

An exploration of seasonality from Mapungubwe period sites using stable isotope (^{13}C and ^{18}O) analysis of freshwater mussels.

Our Ref:



an agency of the
Department of Arts and Culture

T: +27 21 462 4502 | F: +27 21 462 4509 | E: info@sahra.org.za
South African Heritage Resources Agency | 111 Harrington Street | Cape Town
P.O. Box 4637 | Cape Town | 8001
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Enquiries: Ragna Redelstorff
Tel: +27 (0)21 202 8651
Email: rredelstorff@sahra.org.za
CaseID: 13205

Date: Friday November 30, 2018
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Letter

In terms of Section 27(18) of the National Heritage Resources Act (Act 25 of 1999)

Attention: Chantalle Dominique Kruger
Department of Anthropology & Archaeology, University of Pretoria
University of Pretoria Lynnwood Road, Hatfield Pretoria 0002

This research project aims to determine seasonal variation of site occupation at several archaeological sites within the larger Mapungubwe landscape in northern South Africa. In this regard, my study will focus on seasonality during the 9th- 13th century Middle Iron Age (MIA) period in the Limpopo Valley of northern South Africa. This study will use a novel technique to determine the season of occupation of archaeological sites through stable isotope analysis (^{13}C and ^{18}O) of freshwater mussels. The aim will be to better understand settlement patterns of 13th century people within the Limpopo Valley and highlight the potential of sclerochronology to infer past human behavior. The study will be completed at the University of Pretoria. Gauteng

Dear Ms Chantalle D. Kruger,

Thank you for your application for invasive sampling of 44 specimens of fossil freshwater mussels (Unionidae) from the sites Pont Drift and Schroda within the Mapungubwe World Heritage Site for isotope analysis at the University of Pretoria. As the SAHRA Permitting Policy and Guidelines state that the applicant should at least have a master's degree, your supervisor Dr Alexander Antonites is the permit holder on your behalf.

SAHRA has reviewed your application and decided to approve it.

We wish you every success with this project.

Should you have any further queries, please contact the designated official using the case number quoted above in the case header.

Yours faithfully

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Ragna Redelstorff
Heritage Officer
South African Heritage Resources Agency

Phillip Hine
Acting Manager: Archaeology, Palaeontology and Meteorites Unit
South African Heritage Resources Agency

ADMIN:

Direct URL to case: <http://www.sahra.org.za/node/514752>

Terms & Conditions:

1. This approval does not exonerate the applicant from obtaining local authority approval or any other necessary approval for proposed work.
2. If any heritage resources, including graves or human remains, are encountered they must be reported to SAHRA immediately.
3. SAHRA reserves the right to request additional information as required.