

Supplement of

**Characterizing Spatial Structures of Field-Scale Snowpack using
Unpiloted Aerial System (UAS) Lidar and SfM Photogrammetry**

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Table S1. Summary statistics of UAS Lidar and Structure-from-Motion (SfM) photogrammetry snow depth values with in-situ snow depths from Magnaprobe (MP) and field cameras from February 4th to March 7th. All values were calculated from snow depth pairs only.

Statistic	Measurement Type	Field	Forest
Mean (cm)	MP	14.2	14.8
	SfM at MP	15.6	41.9
	Lidar at MP	14.8	7.7
	Cameras	9.4	9.6
	SfM at Cameras	12.5	43.0
	Lidar at Cameras	9.7	9.3
Bias (cm)	MP vs SfM	-0.61	-27.0
	MP vs Lidar	-1.43	7.01
	Cameras vs SfM	-3.15	-33.5
	Cameras vs Lidar	-0.34	0.36
Standard Deviation (cm)	MP	5.14	4.28
	SfM at MP	10.34	66.6
	Lidar at MP	6.15	5.27
	Cameras	7.34	6.36
	SfM at Cameras	27.06	88.2
	Lidar at Cameras	8.10	7.64
N	MP	107	68.0
	SfM at MP	105	56.0
	Lidar at MP	107	61.0
	Cameras	16	16.0
	SfM at Cameras	16	15.0
	Lidar at Cameras	16	16.0
a	MP vs SfM	-0.49	24.3
	MP vs Lidar	1.10	-3.87
	Cameras vs SfM	3.88	33.6
	Cameras vs Lidar	0.99	-1.27
b	MP vs SfM	1.13	1.18
	MP vs Lidar	0.97	0.79
	Cameras vs SfM	0.06	0.98
	Cameras vs Lidar	0.93	1.09
r ²	MP vs SfM	0.33	0.01
	MP vs Lidar	0.65	0.41
	Cameras vs SfM	0.06	0.01
	Cameras vs Lidar	0.71	0.80
MAD (cm)	MP vs SfM	4.97	32.0
	MP vs Lidar	2.96	7.25
	Cameras vs SfM	14.3	44.7
	Cameras vs Lidar	3.02	2.69
RMSD (cm)	MP vs SfM	8.60	71.1
	MP vs Lidar	3.67	8.13
	Cameras vs SfM	25.6	91.4
	Cameras vs Lidar	4.27	3.3
P-Value	MP vs SfM	0.09	0
	MP vs Lidar	0.09	0
	Cameras vs SfM	0.64	0.16
	Cameras vs Lidar	0.76	0.68