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THE *UMFOLOZIA* ARTHROPOD TRACKWAYS IN THE PERMIAN DWYKA AND ECCA GROUPS OF SOUTH AFRICA*

by

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ABSTRACT

Umfolozia trackways are widespread in the glacial Dwyka and in the overlying non-glacial Ecca deposits. Populations from ten localities have been numerically analysed. A consistent, significant difference is found between the inclination of the footprints in the trackways from glacial and non-glacial localities. On the strength of this, two species are distinguished. The trackmakers living in the non-glacial environments also tended to be relatively longer than those living in the glacial environments, but there was apparently no corresponding increase in functional leg length. This resulted in a change in the proportions of the trackways. The evolution of this change suggests that the glacial deposits in Natal are younger than those in southern South West Africa and in the Cape.

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