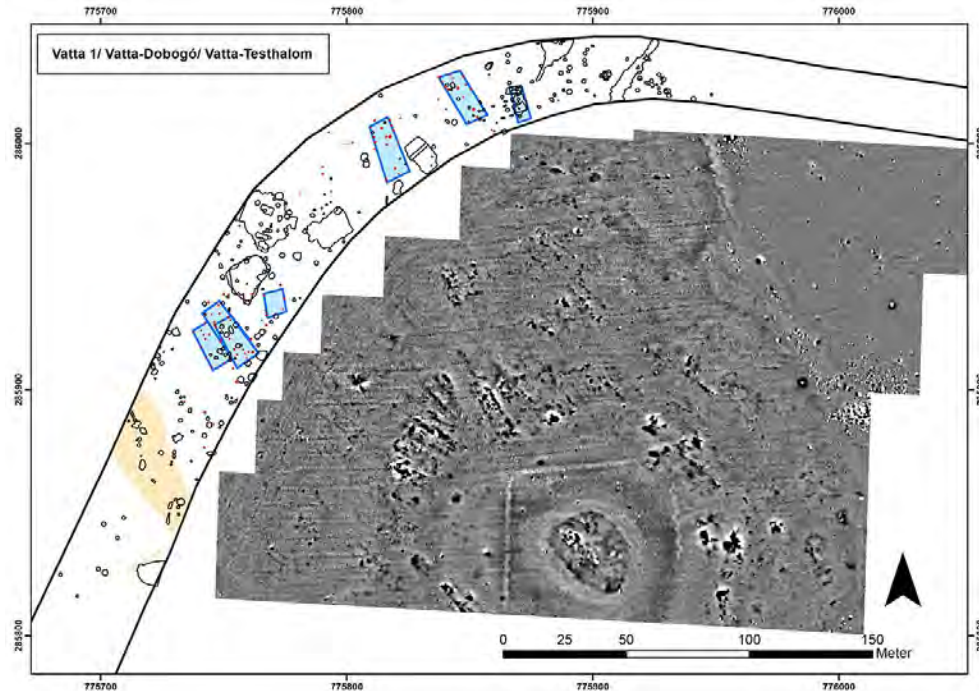
► Tiszakeszi-Szódadomb. Results of the surface survey in 2013.

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► Vatta-Testhalom





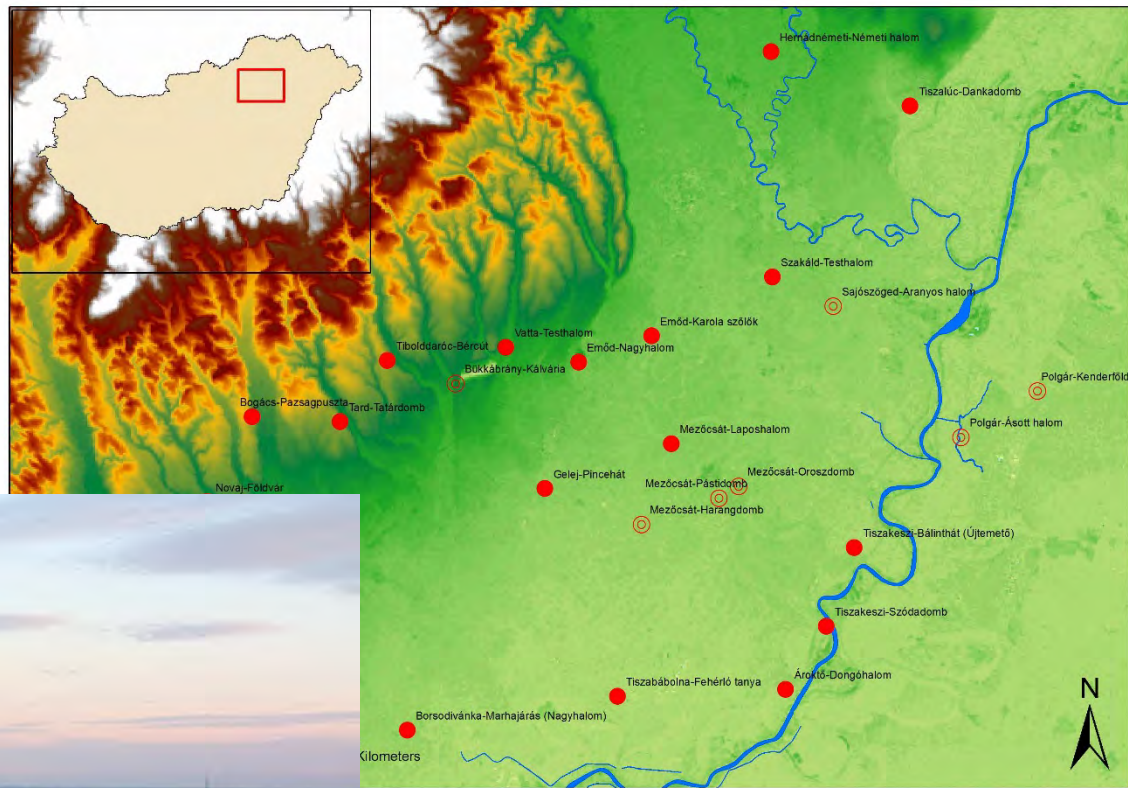
◀ Vatta-Testhalom. Layout of the outer settlement; magnetometry and the results of a previous rescue excavation compared.





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► Social Life on BORBAS Tells





◀ Accomodation in the sports home at Tard.





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BORBAS 2013





BORBAS 2013

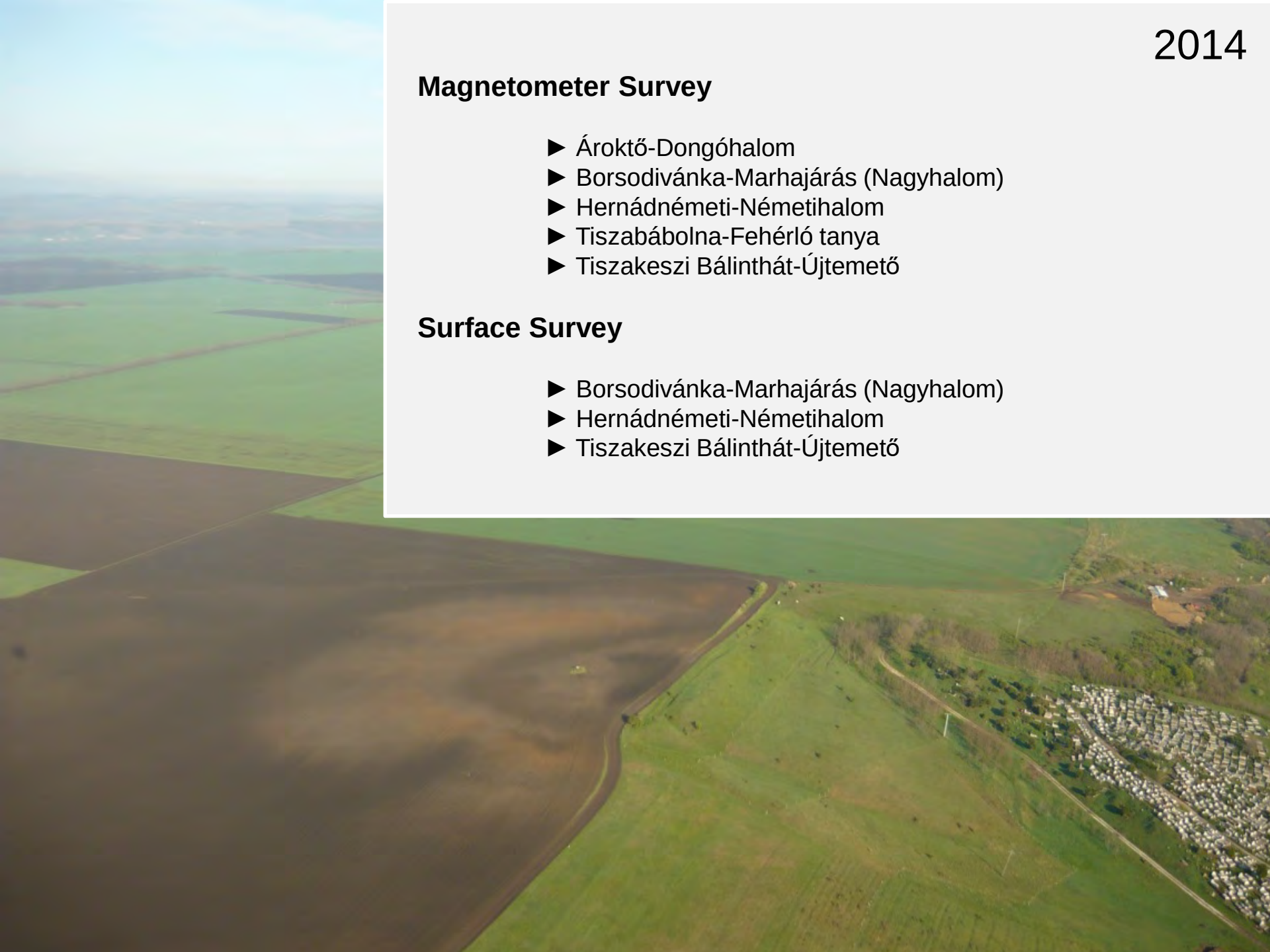


Magnetometer Survey

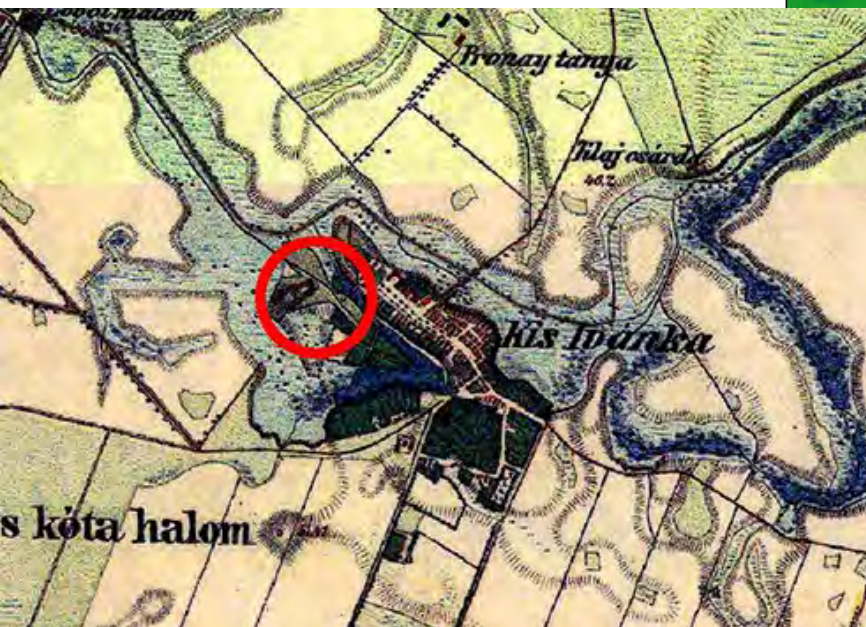
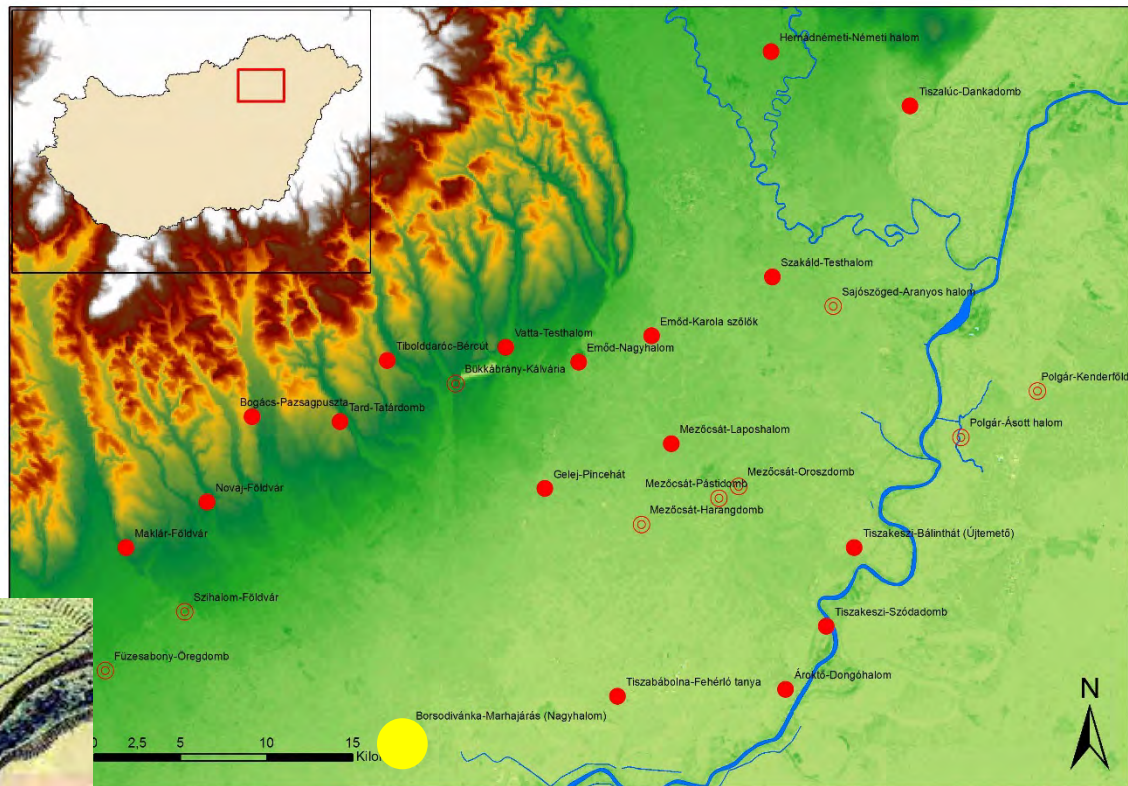
- ▶ Ároktő-Dongóhalom
- ▶ Borsodivánka-Marhajárás (Nagyhalom)
- ▶ Hernádnémeti-Németihalom
- ▶ Tiszabábolna-Fehérló tanya
- ▶ Tiszakeszi Bálinthát-Újtemető

Surface Survey

- ▶ Borsodivánka-Marhajárás (Nagyhalom)
- ▶ Hernádnémeti-Németihalom
- ▶ Tiszakeszi Bálinthát-Újtemető



► Borsodivánka-Marhajárás
(Nagyhalom)







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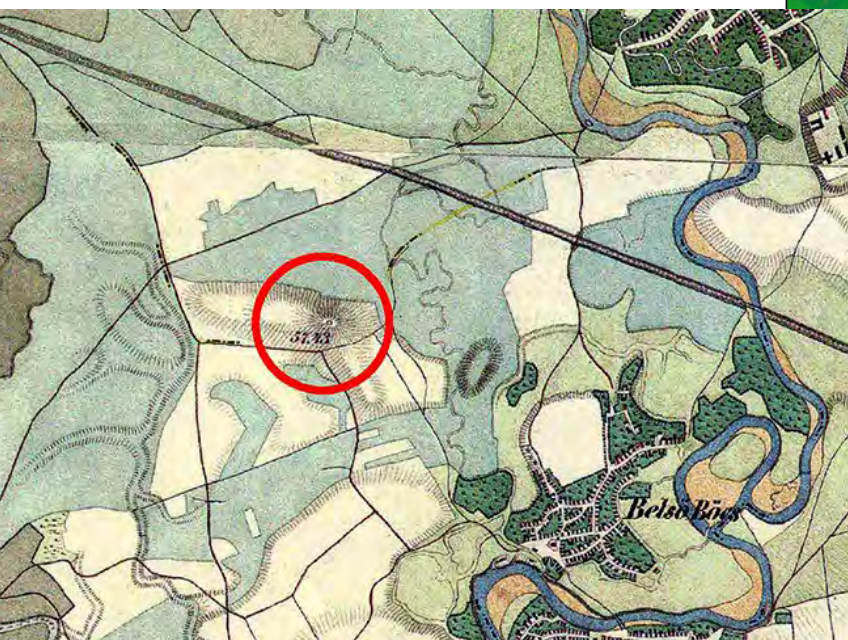
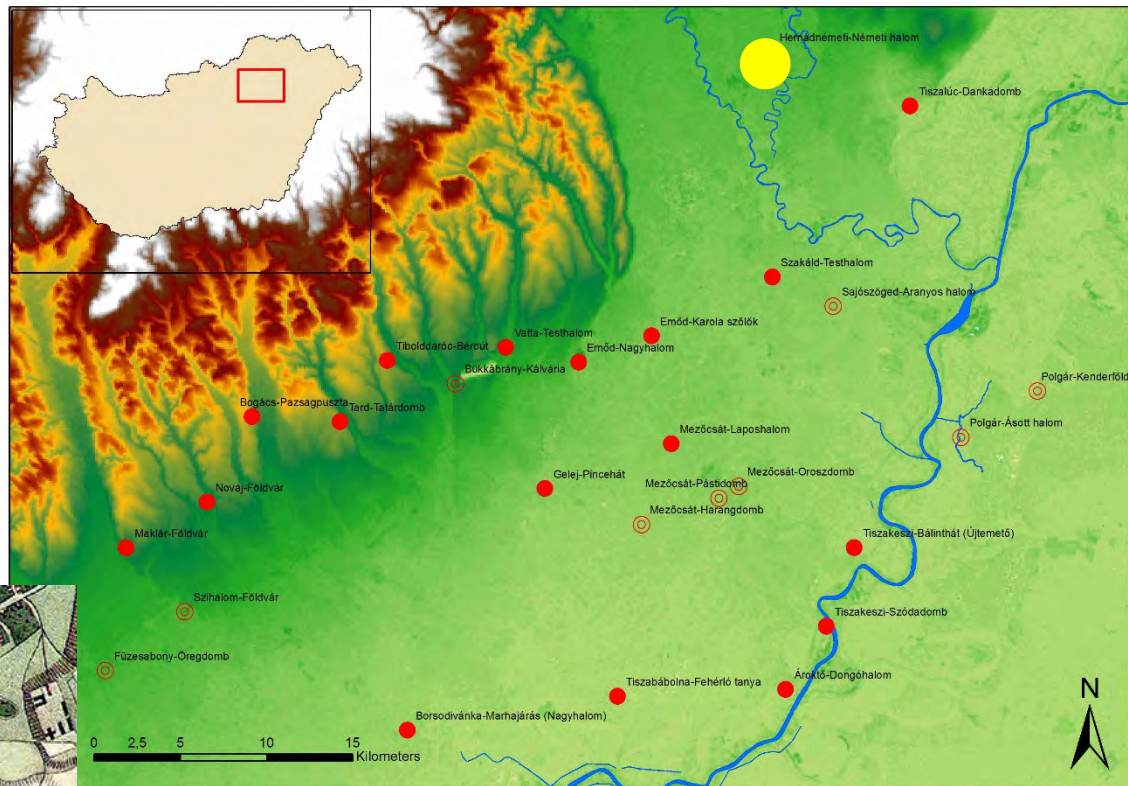


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BORBAS 2014

► Hernádnémeti-Németihalom



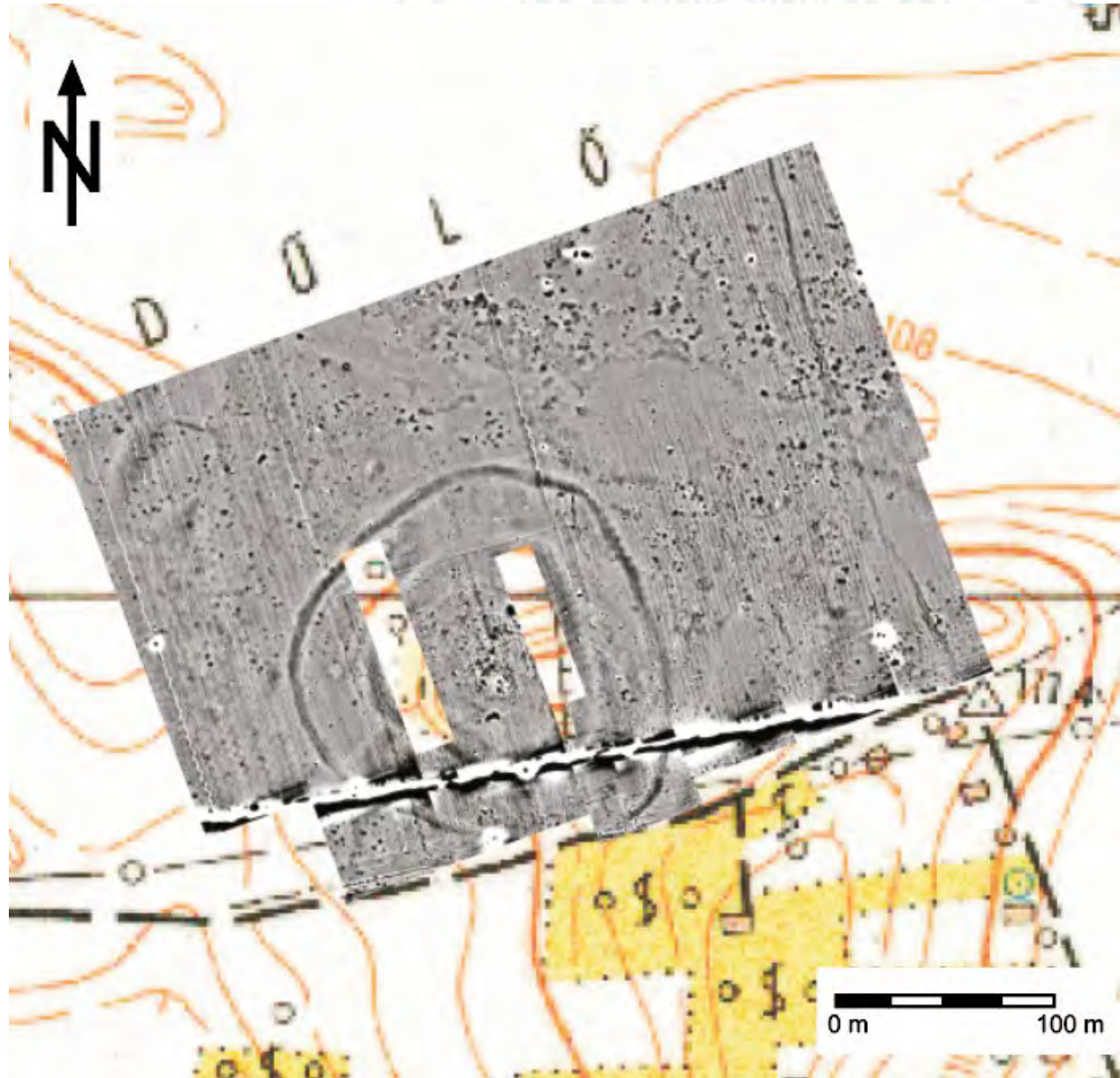


BORBAS 2014



BORBAS 2014

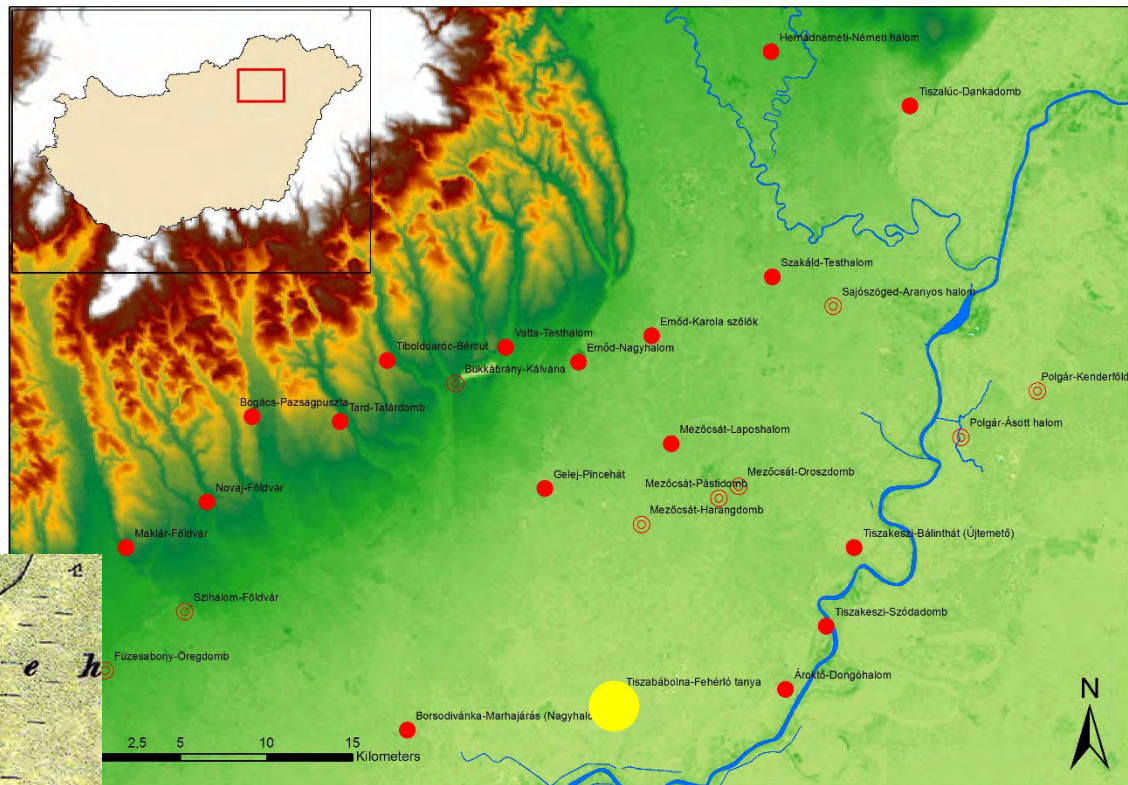
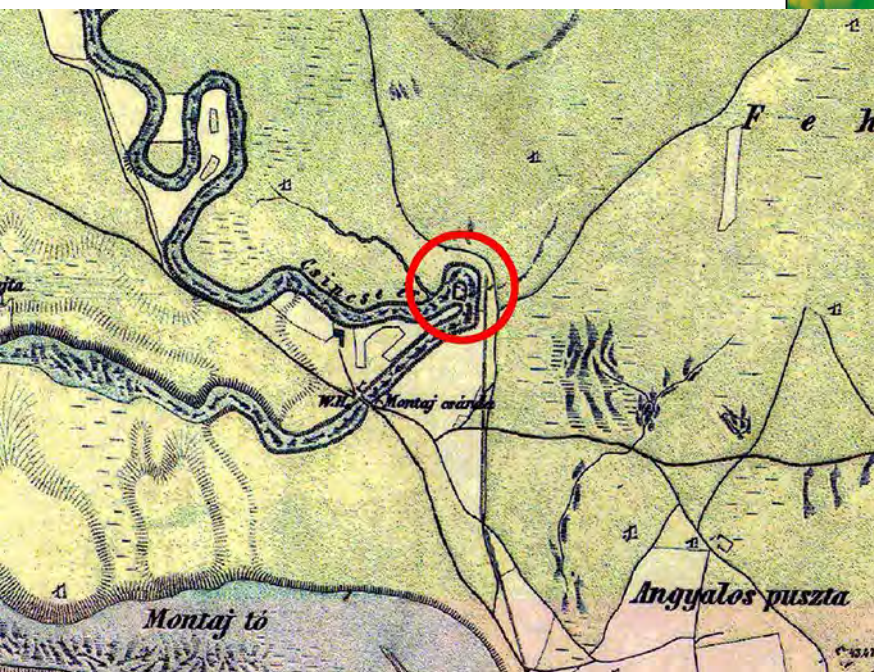
► Hernádnémeti-Németihalom.
Results of magnetometry.





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► Tiszabábolna-Fehérló tanya





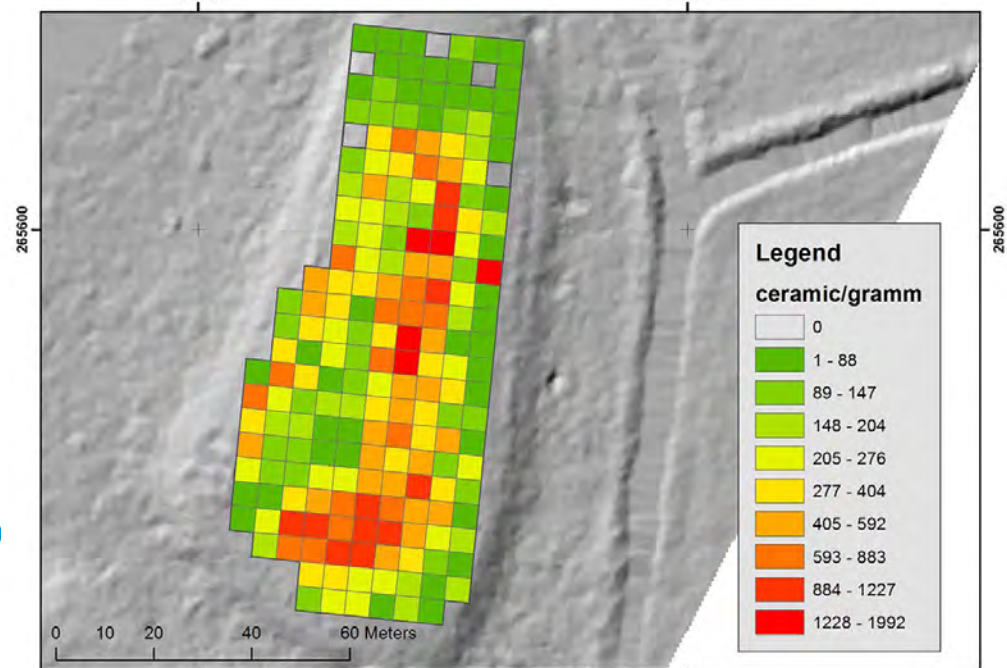
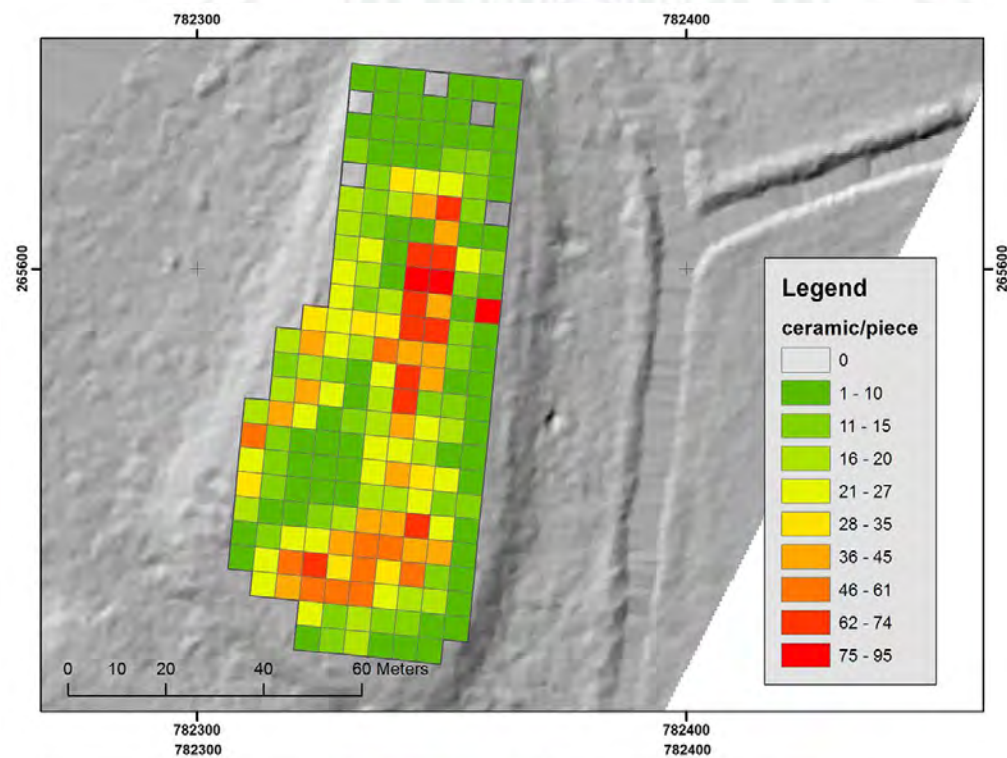


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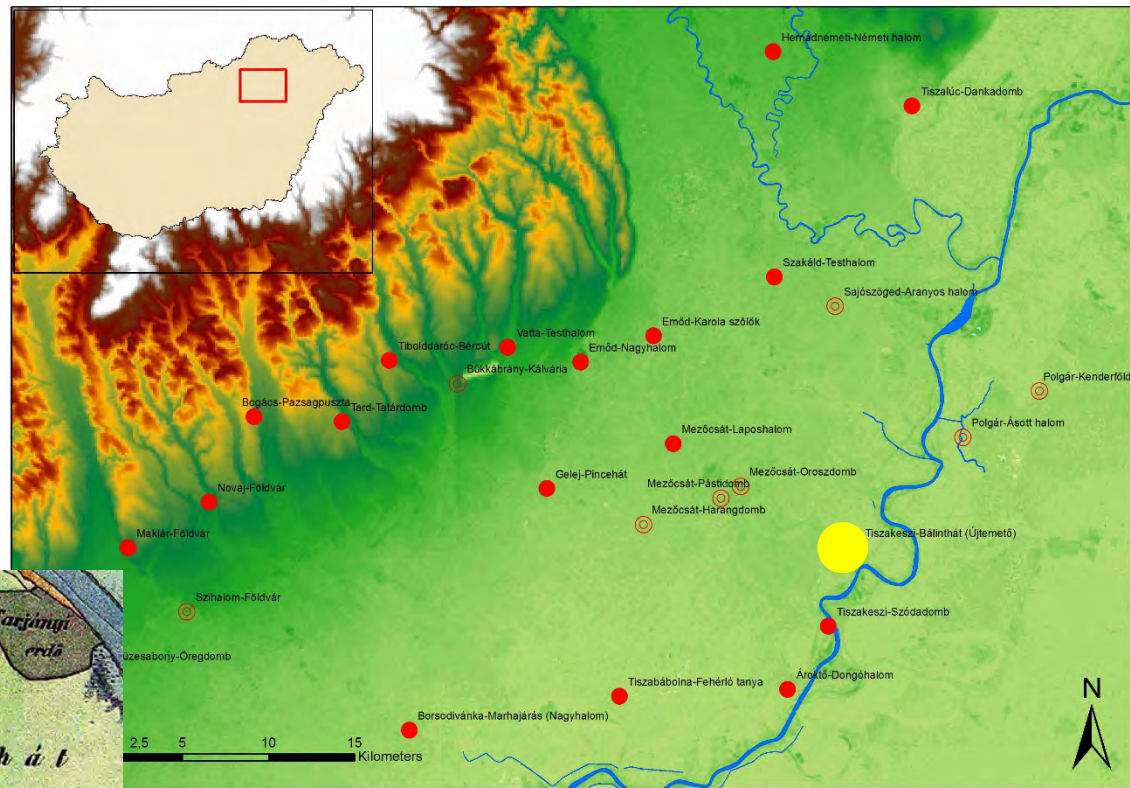


▲► Tiszabábolna-Fehérló tanya.
Results of magnetometry and the
surface survey in 2014.

BORBAS 2014



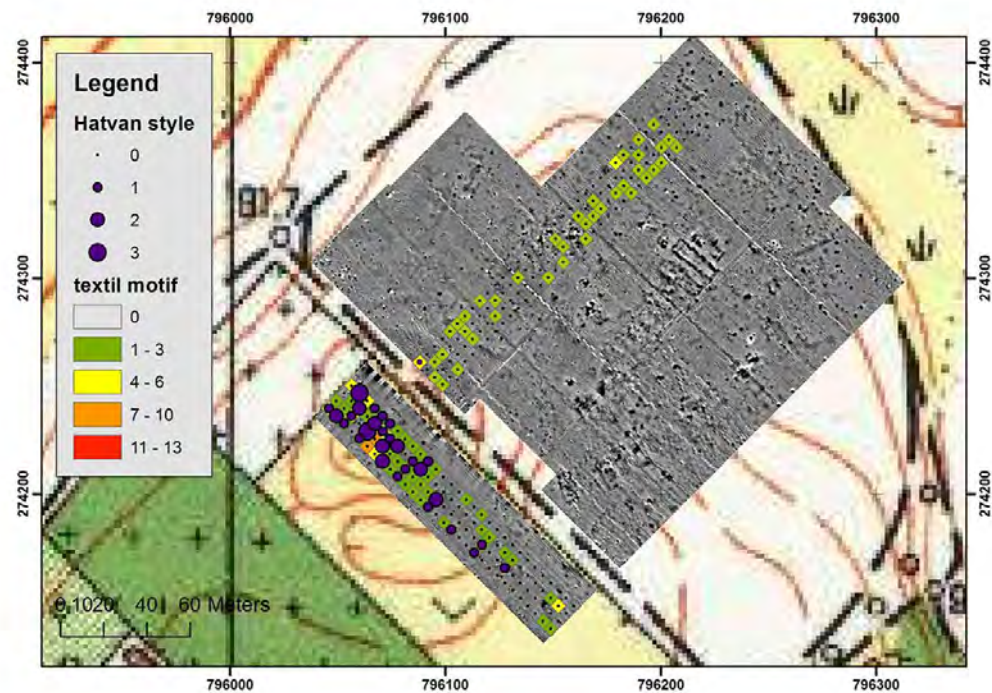
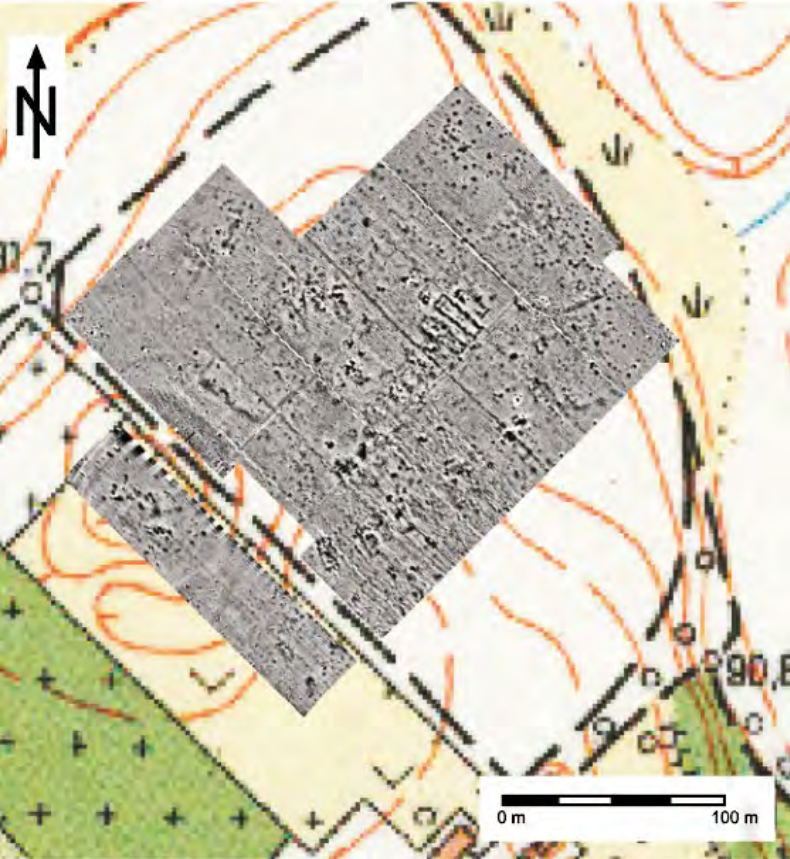
► Tiszakeszi Bálinthát-Újtemető



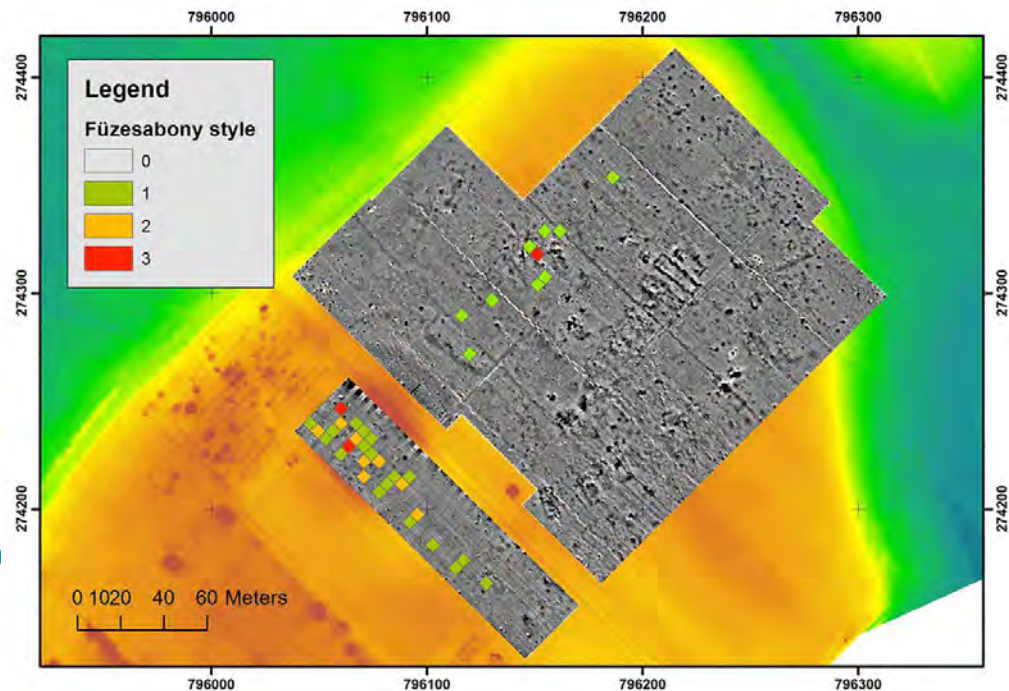


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▲► Tiszakeszi Bálinthát-Újtemető.
Results of magnetometry and the
surface survey in 2014.



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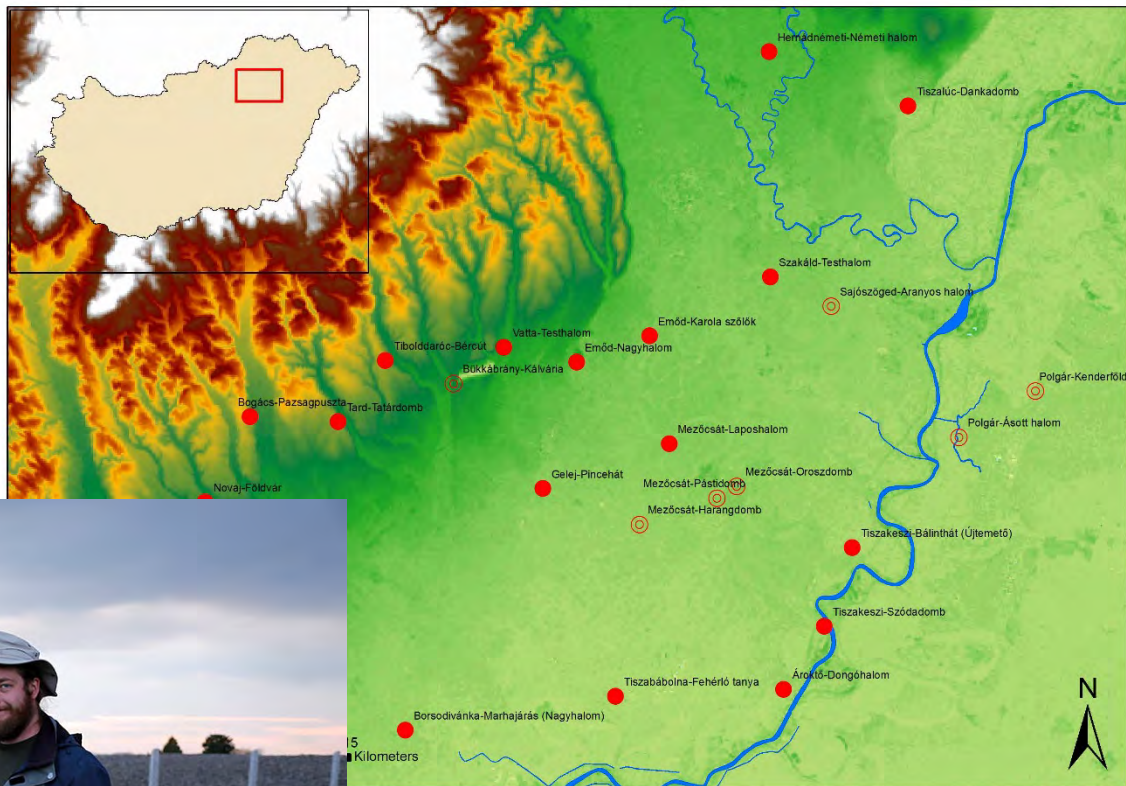


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► Social Life on BORBAS Tells





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► A visit to Bogács-Pázsagpuszta.

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► Accomodation in Borsodivánka II.

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Magnetometer Survey

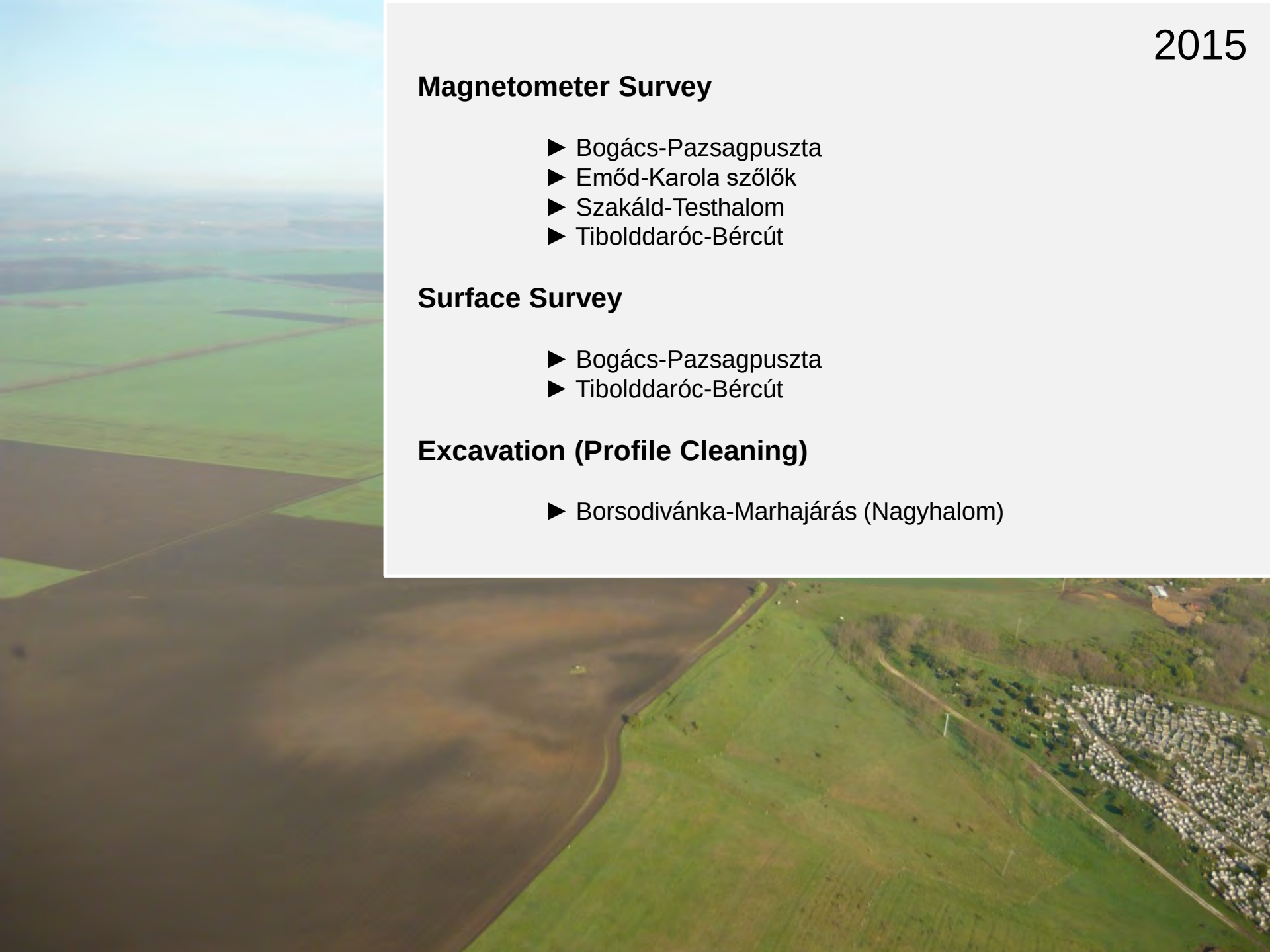
- ▶ Bogács-Pázsagpuszta
- ▶ Emőd-Karola szőlők
- ▶ Szakáld-Testhalom
- ▶ Tibolddaróc-Bércút

Surface Survey

- ▶ Bogács-Pázsagpuszta
- ▶ Tibolddaróc-Bércút

Excavation (Profile Cleaning)

- ▶ Borsodivánka-Marhajárás (Nagyhalom)



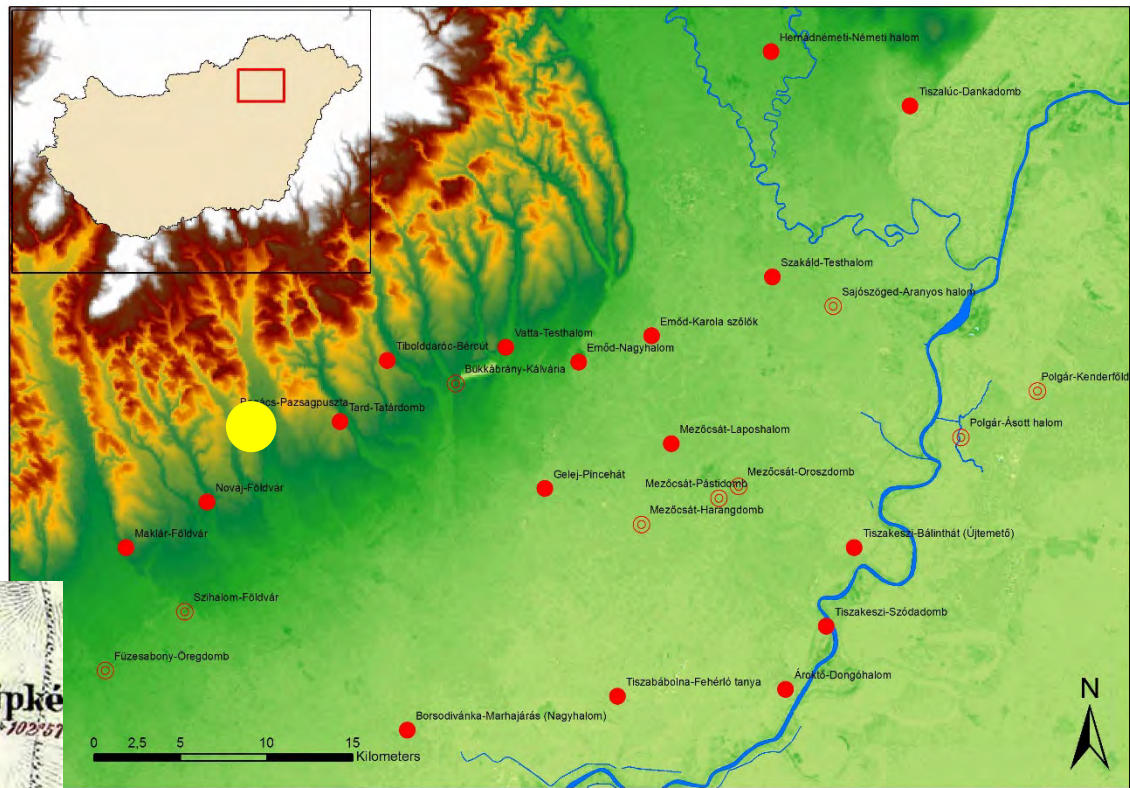
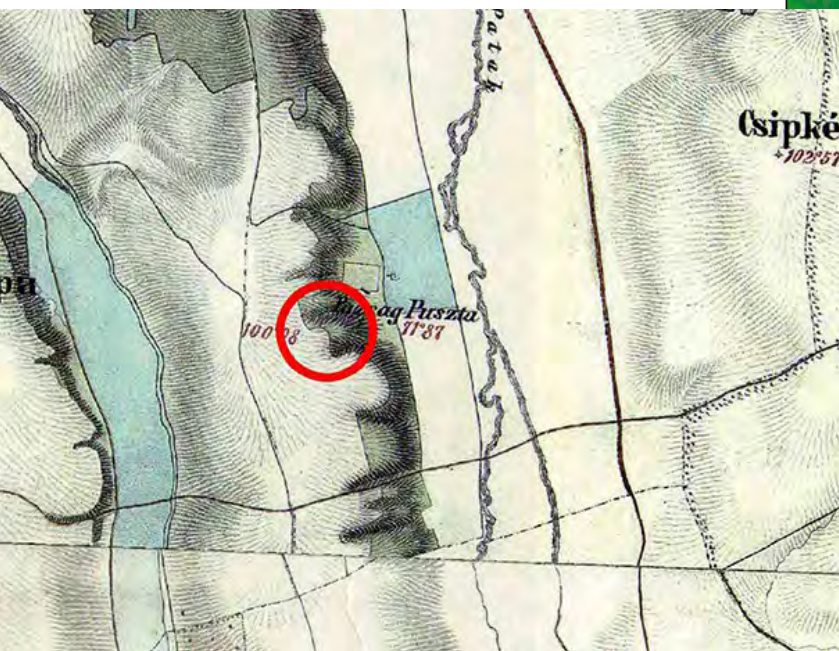
BRONZE AGE TELL COMMUNITIES IN CONTEXT

AN EXPLORATION INTO CULTURE, SOCIETY,
AND THE STUDY OF
EUROPEAN PREHISTORY – PART 1

Tobias L. Kienlin



► Bogács-Pázsagpuszta





BORBAS 2015



BORBAS 2015

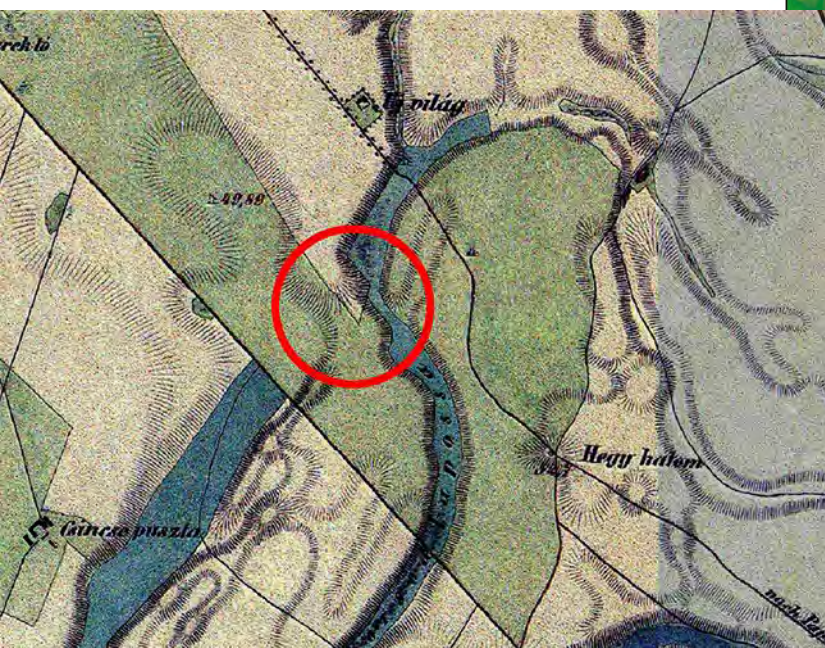
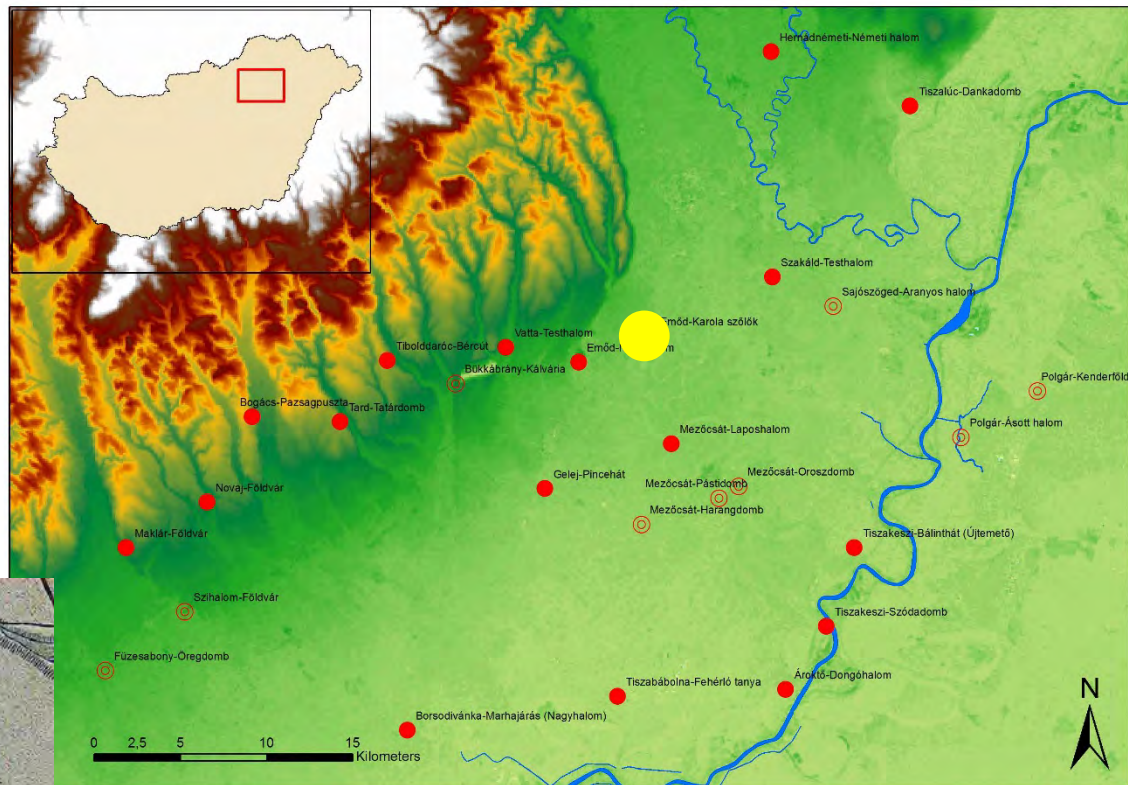


BORBAS 2015



BORBAS 2015

► Emőd-Karola szőlők



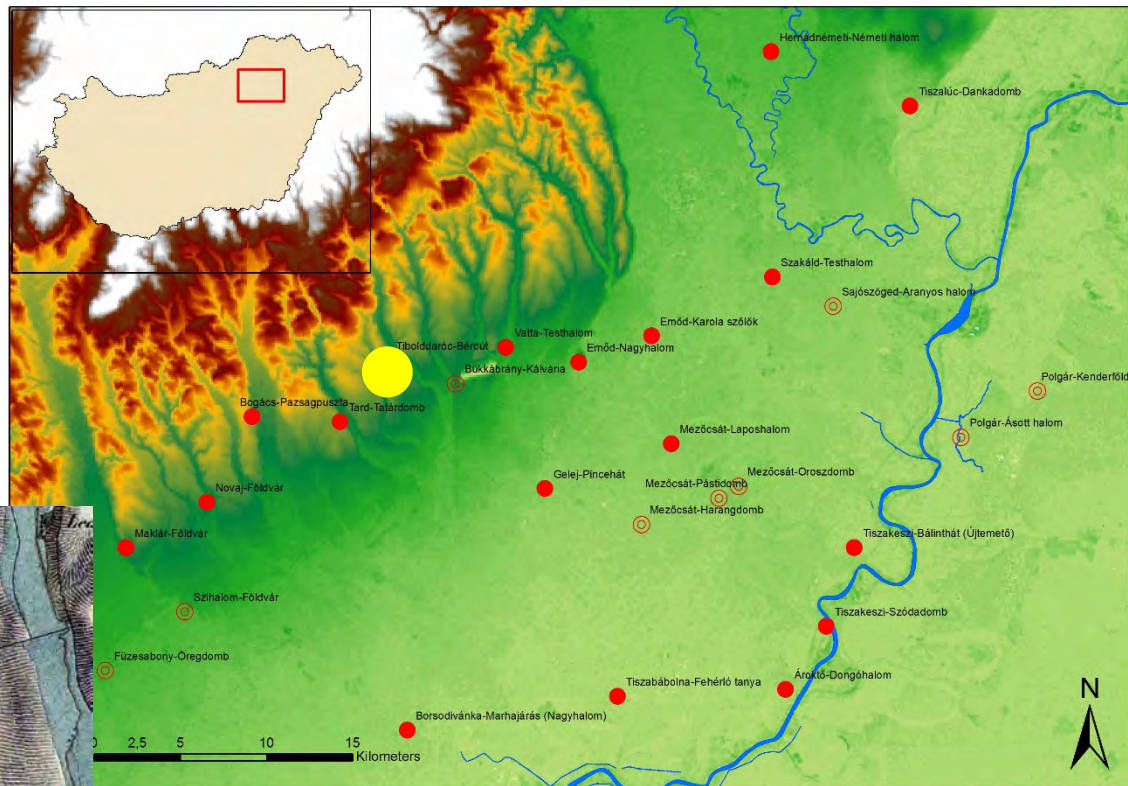
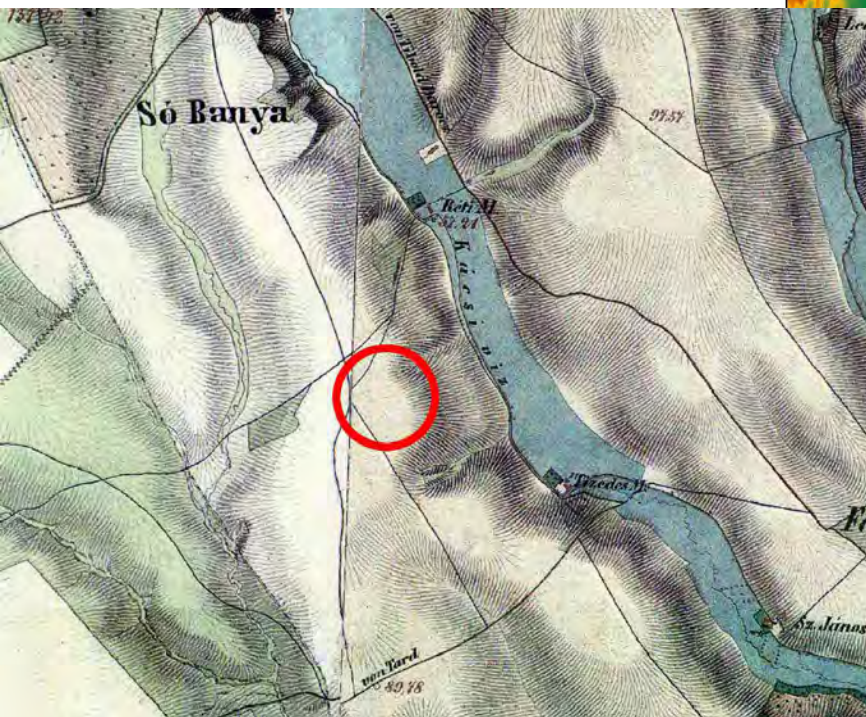


BORBAS 2015



BORBAS 2015

► Tibolddaróc-Bércút





BORBAS 2015



BORBAS 2015



BORBAS 2015

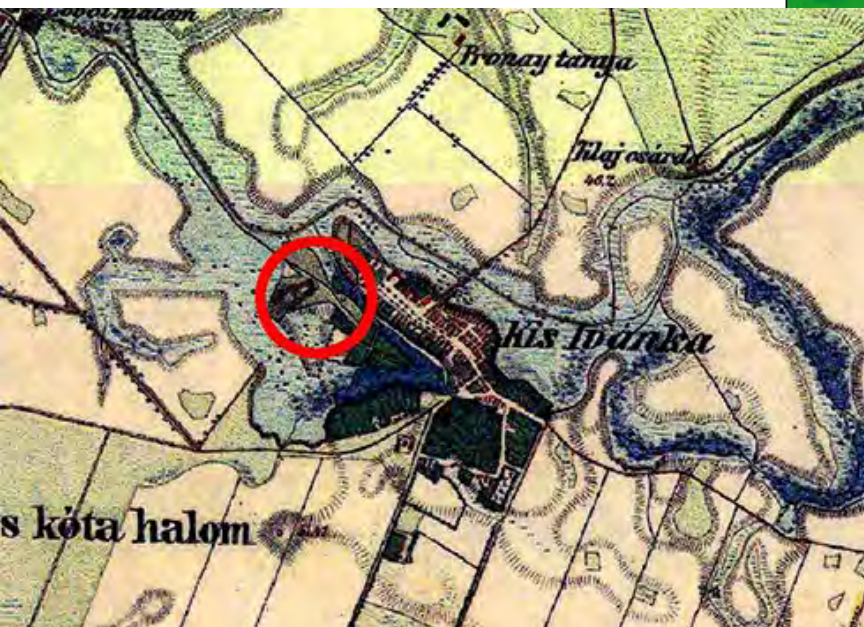
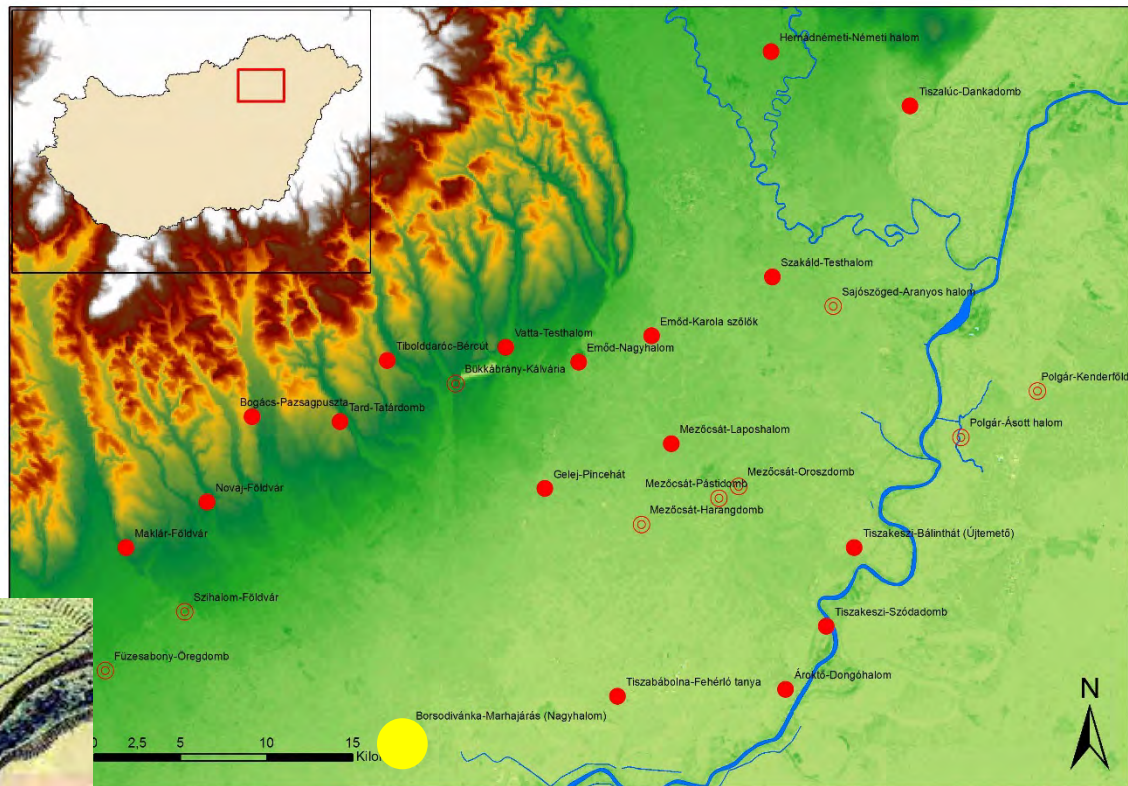


BORBAS 2015

► Tibolddaróc-Bércút. Results of magnetometry.



► Borsodivánka-Marhajárás
(Nagyhalom)





BORBAS 2015







BORBAS 2015





BORBAS 2015



BORBAS 2015



BORBAS 2015



BORBAS 2015

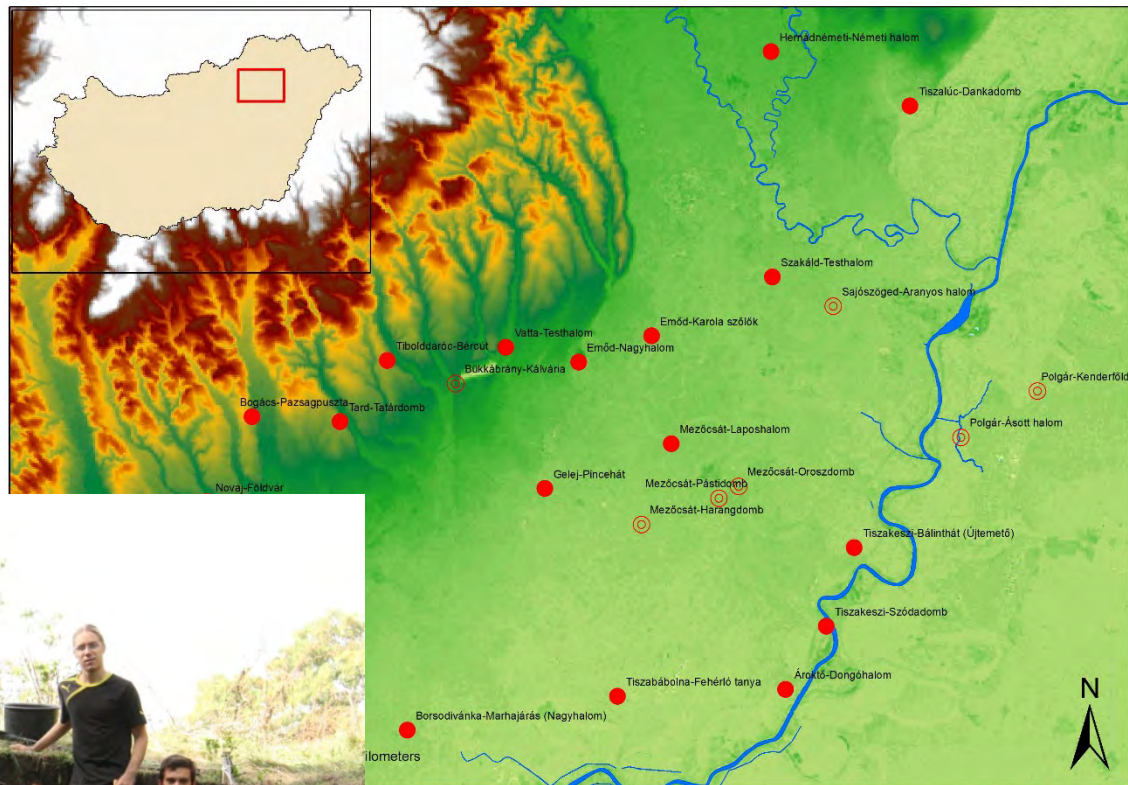


BORBAS 2015



BORBAS 2015

► Social Life on BORBAS Tells





▲ Bronze Age friends and colleagues
at Borsodivánka



BORBAS 2015











▲ Tübingen University excursion
at Borsodivánka





BORBAS 2015



BORBAS 2015



BORBAS 2015



BORBAS 2015



► The Salmonella campaign ...





BORBAS 2015

▲ Accomodation in Borsodivánka I.



◀ Accomodation in Borsodivánka II.



BORBAS 2015

An excursion on Lake Constance





BORBAS 2015



BORBAS 2015



BORBAS 2015



BORBAS 2015



BORBAS 2015



Magnetometer Survey

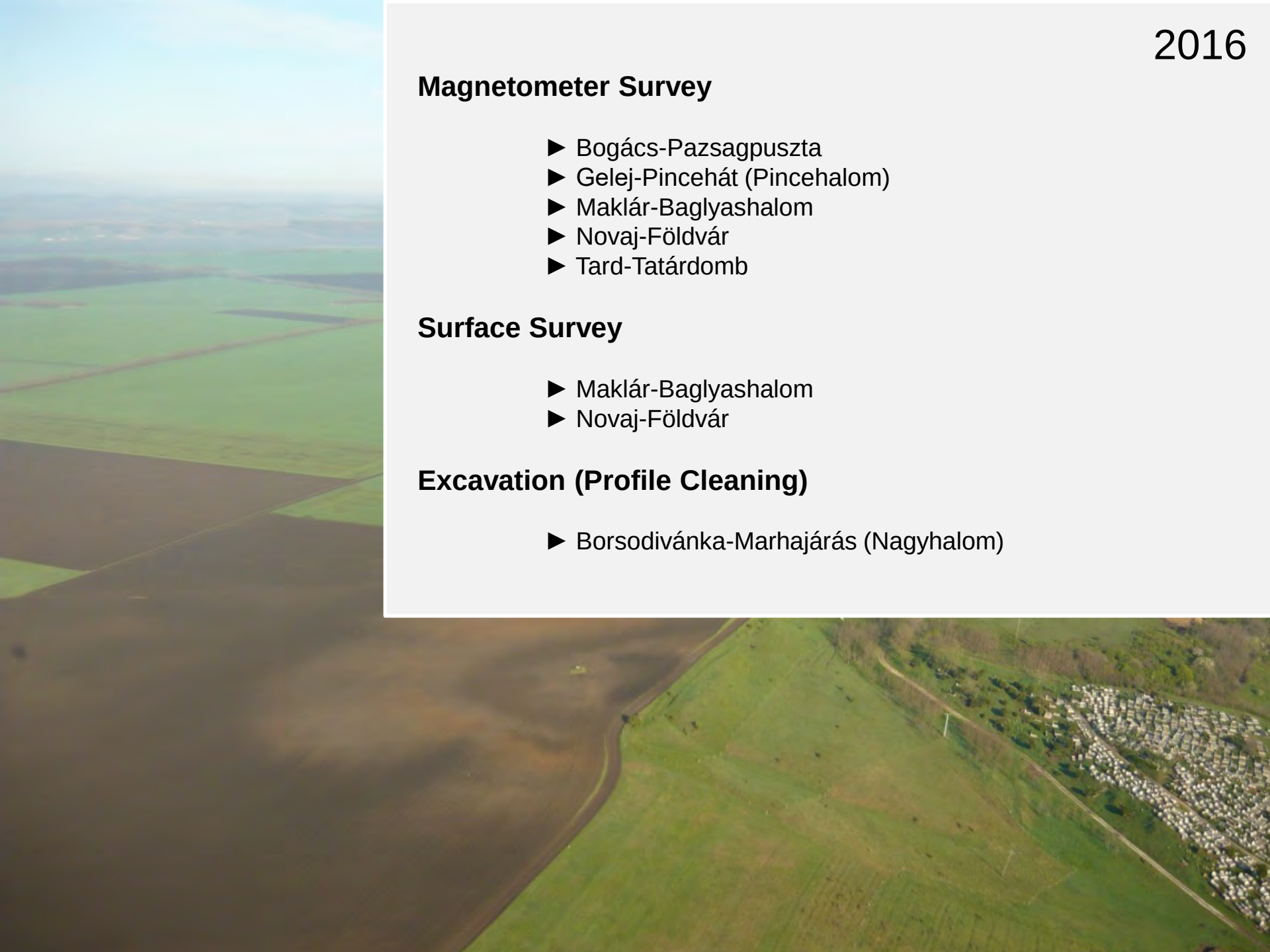
- ▶ Bogács-Pázsagpuszta
- ▶ Gelej-Pincehát (Pincehalom)
- ▶ Maklár-Baglyashalom
- ▶ Novaj-Földvár
- ▶ Tard-Tatárdomb

Surface Survey

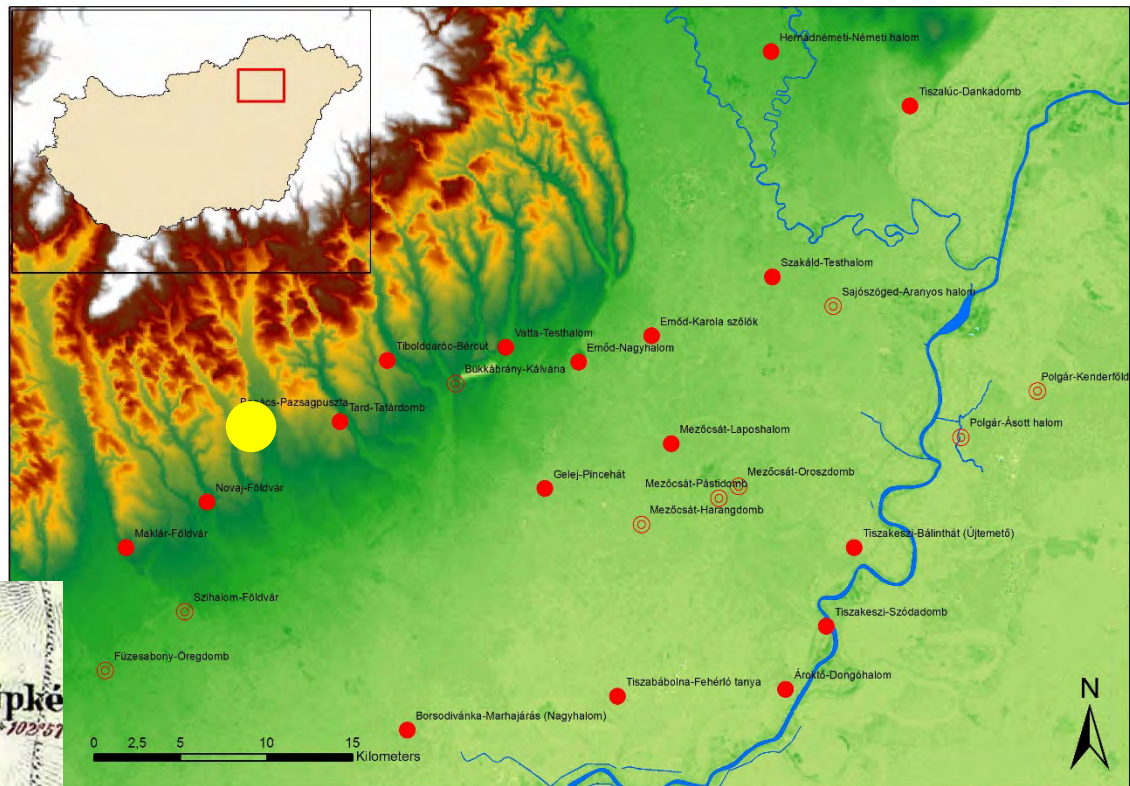
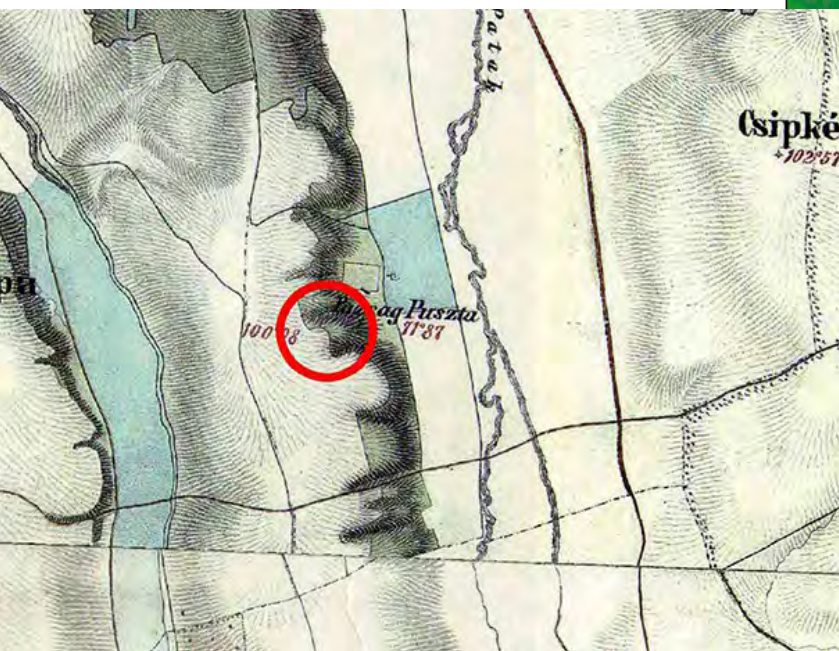
- ▶ Maklár-Baglyashalom
- ▶ Novaj-Földvár

Excavation (Profile Cleaning)

- ▶ Borsodivánka-Marhajárás (Nagyhalom)



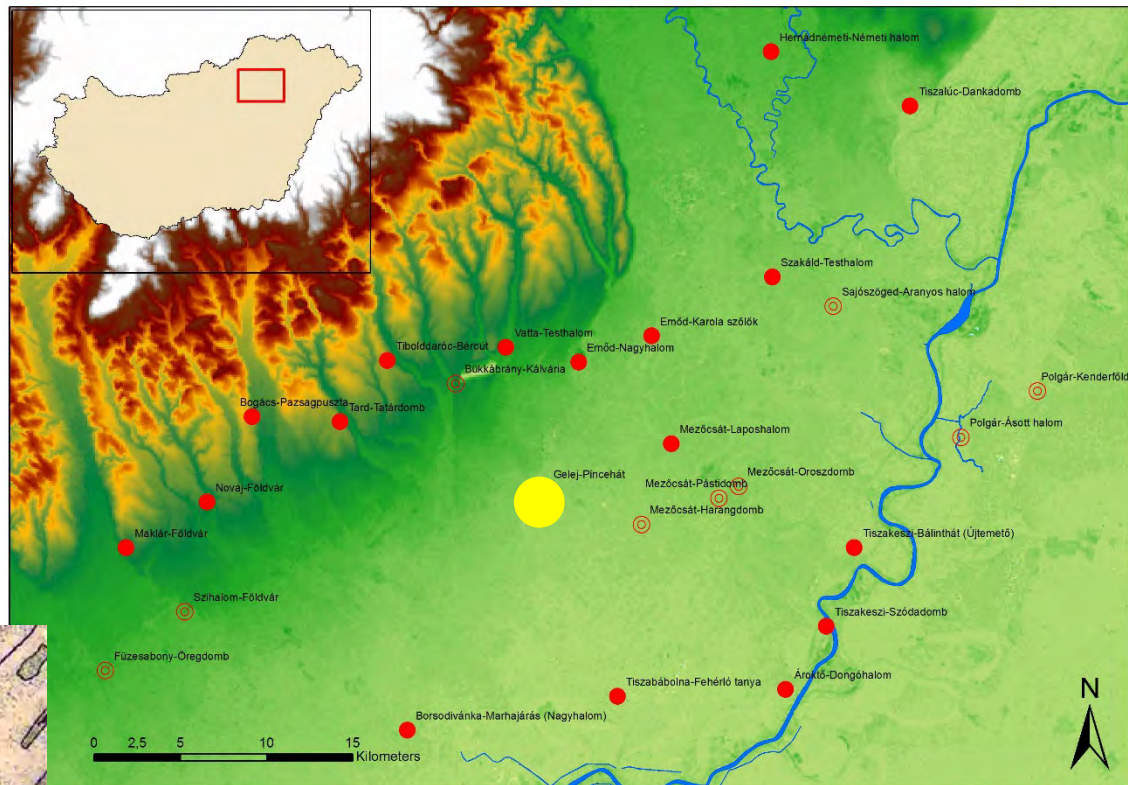
► Bogács-Pázsagpuszta





BORBAS 2016

► Gelej-Pincehát (Pincehalom)



Gelej 2016



BORBAS 2016

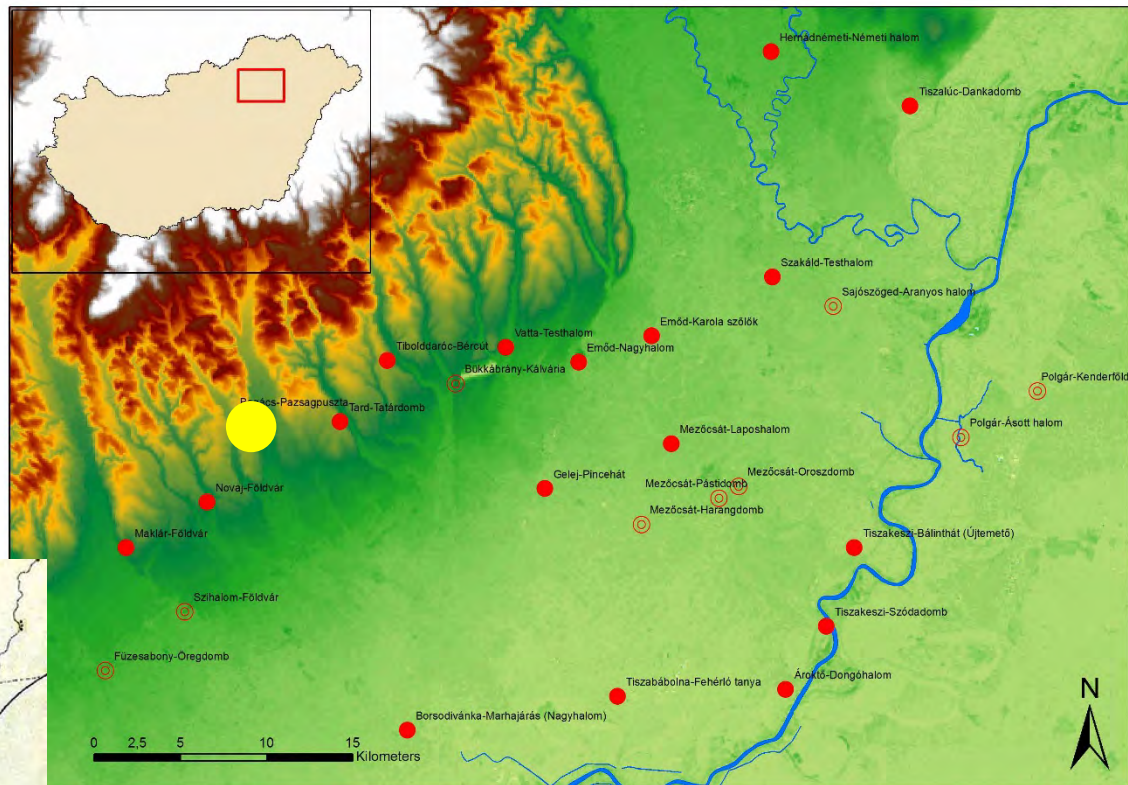
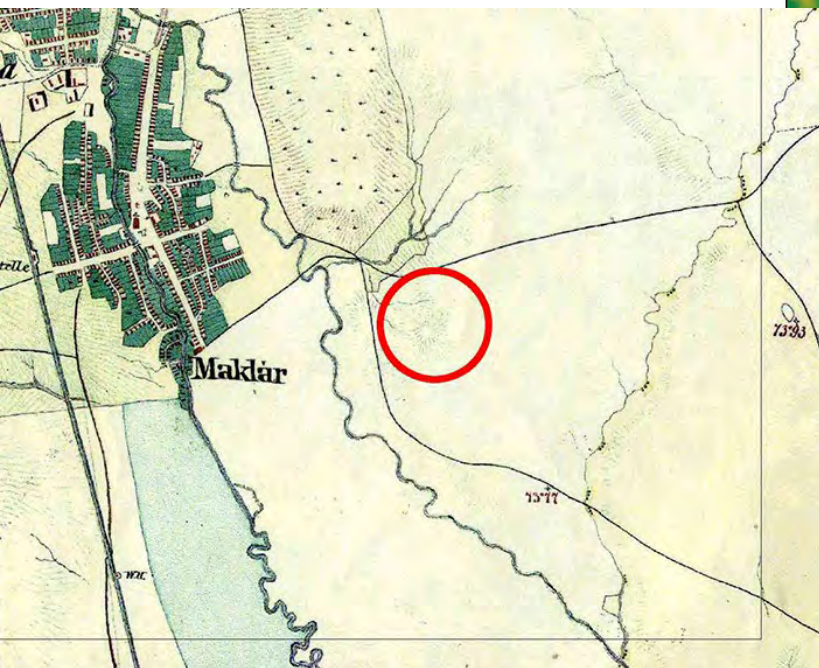


BORBAS 2016

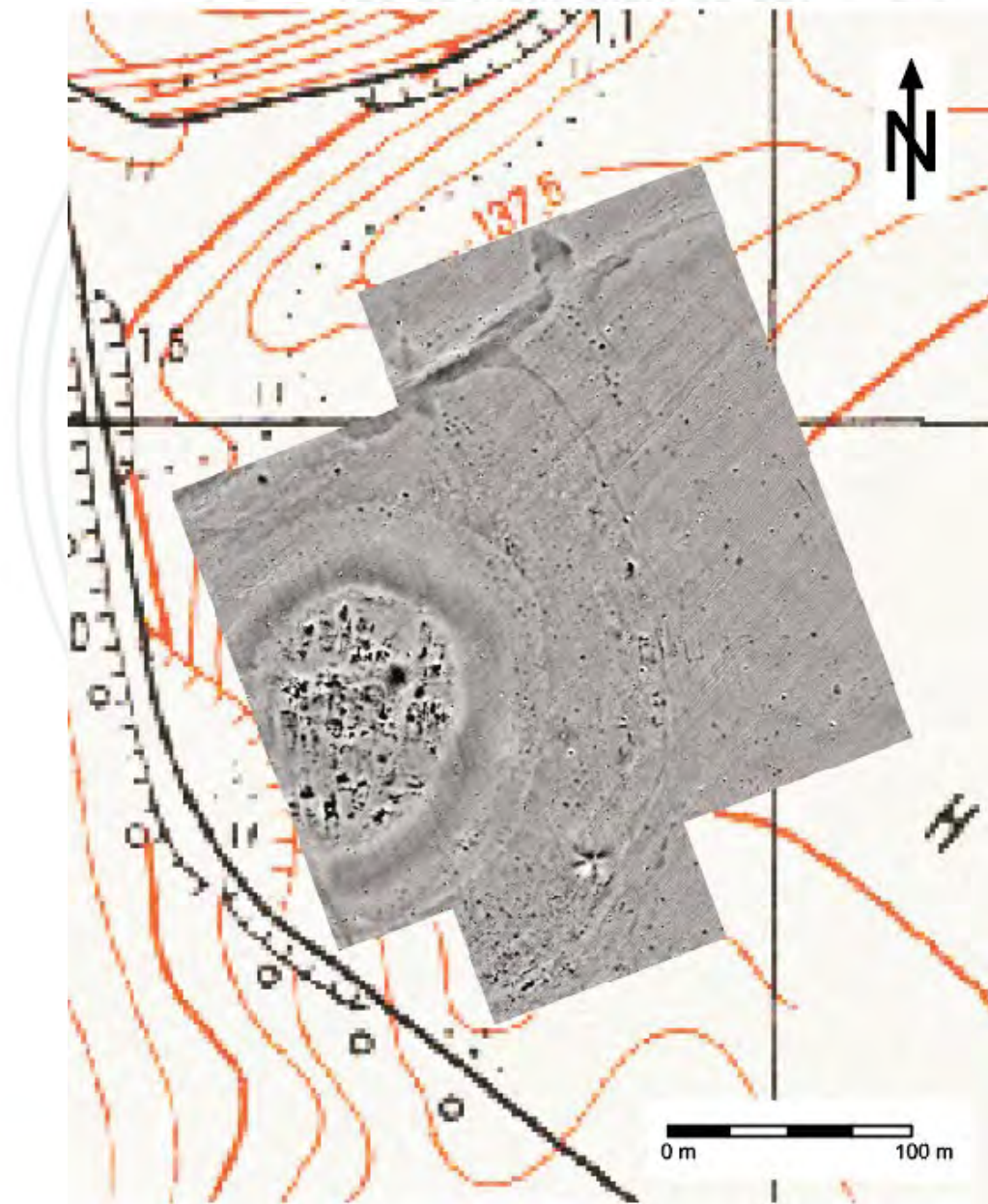


BORBAS 2016

► Maklár-Baglyashalom

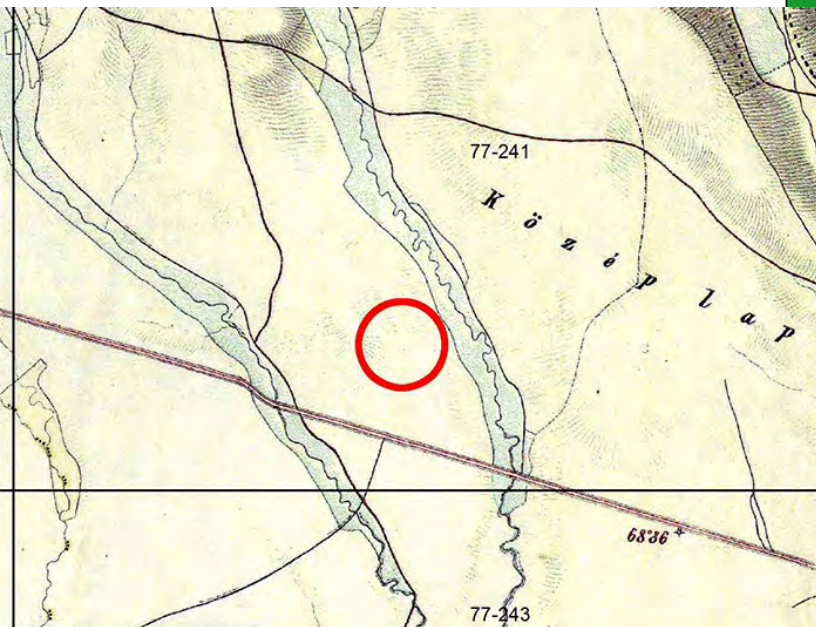
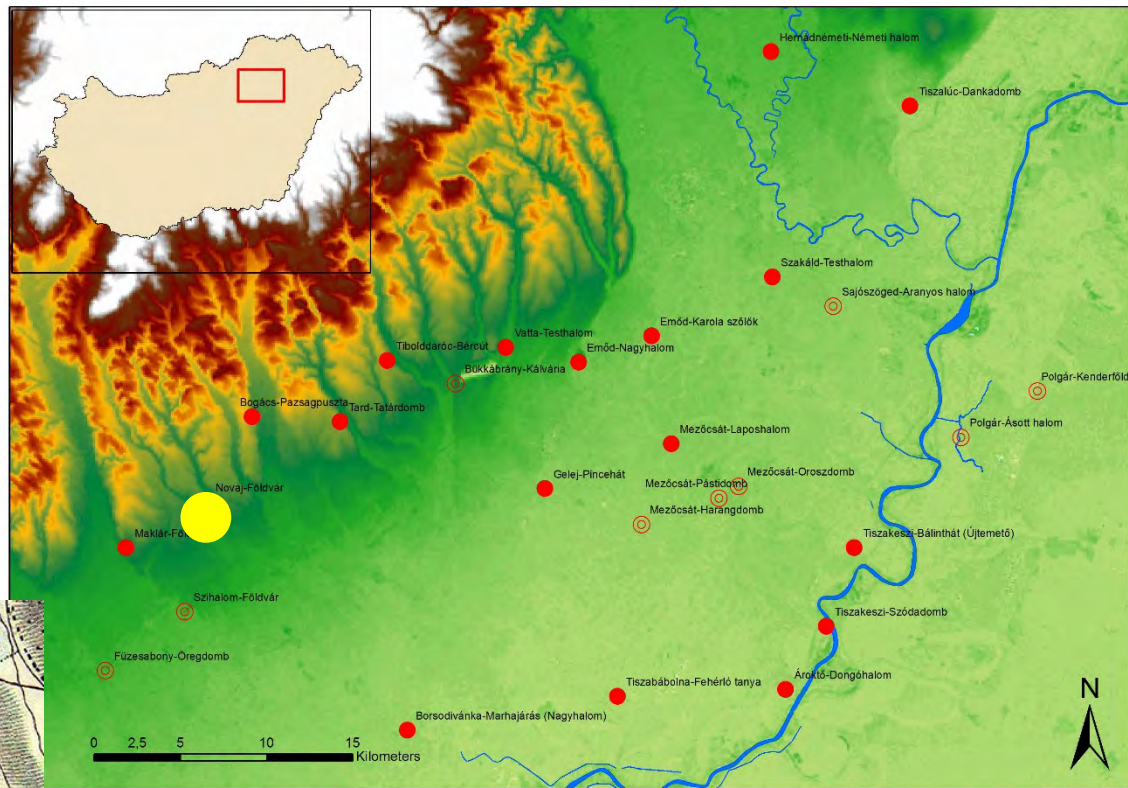


► Maklár-Baglyashalom. Results of magnetometry.

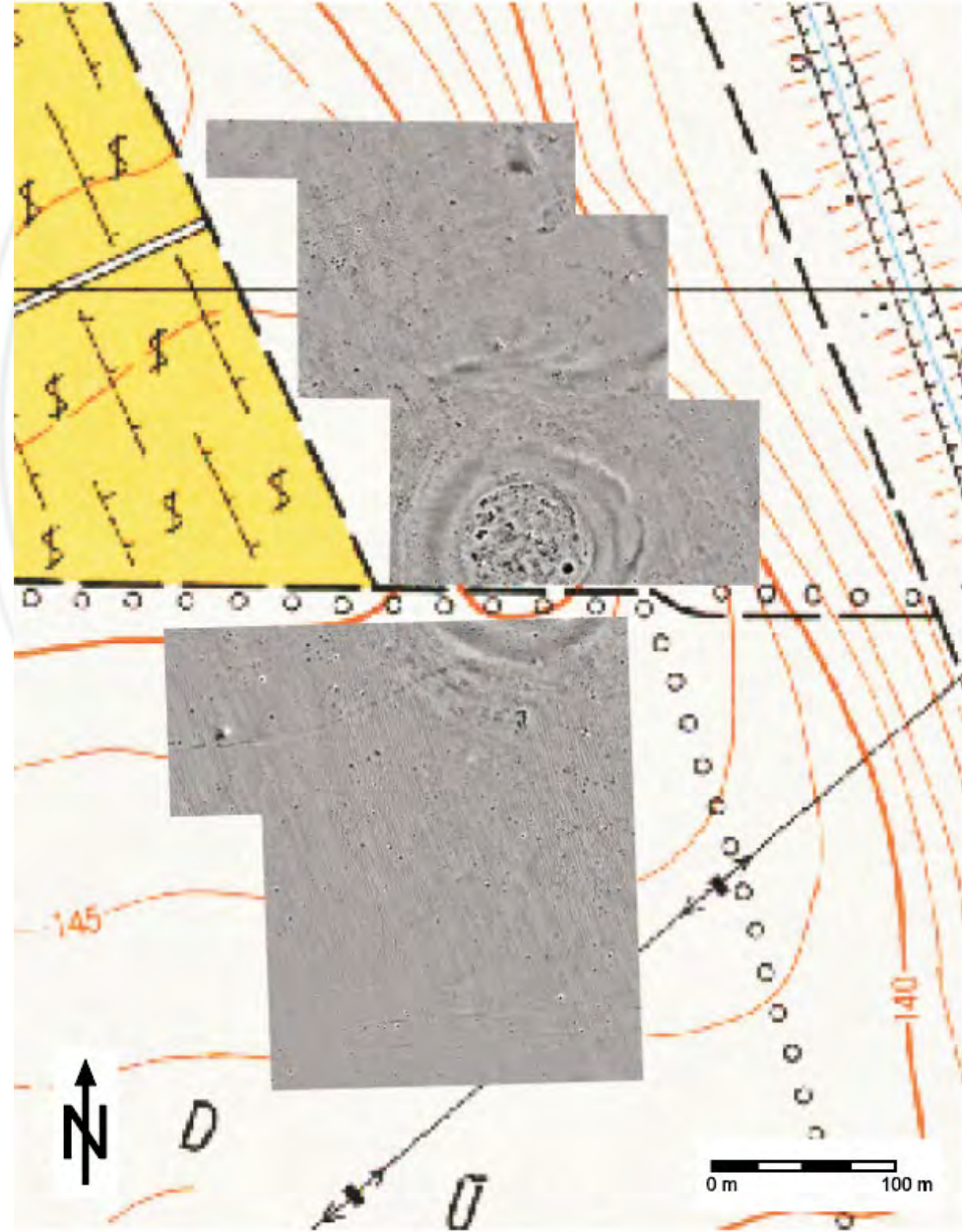




► Novaj-Földvár

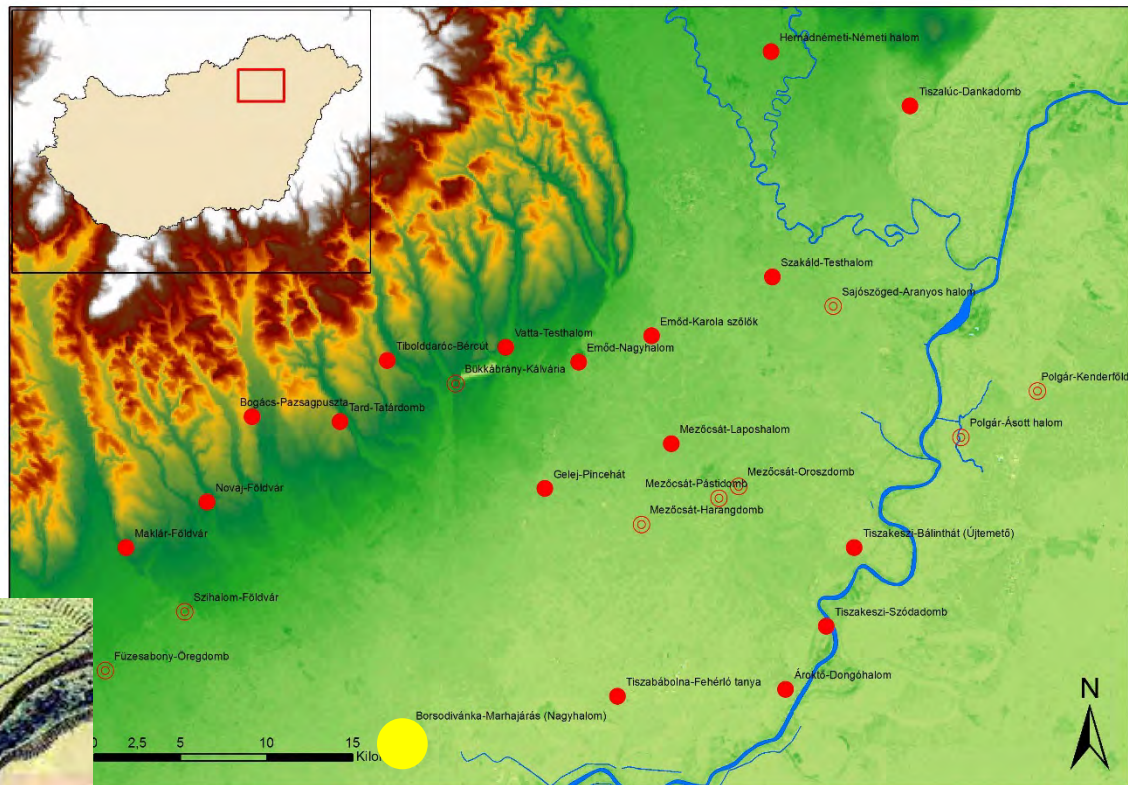
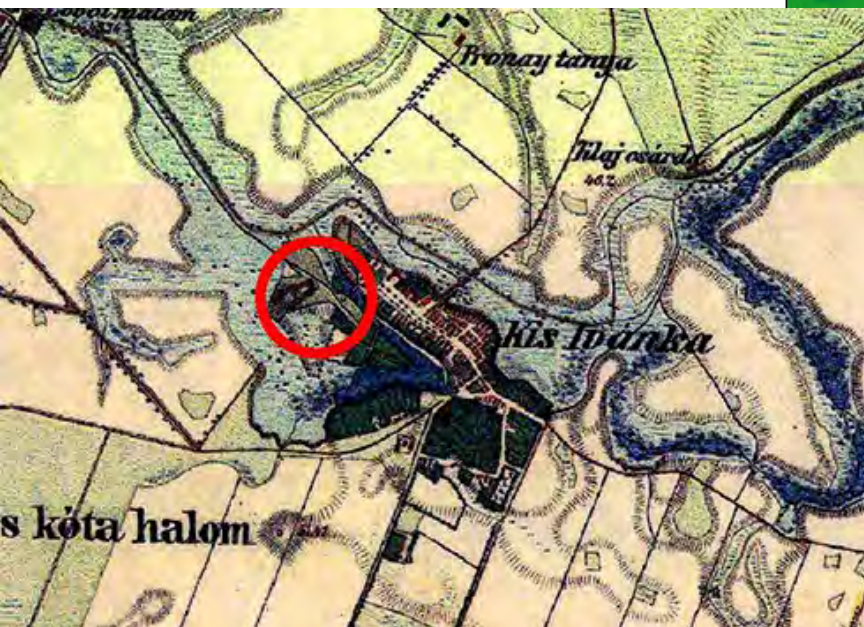


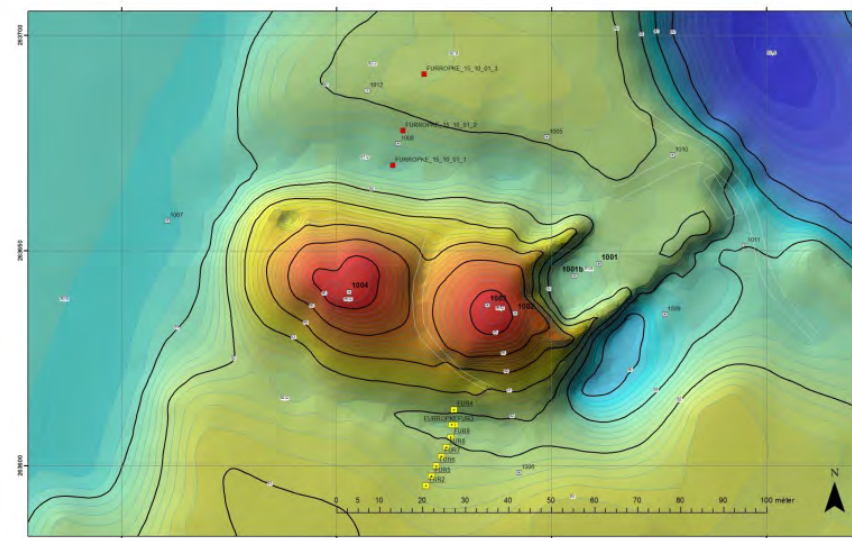
► Novaj-Földvár. Results of magnetometry.





► Borsodivánka-Marhajárás
(Nagyhalom)





BORBAS 2016

Borsodivánka Nagy-halom geodéziai felmérése
2015. október



Hausschuttschicht+Boden

Auffüllung

Phytolith- und Müllschichten

Lehmauffüllung –
Planierungsschicht

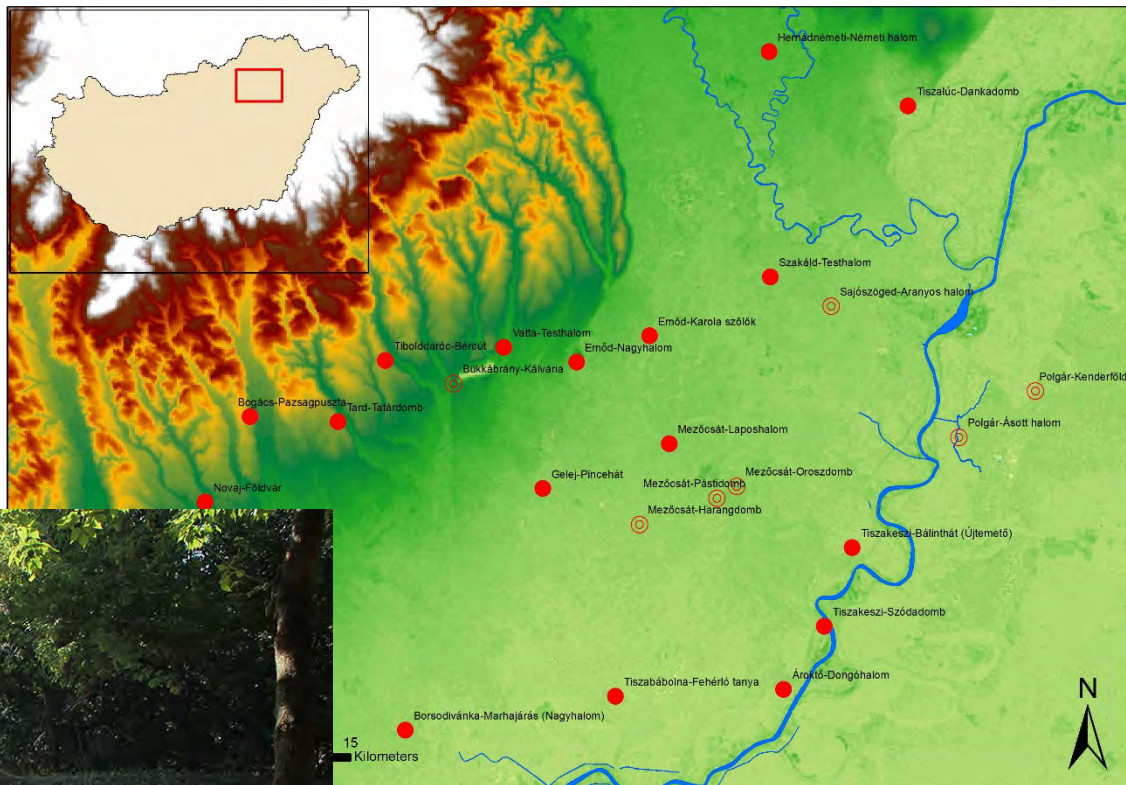
Unterste Hausschichten

Grube

Lehmplattform

Urhumus

► Social Life on BORBAS Tells



► HARC meeting held at
Borsodivánka

BORBAS 2016





BORBAS 2016



BORBAS 2016



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► HARC meeting and excursion to
Novaj-Földvár.

BORBAS 2016





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▲ Accomodation in Tiszabábolna-Fehérlő tanya.



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▼ An excursion to Hortobágy.



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◀ Egri Vár, Siege-play.



BORBAS 2016





BORBAS 2016





BORBAS 2016



BORBAS 2016



BORBAS 2016



Systematic Core Drilling

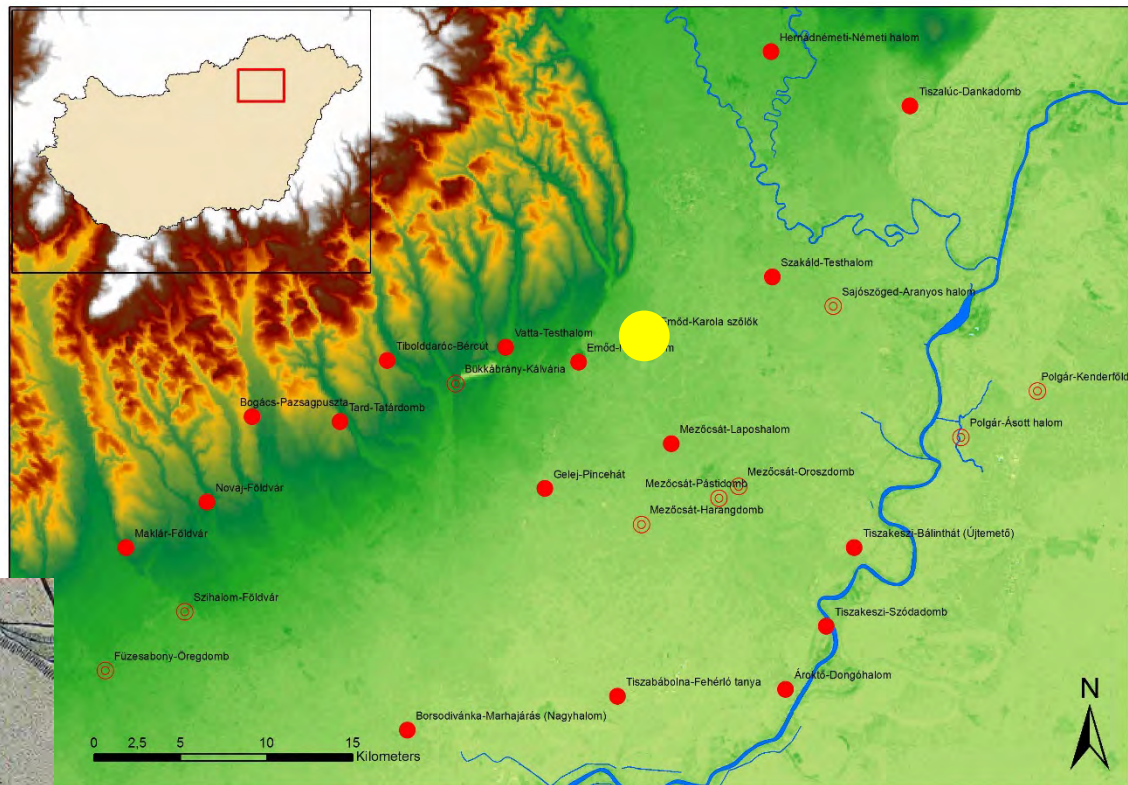
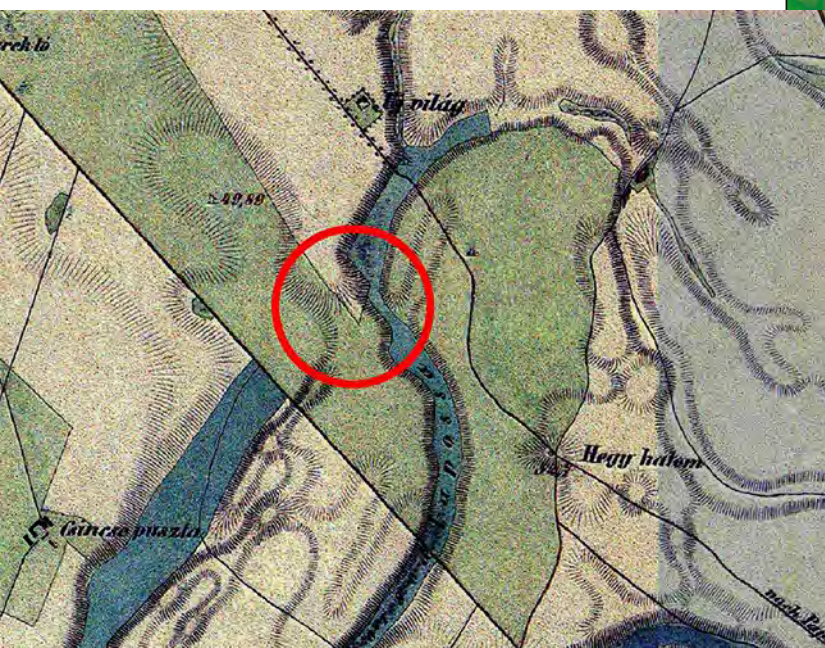
- ▶ Emőd-Karola szőlők
- ▶ Mezőcsát-Laposhalom
- ▶ Tard-Tatárdomb
- ▶ Tibolddaróc-Bércút
- ▶ Tiszakeszi-Szódadomb

Excavation

- ▶ Borsodivánka-Marhajárás (Nagyhalom)



► Emőd-Karola szőlők





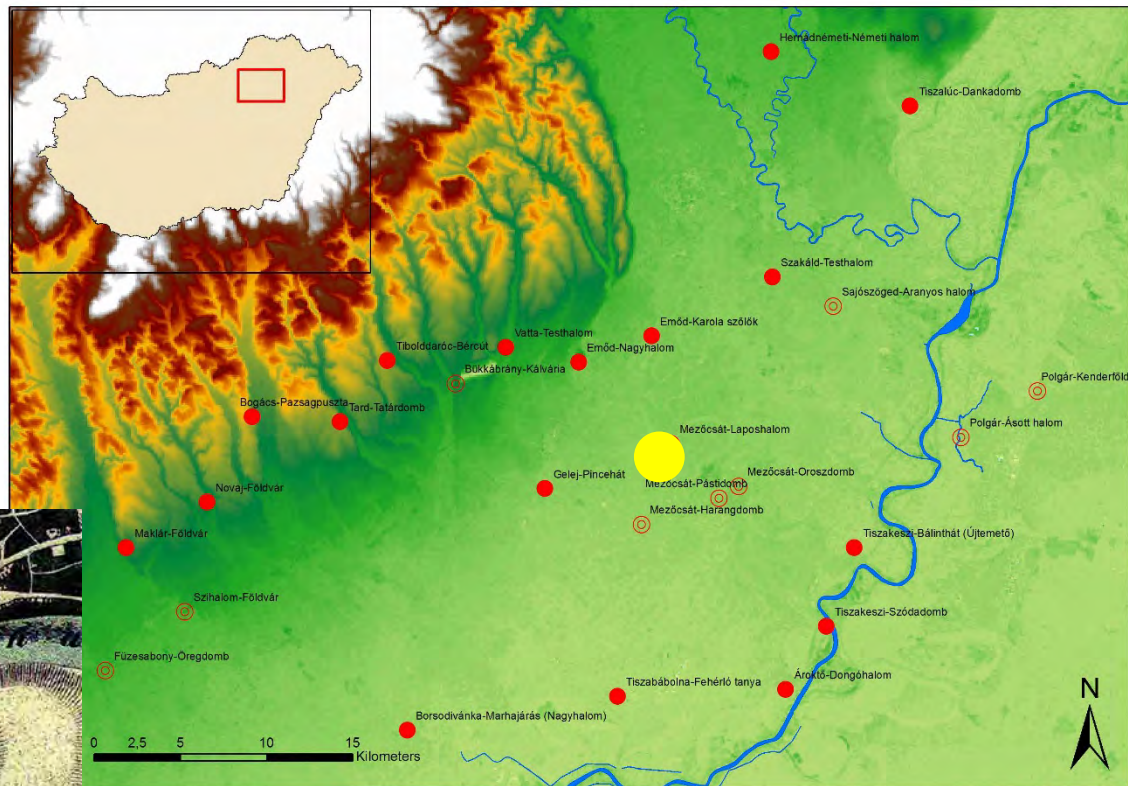
BORBAS 2017

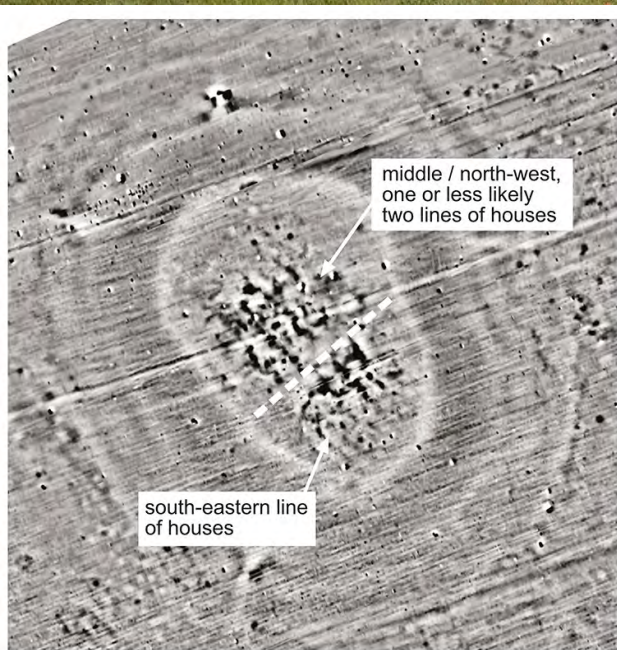
▲ First attempts at core drilling with the new equipment.



BORBAS 2017

► Mezőcsát-Laposhalom

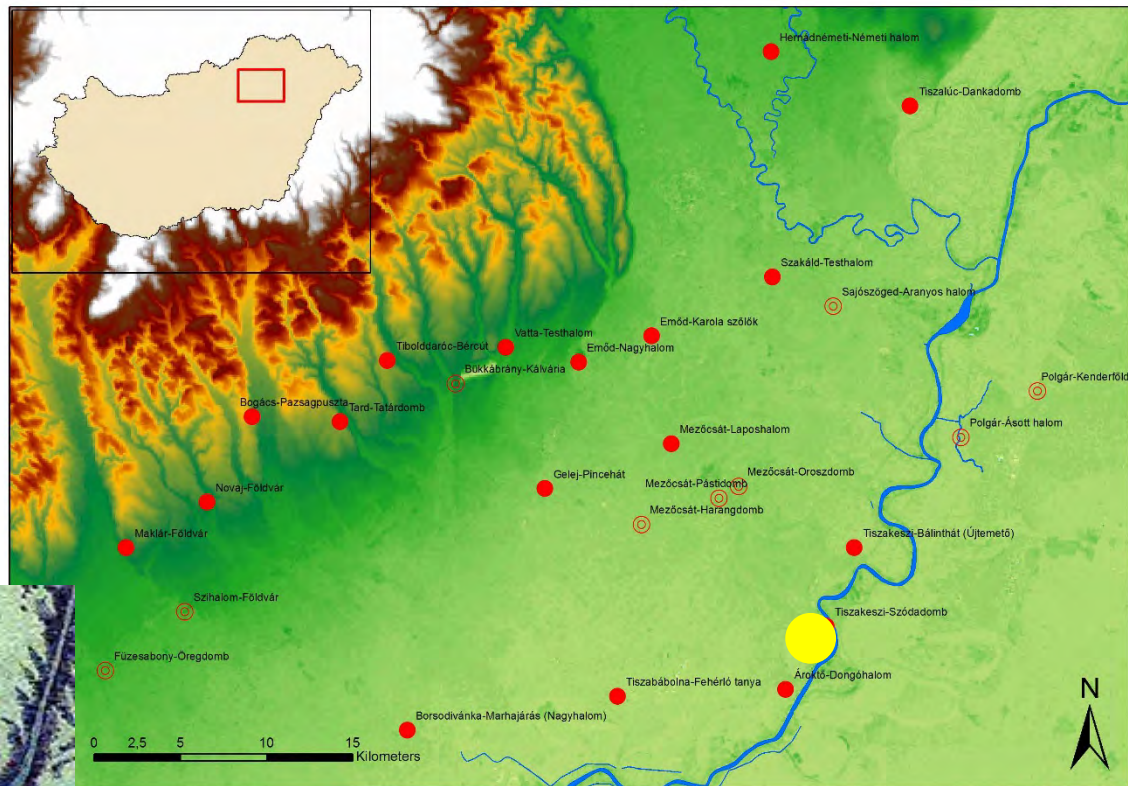


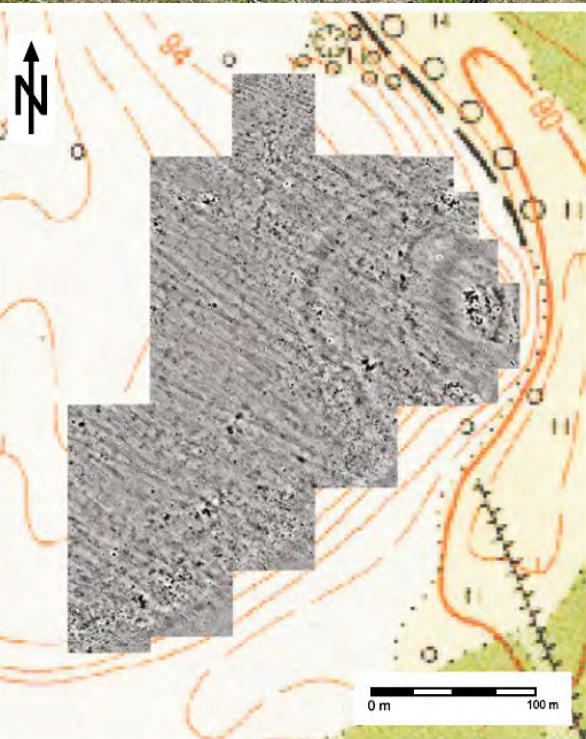


0 m 60 m

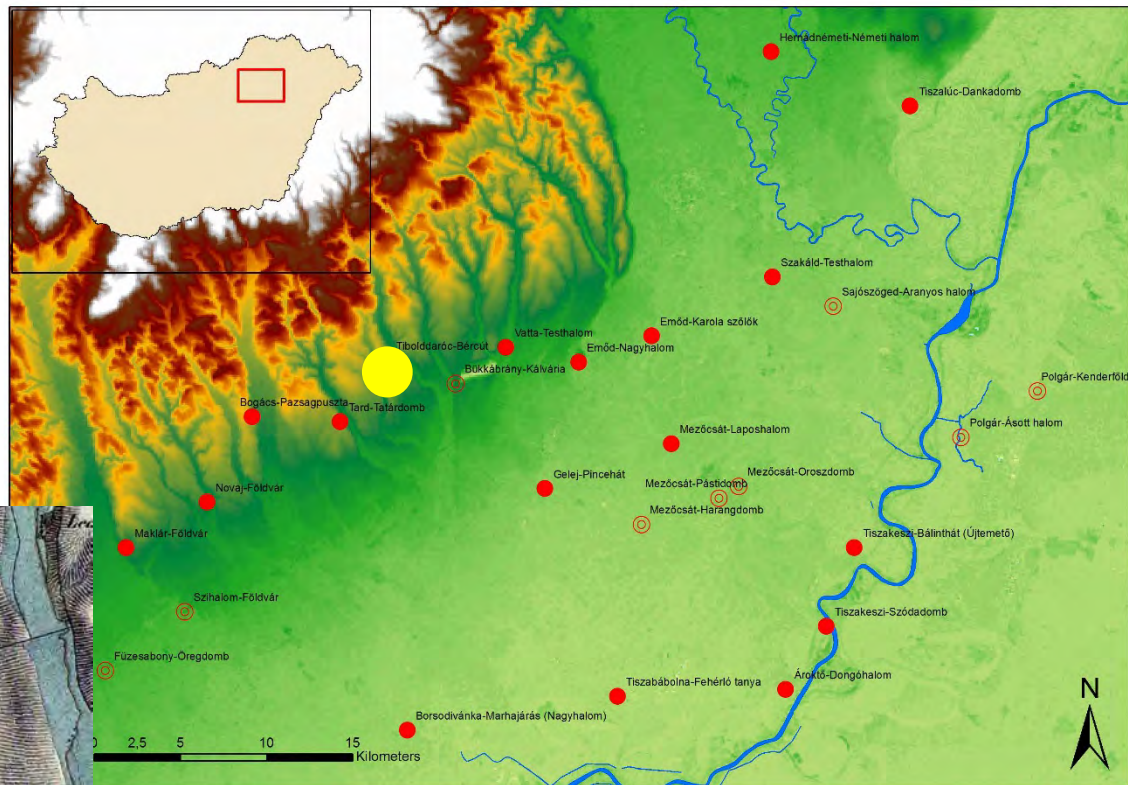
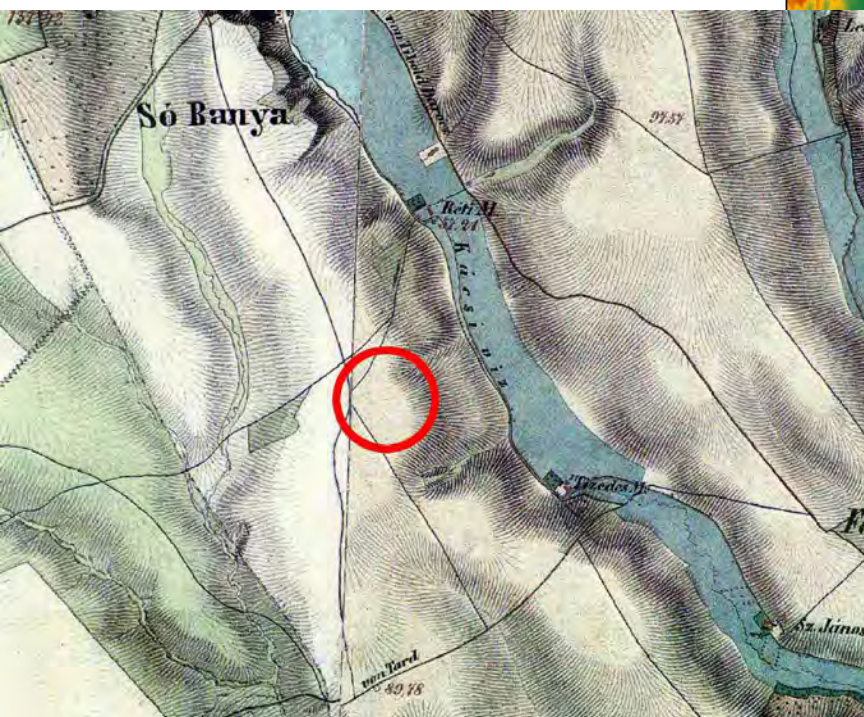


► Tiszakeszi-Szódadomb





► Tibolddaróc-Bércút





BORBAS 2017

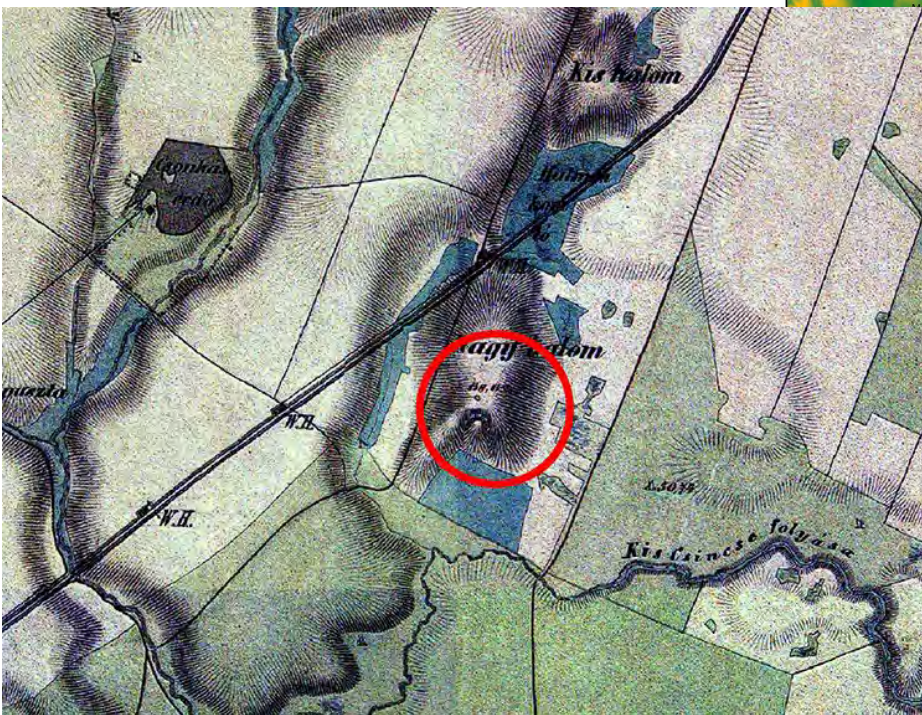
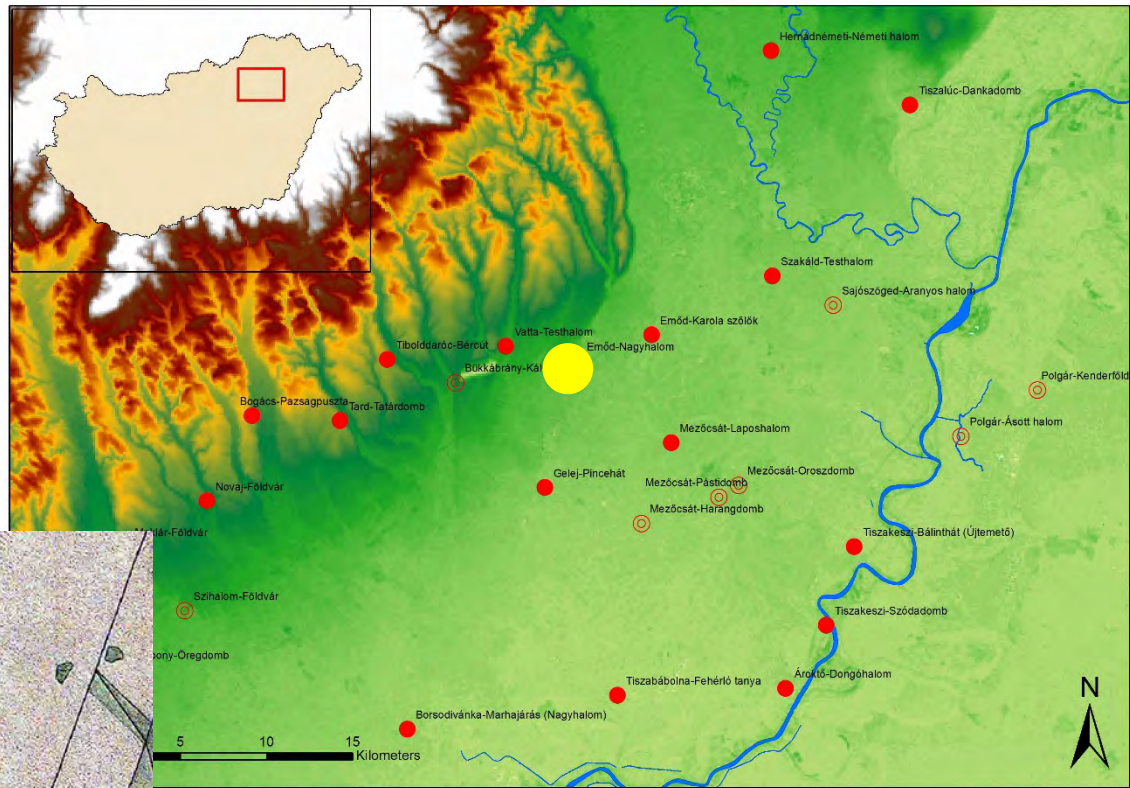


BORBAS 2017



BORBAS 2017

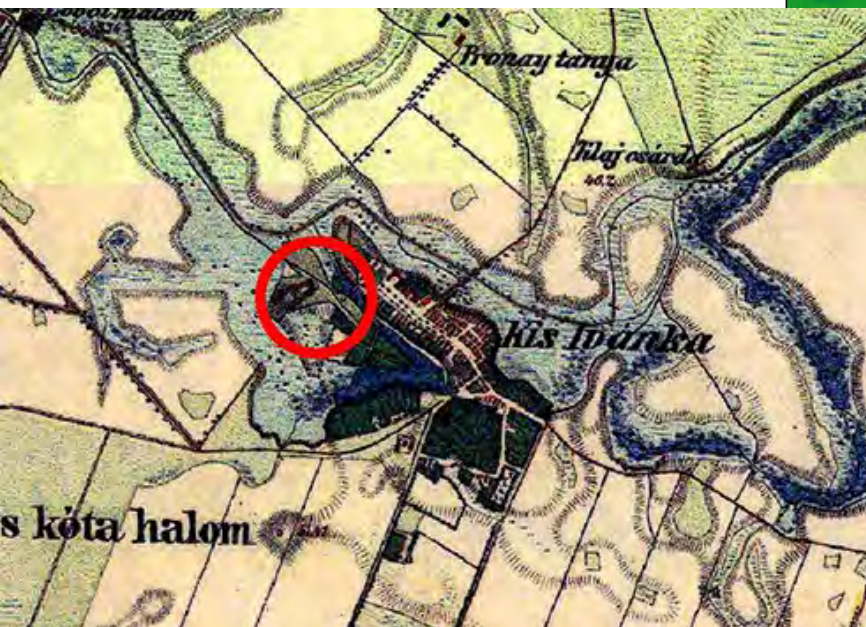
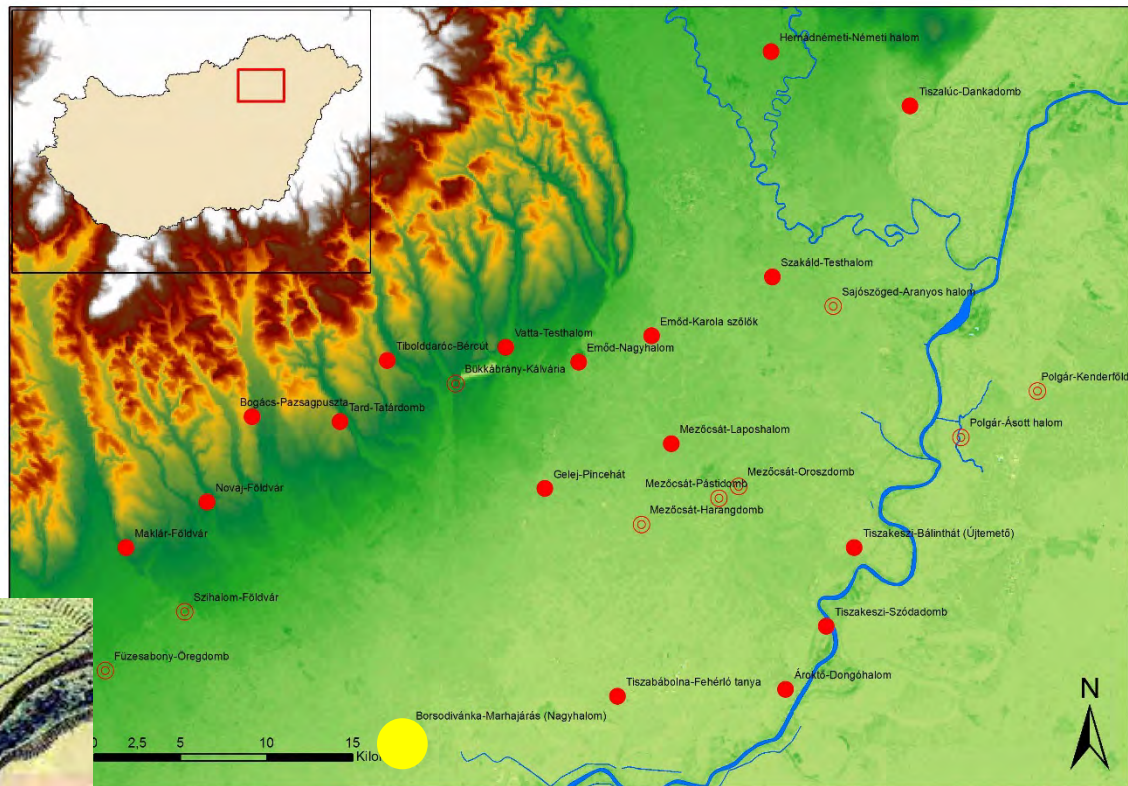
► Emőd-Nagyhalom





BORBAS 2017

► Borsodivánka-Marhajárás
(Nagyhalom)





BORBAS 2017



BORBAS 2017



BORBAS 2017

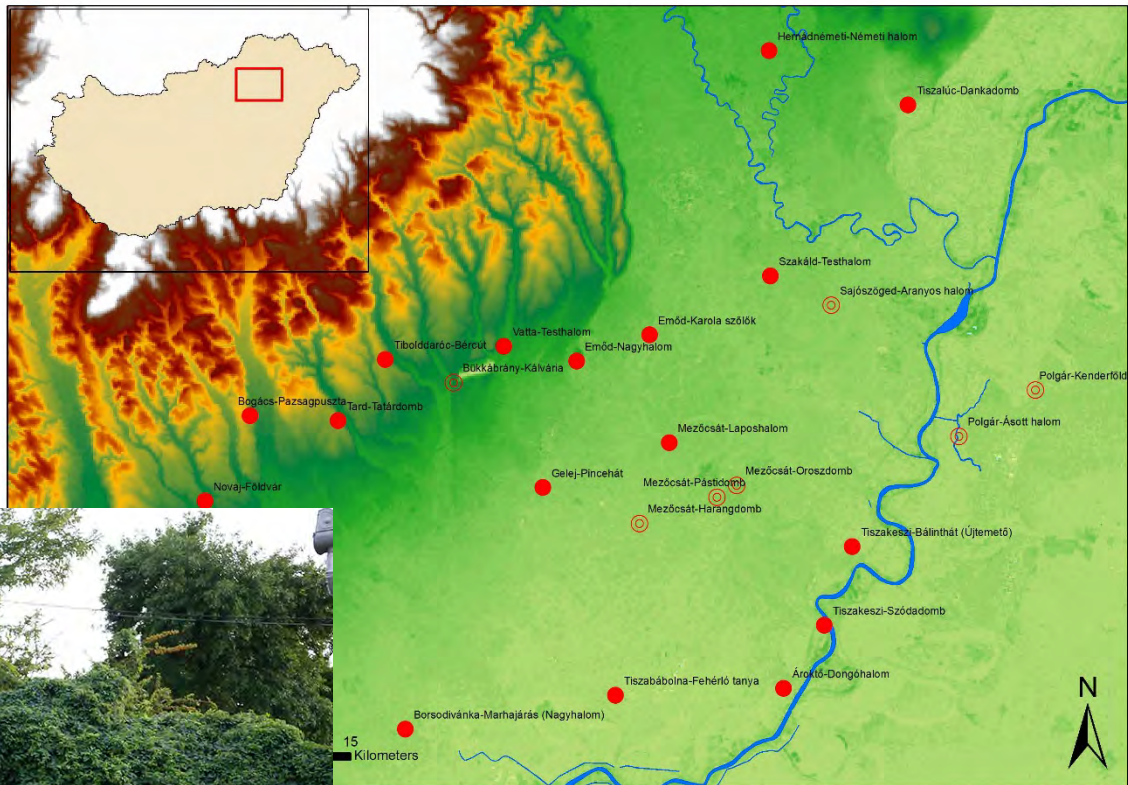


BORBAS 2017



BORBAS 2017

► Social Life on BORBAS Tells





BORBAS 2017



▲ Borsodivánka Mayor visiting the excavation



BORBAS 2017



BORBAS 2017



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BORBAS 2017



▲ The workshop of hearts to fix our drill cores.



BORBAS 2017



BORBAS 2017



Systematic Core Drilling

- ▶ Borsodivánka-Marhajárás (Nagyhalom)
- ▶ Emőd-Nagyhalom
- ▶ Tibolddaróc-Bércút

Surface Survey

- ▶ Tard-Tatárdomb

Excavation

- ▶ Borsodivánka-Marhajárás (Nagyhalom)



UNIVERSITÄTSFORSCHUNGEN ZUR PRÄHISTORISCHEN ARCHÄOLOGIE

Aus dem Institut für Ur- und Frühgeschichte der Universität zu Köln

Band 317

Borsod Region Bronze Age Settlement (BORBAS)

Catalogue of the Early to Middle Bronze Age
Tell Sites Covered by Magnetometry and
Surface Survey

von

Tobias L. Kienlin
Klára P. Fischl
Tamás Pusztai

2018



BORBAS 2018

VERLAG DR. RUDOLF HABELT GMBH, BONN



Ausgrabung auf der bronzezeitlichen Tell- Siedlung von Borsodivanka (Nordost-Ungarn)



**Geländepraktikum
Sa., 15. September bis
So., 7. Oktober 2018**

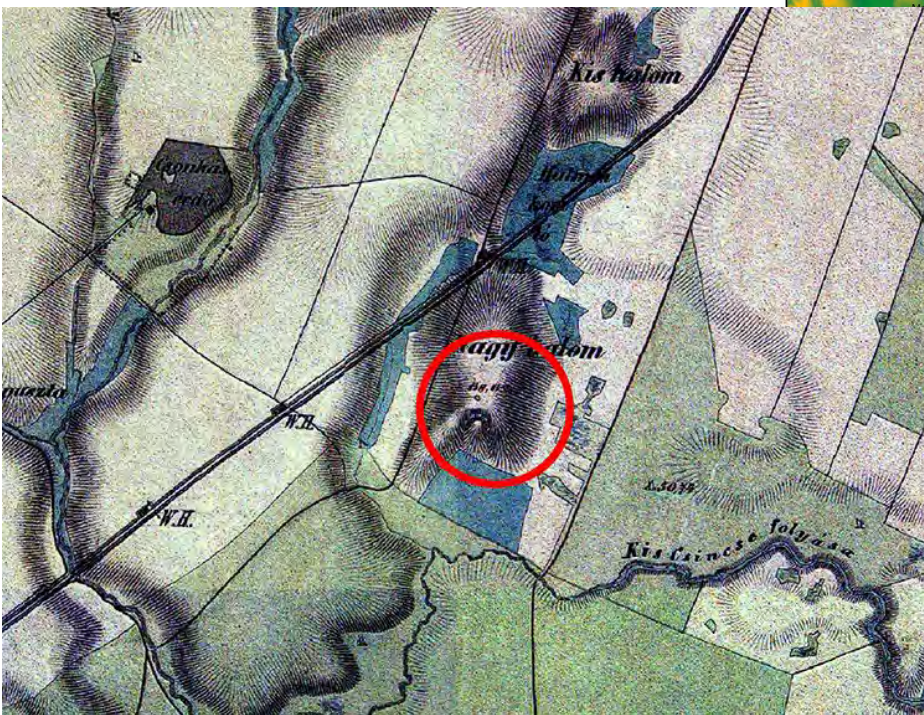
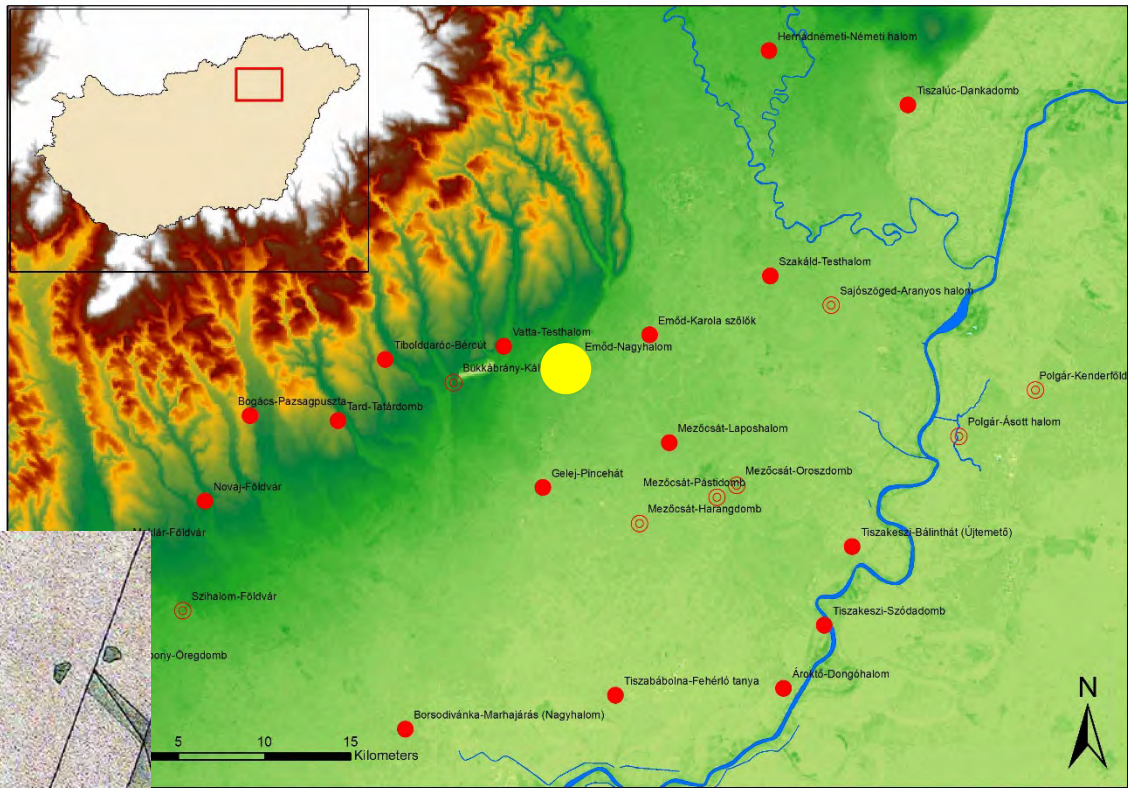
Aus organisatorischen Gründen kann in diesem Jahr als Geländepraktikum nur eine dreiwöchige Kampagne zu dem oben genannten Termin angeboten werden. Im Rahmen der Kampagne wird die Ausgrabung in den oberen Schichten der Tellsiedlung von Borsodivanka fortgesetzt. Neben der archäologischen Dokumentation der Siedlungsschichten und Befunde sollen Proben für die naturwissenschaftliche Datierung und paläobotanische Untersuchungen entnommen werden.

Nachdem im vergangenen Jahr die geomagnetische Prospektion auf den bronzezeitlichen Siedlungen der Borsodebene zwischen Bükk-Gebirge und Theiss weitgehend abgeschlossen wurde, stehen in diesem Projektteil nur noch einzelne Nacharbeiten an. Statt dessen wird das 2017 begonnene systematische Bohrprogramm auf den zuvor prospektierten Siedlungshügeln fortgesetzt.

Das Geländepraktikum findet im Rahmen eines Projekts des Instituts für Ur- und Frühgeschichte der Universität zu Köln, der Universität und des Herman Otto Museums in Miskolc statt. Sie haben Gelegenheit, die Grundzüge der Schichtgrabung, der geomagnetischen Prospektion und der Handhabung einer Rammkernsonde zur Entnahme von Bohrkernen zu erlernen. Sie erhalten eine Einführung in die Archäologie der Bronzezeit des Karpatenbeckens.

Weitere Informationen zu unserem Projekt entnehmen Sie bitte unseren Publikationen auf academia.edu.

► Emőd-Nagyhalom





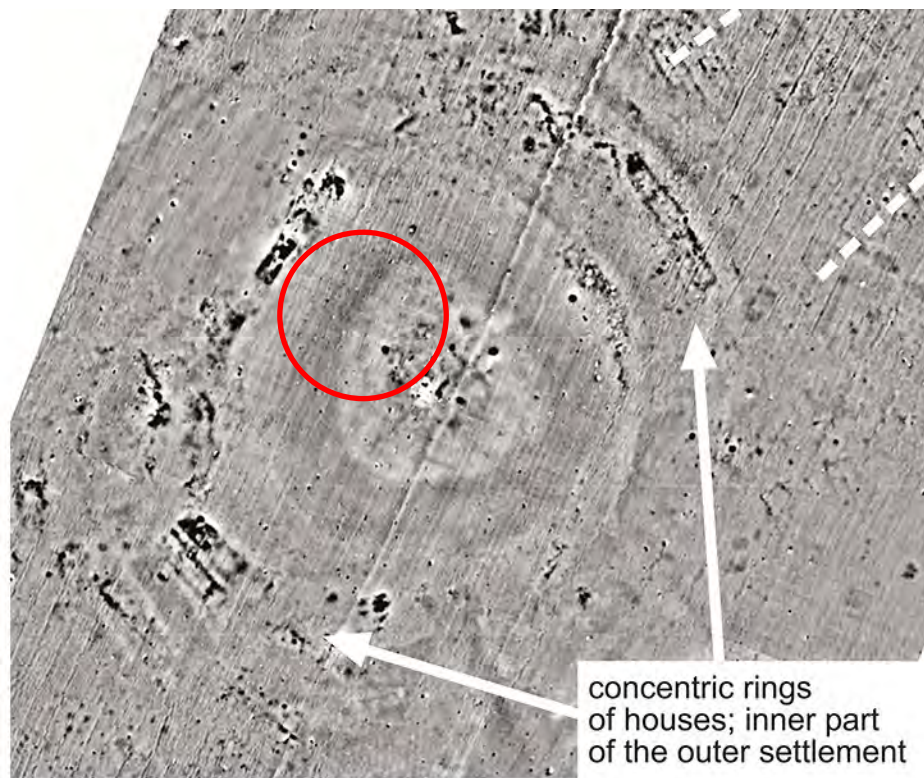
BORBAS 2018



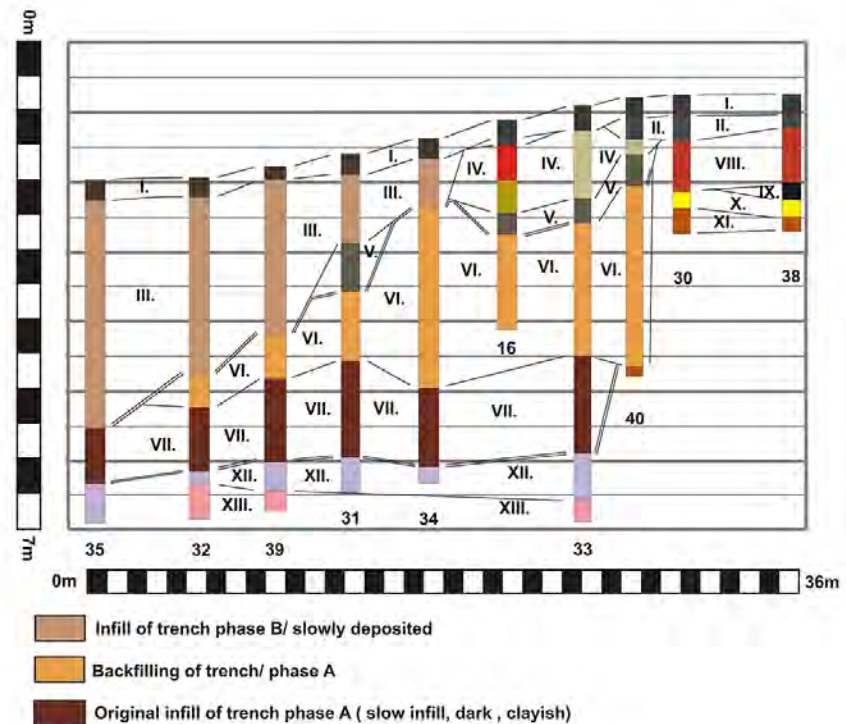
BORBAS 2018



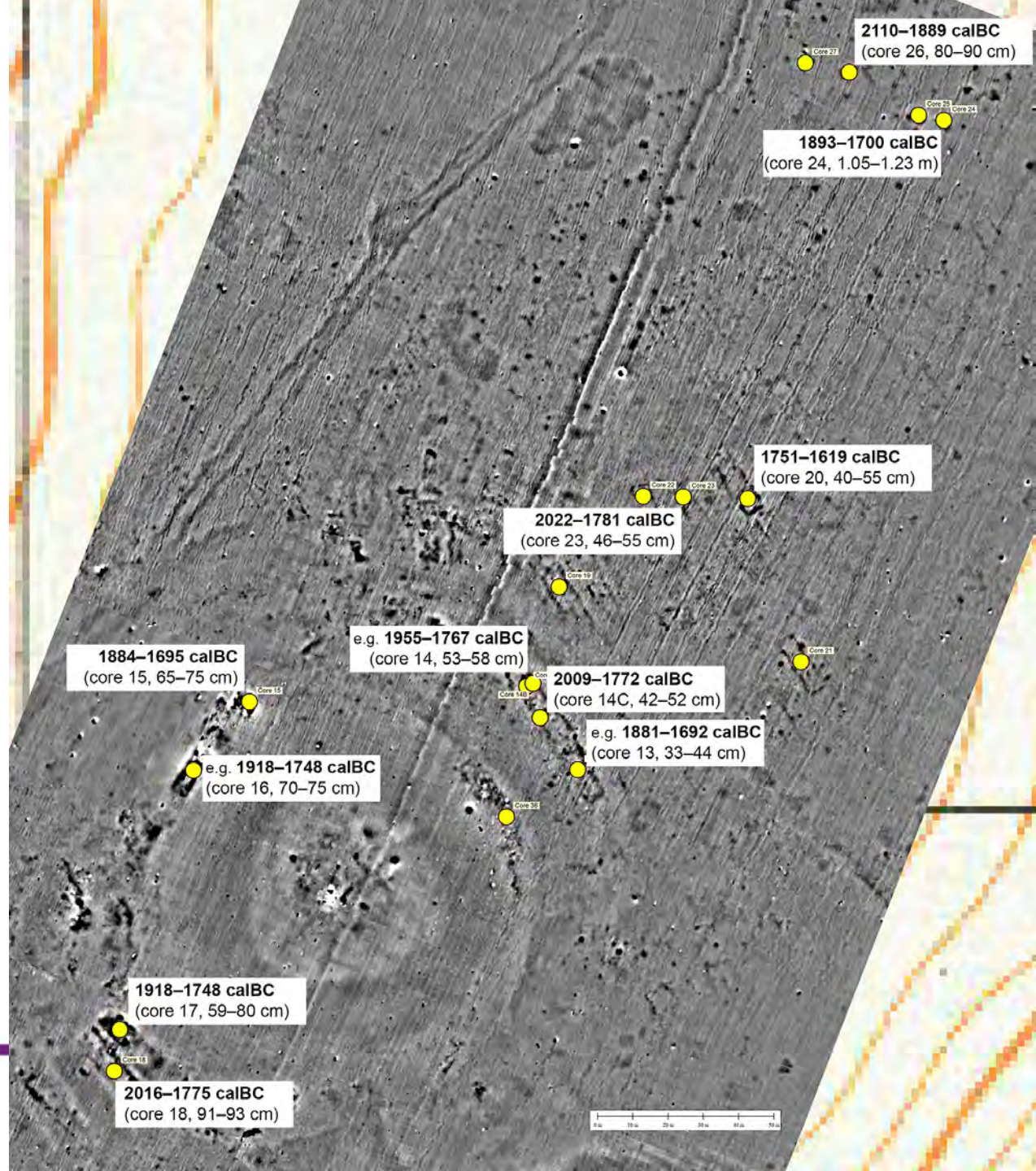
BORBAS 2018



► Emőd-Nagyhalom. Profile through the north-western section of the ditch and interpretation of the stratigraphy.



► C14 dates from various houses in the outer settlement of Emőd-Nagyhalom.





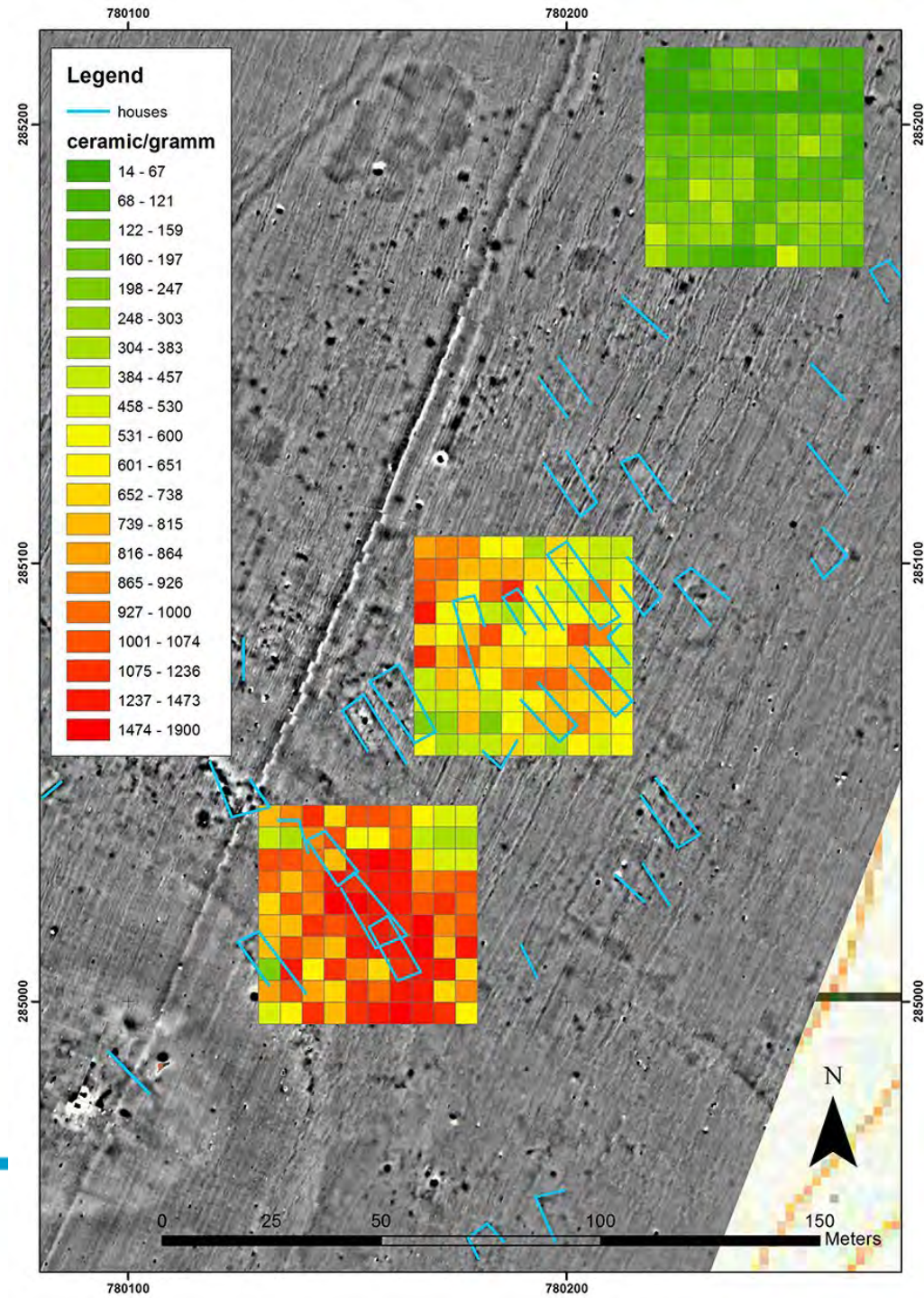
BORBAS 2018



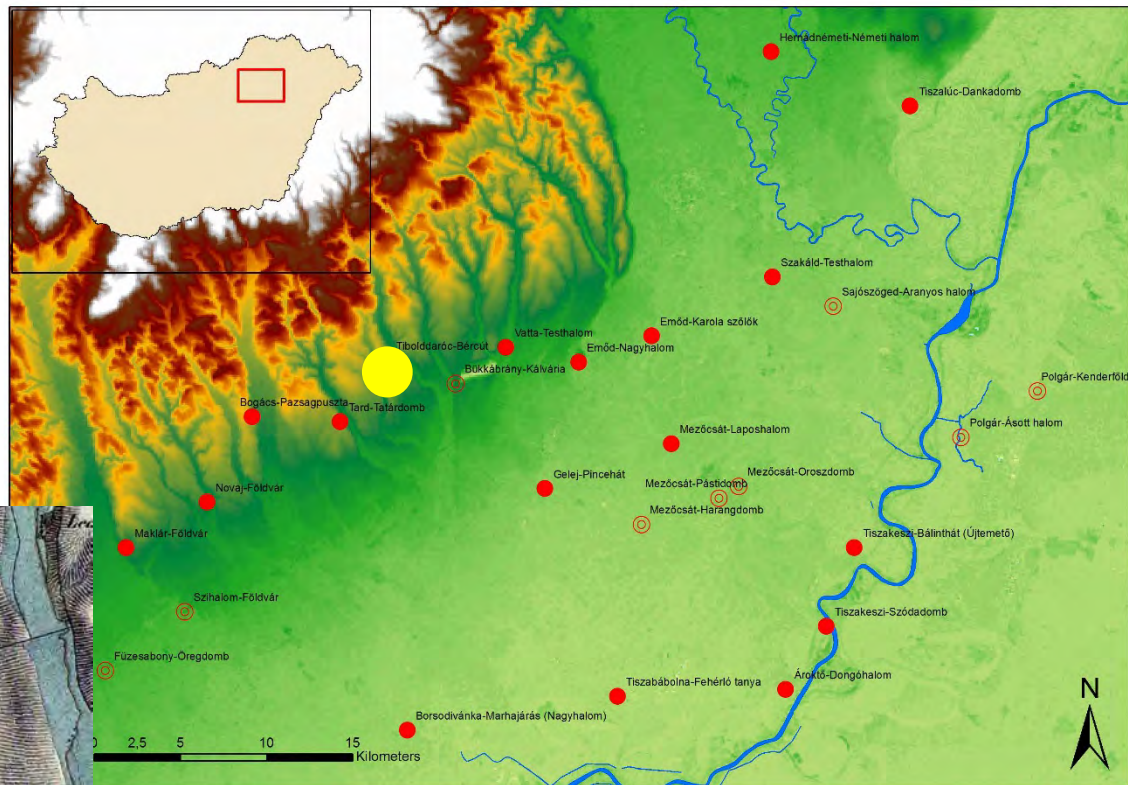
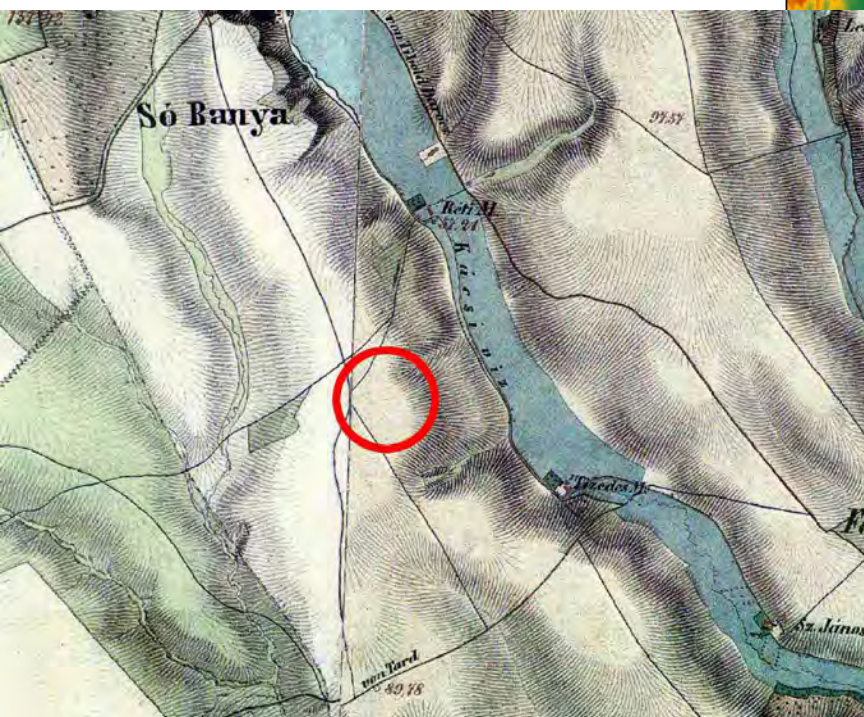
BORBAS 2018

► Emőd-Nagyhalom. Results of the surface survey 2018.

BORBAS 2018



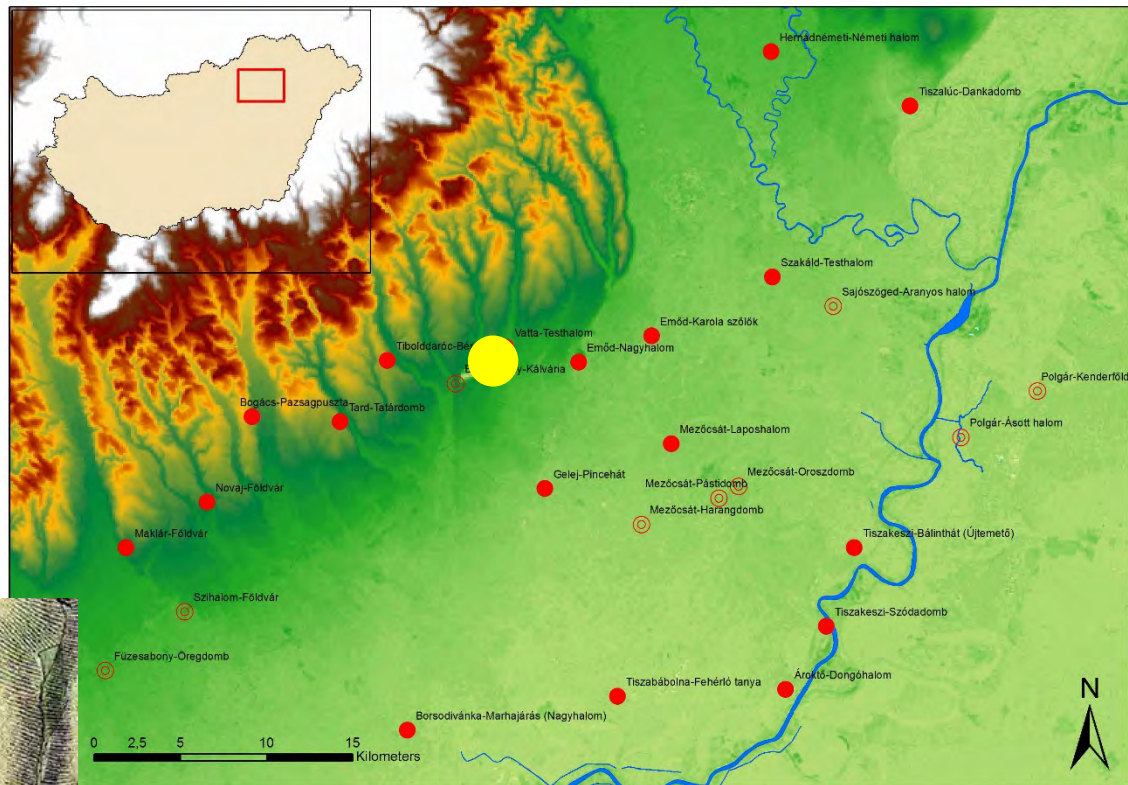
► Tibolddaróc-Bércút





BORBAS 2018

► Vatta-Testhalom

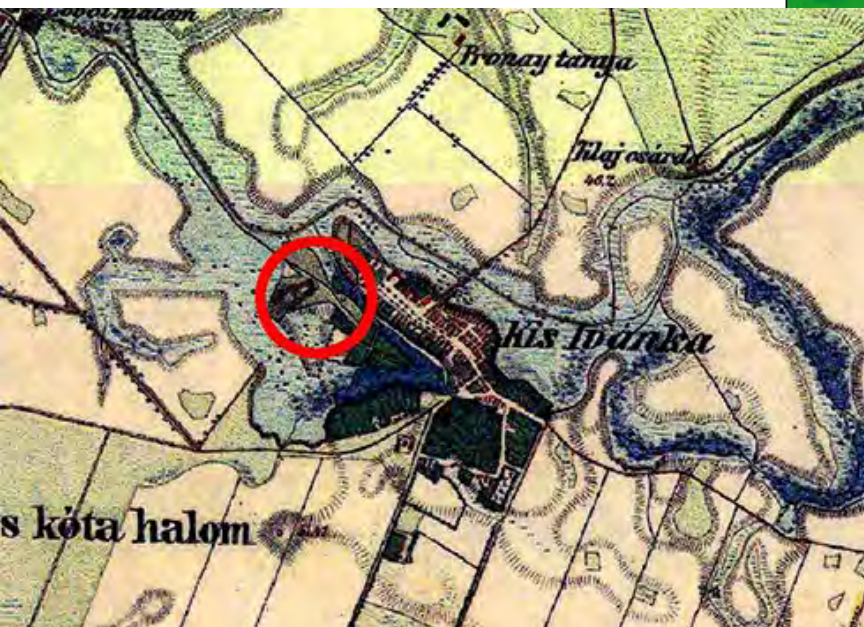
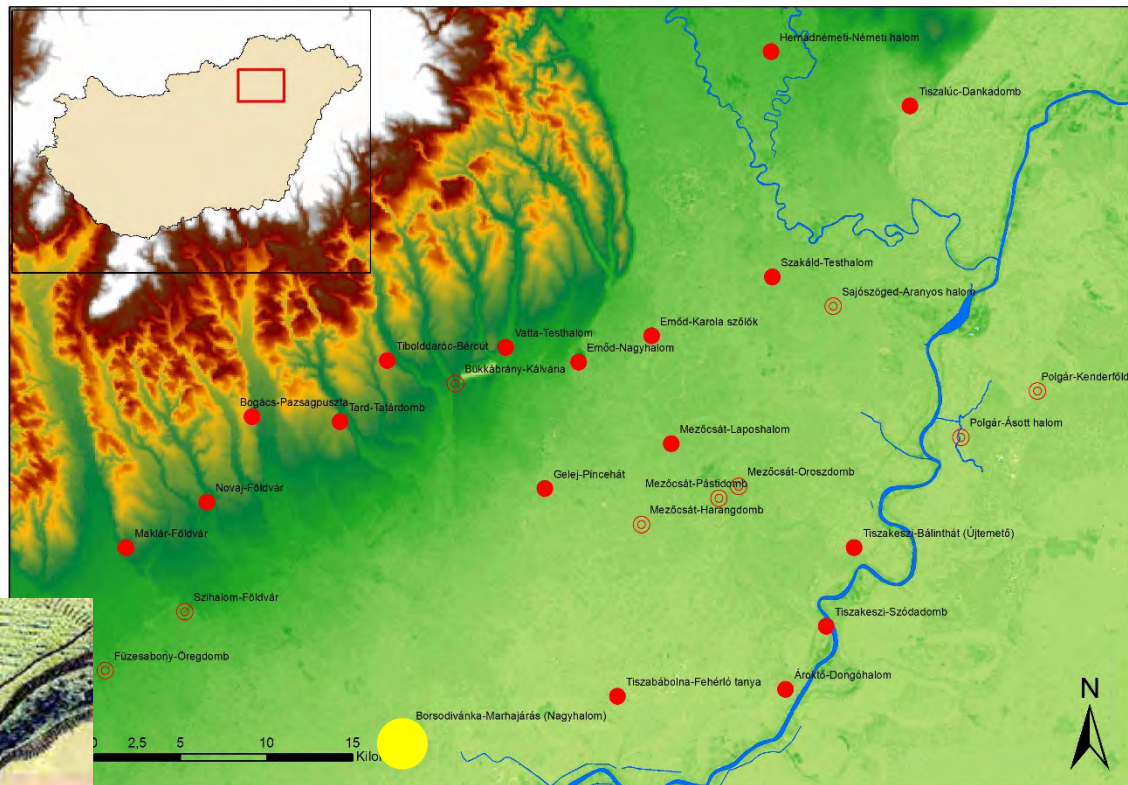


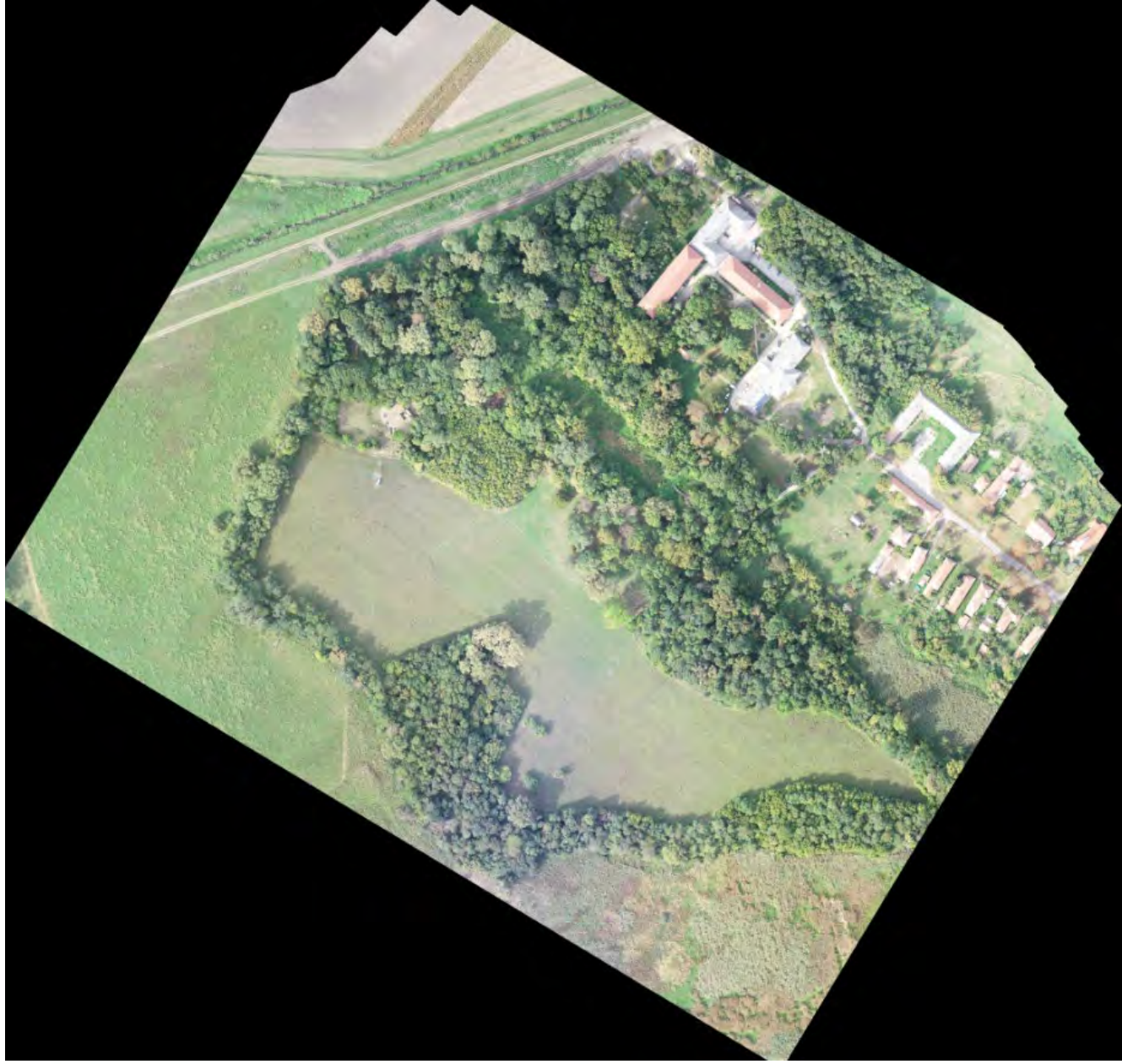


▲ ► Vatta-Testhalom.
Rescue excavation prior to the
construction of drainage
facilities of the nearby open
cast mine.



► Borsodivánka-Marhajárás
(Nagyhalom)





BORBAS 2018



BORBAS 2018



BORBAS 2018



BORBAS 2018



BORBAS 2018



BORBAS 2018

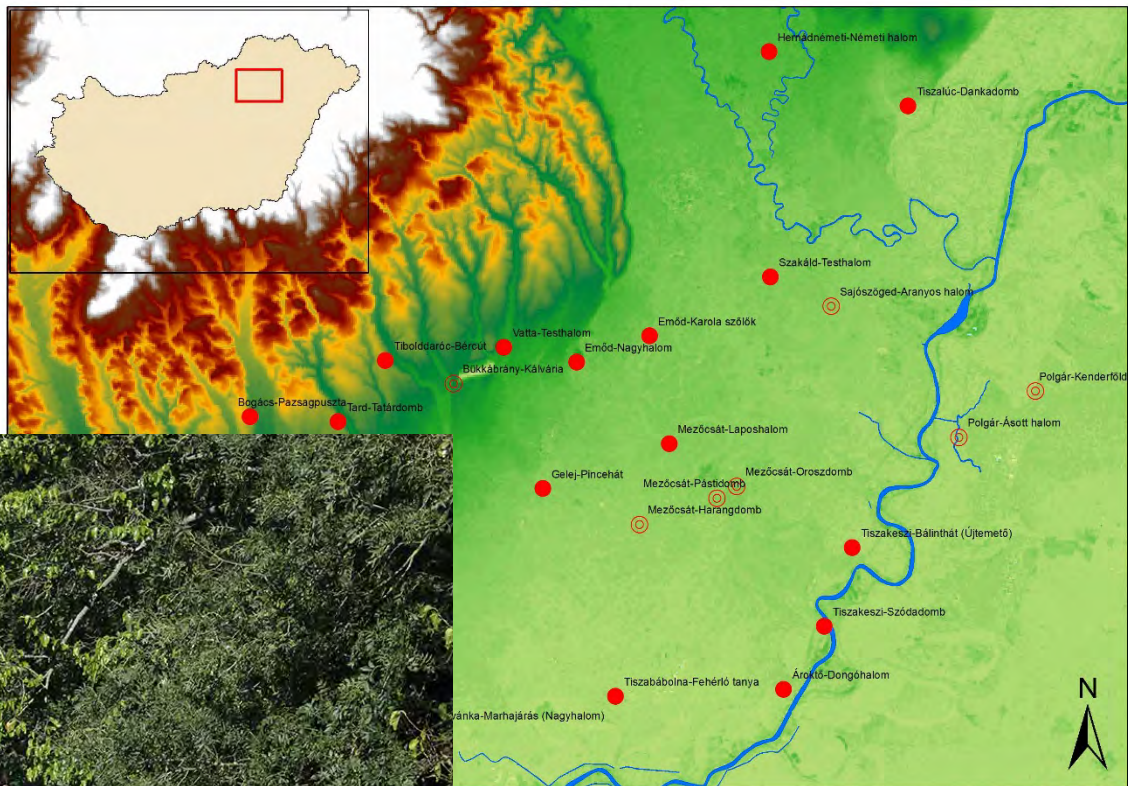


BORBAS 2018



BORBAS 2018

► Social Life on BORBAS Tells





▲ Conference 'Settlement layouts, system and structure of the Otomani-Füzesabony Cultural Complex' in Miskolc (7th–9th June 2018)



BORBAS 2018



BORBAS 2018

▲ An excursion to the rescue excavation of the Middle Bronze Age cemetery at Encs.



BORBAS 2018



BORBAS 2018





Systematic Core Drilling

- ▶ Emőd-Karola szőlők
- ▶ Hernádnémeti-Németihalom
- ▶ Mezőcsát-Laposhalom
- ▶ Mezőkeresztes-Laposhalom (Late Neolithic)
- ▶ Sajószöged-Aranyoshalom
- ▶ Szakáld-Testhalom
- ▶ Tard-Tatárdomb
- ▶ Tiboledaróc-Bércút

Magnetometer Survey

- ▶ Sajószöged-Aranyoshalom

Post-Excavation (Find Processing 2015–2018)

- ▶ Borsodivánka-Marhajárás (Nagyhalom)

UNIVERSITÄTSFORSCHUNGEN ZUR PRÄHISTORISCHEN ARCHÄOLOGIE

Aus dem Institut für Ur- und Frühgeschichte der Universität zu Köln

Band 345

Beyond Divides – The Otomani-Füzesabony Phenomenon

Current Approaches to Settlement and Burial in the
North-eastern Carpathian Basin and Adjacent Areas

edited by

Klara P. Fischl
Tobias L. Kienlin

2019

BORBAS 2019

VERLAG DR. RUDOLF HABELT GMBH, BONN



Geländepraktikum auf bronzezeitlichen Tellsiedlungen in Nordost-Ungarn (BORBAS)



Sa., 10. August bis
So., 8. September 2019

BORBAS (Borsod Region Bronze Age Settlement) ist ein Kooperationsprojekt des Instituts für Ur- und Frühgeschichte der Universität zu Köln und der Universität Miskolc in Nordost-Ungarn, in dessen Rahmen seit 2012 die bronzezeitlichen Tellsiedlungen der Borsod-Ebene zwischen Bükk-Gebirge und Theiss untersucht werden.

Nach dem weitgehenden Abschluss der geomagnetischen Prospektion führen wir neben der Ausgrabung auf dem Siedlungshügel von Borsodivanka seit 2017 ein systematisches Bohrprogramm auf den zuvor prospektierten Siedlungshügeln durch, um das chronologische und funktionale Verhältnis der verschiedenen Siedlungsteile – Tell und Außensiedlung – zu klären.

Im Rahmen unserer diesjährigen Sommerkampagne bieten wir während des oben genannten Zeitraums die Möglichkeit zur Teilnahme an der Fundbearbeitung des Materials aus Borsodivanka und den Bohrungen auf verschiedenen Fundstellen der Borsod-Ebene.

Weitere Informationen zu unserem Projekt entnehmen Sie bitte unseren Publikationen auf academia.edu.

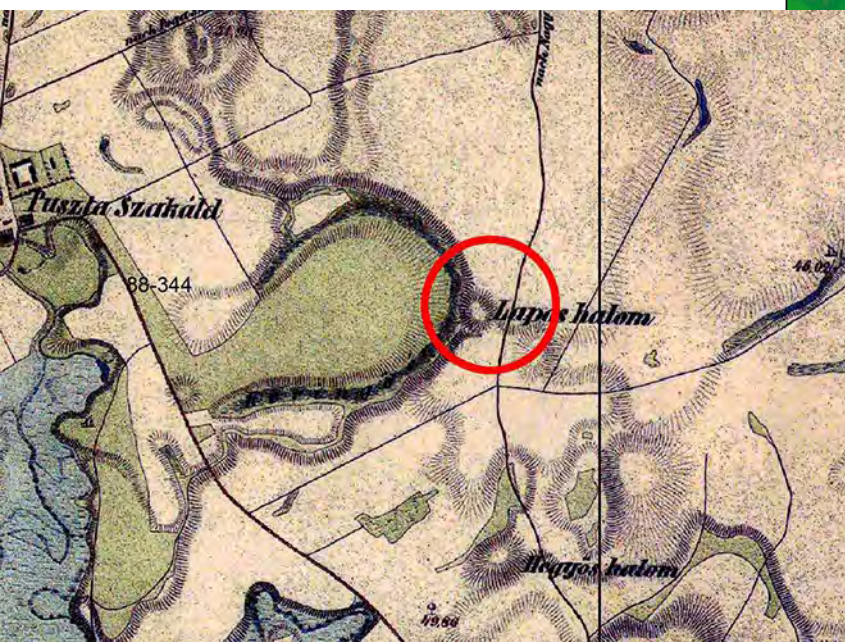
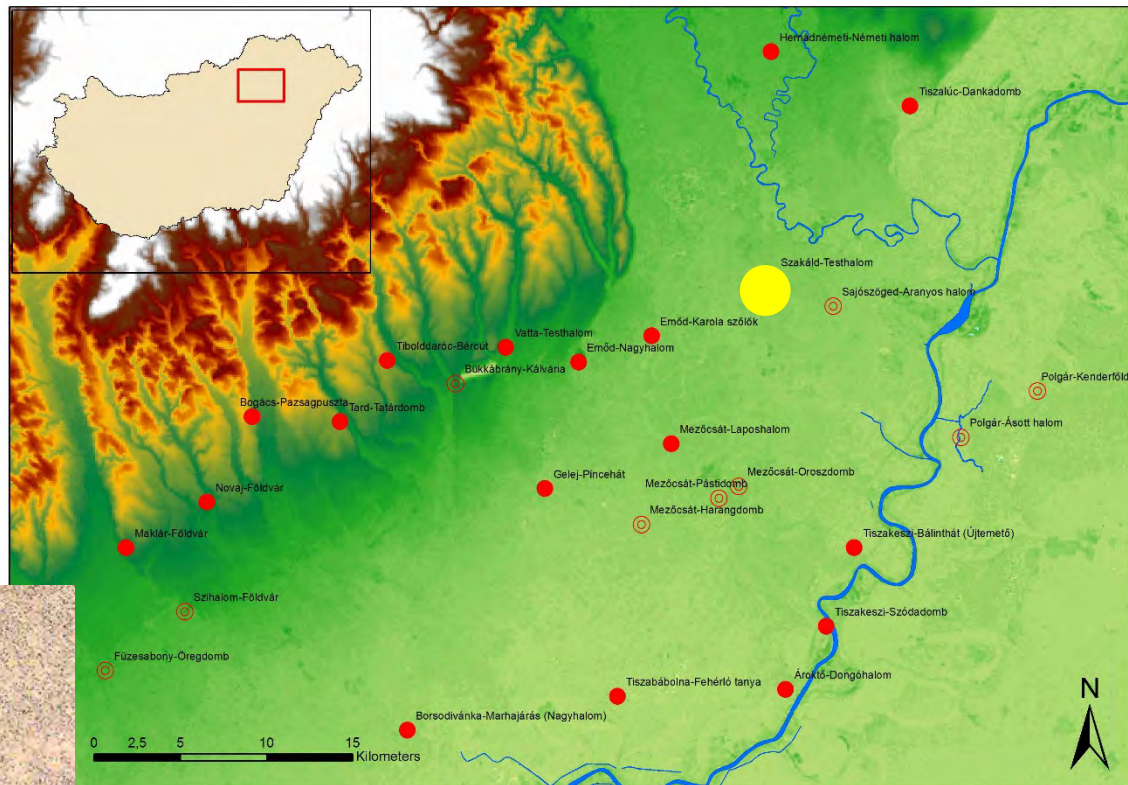
Die Anzahl der Teilnehmer ist beschränkt. Interessenten bitten wir, sich per e-mail unter Angabe ihrer Semesterzahl und Geländeerfahrung mit uns in Verbindung zu setzen. Die Anreise, Unterkunft und Verpflegung an Ort und Stelle sind umsonst. Mit der Teilnahme an der Kampagne ist der Erwerb eines Praktikumsnachweises (B.A./M.A.) verbunden.

BORBAS 2019

Prof. Dr. Tobias L. Kienlin – Dr. Klára P. Fischl

tkienlin@uni-koeln.de – <https://uni-koeln.academia.edu/TobiasKienlin>

► Szakáld-Testhalom





BORBAS 2019

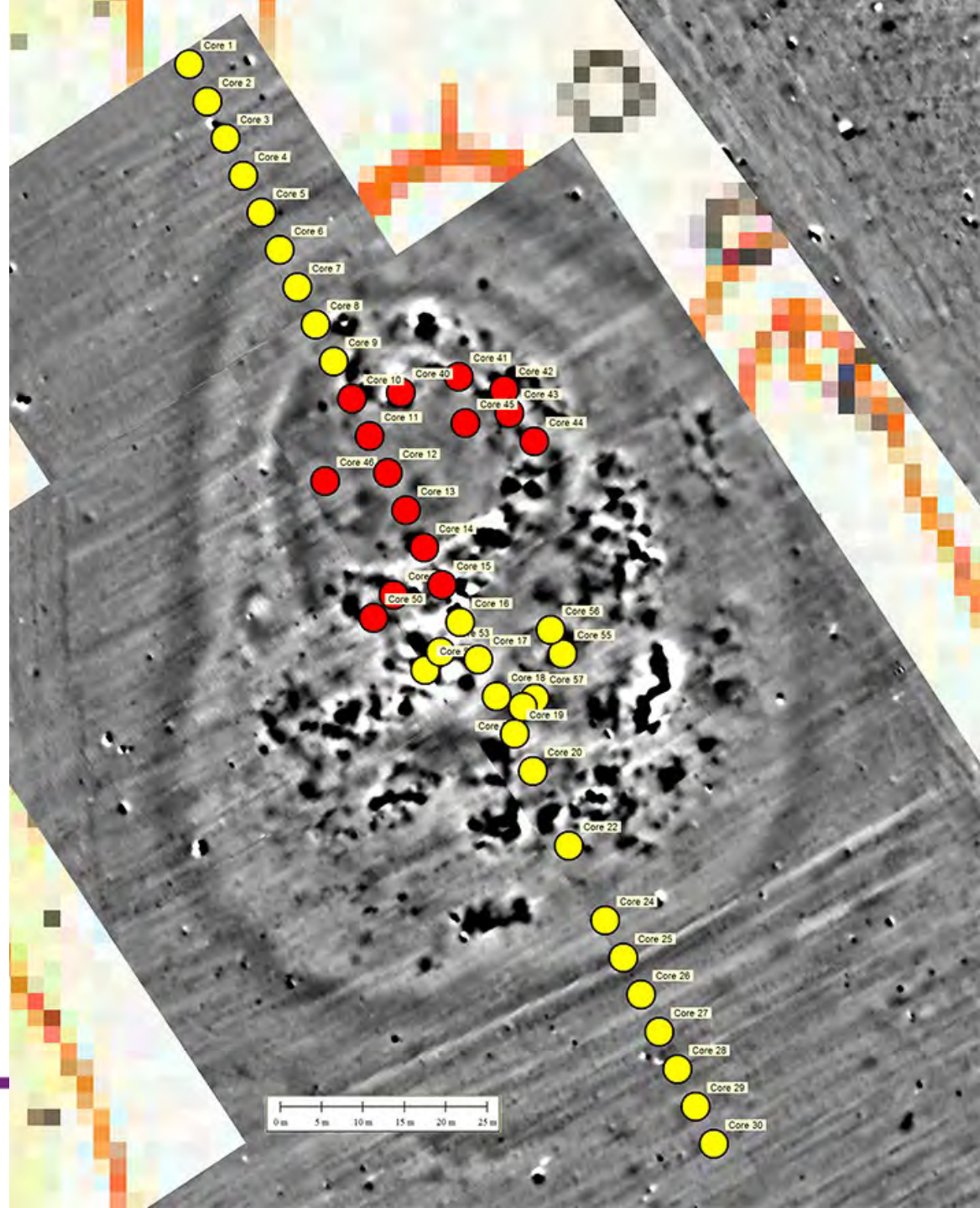


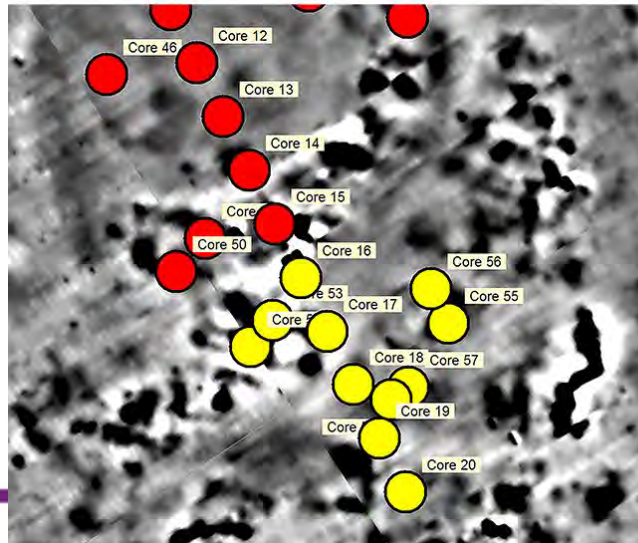
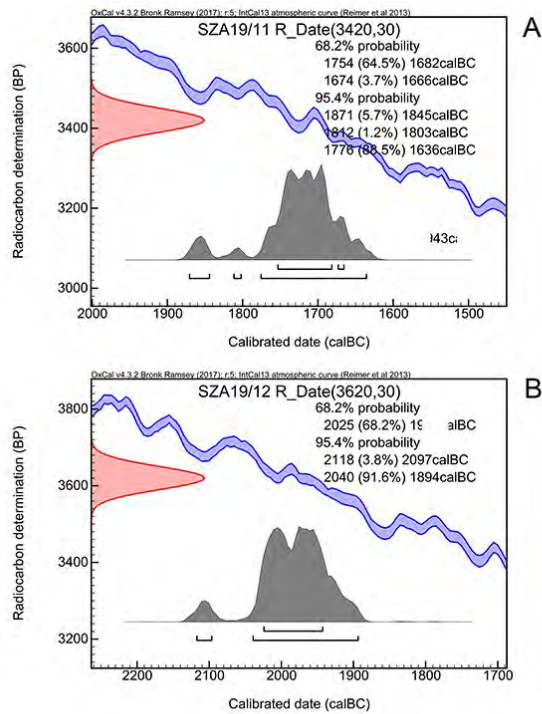
BORBAS 2019



BORBAS 2019

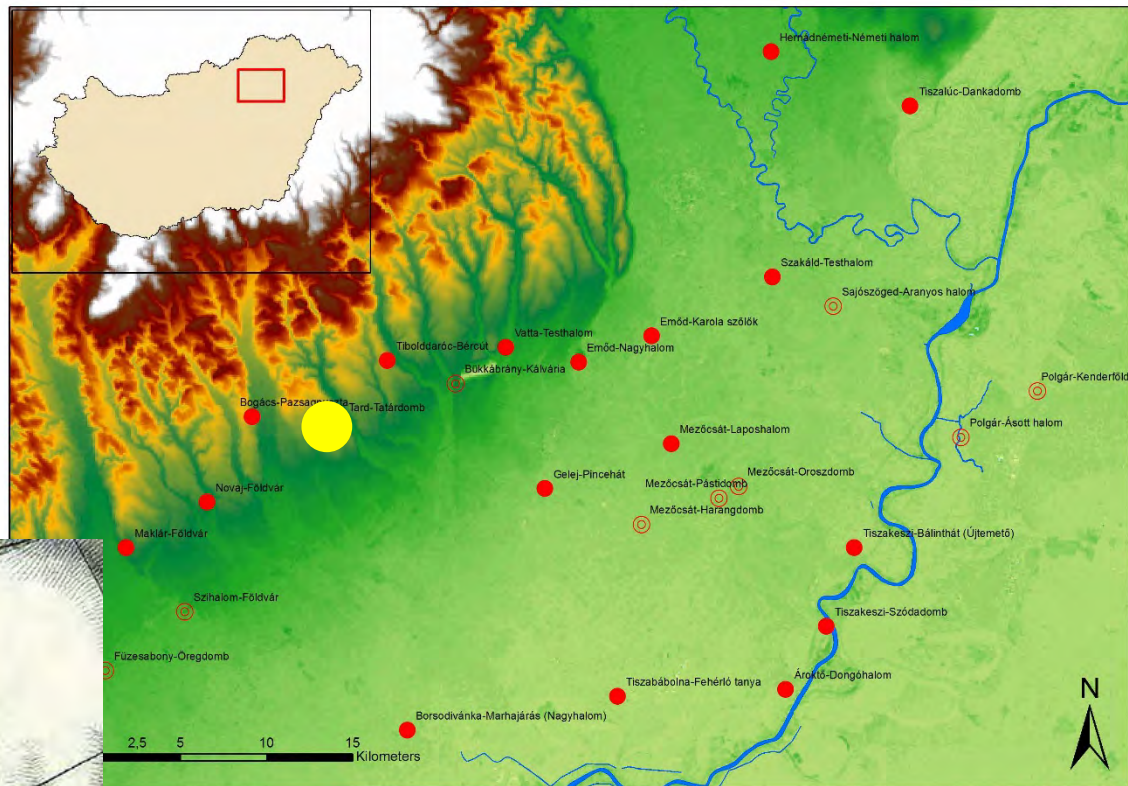
► Szakáld-Testhalom.
The location of the cores in the
inner tell part of the site.





► Szakáld-Testhalom.
Two radiocarbon dates from
various depths of core 15.

► Tard-Tatárdomb

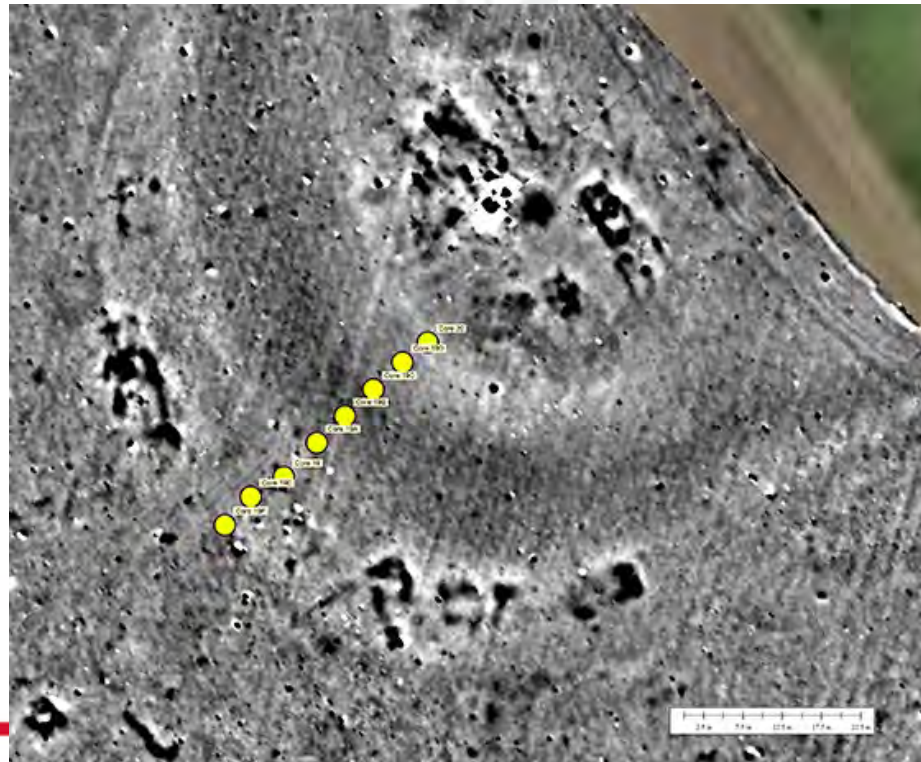
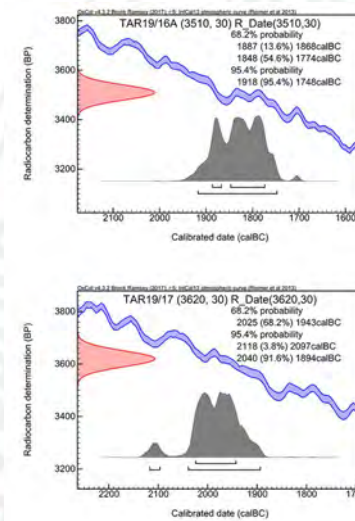






BORBAS 2019

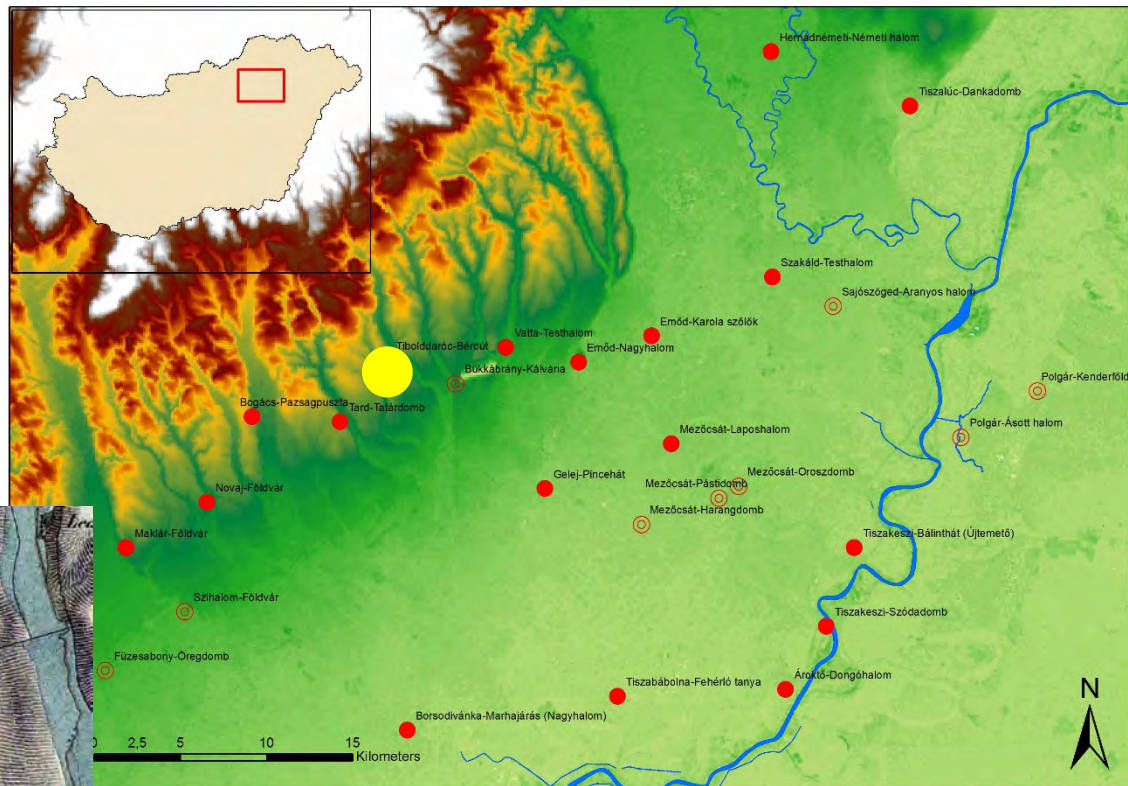
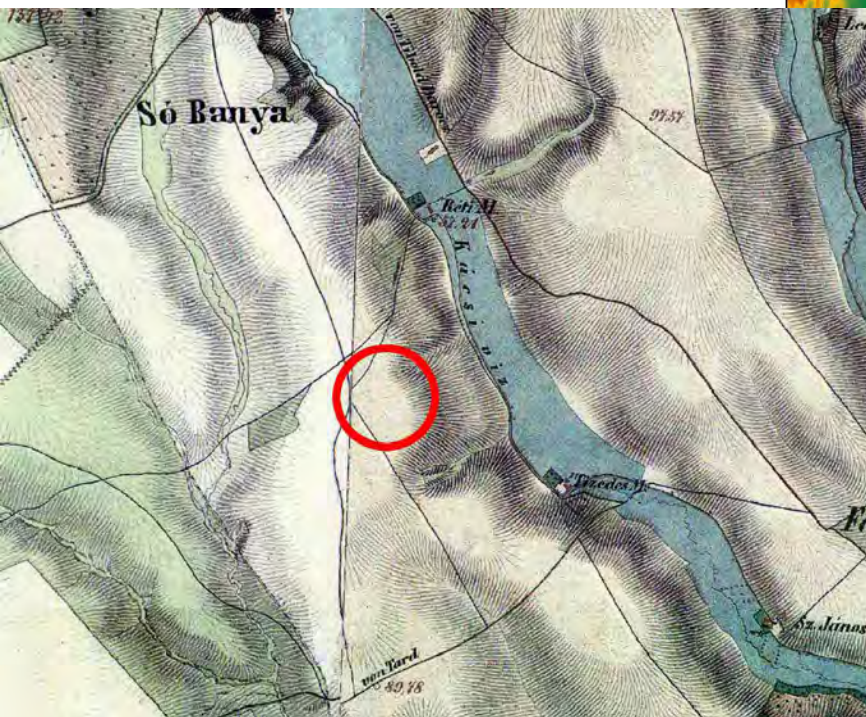
► Tard-Tatárdomb. The stratigraphic sequence in core 19 in the south-western section of the main enclosure and two radiocarbon dates obtained from it.



► Tard-Tatárdomb. Radiocarbon dates from houses in the outer settlement mapped on the magnetometry of the site.



► Tibolddaróc-Bércút





BORBAS 2019



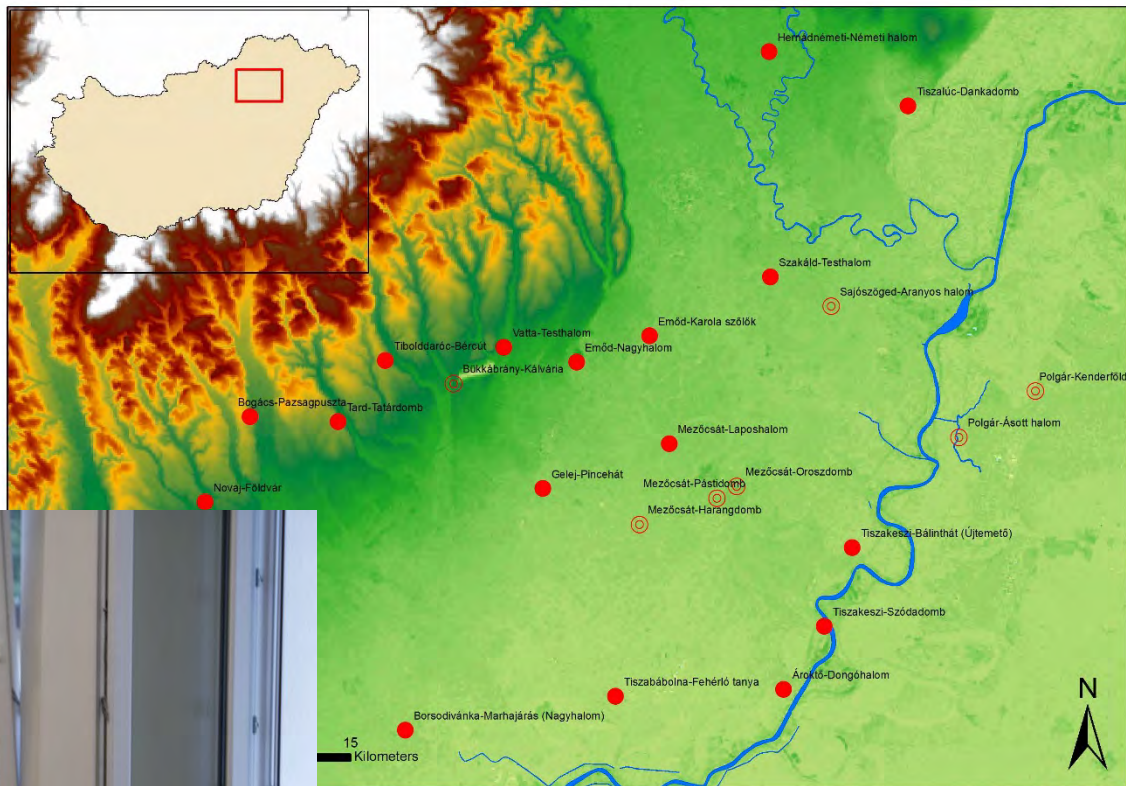
BORBAS 2019



BORBAS 2019



► Social Life on BORBAS Tells





BORBAS 2019



BORBAS 2019



BORBAS 2019



BORBAS 2019



Excavation

► Borsodivánka-Marhajárás (Nagyhalom)



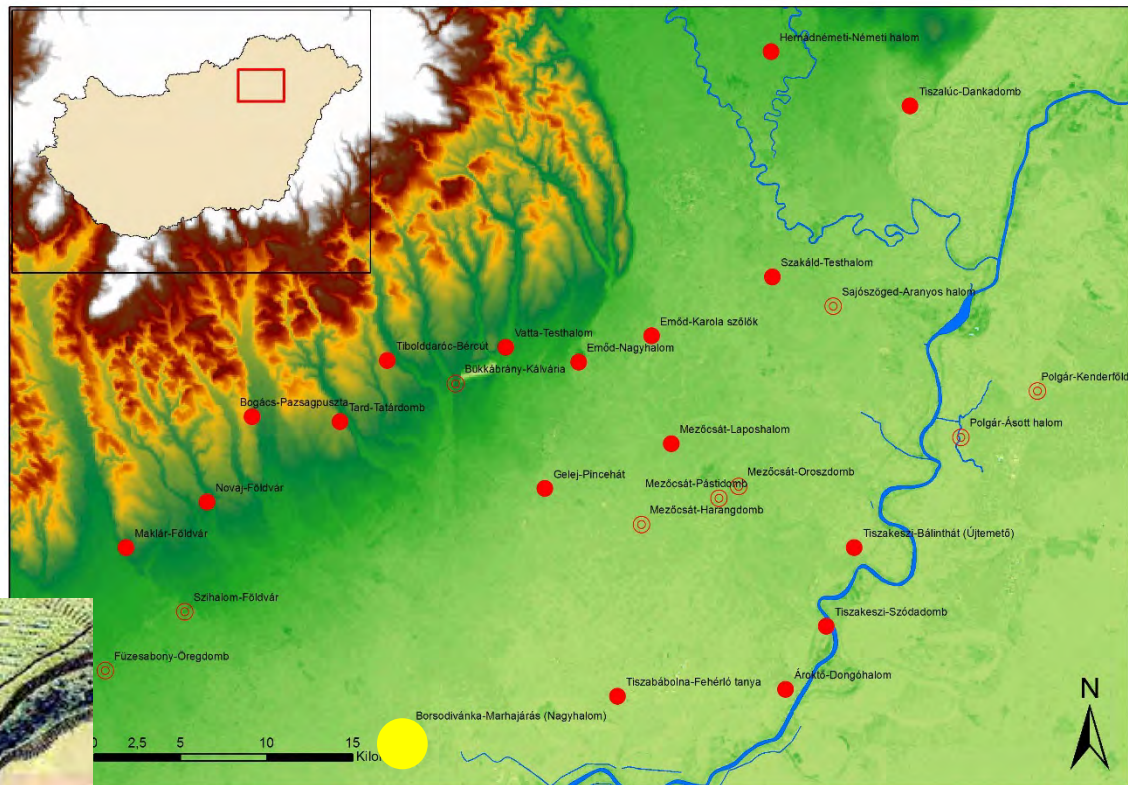
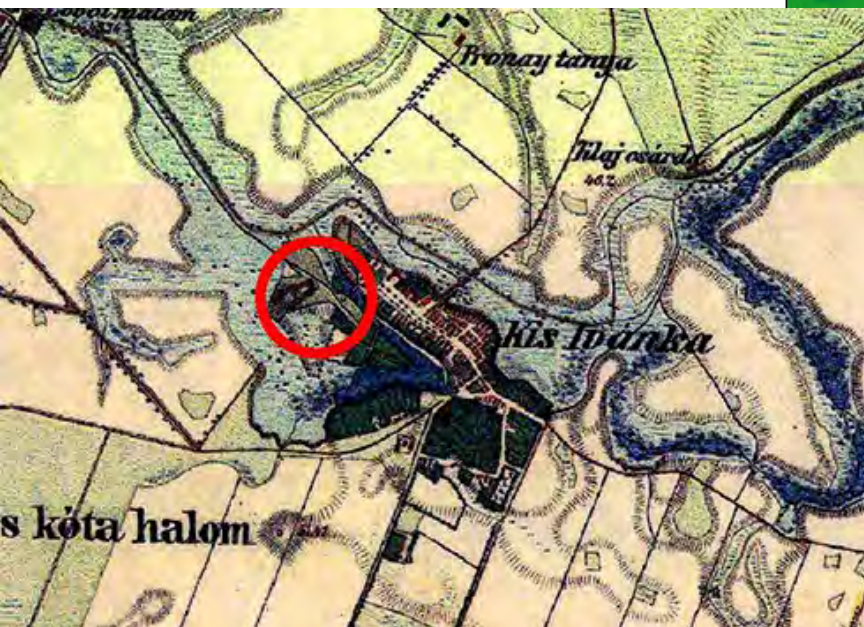
BRONZE AGE TELL COMMUNITIES IN CONTEXT

AN EXPLORATION INTO CULTURE, SOCIETY,
AND THE STUDY OF
EUROPEAN PREHISTORY – PART 2

Tobias L. Kienlin



► Borsodivánka-Marhajárás
(Nagyhalom)





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Archäobotanisch-mikromorphologische Untersuchungen

Im Verlauf der Grabungsarbeiten fielen deutlich geschichtete, weißlich-graue Ablagerungen auf, die auch im Bereich des möglichen Gebäudebefundes vorhanden sind (Abb. 6). Sie verlaufen unterhalb und oberhalb der „Abfallschicht“ (Abb. 3). Um zu klären, woraus diese Lagen bestehen, wurden mikromorphologische Proben genommen (Abb. 6.2).

Erste Ergebnisse zeigen, dass es sich bei den „weißen Lagen“ um dicht geschichtete Phytolithe von Poaceen handelt, die offensichtlich von verschiedenen Gräsern stammen. Vergleichbare Befunde („white layers“) kann man auch aus Teilsiedlungen im Nahen Osten (Albert et al. 2008) – aus dem europäischen Raum sind bis heute kaum dokumentiert.

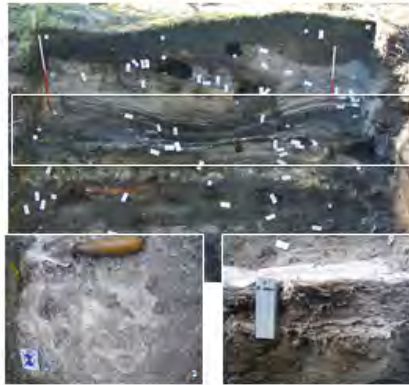
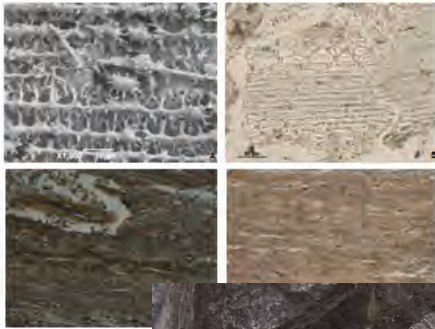
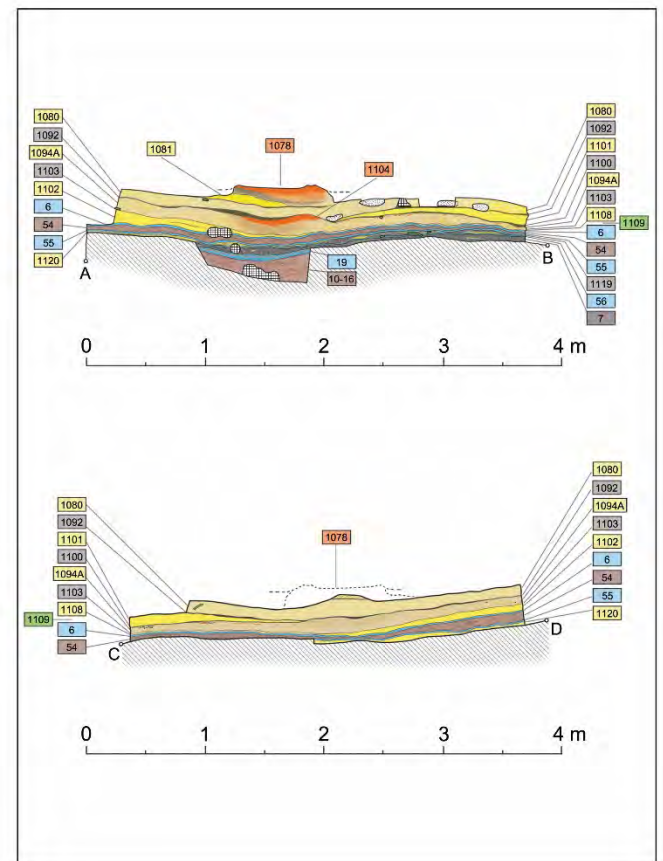


Abb. 6: Weißlich-graue Ablagerungen im Bereich des möglichen Gebäudebefundes (weißer Kasten oben)

Zusammensetzung der „weißen Lagen“

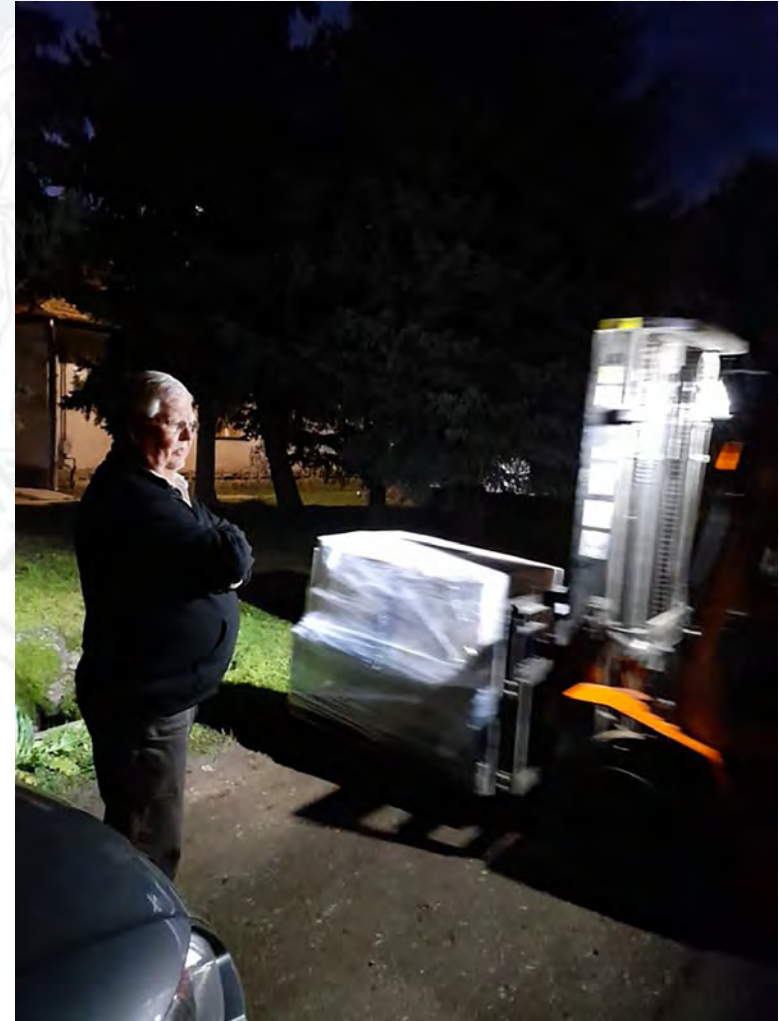
- A REM-Aufnahme der im Verband vorhandenen dendritischen Phytolithen
- B Dünnschliffaufnahme eines silifizierten Epidermisfragmentes, mit dendritischen Phytolithen
- C Dünnschliffaufnahme der dicht gelagerten Phytolithen unterschiedlicher Poaceen





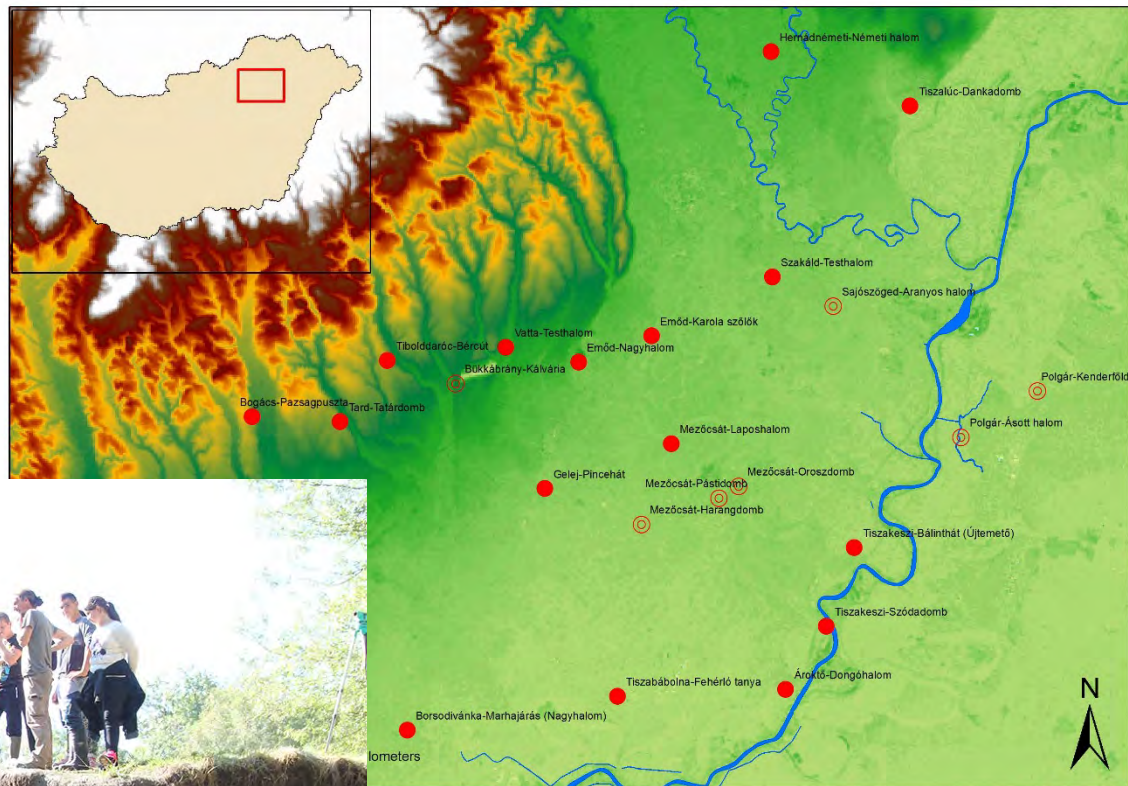


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▲ ► Transport of soil samples and pottery to Tübingen and Köln for flotation and drawing

► Social Life on BORBAS Tells





▲ ► Bronze Age friends and
colleagues at Borsodivánka



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Egy régészeti feltárás Borsodivánka - Nagy halom lelőhelyen 2020-ban

Borsodivánka 2020

455 Aufrufe • 05.01.2021



5



MAG ICH NICHT



TEILEN



SPEICHERN



▲ BORBAS 2020 on youtube:

<https://youtu.be/0209VelUSCc>



Systematic Core Drilling

- ▶ Maklár-Baglyashalom
- ▶ Novaj-Földvár
- ▶ Bükkábrány-Kálvária
- ▶ Gelej-Pincehát

Magnetometer Survey

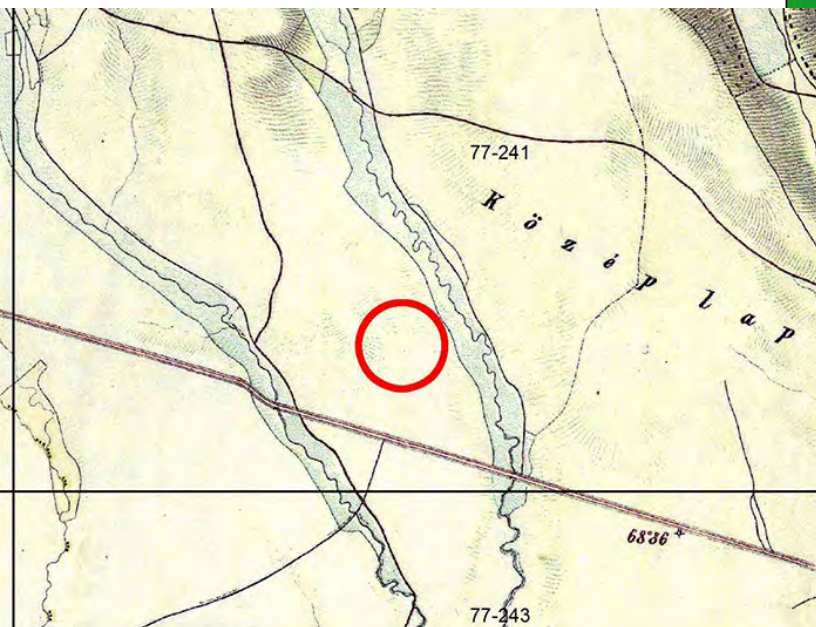
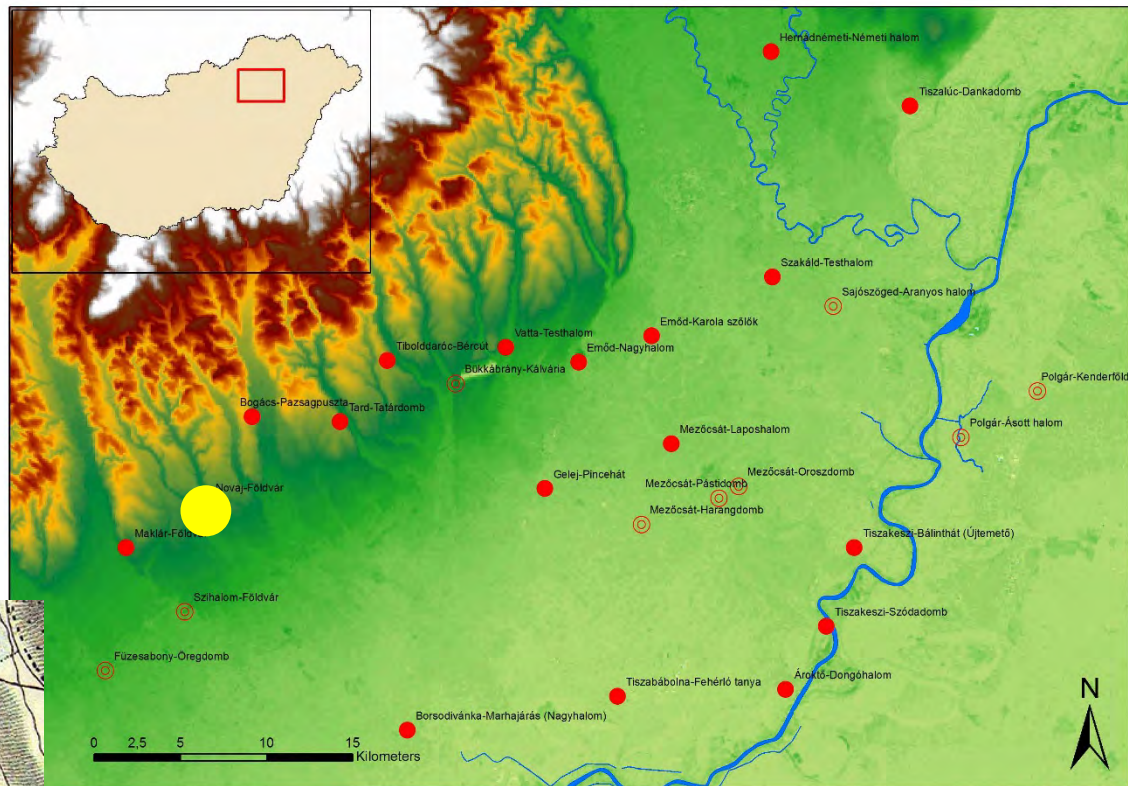
- ▶ Bükkábrány-Kálvária
- ▶ Gesztely-Hernádkak
- ▶ Vatta-Testhalom

Excavation

- ▶ Borsodivánka-Marhajárás (Nagyhalom)



► Novaj-Földvár





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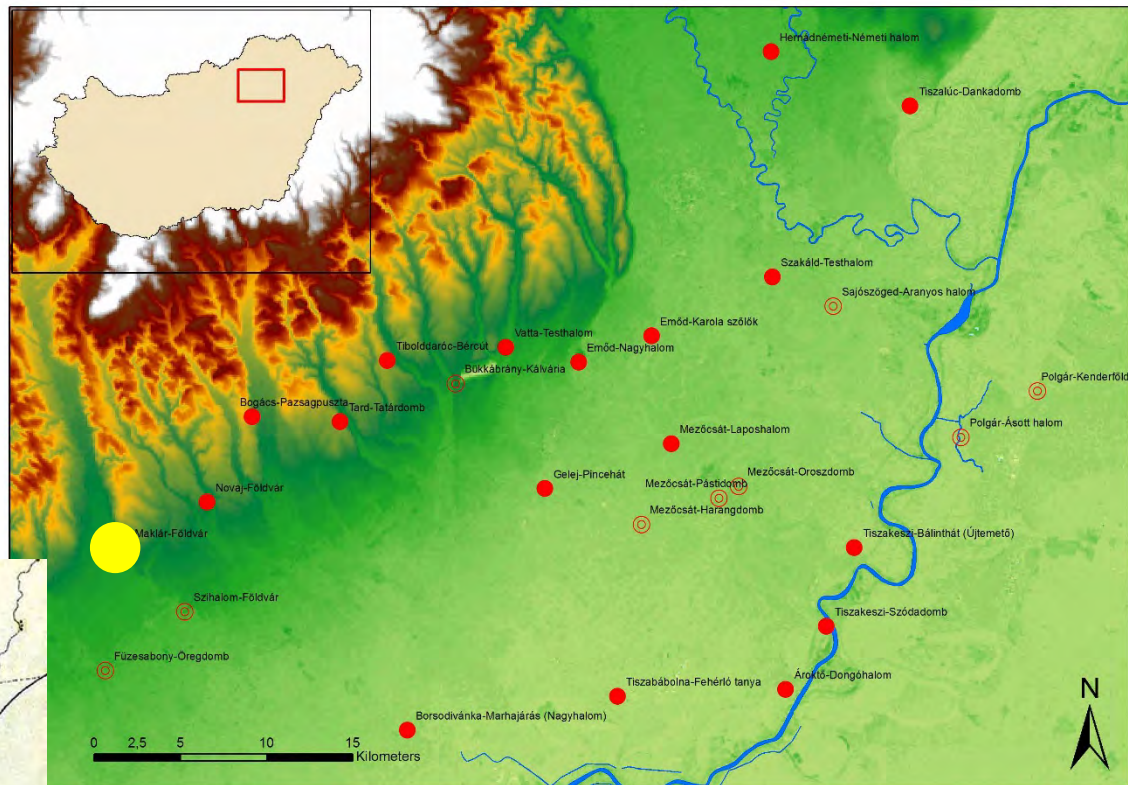
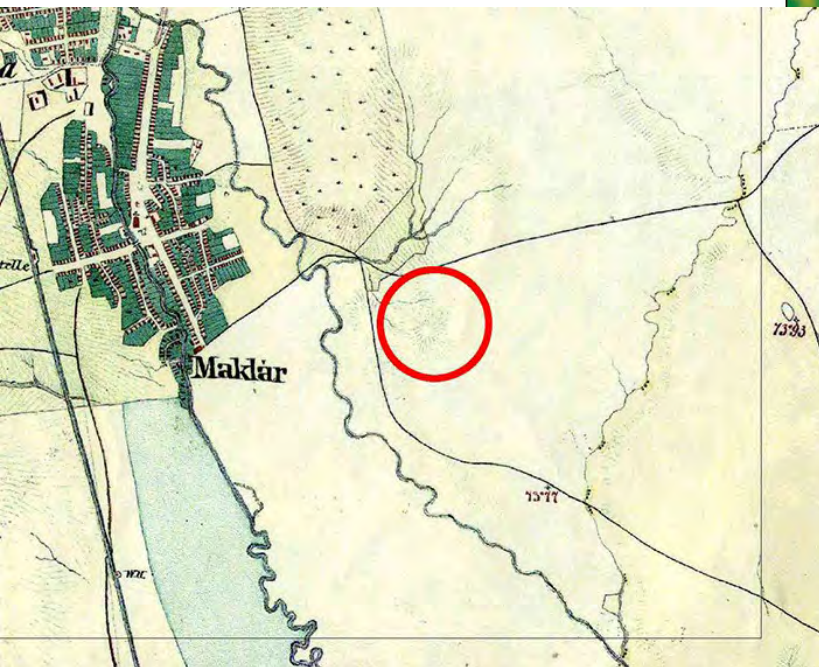
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► Maklár-Baglyashalom



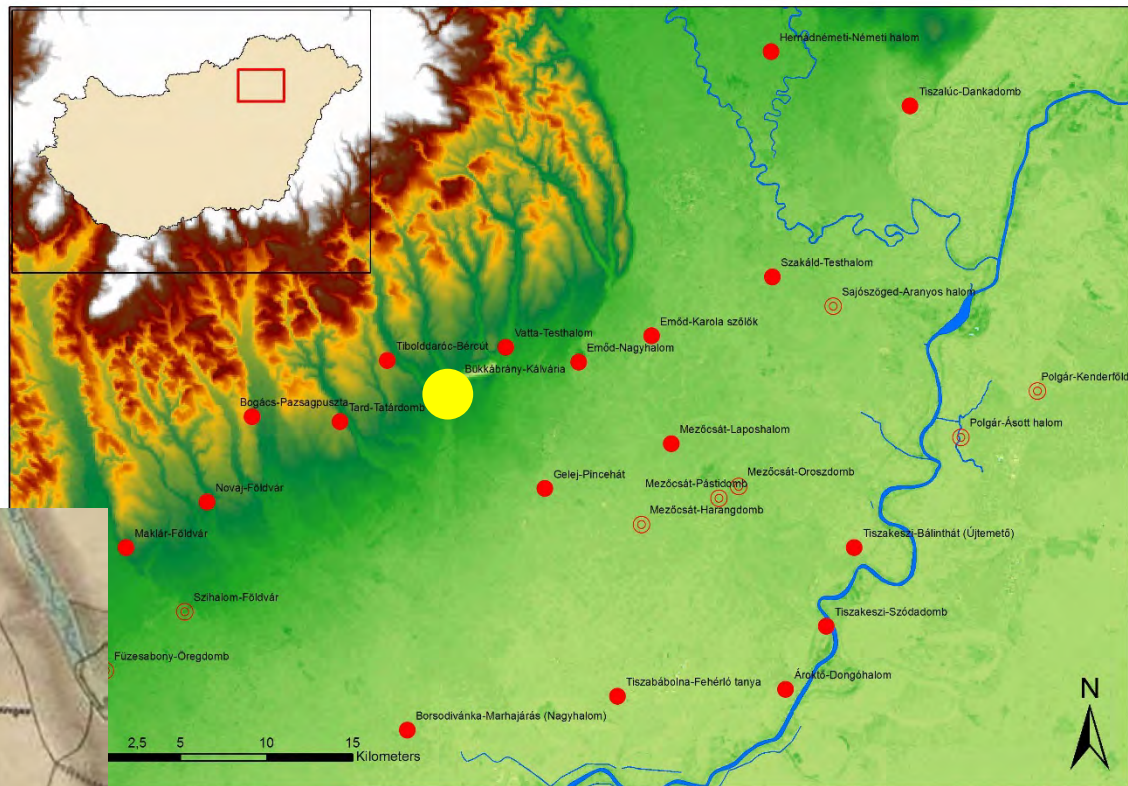


BORBAS 2021

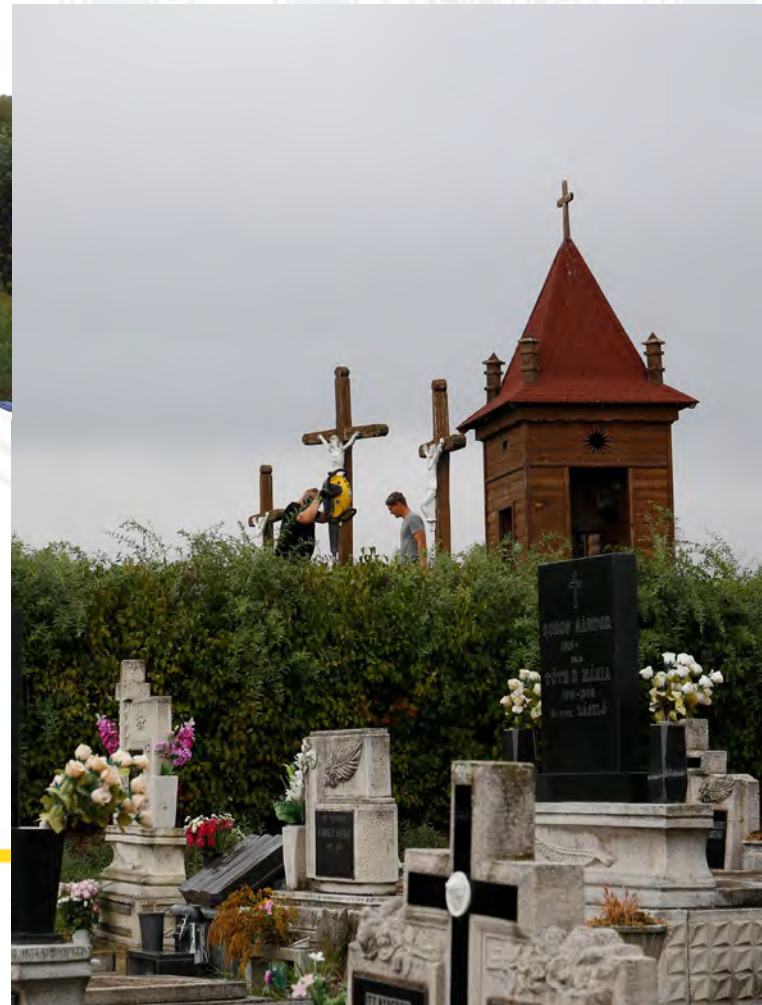


BORBAS 2021

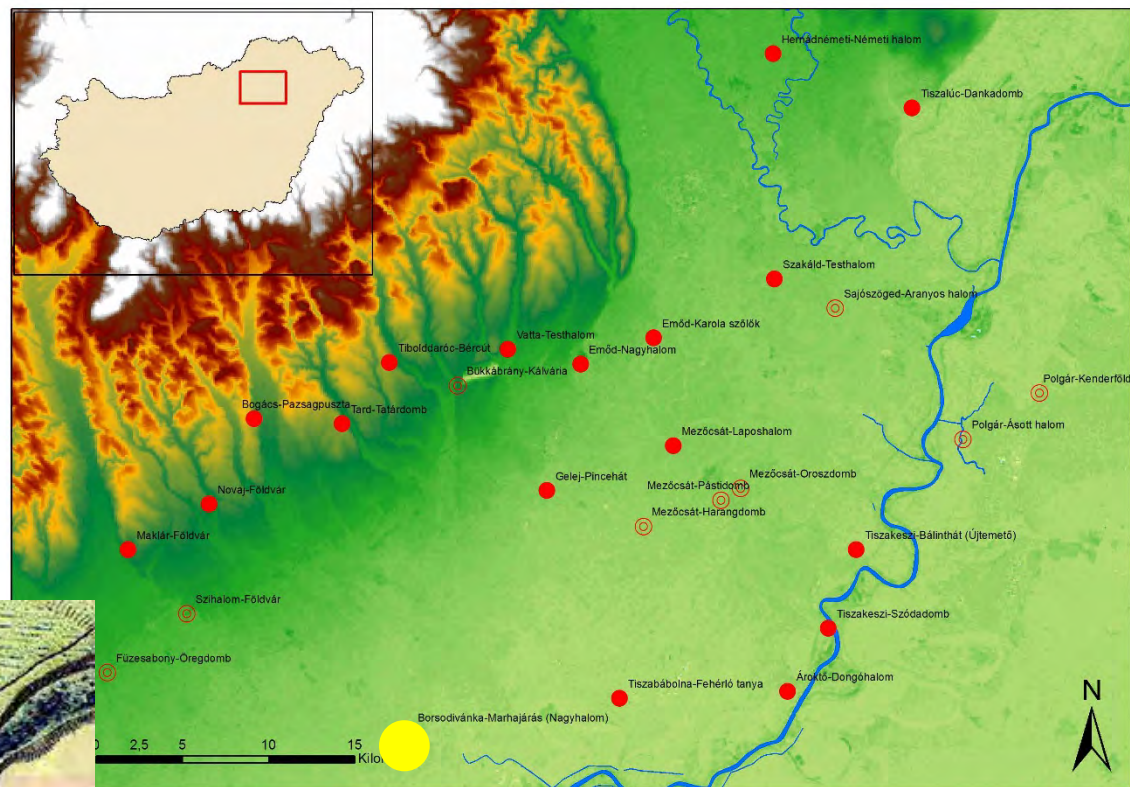
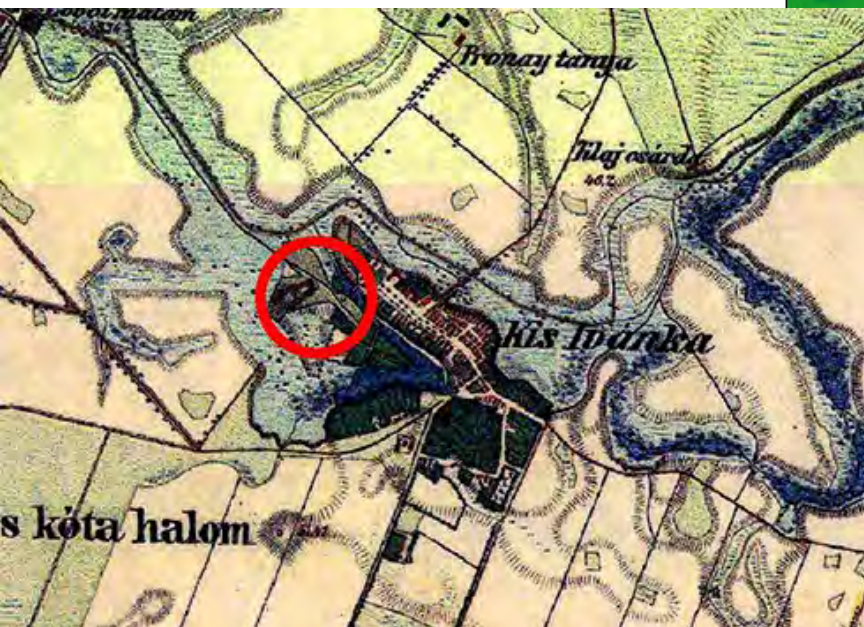
► Bükkábrány-Kalvaria







► Borsodivánka-Marhajárás
(Nagyhalom)





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BORBAS 2021



BORBAS 2021

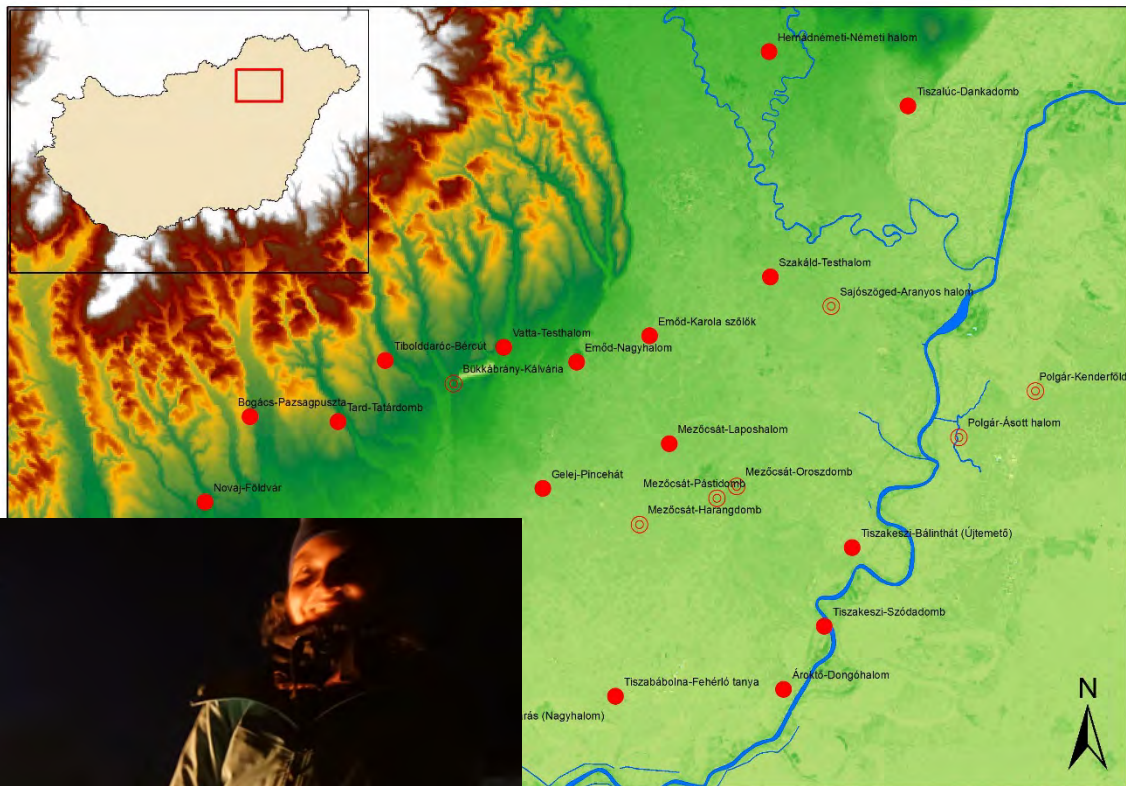


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► Social Life on BORBAS Tells

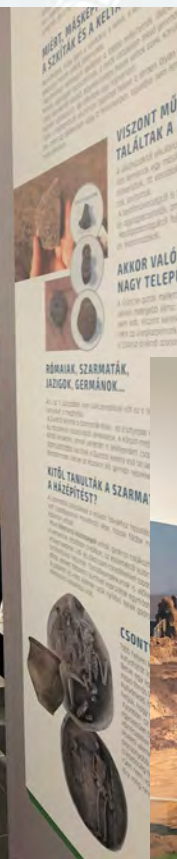


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▲ ► Tour of the new museum of Bükkábrány.



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▲ An excursion to the Late Neolithic site of Vésztő-Mágor.





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