

**Table S1.** Measured versus modeled basal ice temperature gradients.

Borehole site	Measured <sup>1</sup> [K m <sup>-1</sup> ]	Modeled <sup>2</sup> [K m <sup>-1</sup> ]
UpB camp	-0.037 to -0.049	-0.048
Byrd Station	-0.032	-0.032
Siple Dome	-0.033	-0.039
Unicorn	-0.051 to -0.083	-0.073
UpD camp	-0.061	-0.068

<sup>1</sup> From Kamb (2001) or Engelhardt (2004).

<sup>3</sup> This study.