

Accepted Manuscript

Imaging Precambrian lithospheric structure in Zambia using electromagnetic methods

Emily Sarafian, Rob L. Evans, Mohamed G. Abdelsalam, Estella Atekwana, Jimmy Elsenbeck, Alan G. Jones, Ezekiah Chikambwe



PII: S1342-937X(17)30313-1
DOI: doi:[10.1016/j.gr.2017.09.007](https://doi.org/10.1016/j.gr.2017.09.007)
Reference: GR 1866

To appear in:

Received date: 19 March 2017
Revised date: 8 August 2017
Accepted date: 14 September 2017

Please cite this article as: Emily Sarafian, Rob L. Evans, Mohamed G. Abdelsalam, Estella Atekwana, Jimmy Elsenbeck, Alan G. Jones, Ezekiah Chikambwe , Imaging Precambrian lithospheric structure in Zambia using electromagnetic methods. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Gr(2017), doi:[10.1016/j.gr.2017.09.007](https://doi.org/10.1016/j.gr.2017.09.007)

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.

Title: Imaging Precambrian lithospheric structure in Zambia using electromagnetic methods

Authors: Emily Sarafian^{1,2*}, Rob L. Evans², Mohamed G. Abdelsalam³, Estella Atekwana³, Jimmy Elsenbeck², Alan G. Jones⁴, and Ezekiah Chikambwe⁵

Affiliations:

1. Massachusetts Institute of Technology-Woods Hole Oceanographic Institution Joint Program in Oceanography/Applied Ocean Science and Engineering, Woods Hole, MA 02543, USA.
2. Department of Geology and Geophysics, Woods Hole Oceanographic Institution, Woods Hole, MA 02543, USA.
3. Boone Pickens School of Geology, Oklahoma State University, Stillwater, OK 74078, USA
4. Formerly Dublin Institute for Advanced Studies, Dublin, Ireland. Now at Complete MT Solutions Inc., Ottawa, Canada
5. Geological Survey Department of Zambia, P.O. Box 50135, Lusaka, Zambia

*Correspondence to: etursack@whoi.edu

266 Woods Hole Road, WHOI MS#22, Woods Hole, MA 02543

Abstract

The Precambrian geology of eastern Zambia and Malawi is highly complex due to multiple episodes of rifting and collision, particularly during the formation of Greater Gondwana as a product of the Neoproterozoic Pan-African Orogeny. The lithospheric structure and extent of known Precambrian tectonic entities of the region are poorly known as there have been to date

Download English Version:

<https://daneshyari.com/en/article/8913267>

Download Persian Version:

<https://daneshyari.com/article/8913267>

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