

Wall W.A., Busby R. Bosche L., 2024. Vegetation predicts soil shear strength in Arctic Soils: Ground-based and remote sensing techniques. Ann. For. Res. 67(1): 155-166.

Supplementary Table 1 Correlation matrix for ground-based and remotely sensed variables for 24 vegetation plots in interior Alaska.

	TotalTrees	AveDBH	TotalConifers	AveConiferD BH	TotalHardw oods	AveHardwoodDB H	GraminoidCo ver_cat2	MossCover_ cat1	B1_MEAN	B2_MEAN	B3_MEAN	B4_MEAN	B5_MEAN	B6_MEAN	B7_MEAN	B8A_MEAN	B8_MEAN	B11_MEAN	B12_MEAN	Brightness	Greenness_	NDVI_MEAN	
TotalTrees																							
AveDBH	-0.17																						
TotalConifers	0.6	-0.15																					
AveConiferDBH	-0.05	0.59	0.39																				
TotalHardwoods	0.44	-0.03	-0.45	-0.49																			
AveHardwoodDBH	-0.26	0.07	-0.65	-0.27	0.45																		
GraminoidCover_cat2	-0.67	-0.35	-0.59	-0.41	-0.08	0.28																	
MossCover_cat1	0.23	0.09	0.53	0.28	-0.34	-0.54	-0.57																
B1_MEAN	-0.85	0.04	-0.54	0.07	-0.33	0.18	0.57	-0.21															
B2_MEAN	-0.73	-0.1	-0.57	-0.26	-0.18	0.36	0.6	-0.29	0.8														
B3_MEAN	-0.46	-0.27	-0.6	-0.55	0.15	0.46	0.64	-0.43	0.48	0.79													
B4_MEAN	-0.37	-0.17	-0.57	-0.48	0.23	0.42	0.42	-0.29	0.47	0.77	0.87												
B5_MEAN	-0.25	-0.3	-0.54	-0.58	0.33	0.48	0.53	-0.42	0.27	0.59	0.94	0.81											
B6_MEAN	0.01	-0.21	-0.51	-0.52	0.58	0.57	0.35	-0.48	0	0.24	0.69	0.53	0.85										
B7_MEAN	0.02	-0.18	-0.51	-0.5	0.6	0.58	0.34	-0.5	0	0.24	0.66	0.52	0.83	1									
B8A_MEAN	0.02	-0.21	-0.51	-0.52	0.59	0.57	0.34	-0.48	0.01	0.24	0.67	0.52	0.84	1	1								
B8_MEAN	0.08	-0.2	-0.48	-0.53	0.63	0.56	0.3	-0.48	-0.07	0.19	0.66	0.52	0.83	0.99	0.99	0.99							
B11_MEAN	-0.08	-0.3	-0.52	-0.56	0.5	0.49	0.42	-0.44	0.13	0.39	0.79	0.7	0.93	0.96	0.95	0.96	0.94						
B12_MEAN	-0.12	-0.29	-0.52	-0.54	0.45	0.47	0.42	-0.41	0.2	0.47	0.82	0.79	0.93	0.9	0.89	0.9	0.89	0.98					
Brightness	0	-0.21	-0.52	-0.53	0.59	0.57	0.36	-0.49	0.02	0.27	0.71	0.56	0.87	1	1	1	0.99	0.97	0.92				
Greenness_	0.11	-0.18	-0.46	-0.49	0.64	0.56	0.27	-0.47	-0.1	0.13	0.58	0.44	0.78	0.99	0.99	0.99	0.99	0.92	0.85	0.99			
NDVI_MEAN	0.07	-0.23	-0.44	-0.48	0.58	0.58	0.33	-0.49	-0.12	0.12	0.59	0.39	0.77	0.97	0.97	0.97	0.97	0.89	0.81	0.97	0.98		
Wetness_ME	-0.09	0.25	0.45	0.54	-0.61	-0.49	-0.28	0.42	0.05	-0.21	-0.66	-0.59	-0.85	-0.97	-0.97	-0.98	-0.98	-0.98	-0.94	-0.98	-0.96	-0.93	