SNOW COVER PROFILE open shallow	Date 01/19 Time	Observer Maggie, Steve, Andy, Elizabeth
Location Code (see below):		Air Temperature +2°C
Valid 3-character location codes are Saddle grid stakes (001 through 080, 10A through 80A), south of Green Lake 4 inlet (084), north of Green Lake 4 inlet (085), Green Lake 4 outlet (086), Green Lake 5 (087), 50 m south of creek on Navajo bench (088), Arikaree Glacier (ARK). Green Lake 3, 4, and 5 north facing slope (e.g., G5N), Green Lake 3, 4, and 5 valley floor (e.g., G5V), Green Lake 3, 4, and 5 south facing slope (e.g., G5S), Green Lake 5 Outlet south-facing slope (5OS), east edge of soddie lysimeter field (SAE), west edge of soddie lysimeter field (SAW), south-west of soddie lysimeter field (SSW), 300m east of T-van towards the soddie (T30), soddie west new (SWN) Ameriflux Tree B- (ABI)-index, (AB1)-10cm from tree (AB2)-50cm, (AB3)-100cm, (AB4)-150cm, (AB5)-200cm, (AB6)-250cm, Ameriflux Tree 1-(A1I) index, (A11)-10cm from tree (A12)-50cm, (A13)-100cm, (A14)-150cm, (A15)-200cm, (A16)-250cm. Liquid water values range from 0 to 8 %. Valid 2-character grain shape codes are wet snow metamorphism (WM), equitemperature (ET), depth hoar (TG), ice (IC), or crust (CR). Grain sizes range from 0.1 to 9.9 mm. (Default 9.9 mm) Hardness codes: 1- (knife); 2- (pencil); 3- (1 finger); 4- (4 finger); 5- (fist).		Cloudiness/ Insolation 0% cloud cover Precipitation none Wind lights w/ gusts from SE Surface Hardness 13 cm Instrument hat

Computer data entry by ____ Date _____ Rekey ____ MARKW .FLB FORMS SNOWPIT ; SNOWGRAN

Temp (C)	Net Weight (g)	<--- Height above ground (cm)	---> Height above ground (cm)	liquid water (%)	Grain Shape	Grain Size (mm)	Hardness
		30.5	30.5				
-1.5	248	20	29		WM	~~1.5~~ 1	5
-3.5	287	10	20.5		TG	1.5	5
-4	287	0	13		TG	2	5
-2.5			7		TG	1.5	4
			3		TG	2.5	4
					TG	1.5	4

Cutter Tare (g) 752g

Comments

- Sun crust
- Site in shade by time we took temp readings

Ken Eggering Rob McFadzean
Rachel Jones
Claire Hierseman

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SNOW COVER PROFILE	Date 1/19/13 Time 11:30 AM	Observer
Location Code (see below): Deep Open		Air Temperature 1°C
Valid 3-character location codes are Saddle grid stakes (001 through 080, 10A through 80A), south of Green Lake 4 inlet (084), north of Green Lake 4 inlet (085), Green Lake 4 outlet (086), Green Lake 5 (087), 50 m south of creek on Navajo bench (088), Arikaree Glacier (ARK). Green Lake 3, 4, and 5 north facing slope (e.g., G5N), Green Lake 3, 4, and 5 valley floor (e.g., G5V), Green Lake 3, 4, and 5 south facing slope (e.g., G5S), Green Lake 5 Outlet south-facing slope (5OS), east edge of soddie lysimeter field (SAE), west edge of soddie lysimeter field (SAW), south-west of soddie lysimeter field (SSW), 300m east of T-van towards the soddie (T30), soddie west new (SWN) Ameriflux Tree B- (ABI)-index, (AB1)-10cm from tree (AB2)-50cm, (AB3)-100cm, (AB4)-150cm, (AB5)-200cm, (AB6)-250cm, Ameriflux Tree 1-(A1I) index, (A11)-10cm from tree (A12)-50cm, (A13)-100cm, (A14)-150cm, (A15)-200cm, (A16)-250cm. Liquid water values range from 0 to 8 %. Valid 2-character grain shape codes are wet snow metamorphism (WM), equitemperature (ET), depth hoar (TG), ice (IC), or crust (CR). Grain sizes range from 0.1 to 9.9 mm. (Default 9.9 mm) Hardness codes: 1- (knife); 2- (pencil); 3- (1 finger); 4- (4 finger); 5- (fist).		Cloudiness/ Insolation: Sunny day Precipitation: 0mm Wind: Surface Hardness: 15-18cm Instrument: Boot

Computer data entry by ____ Date _____ Rekey ____ MARKW .FLB FORMS SNOWPIT ; SNOWGRAN

Temp (C)	Net Weight (g)	<--- Height above ground (cm)	---> Height above ground (cm)	liquid water (%)	Grain Shape	Grain Size (mm)	Hardness
		45	45				
0°C	169			X	ET	~1mm	5
		35	42				
-4°C	206			X	ET	~1mm	4
		30	32				
-5°C	275			X	ET ↳TG	~1mm	5
		20	20				
-5°C	317			X	ET	2mm	4
		10	18				
-4°C	396			X	TG	~2mm	5
		0	0				
-3°C							

Cutter Tare (g) 752

Comments

$\Delta T = (T_g - T_a)$

Δz

$= \frac{0-(-20)}{0.4}$

$DT = \frac{50}{1m}$

∴ Faceting likely

SNOW COVER PROFILE	Date 01/19/2013 Time	Observer Andrew Benton, Max Owens Keli Baker
Location Code (see below): Shallow Forest		Air Temperature +2°C
Valid 3-character location codes are Saddle grid stakes (001 through 080, 10A through 80A), south of Green Lake 4 inlet (084), north of Green Lake 4 inlet (085), Green Lake 4 outlet (086), Green Lake 5 (087), 50 m south of creek on Navajo bench (088), Arikaree Glacier (ARK). Green Lake 3, 4, and 5 north facing slope (e.g., G5N), Green Lake 3, 4, and 5 valley floor (e.g., G5V), Green Lake 3, 4, and 5 south facing slope (e.g., G5S), Green Lake 5 Outlet south-facing slope (5OS), east edge of soddie lysimeter field (SAE), west edge of soddie lysimeter field (SAW), south-west of soddie lysimeter field (SSW), 300m east of T-van towards the soddie (T30), soddie west new (SWN) Ameriflux Tree B- (ABI)-index, (AB1)-10cm from tree (AB2)-50cm, (AB3)-100cm, (AB4)-150cm, (AB5)-200cm, (AB6)-250cm, Ameriflux Tree A- (A1I) index, (A11)-10cm from tree (A12)-50cm, (A13)-100cm, (A14)-150cm, (A15)-200cm, (A16)-250cm. Liquid water values range from 0 to 8 %. Valid 2-character grain shape codes are wet snow metamorphism (WM), equitemperature (ET), depth hoar (TG), ice (IC), or crust (CR). Grain sizes range from 0.1 to 9.9 mm. (Default 9.9 mm) Hardness codes: 1- (knife); 2- (pencil); 3- (1 finger); 4- (4 finger); 5- (fist).		Cloudiness/ Insolation: not a cloud in the sky Precipitation: none Wind: Surface Hardness: 31.5 cm Instrument: Boot

Computer data entry by ____ Date 01/19/2013 Rekey ____ MARKW .FLB FORMS SNOWPIT ; SNOWGRAN

Temp (C)	Net Weight (g)	<--- Height above ground (cm)	---> Height above ground (cm)	liquid water (%)	Grain Shape	Grain Size (mm)	Hardness	Comments
		43.5	43.5					
-3.5	233 / .233			X	TG	1.8-2.1	5	Thin faceted crust
		33.5	41					
				X	CR → TG	2	5	Pillars and rounds
		40	33.5					
-4.1	174 / .174			X	ET	2-2.5	4	more rounded
		30	27					
-3.8	252 / .252			X	ET	1.0-1.5	3	rounds
		20	22.5					
-3.0	369 / .369			X	TG	2.5-4.0	2	Pillars larger near rock surface
		10	17					
-2.2	284 / .284			X	TG	1.5-2.5	2	
		ground snow interface	9					
-1.8				X	TG	1.5 2.0	3	
		ground	0					

Cutter Tare (g) 740

Comments

Paige Pruisner Ethan Larson
Patrick

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SNOW COVER PROFILE	Date 1/19/13 Time Noon	Observer
Location Code (see below): Deep Forest		Air Temperature 0°C
Valid 3-character location codes are Saddle grid stakes (001 through 080, 10A through 80A), south of Green Lake 4 inlet (084), north of Green Lake 4 inlet (085), Green Lake 4 outlet (086), Green Lake 5 (087), 50 m south of creek on Navajo bench (088), Arikaree Glacier (ARK). Green Lake 3, 4, and 5 north facing slope (e.g., G5N), Green Lake 3, 4, and 5 valley floor (e.g., G5V), Green Lake 3, 4, and 5 south facing slope (e.g., G5S), Green Lake 5 Outlet south-facing slope (5OS), east edge of soddie lysimeter field (SAE), west edge of soddie lysimeter field (SAW), south-west of soddie lysimeter field (SSW), 300m east of T-van towards the soddie (T30), soddie west new (SWN) Ameriflux Tree B- (ABI)-index, (AB1)-10cm from tree (AB2)-50cm, (AB3)-100cm, (AB4)-150cm, (AB5)-200cm, (AB6)-250cm, Ameriflux Tree 1- (A1I) index, (A11)-10cm from tree (A12)-50cm, (A13)-100cm, (A14)-150cm, (A15)-200cm, (A16)-250cm. Liquid water values range from 0 to 8 %. Valid 2-character grain shape codes are wet snow metamorphism (WM), equitemperature (ET), depth hoar (TG), ice (IC), or crust (CR). Grain sizes range from 0.1 to 9.9 mm. (Default 9.9 mm) Hardness codes: 1- (knife); 2- (pencil); 3- (1 finger); 4- (4 finger); 5- (fist).		Cloudiness/ Insolation None Precipitation None Wind light gusts from west Surface Hardness 28cm Instrument boot

Computer data entry by ____ Date _____ Rekey ____ MARKW .FLB FORMS SNOWPIT ; SNOWGRAN

Temp (C)	Net Weight (g) Density	<--- Height above ground (cm)	---> Height above ground (cm)	liquid water (%)	Grain Shape	Grain Size (mm)	Hardness
		53	53				
-7	.254				TG	2	5
		43	46				
-8	.294				TG	2	4
		33	29				
					TG	2	3
		40	27				
-7	.28				TG	2	2
		30	12				
-6	.387				TG	2	2
		20	0				
-5	.366						
		10					
-3.5	.306						
		0					
-3							

10cm

Cutter Tare (g) 756

Comments

- Vegetation 10cm up
- N/S corridor surrounded by engelman spruce/ lodgepole pine

Crust b/w 29 & 27 and 12 & 10 cm