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Greenland ice sheet contribution to sea level rise during the last interglacial period: a modelling study driven and constrained by ice core data

Supplementary Material

Table SM1: Multi proxy index for Greenland Temperature anomaly relative to present day. Timescale from Lemieux-Dudon et al., 2010. 2 column table.

Time (yrs BP 1950)	Greenland temperature anomaly (° C)
0	0.00
100	1.53
200	0.04
300	-0.42
400	-0.38
500	0.64
600	0.37
700	0.34
800	0.17
900	-0.87
1000	0.66
1100	-0.41
1200	-0.23
1300	-0.20
1400	-0.03
1500	-0.19
1600	1.91
1700	-0.03
1800	-0.43
1900	1.86
2000	-0.12
2100	0.91
2200	-1.18
2300	1.11
2400	0.46
2500	-0.50
2600	-0.38
2700	-0.37
2800	0.88
2900	0.18
3000	1.02
3100	0.33
3200	1.77
3300	0.07
3400	-0.34
3500	0.00
3600	1.56
3700	1.37

3800	0.03
3900	0.92
4000	0.78
4100	-0.59
4200	1.27
4300	0.89
4400	-0.43
4500	0.34
4600	1.74
4700	0.66
4800	1.14
4900	1.22
5000	0.91
5100	1.11
5200	3.49
5300	0.09
5400	1.27
5500	2.02
5600	0.61
5700	0.33
5800	1.85
5900	3.30
6000	1.14
6100	2.53
6200	1.03
6300	2.25
6400	0.78
6500	2.38
6600	0.79
6700	1.36
6800	0.44
6900	1.78
7000	1.37
7100	2.15
7200	1.31
7300	1.06
7400	2.32
7500	3.33
7600	1.78
7700	2.99
7800	2.16
7900	1.50
8000	3.93
8100	1.71
8200	-0.80
8300	-1.18
8400	1.83
8500	1.09
8600	1.89
8700	-0.21
8800	2.13
8900	1.25

9000	1.45
9100	0.77
9200	0.78
9300	-2.52
9400	0.25
9500	0.07
9600	-0.49
9700	0.14
9800	0.92
9900	-0.51
10000	-0.66
10100	-1.24
10200	-0.26
10300	-3.00
10400	-3.89
10500	-3.89
10600	-2.87
10700	-2.63
10800	-5.22
10900	-7.12
11000	-4.61
11100	-6.01
11200	-6.36
11300	-4.76
11400	-7.30
11500	-6.78
11600	-5.28
11700	-10.72
11800	-12.72
11900	-16.69
12000	-14.35
12100	-14.83
12200	-10.43
12300	-15.46
12400	-14.78
12500	-17.60
12600	-16.44
12700	-18.45
12800	-13.40
12900	-13.25
13000	-10.48
13100	-12.45
13200	-14.28
13300	-10.56
13400	-9.11
13500	-9.05
13600	-11.54
13700	-9.90
13800	-10.25
13900	-9.36
14000	-10.81
14100	-8.50

14200	-7.43
14300	-6.37
14400	-3.87
14500	-4.36
14600	-3.32
14700	-14.95
14800	-13.26
14900	-13.83
15000	-19.80
15100	-21.96
15200	-18.53
15300	-18.32
15400	-13.64
15500	-18.23
15600	-19.10
15700	-21.96
15800	-22.80
15900	-21.13
16000	-18.23
16100	-25.50
16200	-17.52
16300	-15.29
16400	-20.33
16500	-16.43
16600	-14.99
16700	-15.17
16800	-15.82
16900	-14.34
17000	-18.71
17100	-11.21
17200	-14.99
17300	-13.17
17400	-16.66
17500	-15.40
17600	-18.13
17700	-15.38
17800	-15.87
17900	-16.45
18000	-19.18
18100	-20.69
18200	-16.09
18300	-18.95
18400	-19.39
18500	-13.85
18600	-20.60
18700	-17.85
18800	-17.28
18900	-14.41
19000	-16.88
19100	-18.66
19200	-22.76
19300	-20.32

19400	-20.65
19500	-19.00
19600	-14.89
19700	-17.39
19800	-20.51
19900	-17.22
20000	-20.17
20100	-16.98
20200	-20.48
20300	-18.39
20400	-24.61
20500	-18.39
20600	-18.72
20700	-22.42
20800	-20.93
20900	-21.62
21000	-25.41
21100	-21.71
21200	-23.10
21300	-16.21
21400	-19.81
21500	-24.76
21600	-16.21
21700	-17.60
21800	-22.18
21900	-17.02
22000	-20.00
22100	-16.13
22200	-17.37
22300	-19.53
22400	-19.45
22500	-18.53
22600	-19.34
22700	-21.66
22800	-19.86
22900	-19.39
23000	-18.09
23100	-22.34
23200	-17.24
23300	-11.55
23400	-20.47
23500	-18.57
23600	-17.99
23700	-24.58
23800	-23.14
23900	-21.12
24000	-16.03
24100	-23.82
24200	-19.09
24300	-22.90
24400	-22.94
24500	-20.84

24600	-18.46
24700	-25.11
24800	-21.38
24900	-25.43
25000	-19.98
25100	-24.03
25200	-21.06
25300	-22.98
25400	-21.87
25500	-23.41
25600	-22.24
25700	-28.26
25800	-21.90
25900	-24.52
26000	-19.81
26100	-22.67
26200	-17.61
26300	-20.62
26400	-17.79
26500	-20.22
26600	-21.56
26700	-22.34
26800	-24.12
26900	-21.89
27000	-22.59
27100	-20.49
27200	-21.44
27300	-21.89
27400	-22.33
27500	-20.67
27600	-15.81
27700	-14.55
27800	-22.68
27900	-25.23
28000	-23.21
28100	-25.34
28200	-22.35
28300	-22.25
28400	-25.26
28500	-25.56
28600	-20.64
28700	-13.88
28800	-10.15
28900	-18.45
29000	-26.36
29100	-25.81
29200	-26.19
29300	-22.25
29400	-21.16
29500	-22.84
29600	-27.45
29700	-28.91

29800	-21.99
29900	-24.65
30000	-20.57
30100	-25.29
30200	-20.75
30300	-24.82
30400	-22.92
30500	-22.86
30600	-23.50
30700	-21.50
30800	-23.03
30900	-21.00
31000	-23.90
31100	-23.41
31200	-25.71
31300	-22.85
31400	-25.80
31500	-21.18
31600	-21.30
31700	-22.03
31800	-21.12
31900	-25.02
32000	-19.38
32100	-16.24
32200	-15.33
32300	-14.51
32400	-10.99
32500	-13.63
32600	-22.35
32700	-27.15
32800	-25.38
32900	-23.47
33000	-23.71
33100	-23.70
33200	-19.78
33300	-21.95
33400	-16.03
33500	-12.33
33600	-13.16
33700	-10.98
33800	-18.17
33900	-16.48
34000	-19.95
34100	-18.54
34200	-21.33
34300	-21.55
34400	-23.77
34500	-20.99
34600	-20.68
34700	-18.67
34800	-11.69
34900	-16.04

35000	-15.81
35100	-12.13
35200	-13.56
35300	-12.88
35400	-12.01
35500	-15.64
35600	-20.99
35700	-20.36
35800	-20.71
35900	-24.80
36000	-19.30
36100	-20.82
36200	-14.93
36300	-24.32
36400	-19.34
36500	-17.84
36600	-19.06
36700	-17.63
36800	-16.27
36900	-16.16
37000	-15.77
37100	-15.16
37200	-13.09
37300	-13.15
37400	-13.72
37500	-9.78
37600	-9.65
37700	-9.78
37800	-10.57
37900	-11.23
38000	-10.99
38100	-10.02
38200	-7.40
38300	-18.25
38400	-16.83
38500	-17.81
38600	-17.52
38700	-22.22
38800	-23.23
38900	-17.20
39000	-17.23
39100	-20.57
39200	-18.64
39300	-21.32
39400	-22.13
39500	-23.15
39600	-17.23
39700	-19.07
39800	-18.67
39900	-19.36
40000	-15.13
40100	-12.30

40200	-22.02
40300	-19.07
40400	-17.32
40500	-18.67
40600	-20.30
40700	-19.97
40800	-20.76
40900	-17.86
41000	-15.94
41100	-12.14
41200	-11.28
41300	-9.08
41400	-10.22
41500	-20.77
41600	-19.53
41700	-19.99
41800	-21.63
41900	-20.32
42000	-20.65
42100	-18.36
42200	-18.41
42300	-14.32
42400	-14.77
42500	-17.43
42600	-15.17
42700	-12.17
42800	-13.41
42900	-12.52
43000	-11.39
43100	-8.29
43200	-12.39
43300	-11.35
43400	-16.50
43500	-19.28
43600	-22.73
43700	-20.03
43800	-19.48
43900	-18.05
44000	-16.22
44100	-20.60
44200	-17.53
44300	-16.72
44400	-12.81
44500	-11.43
44600	-19.28
44700	-14.56
44800	-17.18
44900	-17.93
45000	-15.58
45100	-15.28
45200	-13.98
45300	-12.67

45400	-14.38
45500	-11.75
45600	-11.24
45700	-10.50
45800	-10.18
45900	-10.38
46000	-10.64
46100	-10.20
46200	-10.87
46300	-10.26
46400	-9.54
46500	-6.82
46600	-11.60
46700	-8.81
46800	-6.33
46900	-21.64
47000	-18.95
47100	-19.06
47200	-19.83
47300	-20.76
47400	-19.02
47500	-22.33
47600	-16.25
47700	-21.04
47800	-20.06
47900	-19.26
48000	-18.53
48100	-21.10
48200	-21.81
48300	-19.69
48400	-19.07
48500	-16.88
48600	-17.02
48700	-17.85
48800	-14.54
48900	-13.02
49000	-12.10
49100	-17.60
49200	-10.89
49300	-15.79
49400	-18.82
49500	-15.63
49600	-15.56
49700	-14.85
49800	-13.05
49900	-16.10
50000	-14.96
50100	-14.61
50200	-14.81
50300	-16.46
50400	-13.57
50500	-12.74

50600	-15.68
50700	-15.12
50800	-14.70
50900	-13.85
51000	-12.33
51100	-13.21
51200	-13.12
51300	-16.21
51400	-12.46
51500	-15.22
51600	-17.40
51700	-10.58
51800	-12.02
51900	-12.52
52000	-11.10
52100	-12.03
52200	-10.58
52300	-10.89
52400	-13.43
52500	-8.93
52600	-10.46
52700	-11.80
52800	-9.44
52900	-12.53
53000	-11.76
53100	-12.21
53200	-10.92
53300	-10.39
53400	-12.24
53500	-8.81
53600	-10.49
53700	-12.75
53800	-9.15
53900	-7.26
54000	-16.38
54100	-10.70
54200	-7.88
54300	-20.03
54400	-20.37
54500	-22.01
54600	-18.08
54700	-19.75
54800	-15.79
54900	-16.02
55000	-13.86
55100	-19.24
55200	-18.49
55300	-21.68
55400	-16.47
55500	-11.50
55600	-13.44
55700	-9.16

55800	-16.14
55900	-20.99
56000	-23.65
56100	-18.96
56200	-21.38
56300	-20.37
56400	-17.97
56500	-16.14
56600	-16.14
56700	-13.11
56800	-14.84
56900	-13.78
57000	-15.24
57100	-14.07
57200	-12.61
57300	-15.40
57400	-13.10
57500	-15.27
57600	-9.37
57700	-11.87
57800	-10.39
57900	-12.82
58000	-9.39
58100	-17.29
58200	-9.92
58300	-18.25
58400	-18.44
58500	-21.85
58600	-16.10
58700	-13.65
58800	-17.42
58900	-12.31
59000	-9.89
59100	-19.00
59200	-20.13
59300	-19.74
59400	-8.26
59500	-17.98
59600	-22.73
59700	-20.73
59800	-20.46
59900	-23.03
60000	-21.80
60100	-23.29
60200	-22.20
60300	-22.42
60400	-21.23
60500	-22.11
60600	-25.21
60700	-21.92
60800	-22.23
60900	-25.12

61000	-21.83
61100	-24.53
61200	-24.27
61300	-23.29
61400	-23.84
61500	-22.99
61600	-25.69
61700	-24.87
61800	-23.99
61900	-26.25
62000	-23.17
62100	-24.85
62200	-23.21
62300	-25.49
62400	-24.26
62500	-23.17
62600	-21.54
62700	-21.43
62800	-22.88
62900	-21.04
63000	-22.97
63100	-22.55
63200	-12.68
63300	-13.19
63400	-15.84
63500	-21.38
63600	-20.29
63700	-23.79
63800	-25.04
63900	-24.70
64000	-24.44
64100	-22.54
64200	-22.91
64300	-21.38
64400	-22.51
64500	-20.68
64600	-23.60
64700	-23.41
64800	-24.47
64900	-23.33
65000	-23.81
65100	-25.47
65200	-23.85
65300	-23.52
65400	-22.42
65500	-21.44
65600	-22.84
65700	-24.46
65800	-23.12
65900	-21.75
66000	-21.91
66100	-21.94

66200	-23.10
66300	-22.65
66400	-23.96
66500	-21.15
66600	-18.85
66700	-21.15
66800	-22.85
66900	-24.21
67000	-23.22
67100	-22.79
67200	-23.03
67300	-23.37
67400	-21.95
67500	-22.18
67600	-23.39
67700	-23.15
67800	-22.24
67900	-22.67
68000	-20.89
68100	-21.57
68200	-21.65
68300	-22.89
68400	-23.09
68500	-20.69
68600	-14.27
68700	-12.19
68800	-23.25
68900	-23.55
69000	-22.92
69100	-22.06
69200	-20.88
69300	-21.58
69400	-18.40
69500	-18.41
69600	-18.39
69700	-16.16
69800	-14.53
69900	-15.35
70000	-13.05
70100	-13.51
70200	-12.13
70300	-12.43
70400	-11.21
70500	-9.59
70600	-9.46
70700	-9.19
70800	-10.21
70900	-22.83
71000	-23.06
71100	-24.33
71200	-25.25
71300	-24.47

71400	-25.02
71500	-24.25
71600	-24.51
71700	-24.37
71800	-24.29
71900	-25.69
72000	-24.74
72100	-23.58
72200	-24.31
72300	-24.23
72400	-22.83
72500	-24.33
72600	-19.50
72700	-12.69
72800	-16.33
72900	-15.01
73000	-13.24
73100	-11.57
73200	-12.38
73300	-10.99
73400	-11.80
73500	-11.58
73600	-11.61
73700	-10.32
73800	-8.87
73900	-9.06
74000	-8.17
74100	-7.57
74200	-10.09
74300	-19.13
74400	-18.88
74500	-18.94
74600	-18.99
74700	-20.75
74800	-19.78
74900	-19.75
75000	-20.38
75100	-19.05
75200	-18.74
75300	-19.70
75400	-19.85
75500	-18.92
75600	-20.82
75700	-20.73
75800	-18.98
75900	-16.36
76000	-15.28
76100	-15.43
76200	-13.18
76300	-14.21
76400	-12.72
76500	-13.22

76600	-11.15
76700	-11.27
76800	-11.25
76900	-9.96
77000	-12.51
77100	-14.27
77200	-13.37
77300	-13.37
77400	-12.75
77500	-13.45
77600	-12.29
77700	-10.86
77800	-11.94
77900	-11.42
78000	-10.15
78100	-11.95
78200	-11.39
78300	-9.62
78400	-10.16
78500	-11.16
78600	-9.55
78700	-8.57
78800	-9.64
78900	-8.60
79000	-9.01
79100	-8.65
79200	-8.50
79300	-8.47
79400	-8.09
79500	-8.01
79600	-7.25
79700	-7.35
79800	-5.61
79900	-7.59
80000	-8.45
80100	-8.49
80200	-7.48
80300	-7.28
80400	-8.72
80500	-7.64
80600	-7.42
80700	-7.46
80800	-7.77
80900	-6.73
81000	-8.67
81100	-8.13
81200	-8.80
81300	-5.71
81400	-5.64
81500	-7.34
81600	-7.24
81700	-7.49

81800	-8.06
81900	-6.94
82000	-5.53
82100	-6.51
82200	-4.96
82300	-7.33
82400	-7.67
82500	-8.65
82600	-7.85
82700	-6.20
82800	-6.71
82900	-6.97
83000	-8.36
83100	-8.32
83200	-8.41
83300	-6.70
83400	-6.32
83500	-4.93
83600	-8.43
83700	-16.10
83800	-15.34
83900	-9.67
84000	-14.05
84100	-13.08
84200	-16.30
84300	-15.14
84400	-14.06
84500	-16.25
84600	-15.08
84700	-17.05
84800	-16.59
84900	-15.97
85000	-17.10
85100	-14.71
85200	-14.18
85300	-16.36
85400	-16.37
85500	-17.03
85600	-16.87
85700	-15.49
85800	-15.27
85900	-16.11
86000	-16.71
86100	-17.31
86200	-18.21
86300	-15.97
86400	-16.55
86500	-15.85
86600	-16.15
86700	-16.42
86800	-17.87
86900	-17.91

87000	-18.14
87100	-16.76
87200	-17.05
87300	-17.44
87400	-16.89
87500	-17.78
87600	-17.08
87700	-15.72
87800	-14.00
87900	-10.89
88000	-12.87
88100	-14.75
88200	-13.54
88300	-11.62
88400	-9.91
88500	-10.24
88600	-10.74
88700	-11.84
88800	-9.23
88900	-8.96
89000	-8.10
89100	-8.81
89200	-8.14
89300	-11.24
89400	-8.76
89500	-13.05
89600	-12.62
89700	-13.11
89800	-12.16
89900	-12.50
90000	-12.82
90100	-11.97
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176300	-9.92
176400	-9.43
176500	-8.94
176600	-8.46
176700	-8.08
176800	-8.05
176900	-8.02
177000	-7.98
177100	-7.95
177200	-7.91
177300	-7.94
177400	-8.04
177500	-8.14
177600	-8.24
177700	-8.34
177800	-8.56
177900	-9.21
178000	-9.85
178100	-10.50
178200	-11.14
178300	-11.79
178400	-12.43
178500	-12.53
178600	-12.47
178700	-12.42
178800	-12.37
178900	-12.31
179000	-12.55
179100	-12.86
179200	-13.17
179300	-13.48
179400	-13.79
179500	-14.10
179600	-14.25
179700	-13.87
179800	-13.48
179900	-13.09
180000	-12.70
180100	-12.31
180200	-11.92
180300	-11.80
180400	-11.75
180500	-11.70

180600	-11.66
180700	-11.61
180800	-11.56
180900	-11.51
181000	-11.46
181100	-11.45
181200	-11.45
181300	-11.45
181400	-11.45
181500	-11.45
181600	-11.34
181700	-11.04
181800	-10.75
181900	-10.45
182000	-10.15
182100	-9.86
182200	-9.56
182300	-9.34
182400	-9.32
182500	-9.30
182600	-9.28
182700	-9.26
182800	-9.23
182900	-9.21
183000	-9.20
183100	-9.18
183200	-9.16
183300	-9.15
183400	-9.13
183500	-9.12
183600	-9.10
183700	-9.08
183800	-9.28
183900	-9.52
184000	-9.76
184100	-10.00
184200	-10.24
184300	-10.62
184400	-11.01
184500	-11.39
184600	-11.78
184700	-12.17
184800	-12.55
184900	-12.84
185000	-13.00
185100	-13.16
185200	-13.33
185300	-13.49
185400	-13.65
185500	-13.81
185600	-13.95
185700	-14.07

185800	-14.19
185900	-14.31
186000	-14.43
186100	-14.55
186200	-14.67
186300	-14.76
186400	-14.85
186500	-14.95
186600	-15.04
186700	-15.13
186800	-15.23
186900	-15.32
187000	-15.23
187100	-15.11
187200	-14.99
187300	-14.87
187400	-14.76
187500	-14.57
187600	-14.36
187700	-14.16
187800	-13.95
187900	-13.75
188000	-13.98
188100	-14.41
188200	-14.84
188300	-15.27
188400	-15.70
188500	-16.12
188600	-16.15
188700	-16.17
188800	-16.20
188900	-16.22
189000	-16.25
189100	-16.17
189200	-16.07
189300	-15.97
189400	-15.87
189500	-15.76
189600	-15.66
189700	-15.28
189800	-14.90
189900	-14.52
190000	-14.14
190100	-13.76
190200	-13.38
190300	-13.16
190400	-13.15
190500	-13.14
190600	-13.13
190700	-13.12
190800	-13.12
190900	-13.11

191000	-13.10
191100	-13.00
191200	-12.69
191300	-12.38
191400	-12.07
191500	-11.76
191600	-11.45
191700	-11.24
191800	-11.03
191900	-10.82
192000	-10.61
192100	-10.40
192200	-10.50
192300	-10.60
192400	-10.70
192500	-10.80
192600	-10.90
192700	-11.00
192800	-11.11
192900	-11.22
193000	-11.33
193100	-11.45
193200	-11.56
193300	-11.69
193400	-11.91
193500	-12.13
193600	-12.34
193700	-12.56
193800	-12.78
193900	-12.99
194000	-12.87
194100	-12.69
194200	-12.51
194300	-12.33
194400	-12.15
194500	-11.97
194600	-11.48
194700	-10.99
194800	-10.50
194900	-10.01
195000	-9.52
195100	-9.19
195200	-9.14
195300	-9.10
195400	-9.05
195500	-9.00
195600	-8.95
195700	-8.77
195800	-8.59
195900	-8.40
196000	-8.22
196100	-8.03

196200	-7.83
196300	-7.62
196400	-7.42
196500	-7.21
196600	-7.01
196700	-6.70
196800	-6.37
196900	-6.04
197000	-5.71
197100	-5.38
197200	-5.45
197300	-5.59
197400	-5.73
197500	-5.87
197600	-5.94
197700	-5.66
197800	-5.39
197900	-5.11
198000	-4.84
198100	-4.63
198200	-4.46
198300	-4.29
198400	-4.12
198500	-3.70
198600	-2.82
198700	-1.94
198800	-1.05
198900	-0.17
199000	-0.71
199100	-1.32
199200	-1.92
199300	-2.53
199400	-3.12
199500	-3.70
199600	-4.28
199700	-4.86
199800	-5.44
199900	-6.02
200000	-6.60

Figure SM1: (A) Bedrock topography from Amante and Eakins (2009). (B) Map of allowed ice streams (grey area) restricted to bedrock valleys (curvature criteria) and observed present-day high velocity (Joughin et al., 2010).

