ABSTRACT FORM FOR ALL GSA MEETINGS IN 1995 Complete all sections ① through ⑨ below. ① TYPE ABSTRACT COMPLETELY WITHIN THE BLUE LINES BELOW. (10 point type minimum) FLEX.8E 20 합기 기계를 하는 기원을 일본을 ----abstract. TIMING AND EXTENT OF GLACIATION ON SOUTHERN BAFFIN ISLAND, NUNAVUT

2 CHECK ONE DISCIPLINE (category) below in which reviewers will be best qualified to evaluate your ☐ 1 archaeological geology TERRITORY, ARCTIC CANADA, USING IN SITU COSMOGENIC ISOTOPES 2 coal geology ☐ 3 computers Davis, P. Thompson, Department of Natural Sciences, Bentley College, Waltham, 4 economic geology MA 02154-4705, email: pdavis@bentley.edu; Marsella, Kimberly A., 5 engineering geology Bierman, Paul R., Department of Geology, University of Vermont, Burlington, □ 6 environmental geology VT 05405; Finkel, Robert C., Caffee, Marc W., Southon, John R., and ☐ 7 geochemistry, aqueous/organic Koning, Joseph, Lawrence Livermore National Laboratory, Livermore, CA □ 8 geochemistry, other 94550 9 geology education The vertical and lateral extent of icesheets in the eastern Canadian Arctic during the late ☐ 10 geophysics/ Wisconsinan remains controversial. Recent work by Jennings (1993, 1995, in press) tectonophysics ☐ 11 geoscience information suggests that Laurentide ice extended beyond the mouth of Cumberland Sound during the ☐ 12 history of geology late Wisconsinan, which conflicts with previous work on terrestrial deposits on adjacent □ 13 hydrogeology Cumberland Peninsula where in many areas the late Wisconsinan ice limit has been mapped ☐ 14 marine geology as less extensive than that of the Little Ice Age (Dyke, Miller, and Andrews, 1982). □ 15 micropaleontology ☐ 16 mineralogy/ We retrieved surface samples of crystalline bedrock and morainal boulders for crystallography measurements of cosmic-ray produced radionuclides in situ in quartz. In most instances, we □ 17 paleoceanography/ sampled polished and striated top surfaces of stoss-lee bedrock forms and the largest paleoclimatology boulders on moraine crests. Six striated bedrock surfaces from the Pangnirtung Pass and □ 18 paleontology/ Fjord area have calculated cosmogenic exposure ages ranging from 5.5 to 8.5 ka (using paleobotany □ 19 petroleum geology production rates of Nishiizumi et al., 1989). A sample collected from a bedrock surface ☐ 20 petrology, experimental exposed following retreat of a Little Ice Age glacier advance has very low isotopic □ 21 petrology, igneous abundances and suggests that even such short-lived advances are capable of removing □ 22 petrology, metamorphic isotopic evidence of prior cosmic ray exposure. These data suggest that Pangnirtung Pass □ 23 planetary geology and Fjord were ice scoured as recently as 8 ka, thus the Duval moraines once believed to be 24 Precambrian geology 25 Quaternary geology/ 60-80 ka could be late Wisconsinan in age. geomorphology Samples from 15 additional sites across Cumberland Peninsula that exhibit fresh bedrock ☐ 26 remote sensing polish and striae are being processed, as is a suite of samples of striated bedrock and □ 27 sediments, carbonates unweathered boulders from a site well-constrained by radiocarbon-dated glaciomarine deltas ☐ 28 sediments, clastic ☐ 29 stratigraphy near Iqaluit on Hall Peninsula. Additional sites have been sampled across the Duval moraines

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