
Front Matter

Volume 41, Number 2, 2014

URI: <https://id.erudit.org/iderudit/1025336ar>

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Publisher(s)

The Geological Association of Canada

ISSN

0315-0941 (print)

1911-4850 (digital)

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Cite this article

(2014). Front Matter. *Geoscience Canada*, 41(2), i–iii.



A pair of stromatolites within the Cryogenian Trezona Formation near Trezona Bore in the Flinders Ranges, South Australia. These carbonate rocks precede the younger Marinoan glacial succession ~ 635 Ma and record a $\sim 18\%$ negative shift in the $\delta^{13}\text{C}$ around the world. This 'Trezona' isotopic anomaly is the largest $\delta^{13}\text{C}$ shift in Earth history. Left stromatolite is ~ 70 cm in height, and the intra-stromatolite wackestone contains putative fossils of sponge-grade animals. Photograph by Blake Dyer, Princeton University.

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 Print Edition: ISSN 0315-0941
 Online Edition: ISSN 1911-4850

Volume 41

A journal published quarterly by the Geological Association of Canada, incorporating the Proceedings.

Une revue trimestrielle publiée par l'Association géologique du Canada et qui en diffuse les actes.

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