



Prehistoric lakeshore settlements in South-East Europe: archaeological, palaeoecological and bioarchaeological investigations within the EXPLO project.

Mid-term Conference

5-6 July 2022, Research Dissemination Center (KEDEA), Aristotle University of Thessaloniki, Greece

ABSTRACTS

Organization: Aristotle University of Thessaloniki

School of History and Archaeology

Laboratory for Interdisciplinary Research in Archaeology (LIRA)

Funding: The EXPLO project has received funding from the European Research Council (ERC) under the European Union's Horizon 2020 research and innovation programme (grant agreement No. 810586)



Farmers of the Bronze Age – Exploring land use dynamics and agricultural practices using legacy data and land-use modelling

Marco Hostettler¹

¹Institute of Archaeological Sciences, University of Bern, Bern, Switzerland

The site of Kastanas, a small tell located at the Axios river near the shore of the ancient Thermaic Gulf, is used as a case study to assess land use dynamics and agricultural practice through analysis of botanical legacy data and land-use modelling. With a stratigraphy spanning from the Early Bronze to the Iron Age and hundreds of botanical samples from different contexts (first published in 1983), it offers a unique possibility to reconstruct a sequence of probable agricultural practices. This allows insights into the subsistence economy of this specific microregion in the Bronze and Iron Ages, as the tell is one of a group of similar sites located closely to each other. This case study is part of a supra-regional analysis to diachronically evaluate past land-use activities and to connect them to environmental dynamics. The results will contribute to understand the resilience and vulnerabilities of the respective agrarian societies of the Bronze Age in Northern Greece and the Southern Balkans.



Prehistoric lakeshore settlements in South-East Europe: archaeological, palaeoecological and bioarchaeological investigations within the EXPLO project.

Mid-term Conference

5-6 July 2022, Research Dissemination Center (KEDEA), Aristotle University of Thessaloniki, Greece

PROGRAMME

Organization: Aristotle University of Thessaloniki

School of History and Archaeology

Laboratory for Interdisciplinary Research in Archaeology (LIRA)

Funding: The EXPLO project has received funding from the European Research Council (ERC) under the European Union's Horizon 2020 research and innovation programme (grant agreement No. 810586)



Tuesday, 5 July 2022

WELCOMING ADDRESS

Chair: Prof. Em. Kostas Kotsakis

School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece

- 09:30-09:50 Prof. Konstantinos Bikos, Dean of the Faculty of Philosophy
Aristotle University of Thessaloniki, Thessaloniki, Greece
- Prof. Eleni Manakidou, Chair of the School of History and Archaeology
Aristotle University of Thessaloniki, Thessaloniki, Greece

Opening of the Conference: Prof. Eleni Manakidou

SESSION 1. THE EXPLO PROJECT: OVERVIEWS

Chair: Prof. Em. Stelios Andreou

School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece

- 09:50-10:00 **Overview of the University of Bern archaeological project**
Albert Hafner^{1,2}
¹Institute of Archaeological Sciences, University of Bern, Bern, Switzerland
²Oeschger Centre for Climate Change Research, University of Bern, Bern, Switzerland
- 10:00-10:10 **Overview of the University of Bern palaeoecological project**
Willy Tinner^{1,2}
¹Institute of Plant Sciences, University of Bern, Bern, Switzerland
²Oeschger Centre for Climate Change Research, University of Bern, Bern, Switzerland
- 10:10-10:20 **Overview of the University of Oxford project**
Amy Bogaard¹
¹School of Archaeology, University of Oxford, Oxford, United Kingdom
- 10:20-10:30 **Overview of the Aristotle University of Thessaloniki project**
Kostas Kotsakis¹
¹School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece
- 10:30-11:00 *Coffee break*
-

SESSION 2. DENDROCHRONOLOGY: METHODS AND RESULTS

Chair: Assistant Prof. Maria Ntinou

School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece

- 11:00-11:30 **Dendrochronology: Turning Prehistory into History? An outline of the methodological basics of building and dating tree-ring chronologies from wood sampled from wetland sites**
John Francuz¹
¹Institute of Archaeological Sciences, University of Bern, Bern, Switzerland

- 11:30-12:00 **Prehistoric dendrochronology in the southern Balkans: state-of-the-art and prospects**
Andrej Maczkowski^{1,2}
¹Institute of Archaeological Sciences, University of Bern, Bern, Switzerland
²Oeschger Centre for Climate Change Research, University of Bern, Bern, Switzerland
- 12:00-12:30 **The dendroarchaeology of the prehistoric waterlogged site Ploča - Mičov Grad, Lake Ohrid, North Macedonia**
Matthias Bolliger^{1,2}
¹Institute of Archaeological Sciences, University of Bern, Bern, Switzerland
²Oeschger Centre for Climate Change Research, University of Bern, Bern, Switzerland
- 12:30-14:00 *Lunch break*
-

SESSION 3. MATERIAL CULTURE

Chair: Dr Maria Pappa

Ephorate of Antiquities of Thessaloniki Region, Hellenic Ministry of Culture and Sports, Thessaloniki, Greece

- 14:00-14:30 **Phases and architecture of Dispilio: results and challenges**
Tryfon Giagkoulis¹, Filippos Stefanou¹ and Kostas Kotsakis¹
¹School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece
- 14:30-15:00 **Site stratigraphy and key stratigraphic markers at the Neolithic wetland settlement of Dispilio. Our progress to date within the project of EXPLO**
Stella Kyrillidou¹, Ioanna Siamidou^{1,2}, Ioannis Oikonomou³, Rena Veropoulidou^{1,4} and Kostas Kotsakis¹
¹School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece
²Department of Prehistory, Protohistory and Near Eastern Archaeology, Heidelberg University, Heidelberg, Germany
³Institute of Archaeology, Hebrew University of Jerusalem, Jerusalem, Israel
⁴Museum of Byzantine Culture, Hellenic Ministry of Culture and Sports, Thessaloniki, Greece
- 15:00-15:30 **Reassembling continuity and change in Neolithic Dispilio**
Evangelia Voulgari¹, Marina Sofronidou², Niki Saridaki¹, Ioanna Siamidou^{1,3}, Eleni Tsiola^{1,4}, Nikos Katsikaridis¹ and Kostas Kotsakis¹
¹School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece
²Ephorate of Antiquities of Drama, Hellenic Ministry of Culture and Sports, Drama, Greece
³Department of Prehistory, Protohistory and Near Eastern Archaeology, Heidelberg University, Heidelberg, Germany
⁴School of History and Archaeology, University of Ioannina, Ioannina, Greece

- 15:30-16:00 **Dispilio pottery in its regional context: affinities and potential contacts**
Marina Sofronidou¹, Evangelia Voulgari², Anastasia Dimoula², Niki Saridaki² and Kostas Kotsakis²
¹Ephorate of Antiquities of Drama, Hellenic Ministry of Culture and Sports, Drama, Greece
²School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece
- 16:00-16:30 *Coffee break*
- Chair: Prof. Em. Nikos Efstratiou**
School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece
- 16:30-17:00 **The stone and bone industries from Neolithic Dispilio: preliminary typological and technological observations**
Tasos Bekiaris¹, Angeliki Kita¹, Eleni Koutsopoulou^{1,2}, Bogdana Milić³ and Georgia Stratouli⁴
¹School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece
²Institute of Archaeological Sciences, University of Bern, Bern, Switzerland
³Mila y Fontanals Institute on Humanities research, Spanish National Research Council, Barcelona, Spain
⁴Ephorate of Antiquities of Kilikis, Hellenic Ministry of Culture and Sports, Kilikis, Greece
- 17:00-17:30 **Archaeological Fieldwork at Lake Ohrid**
Johannes Reich¹
¹Institute of Archaeological Sciences, University of Bern, Bern, Switzerland
- 17:30-18:00 **Farmers of the Bronze Age – Exploring land use dynamics and agricultural practices using legacy data and land-use modelling**
Marco Hostettler¹
¹Institute of Archaeological Sciences, University of Bern, Bern, Switzerland
- 18:00 *Reception*

Wednesday, 6 July 2022

SESSION 4. PALAEOECOLOGY AND BIOARCHAEOLOGY

Chair: Dr Rena Veropoulidou

Museum of Byzantine Culture, Hellenic Ministry of Culture and Sports, Thessaloniki, Greece
School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece

- 09:00-09:30 **Reconstructing Holocene climate dynamics in Northern Greece using biomarker proxies in lake sediments**
Antoine Thévenaz^{1,2}, César Morales-Molino^{1,2}, Erika Gobet^{1,2}, Céline Martin³, Cindy De Jonge⁴, Oliver Rach⁵, Dirk Sachse⁵ and Willy Tinner^{1,2}
¹Institute of Plant Sciences, University of Bern, Bern, Switzerland
²Oeschger Centre for Climate Change Research, University of Bern, Bern, Switzerland
³Surface Waters Research & Management, Eawag, Dübendorf, Switzerland
⁴Swiss Federal Institute for Technology, Zurich, Switzerland
⁵German Research Centre for Geosciences, Potsdam, Germany

- 09:30-10:00 **From sea to summit: the impact of climate and land-use change on vegetation at different altitudes and along two Neolithisation routes**
Kathrin Ganz^{1,2}, César Morales-Molino^{1,2}, Erika Gobet^{1,2}, Luc Hächler^{2,3}, Dmytro Kiosak⁴, Nadezhda Kotova⁵, Jacqueline van Leeuwen^{1,2}, Sergey Makhortykh⁶, Sarah Ogi^{1,2}, Emmanuel Schaad^{1,2}, Christoph Schwörer^{1,2}, Paul Zander^{2,3}, Martin Grosjean^{2,3} and Willy Tinner^{1,2}
¹Institute of Plant Sciences, University of Bern, Bern, Switzerland
²Oeschger Centre for Climate Change Research, University of Bern, Bern, Switzerland
³Institute of Geography, University of Bern, Bern, Switzerland
⁴Department of Asian and North African Studies, Ca' Foscari University of Venice, Venice, Italy
⁵Department of Archaeology of Eneolithic and Bronze Age, Institute of Archaeology, National Academy of Sciences of Ukraine, Kyiv, Ukraine
⁶Department of Early Iron Age Archaeology, Institute of Archaeology, National Academy of Sciences of Ukraine, Kyiv, Ukraine
- 10:00-10:30 **Insights into the impacts of climate and land use on the vegetation of the Four Lakes region in Northern Greece**
Lieveke van Vugt^{1,2}, César Morales-Molino^{1,2}, Erika Gobet^{1,2}, Martin Grosjean^{2,3}, Antonietta Knetge¹, Jaqueline F.N. van Leeuwen^{1,2}, André F. Lotter^{1,2}, Hendrik Vogel^{2,4}, Albert Hafner^{2,5} and Willy Tinner^{1,2}
¹Institute of Plant Sciences, University of Bern, Bern, Switzerland
²Oeschger Centre for Climate Change Research, University of Bern, Bern, Switzerland
³Institute of Geography, University of Bern, Bern, Switzerland
⁴Institute of Geological Sciences, University of Bern, Bern, Switzerland
⁵Institute of Archaeological Sciences, University of Bern, Bern, Switzerland
- 10:30-11:00 *Coffee break*
- Chair: Associate Prof. Sevi Triantafyllou**
School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece
- 11:00-11:30 **First results on 50,000 years of vegetation history at Limni Orestías Kastorias**
Lieveke van Vugt^{1,2}, Erika Gobet^{1,2}, Kathrin Ganz^{1,2}, Gian-Luca Grünenfelder¹, Hendrik Vogel^{2,3} and Willy Tinner^{1,2}
¹Institute of Plant Sciences, University of Bern, Bern, Switzerland
²Oeschger Centre for Climate Change Research, University of Bern, Bern, Switzerland
³Institute of Geological Sciences, University of Bern, Bern, Switzerland
- 11:30-12:00 **The zooarchaeology of Dispilio, Lake Orestias, Kastorias**
Valasia Isaakidou¹, Paul Halstead², Rena Veropoulidou^{3,4}, Roula Chronaki⁴, Dafni Androulaki⁴ and Amy Bogaard¹
¹School of Archaeology, University of Oxford, Oxford, United Kingdom
²Department of Archaeology, University of Sheffield, Sheffield, United Kingdom
³Museum of Byzantine Culture, Hellenic Ministry of Culture and Sports, Thessaloniki, Greece
⁴School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece
- 12:00-12:30 **The archaeobotany of Dispilio, Lake Orestias, Kastorias**
Müge Ergun¹, Eugenia Gkatzogia², Maria Ntinou², Mike Charles¹ and Amy Bogaard¹
¹School of Archaeology, University of Oxford, Oxford, United Kingdom
²School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece
- 12:30-14:00 *Lunch break*

Chair: Prof. Tania Valamoti

School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece

- 14:00-14:30 **Vegetation dynamics and land-use change at the Neolithic lakeshore settlement site of Ploča Mičov Grad, Lake Ohrid**
Erika Gobet^{1,2}, Sarah Brechbühl¹, Lieveke van Vugt^{1,2}, César Morales-Molino^{1,2}, Joseph Volery¹, André F. Lotter^{1,2}, Ariane Ballmer^{2,3}, Sandra O. Brugger^{1,2}, Albert Hafner^{2,3} and Willy Tinner^{1,2}
¹Institute of Plant Sciences, University of Bern, Bern, Switzerland
²Oeschger Centre for Climate Change Research, University of Bern, Bern, Switzerland
³Institute of Archaeological Sciences, University of Bern, Bern, Switzerland
- 14:30-15:00 **The archaeobotany of Progradec, Lin 3, Lake Ohrid**
Rachel Ballantyne¹, Michael Charles¹ and Amy Bogaard¹
¹School of Archaeology, University of Oxford, Oxford, United Kingdom
- 15:00-15:30 **The archaeobotany of Ploča Mičov Grad, Lake Ohrid**
Amy Holguin¹, Michael Charles¹, Müge Ergun¹ and Amy Bogaard¹
¹School of Archaeology, University of Oxford, Oxford, United Kingdom
- 15:30-16:00 Discussion
-

Please note:

The 30 minutes slots include 20 minutes for the presentations and 10 minutes for questions.

Poster design: Tasos Bekiaris

Photo credits: Poster's main photo by Marco Hostettler, EXPLO Project Official Website and Dispilio Excavations Archive

Workshop's Venue:



Research Dissemination Center (KEDEA)
Tritis Septemvriou Str. - University Campus
546 36 THESSALONIKI – GREECE

The KEDEA building is connected with the following bus lines:

2,7,14,58 (Bus Stop: University of Macedonia)

17,24,37 (Bus Stop: Fititiki Leschi)

10,31 (Bus Stop: Agia Foteini-University of Macedonia)

27,28,83 (Bus Stop: Terma Grammis)

<https://goo.gl/maps/tqa4pxokdyVjbA6c7>