A BIBLIOGRAPHY OF THE GEOLOGY
RELATING TO THE BARBERTON MOUNTAIN LAND
AND SURROUNDING GRANITIC TERRANE, SOUTH AFRICA
2002-2019

This compilation represents the 6th of a series of bibliographies dealing with a variety of aspects relating to the geology of the Barberton Greenstone Belt and surrounding granite-gneiss terrane in the eastern part of Mpumalanga Province, South Africa and the adjacent Kingdom of eSwatini (previously known as Swaziland). The superb Archaean geology found in this region continues to attract attention from a wide range of South African and foreign Earth Scientists and hence it has become necessary to monitor the research and the numerous publications that still emanate from the region. This bibliography attempts to record most reference works published between December 2002 and September 2019.

The first bibliography, compiled by the author in 1976, appeared as Information Circular No. 102 of the Economic Geology Research Unit, University of the Witwatersrand and contains a comprehensive list of reference pertaining to the geology, mineral deposits and mining in the Barberton region covering the period 1875 to June 1976.


This, the sixth compilation, covers the period from December 2002 to October 2019.

As has been outlined previously the diverse nature of the earth science research that continues unabated in the Barberton-Swaziland region makes it difficult to keep abreast of all the findings reported at international and local conferences, workshops and field schools. It is also not easy to monitor all the research findings being published in a wide spectrum of books, journals, abstract volumes, and field guides. For this reason the bibliography cannot be regarded as fully comprehensive. Some references to works that appeared prior to 2002, and previously overlooked, have been included in the present compilation. While every effort has been made to ensure accuracy of the entries appearing herein, errors and omissions are inevitable, and advice of such would be welcomed by the compiler.

The Economic Geology Research Institute (EGRI) no longer publishes Information Circulars, the last circular being No. 389 which appeared in 2005. Instead, documents emanating from EGRI are posted on the Research Institutes website from where all circulars mentioned above are also freely available at the following address: https://www.wits.ac.za/geosciences/research/economic-geology-research-institute/
LIST OF PUBLICATIONS ARRANGED ALPHABETICALLY
ACCORDING TO AUTHOR FOR THE PERIOD
2002-2019

A


AMERICAN GEOPHYSICAL UNION NEWSROOM, (9 April 2014). Scientists reconstruct ancient impact that dwarfs dinosaur-extinction blast.


5


BARRAS, C., (2016). First life may have been forged in icy seas on a freezing Earth. New Scientist. Magazine issue 3063, published 5 March 2016 (see also De Wit, 2016).


Mendon Formation, Barberton Greenstone Belt, South Africa. Precambrian Research, 261, 54-74.


**DE WIT, M. J.,** (2016). First life may have been forged in icy seas on a freezing Earth. Daily News, 26 February 2016 (news report by Colin Barras).


F


GROSCH, E. G., MCLoughlin, N., LANARI, P., ERAMBERT, M. and VIDAL, O., (2014). Microscale mapping of alteration conditions and potential biosignatures in basaltic-


HARRINGTON, J. A., (2017). Using sedimentology and provenance studies to determine depositional relationships between three structural belts of the ca. 3.22 Ga Fig Tree Group, Barberton Greenstone Belt, South Africa. MSc thesis (unpublished), Stanford University, 93 pp.


HOFFMANN, A., (2005b). The geochemistry of sedimentary rocks from the Fig Tree Group, Barberton Greenstone Belt: Implications for tectonic, hydrothermal and surface processes during mid-Archaean times. Precambrian Research, 143, 23-49.


Economic Geology Research Institute, School of Geosciences, University of the Witwatersrand, Johannesburg, 378, 49 pp.


LANA, C., KISTERS, A. F. M. and STEVENS, G., (2010). Exhumation of Mesoarchean TTG gneisses from the middle crust: Insights from the Steynsdorp core complex, Barberton granitoid-


PUCHTEL, I. S. and WALKER, R. J., (2010). Early Earth’s history as inferred from studies of Archean komatiites. Abstract # V43D-07, Fall AGU Meeting, San Francisco, CA, USA.


Q


R


SANCHEZ-GARRIDO et al., (2011b). GSA DATA REPOSITORY 2011282


TAYLOR, J. and STEVENS, G., (2019). Comment on “High-temperature metamorphism and crustal melting at ca. 3.2 Ga in the eastern Kaapvaal Craton, southern Africa” by Kröner et al.–why heating of the Ancient Gneiss Complex by a mantle plume at 3.2 Ga is not a viable tectonic model. Precambrian Research, 332, 105307.


WILSON, A. C., (1982). 1: 250,000 Geological map of Swaziland. Swaziland Geological Survey and Mines Department, Mbabane, Swaziland.


Z


