

EBERHARD KARLS
UNIVERSITÄT
TÜBINGEN



CLOSING SYMPOSIUM
ERC STARTING GRANT PROJECT „PAGE“
PALEOANTHROPOLOGY AT THE GATES OF EUROPE

1ST — 4TH DECEMBER 2016
ALTE AULA, TÜBINGEN





ABSTRACTS

The invisible record of the Marathousa 1 sediments:

Phytoliths and diatoms

**Georgia Tsartsidou¹, Jan Risberg², Panagiotis Karkanas³, Vangelis Tourloukis⁴, Nicholas Thompson⁵,
Athanasios Athanassiou⁶, George E. Konidaris⁴, Domenico Giusti⁴, Eleni Panagopoulou¹,
Katerina Harvati⁴**

¹*Ministry of Culture, Ephorate of Palaeoanthropology-Speleology, Ardittou 34B,
11636 Athens, Greece*

²*Stockholm University Department of Physical Geography, S-106 91 Stockholm, Sweden*

³*The Malcolm H. Wiener Laboratory for Archaeological Science, American School of Classical Studies, Souidias 54,
10676 Athens, Greece*

⁴*Eberhard-Karls University of Tübingen, Paleoanthropology, Institute for Archeological Sciences,
Senckenberg Center for Human Evolution and Paleoecology,
Rümelinstraße 23, Tübingen 72070, Germany*

⁵*Friedrich-Alexander University of Erlangen-Nürnberg, Institute of Prehistory and Early History, Kochstr. 4/18,
90154 Erlangen, Germany*

⁶*Ministry of Culture, Ephorate of Palaeoanthropology-Speleology, Ardittou 34B, 11636 Athens, Greece*

Three environmental proxies have been analysed in order to shed some light on our understanding of the vegetation and climate during the past human visits in Marathousa 1 site. Phytoliths, a terrestrial proxy as well as diatoms and sponges, both wet body proxies, were extracted from the sediments following the same methodology as all of them belong to silicate micro-remains. A pilot sampling was conducted focusing on archaeological and paleoecological questions. The results of the analysis show that the preservation of all proxies is poor causing interpretation problems. The method used was tested and needs to be improved in order to acquire better results given the poverty of remains. Nevertheless, the reproducibility test of the method shows relatively good results and therefore a first estimation of the palaeoenvironment is attempted. Phytolith assemblages provide evidence of different climate with respect to time and different vegetation with respect to space, i.e. area A vs area B. On the other hand diatoms are badly weathered and have been recovered in minor quantities indicating turbulence by stream energy and transportation away from the shore resulting in frustule absence.