Qualitative Data Quality Evaluation Parameters

Grade *1 = Lowest reliability, *2 = Intermediate reliability, *3 = Highest reliability

Method	Grade	Requirements
Bedrock Borehole	R1	Derived from bedrock borehole temperature profile. No specific requirements or information on depth, location, or other variables.
	R2	Proven stable temperature profile. Maximum borehole depth greater than 90 m.
	R3	Proven stable temperature profile. Maximum borehole depth greater than 1,000 m. Low possibility of local temperature perturbations (e.g. hydrothermal circulation; active or residual basal shear heating from the ice sheet; temperature profile not steady state).
Ice Borehole	I1	Derived from ice borehole temperature profile. No specific requirements or information on depth, location, or other variables.
	I2	Ice sheet frozen to the bed. Proven stable temperature profile. Maximum borehole depth greater than 600 m.
	I3	Ice sheet frozen to the bed. Proven stable temperature profile. Maximum borehole depth greater than 1,000 m. Low possibility of local temperature perturbations (e.g. hydrothermal circulation; active or residual basal shear heating from the ice sheet; temperature profile not steady state).
Unconsolidated Sediment Probe	S1	Derived from unconsolidated sediment temperature profile. No specific requirements or information on depth, location, or other variables.
	S2	Proven stable temperature profile. Maximum probe depth greater than 3 m. Marine measurements from water depths greater than 500 m.
	S3	Proven stable temperature profile. Maximum probe depth greater than 5 m. Marine measurements from water depths greater than 1,000 m. Low possibility of local temperature perturbations (e.g. hydrothermal circulation; active or residual basal shear heating from the ice sheet; temperature profile not steady state).