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Low-temperature thermochronology of Anticosti Island: A case study on the application of conodont (U-Th)/He thermochronology to carbonate basin analysis

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1 Low-temperature thermochronology of Anticosti Island: a case study on the application of 2 conodont (U-Th)/He thermochronology to carbonate basin analysis 3 Jeremy Powell^{1†}, David A. Schneider¹, André Desrochers¹, Rebecca M. Flowers², James 4 5 Metcalf², Fred Gaidies³, Daniel F. Stockli⁴ 6 7 1. Department of Earth & Environmental Sciences, University of Ottawa, Ottawa, Canada 8 2. Department of Geological Sciences, University of Colorado, Boulder, USA 9 3. Department of Earth Sciences, Carleton University, Ottawa, Canada 10 4. Jackson School of Geosciences, University of Texas at Austin, Austin, USA † present address: Natural Resources Canada, Geological Survey of Canada, Ottawa, Canada 11 12 13 Word Count: 11300 total, 7,840 body 14 15 8 Figures, 2 tables. Online appendix: 10 figures, 6 tables 16 17 Keywords: Thermochronology; Basin analysis; Carbonate basins; Conodont; Anticosti Island; 18 St. Lawrence Platform 19 20 **Corresponding author:** Dr. Jeremy Powell 21 22 Natural Resources Canada 23 Geological Survey of Canada 24 601 Booth st 25 Ottawa, ON K1A 0E8 26 Canada

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