



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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Publisher/Éditeur

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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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