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Nº 7842	☐ 3 computers ☐ 4 economic geology ☐ 5 engineering geology
STAGE II "BIG ICE" ON BAFFIN ISLAND MARSELLA, K.A., BIERMAN, P.R., Dept. of Geology, Univ. of Vermont, Burlington, VT 05405, kmarsell@gnu.uvm.edu; DAVIS, P. T., Dept. of Nat. Sci., Bentley College, Waltham, MA 02154; CAFFEE, M.W., Lawrence Livermore National Lab., Livermore, CA 94550 The Duval moraines are the most extensive and well-defined moraines in the Pangnirtung area of southern Cumberland Peninsula. We have dated the Duval moraines directly using the in situ produced cosmogenic isotopes "Be and "Al. We collected 6 boulders from the type locality of the Duval moraines and 7 boulders from Duval equivalent moraines on both sides of the fjord. "Duval" age moraines were determined by air photo analysis based on their altitudinal and stratigraphic position as related to the type locality. Twenty-six exposure ages indicate that the Duval moraine system is late Wisconsinan (Stage 2) in age. However, there is a distinct bi-modal distribution of ages, with 6 boulders between 8 and 10 ka (avg. 9.5) and 5 boulders between 20 and 25 ka (avg. 22.6), which may indicate a complex history of retreats and advances during the late Wisconsinan. This bi-modality includes pairs of boulders only a few meters apart along a single moraine segment, but is not restricted to any one segment. Over 50 other pairs of exposure ages have been calculated for boulders and bedrock in the Pangnirtung Fjord area; of these, at least 6 have a direct bearing on the age of the Duval moraine system. Perched boulders on and above a glaciomarine delta were collected, along with two samples from bedrock ridges adjacent to the delta. This delta is interpreted to have formed when ice stood at the Duval morainal position. The average exposure age of the bedrock samples is 9.6 ka and the age of one of the boulders above the delta is 10.8 ka, constraining the age of the delta to the late Wisconsinan. In addition, a molded bedrock outcrop located just west of the abrupt terminus of the type Duval moraines was sampled along with a prominent, striated	5 engineering geology 6 environmental geology 7 geochemistry, aqueous/organic 8 geochemistry, other 9 geology education 10 geophysics/ tectonophysics 11 geoscience information 12 history of geology 13 hydrogeology 15 micropaleontology 16 mineralogy/ crystallography 17 paleoceanography/ paleoclimatology 18 paleontology 19 petroleum geology 19 petroleum geology 20 petrology, experimental 21 petrology, igneous 22 petrology, metamorphic 23 planetary geology 24 Precambrian geology 25 public policy 26 Quaternary geology/ geomorphology
that these features were formed during the late Wisconsinan and that during Stage 2 the "big ice" model is more accurate for the Pangnirtung Fjord area. The property of the Pangnirtung Fjord area accurate for the Pangnirtung Fjord area.	. ,
¹⁰ Be, ²⁶ Al, Baffin Island, glaciation, moraines In box above, type the 5 most important key words in your abstract, separated by commas (hyphenated words okay).	For Annual Meeting Only ENTER Review Group number from list on "Sample Abstract" Page
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