

Accepted Manuscript

Stratigraphy of the *Vulcanodon* type locality and its implications for regional correlations within the Karoo Supergroup

Pia A. Viglietti, Paul M. Barrett, Tim J. Broderick, Darlington Munyikwa, Rowan MacNiven, Lucy Broderick, Kimberley Chapelle, Dave Glynn, Steve Edwards, Michel Zondo, Patricia Broderick, Jonah N. Choiniere

PII: S1464-343X(17)30395-3

DOI: [10.1016/j.jafrearsci.2017.10.015](https://doi.org/10.1016/j.jafrearsci.2017.10.015)

Reference: AES 3030

To appear in: *Journal of African Earth Sciences*

Received Date: 17 July 2017

Revised Date: 11 October 2017

Accepted Date: 12 October 2017



Please cite this article as: Viglietti, P.A., Barrett, P.M., Broderick, T.J., Munyikwa, D., MacNiven, R., Broderick, L., Chapelle, K., Glynn, D., Edwards, S., Zondo, M., Broderick, P., Choiniere, J.N., Stratigraphy of the *Vulcanodon* type locality and its implications for regional correlations within the Karoo Supergroup, *Journal of African Earth Sciences* (2017), doi: 10.1016/j.jafrearsci.2017.10.015.

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.

Stratigraphy of the *Vulcanodon* type locality and its implications for regional correlations within the Karoo Supergroup.

Pia A. Viglietti^{*1,2}, Paul M. Barrett^{1,3}, Tim J. Broderick⁴, Darlington Munyikwa⁵, Rowan MacNiven⁶, Lucy Broderick⁴, Kimberley Chapelle^{1,2}, Dave Glynn⁷, Steve Edwards⁸, Michel Zondo⁹, Patricia Broderick⁴, Jonah N. Choiniere^{1,2}

*corresponding author

1 Evolutionary Studies Institute, University of the Witwatersrand, Johannesburg, Private Bag 3 Wits 2050, pia.viglietti@gmail.com, p.barrett@nhm.ac.uk, jonah.choininere@wits.ac.za, kimi.chapelle@gmail.com

2 School of Geosciences, University of the Witwatersrand, Johannesburg, Private Bag 3 Wits 2050, pia.viglietti@gmail.com, jonah.choininere@wits.ac.za, kimi.chapelle@gmail.com

3 Department of Earth Sciences, The Natural History Museum, Cromwell Road, London, SW7 5BD, UK, p.barrett@nhm.ac.uk

4 Makari, 19 Jenkinson Road, Chisipite, Harare, Zimbabwe, makari@zol.co.zw, pbroderick@mango.zw, lucy.broderick.photo@gmail.com

5 National Museums and Monuments, 107 Rotten Row, Alexandra Park, Harare, Zimbabwe, dtonmunyikwa@gmail.com

6 2073 Market Street (at 14th Street), San Francisco, CA 94114, rowanmacniven@gmail.com

7 Africa Albida Tourism, Greystone Park Shopping Centre, Gaydon Road, Harare, Zimbabwe, dave@africaalbida.co.zw

8 Musango Safari Camp, Musango Island, Lake Kariba, Zimbabwe, steve.edwards.musango@gmail.com

9 The Natural History Museum of Zimbabwe, Park Rd, Bulawayo, Zimbabwe, miczondo@yahoo.com

Abstract

Vulcanodon karibaensis is one of the earliest-branching members of Sauropoda and a forerunner of the largest terrestrial animals ever to have lived. Its stratigraphic position has most recently been given as Toarcian (latest Early Jurassic), making it a contemporary of the northern African taxon *Tazoudasaurus*, but some literature suggests that it may be considerably older. This uncertainty obscures our understanding of the timing of major

Download English Version:

<https://daneshyari.com/en/article/8913710>

Download Persian Version:

<https://daneshyari.com/article/8913710>

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