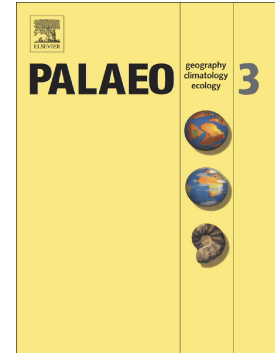


Accepted Manuscript

Arid and humid phases in central Italy during the Late Pleistocene revealed by the Lake Trasimeno ostracod record

Marta Marchegiano, Alexander Francke, Elsa Gliozzi, Daniel Ariztegui



PII: S0031-0182(17)30648-X

DOI: doi:[10.1016/j.palaeo.2017.09.033](https://doi.org/10.1016/j.palaeo.2017.09.033)

Reference: PALAEO 8466

To appear in: *Palaeogeography, Palaeoclimatology, Palaeoecology*

Received date: 12 June 2017

Revised date: 29 September 2017

Accepted date: 30 September 2017

Please cite this article as: Marta Marchegiano, Alexander Francke, Elsa Gliozzi, Daniel Ariztegui, Arid and humid phases in central Italy during the Late Pleistocene revealed by the Lake Trasimeno ostracod record. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. *Palaeo*(2017), doi:[10.1016/j.palaeo.2017.09.033](https://doi.org/10.1016/j.palaeo.2017.09.033)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Arid and humid phases in central Italy during the Late Pleistocene revealed by
the Lake Trasimeno ostracod record**

Marta Marchegiano^{1*}, Alexander Francke^{2,3}, Elsa Gliozzi⁴ and Daniel Ariztegui¹

¹Department of Earth Sciences, University of Geneva, Rue des Maraîchers 13, 1205 Geneva, Switzerland. daniel.ariztegui@unige.ch,

²Institute of Geology and Mineralogy, University of Cologne, Cologne, 50674, Germany

³Wollongong Isotope Geochronology Laboratory, School of Earth and Environmental Sciences, University of Wollongong, Wollongong, NSW 2522, Australia. afrancke@uow.edu.au

⁴Department of Science, University Roma Tre, L.go S. Leonardo Murialdo, 1, 00146 Rome, Italy. elsa.gliozzi@uniroma3.it

*M. Marchegiano E-mail: marta.marchegiano@unige.ch

Department of Earth Sciences, University of Geneva, Rue des Maraîchers 13, 1205 Geneva, Switzerland.

ABSTRACT

A multiproxy approach in a sediment core from Lake Trasimeno has been used to reconstruct the climate history of central Italy during the Late Pleistocene to Early Holocene period (ca. 47,000 – 9,000 cal yr B.P.). Ostracod assemblages and sedimentological data (lithology and carbonate content) have been used to infer past hydrological changes in the area. Ostracods were analyzed throughout the core using diversity indexes and multivariate analyses (Cluster and PCA). Three main associations linked to lake level and salinity variations were recognized: 1) the *C. torosa* association, indicating permanent lacustrine

Download English Version:

<https://daneshyari.com/en/article/8868430>

Download Persian Version:

<https://daneshyari.com/article/8868430>

[Daneshyari.com](https://daneshyari.com)