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September 14, 2016

Appendix
Variability

Point Scale - boxplots, std, Zigzag - vertex vs measured, plots, variograms, mean + std + vario summary table Watershed - plots, variograms, mean + std + vario summary table

Point Scale

Observer differences

A one-way ANOVA for each transect pattern of snow depth measurements taken by different observers shows that there are no differences between observers. The only exception is the Lower Hourglass on Glacier 4, where one observer had higher mean snow depth than the other two ($p < 0.05$). This shows that observer bias is not present in this study and no corrections to the data based on observer were applied.

The mean standard deviation of measurements taken at each location with various grouping can be seen in Table
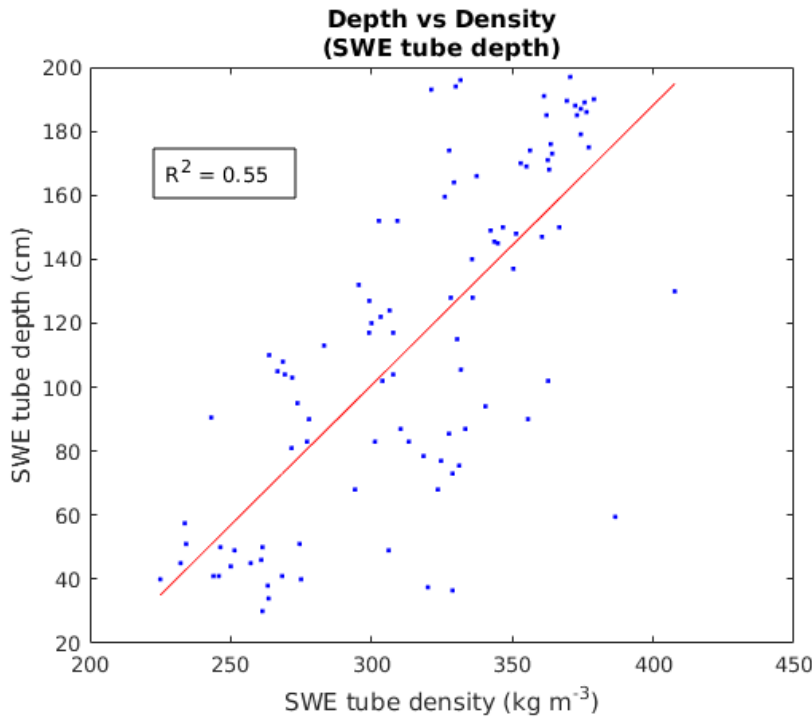
1.

Figure 1: Relationship between measured density and snow depth for all Federal Sampler measurements.

Table 1: My caption

Glacier	Pattern	Overall Glacier	Overall Pattern	AP	Person GF	CA	AC
G04	LH		5.1	4.8	-	8.5	2
	LC		4.7	4.3	-	8.2	1.7
	LM		3.7	-	4.7	4.6	1.9
	UH	3.5	2.6	3.4	2.2	-	2.3
	UC		1.9	1.9	2.3	-	1.5
	UM		1.9	-	1.7	2	2
	UT		3.9	3.7	-	2.4	5.6
G02	LH		5.4	4.8	-	6.1	-
	LC		5	3.9	-	6.2	-
	LM		6.5	-	6.8	6.5	6
	UH	5.1	4.1	3.5	4.4	4.5	-
	UC		7	5.5	7	8.7	-
	UM		4.2	3.2	5.2	4.1	-
	UT		5.6	3.2	-	8.2	-
	BT		2.2	2.2	-	3	1.5
G13	LH		3.8	3.1	4.1	4	-
	LC		4.5	2.9	4.8	5.8	-
	LM		6.6	4.6	7.7	7.6	-
	UH	4.2	3.5	3.4	3.6	3.4	-
	UC		3.8	3.4	4	4	-
	UM		4.8	4.4	5.8	4.4	-
	UT		4.1	2.7	4.8	4.6	-