

Figure	Data	Intercept ( $\pm$ standard error)	Gradient ( $\pm$ standard error)	R <sup>2</sup>	n
2	2016 Si (S <30.4)	6.38 $\pm$ 1.10	-0.148 $\pm$ 0.041	0.241	43
2	2016 N (S <30.4)	3.37 $\pm$ 0.62	-0.0798 $\pm$ 0.0230	0.226	43
2	2016 P (S <30.4)	0.025 $\pm$ 0.082	0.00222 $\pm$ 0.00306	0.013	43
3	Si Godthabsfjord (depth < 20 m)	24.76 $\pm$ 0.94	-0.683 $\pm$ 0.031	0.600	324
3	Si Kongsfjorden (depth < 20 m)	4.61 $\pm$ 0.40	-0.0918 $\pm$ 0.0131	0.269	136
3	Si Leverett (depth < 20 m)	2.33 $\pm$ 2.92	1.42 $\pm$ 0.48	0.749	5
3	Si Gulf of Alaska (depth < 20 m)	29.1 $\pm$ 5.1	-0.616 $\pm$ 0.18	0.184	54
3	Si Bowdoin (depth < 20 m)	8.49 $\pm$ 1.25	-0.0918 $\pm$ 0.0602	0.039	59
3	Si Sermilik (depth < 20 m)	7.47 $\pm$ 3.65	-0.166 $\pm$ 0.121	0.050	38
6	2013 TA	2320 $\pm$ 3	-1666 $\pm$ 84	0.945	25
6	2014 TA	2313 $\pm$ 2	-1527 $\pm$ 58	0.973	40

Table S1. Linear regressions for Figures 2, 3 and 6. Statistics calculated in Sigma Plot.