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[See table of contents](#)

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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.

Editor/Rédacteur en chef

Brendan Murphy
 Department of Earth Sciences
 St. Francis Xavier University
 Antigonish, NS B2G 2W5
 E-mail: bmurphy@stfx.ca

Managing Editor/directrice de rédaction

Cindy Murphy
 E-mail: cmurphy@stfx.ca

Publications Director/Directrice de publications

Karen Dawe
 Geological Association of Canada
 St. John's NL Canada A1B 3X5
 Tel: (709) 864-2151
 E-mail: kfmdawe@mun.ca

Copy Editors/Rédacteurs copie

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Illustrator/illustrateur

Peter I. Russell, Waterloo ON

Translator/Traducteur

Jean Alfred Renaud, Sherbrooke QC

Typesetter/Typographe

Bev Strickland, St. John's NL

Publisher/Éditeur

Geological Association of Canada
 c/o Department of Earth Sciences
 Memorial University of Newfoundland
 St. John's NL Canada A1B 3X5
 Tel: (709) 864-7660
 Fax: (709) 864-2532
 gacpub@mun.ca
 gac@mun.ca
 www.gac.ca

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Seeking the Suture: The Coast-Cascade Conundrum <i>J.W.H. Monger</i>	
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Arc and Slab-Failure Magmatism in Cordilleran Batholiths II – The Cretaceous Peninsular Ranges Batholith of Southern and Baja California <i>R.S. Hildebrand and J.B. Whalen</i>	399
Harold Williams Series	
Taconic Metamorphism Preserved in the Baie Verte Peninsula, Newfoundland Appalachians: Geochronological Evidence for Ophiolite Obduction and Subduction and Exhumation of the Leading Edge of the Laurentian (Humber) Margin During Closure of the Taconic Seaway <i>S. Castonguay, C.R. van Staal, N. Joyce, T. Skulski, and J.P. Hibbard</i>	459
The Grand Manan Terrane of New Brunswick: Tectonostratigraphy and Relationship to the Gondwanan Margin of the Iapetus Ocean <i>L.R. Fyffe</i>	483
Detrital Zircon Geochronology Across the Chopawamsic Fault, Western Piedmont of North-Central Virginia: Implications for the Main Iapetan Suture in the Southern Appalachian Orogen <i>K.S. Hughes, J.P. Hibbard, J.C. Pollock, D.J. Lewis, and B.V. Miller</i>	503
Lawrence Head Volcanics and Dunnage Mélange, Newfoundland Appalachians: Origin by Ordovician Ridge Subduction or in Back-Arc Rift? <i>A. Schoonmaker, W.S.F. Kidd, S.E. DeLong, and J.F. Bender</i>	523
Series	
Remote Predictive Mapping 6. A Comparison of Different Remotely Sensed Data for Classifying Bedrock Types in Canada's Arctic: Application of the Robust Classification Method and Random Forests <i>J.R. Harris, J.X. He, R. Rainbird, and P. Behnia</i>	557