

This **Supplemental Material** accompanies Wiedmer, R.M., Gillespie, A.R., Montgomery, D.R., and Greenberg, H.M., 2021, Further evidence for the Matanuska megaflood hypothesis, Alaska, *in* Waitt, R.B., Thackray, G.D., and Gillespie, A.R., eds., *Untangling the Quaternary Period—A Legacy of Stephen C. Porter*: Geological Society of America Special Paper 548, [https://doi.org/10.1130/2021.2548\(19\)](https://doi.org/10.1130/2021.2548(19)).

TABLE S1. GROUND-PENETRATING RADAR TRANSECTS. LOCATIONS ARE THOSE USED IN FIGURES 2, 3, 17, S2–S6, AND IN THE MAIN TEXT.

Location	Road/site	Length (m)	Landform	Beginning (DDD.DDDD°)		End (DDD.DDDD°)		Surface	Antenna (MHz)
				Lat.	Long.	Lat.	Long.		
AD	S. Andrea Drive	116	Drumlin	61.5415	-149.7076	61.5405	-149.7077	Gravel	50
AL	S. Alder Lane	274	Moraine	61.5525	-149.4015	61.5550	-149.4015	Gravel	50, 100
CD	N. Castle Drive	91	Very large dune	61.6139	-149.7346	61.6130	-149.7346	Gravel	50, 100
CR	W. Carmel Road	1095	Drumlin	61.5127	-149.6905	61.5127	-149.7108	Gravel	50
DD	N. Dodge Drive	184	Very large dune	61.5994	-149.7618	61.6010	-149.7618	Gravel	50, 100
DR	W. Delroy Road	1060	Very large dune	61.5994	-149.7616	61.5994	-149.7814	Gravel	50
DR _a	W. Delroy Road Transect 1	308	Very large dune	61.5994	-149.7616	61.5994	-149.7672	Gravel	100
DR _b	W. Delroy Road Transect 2	426	Very large dune	61.5994	-149.7737	61.5994	-149.7814	Gravel	100
FP	W. Frances Clar Powerline	132	Large and very large dune	61.5851	-149.7916	61.5851	-149.7941	Undisturbed	100
HL	W. Hawk Lane	507	Large and very large dune	61.5854	-149.7843	61.5857	-149.7954	Native soil	50
HL _a	W. Hawk Lane 100 MHz	131	Large and very large dune	61.5854	-149.7843	61.5854	-149.7871	Native soil	100
HR	W. Hollywood Road	731	Drumlin	61.5417	-149.6999	61.5418	-149.7136	Paved	50
HS	S. Horseshoe Lake Road	43	Esker	61.5636	-149.9061	61.5639	-149.9065	Gravel/Paved	50
JL	Johnson Lake trail	367	Crevasse fill	61.5666	-149.2459	61.5686	-149.2413	Gravel	50, 100
KA	W. King Arthur Drive	1585	Very large dune	61.6140	-149.7530	61.6139	-149.7233	Paved	50, 100
KK	S. Knik Knack Mud Shack Road	362	Drumlin	61.5127	-149.6905	61.5095	-149.6903	Gravel	50
LM	Lateral moraine	420	Very large dune to lateral moraine transition	61.6766	-149.8225	61.6790	-149.8272	Gravel	50
LM _a	Lateral moraine 100 MHz	185	Very large dune to lateral moraine transition	61.6774	-149.8224	61.6787	-149.8240	Gravel	100
SC	S. Cotten Drive	274	Moraine	61.5574	-149.3902	61.5597	-149.3902	Paved	100
SC _a	S. Cotten Drive	157	Moraine	61.5574	-149.3902	61.5591	-149.3902	Paved	50
T _l	Trough (longitudinal to axis)	29	Trough between crevasse fills	61.5671	-149.2468	61.5671	-149.2473	Undisturbed	50
T _n	Trough (normal to axis)	13	Trough between crevasse fills	61.5671	-149.2472	61.5672	-149.2472	Undisturbed	50
WL	W. Lakes Boulevard	48	Esker	61.5638	-149.9054	61.5636	-149.9061	Gravel	50
ZL	W. Zero Lake logging road	210	Large and very large dune	61.6551	-149.8296	61.6552	-149.8265	Native soil	50