

Publication

Animal mobility in Chalcolithic Portugal: Isotopic analyses of cattle from the sites of Zambujal and Leceia

JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)

ID 4513905

Author(s) Wright, Elizabeth; Waterman, Anna J.; Peate, David W.; Kunst, Michael; Cardoso, João Luis; Detry, Cleia

Author(s) at UniBasel Wright, Elizabeth Lizzie;

Year 2019

Title Animal mobility in Chalcolithic Portugal: Isotopic analyses of cattle from the sites of Zambujal and Leceia

Journal Journal of Archaeological Science: Reports

Volume 24

Pages / Article-Number 804-814

Keywords Iberia, Zambujal, Leceia, Copper Age, Strontium, isotopes, Mobility, Fauna

This paper outlines the results of strontium isotopic analyses from cattle recovered at the Chalcolithic fortified settlement sites of Castro do Zambujal and Leceia (Estremadura, Portugal). The Portuguese Chalcolithic (c. 3000/ 2900-1900 BC) was a pivotal time of social and economic change with evidence of increasing social complexity resulting in the formation of hierarchical settlements. With these changes came the emergence of long-distance exchange networks and more complex population movements and interactions. Domesticated animals would have played an important role in these emerging economies, and it is assumed that animals migrated with, and were exchanged by, humans as part of these new networks. While direct evidence of these networks is still limited in this region, new methodologies have the potential to expand our knowledge of animal mobility and exchange. This study uses 87Sr/86Sr ratios in tooth enamel to identify potential non-local animals at these two settlements. Results indicate that Leceia may have had a higher proportion of non-local animals than Zambujal and had a wider catchment area for its stock, suggesting variations in settlement economies across relatively short distances in this region. These results have important implications for our understanding of animal management at Portuguese Chalcolithic sites, and the involvement of animals in the emerging economies of the time.

Publisher Elsevier ISSN/ISBN 2352-409X

edoc-URL https://edoc.unibas.ch/72012/

Full Text on edoc Available;

Digital Object Identifier DOI 10.1016/j.jasrep.2019.02.005

Document type (ISI) Article