

Location:	CO		Site:	SL Mtn		Date:	20250314		
Time:	1000		Observers:	E. McEvoy S. Skinner		Interval board SWE measurement			
Precip Rate	None	Very Light (0.5 cm/hr)	Light (1 cm/hr)	Moderate (5 cm/hr)	Heavy (10 cm/hr)	Depth (cm)	SWE (mm)	Density (kg/m ³)	Evidence of melt resulting in SWE loss? (Y/N)
Precip Type	Rain	Snow	Graupel	Hail	Rain/Snow	Sample A	8.4	4.5	54
Sky	Clear	Few <td>Scattered (1/4-1/2 of sky)</td> <td>Broken<br (>="" 1="" 2="" of="" sky)<="" td=""/><td>Overcast (complete cover)</td><th>Sample B</th><td>8.2</td><td>4.5</td><td>55</td></td>	Scattered (1/4-1/2 of sky)	Broken <td>Overcast (complete cover)</td> <th>Sample B</th> <td>8.2</td> <td>4.5</td> <td>55</td>	Overcast (complete cover)	Sample B	8.2	4.5	55
Wind	Calm (0 mph)	Light (1 - 16 mph)	Moderate (17 - 25 mph)	Strong (26 - 38 mph)	Extreme <th>Sample C</th> <td>8</td> <td>4.5</td> <td>56</td>	Sample C	8	4.5	56
Tree Canopy	No trees	Sparse (5 - 20%)	Open (20 - 70%)	Closed <td>Ground roughness</td> <th>Ground vegetation</th> <td>Smooth<br (<="" 5="" cm)<="" td=""/><td>Rough (5 - 20 cm)</td><td>Rugged<br (>="" 20="" cm)<="" td=""/></td></td>	Ground roughness	Ground vegetation	Smooth <td>Rough (5 - 20 cm)</td> <td>Rugged<br (>="" 20="" cm)<="" td=""/></td>	Rough (5 - 20 cm)	Rugged
Instrument	Y/N	SN	Instrument	Y/N	SN	Additional Comments		Height of Ground Vegetation (cm)	
Digital LWC	Y	0101	Snow Scope	Y	308	Weather			
Stratigraphy pictures	Y		Lyte Probe	N					
Standard ram	Y		SMP	N		Pools & pure columns throughout pit wall			
Powder Ram	Y		Force Ram	R		Pit			
Slush Ram	N		Force Snow Scope	Y		Hardness			
HS Transects	Y		Snow Scope Transects	N					
Pit Pictures	Y		SSA / NIR Box	Y	0101	175 Shallow 100			
						Misc.			

Location (Regional Scale)	Date (YYYYMMDD)	Observers (first initial & last name):								Comments/Notes:	
Site (Study Plot)	Time (pit opened)	E M Clue				Temperature profile times					
Pit ID	SITEYYYYMMDD	Snow Depth (cm)	LWC Device & SN	UTME	UTMN	Zone (two digit)	GPS device & uncertainty:	START	END		
SLMek	SMUR 2025 03 14	91	0101 Meritron 1	04257472	4419949	13	06547-2m	1062	1028		
Height above ground	Density profile A (kg/m³)	Density profile B (kg/m³)	Extra Density	Permittivity profile A (unitless)	Permittivity profile B (unitless)	Height above ground (cm)	T	Height above ground (cm)	Max	Min	Stratigraphy
top (cm)	- bottom (cm)			(unitless)	(unitless)	(cm)	°C	(cm)		Avg	Grain Size (mm)
91	- 81	125	121	1.12	1.19	90	-5	90	-82	1.5	PPsd
81	- 71	188	145	1.37	1.36	82	-5.5	82	-77	1	F
71	- 61	276	265	1.46	1.50	80	-5.5	80	-60	0.3	Mfr
61	- 51	285	346	1.51	1.54	72	-5.5	72	-58	0.5	K
51	- 41	258	255	1.41	1.39	70	-4.5	70	-58	1	D
41	- 31	257	167	1.48	1.45	60	-3	60	-58	0.3	FCso
31	- 21	289	313	1.49	1.40	58	-3	58	-52	0.3	PFir
21	- 11	284	268	1.51	1.47	52	-2.5	52	-52	0.5	HF
11	- 0	272	308	1.65	1.66	50	-2.5	52	-27	1	D
-	-	-	-	-	-	40	-2	40	-27	1.5	FLxr
-	-	-	-	-	-	30	-2	30	-27	0.5	F
-	-	-	-	-	-	24	-14	24	-14	1	Dflxr
-	-	-	-	-	-	20	-1.5	20	-1.5	1.5	4P
-	-	-	-	-	-	14	-0	14	-0	1	Dflxr
-	-	-	-	-	-	10	-1	10	-1	1	D
-	-	-	-	-	-	0	-1	0	-1	1	D

Specific Surface Area

Location (regional scale)		Site (study plot)		Transects		Date	Time			
Co		SLMST		A, B		20250314	Start	End		
Observer(s)		Wx Description								
Eudie Skinner		ONC S1 N6D M6D								
0930 Transect A 0937		0937 Transect B 0944								
Point	HS (cm)	Point	HS (cm)	Point	HS (cm)	Point	HS (cm)			
0	87	31	61	0	87	31	116			
1	69	32	160A	1		32	116			
2	97	33	84	2		33	107			
3	103	34	97	3		34	81			
4	98	35	95	4		35	76			
5	99	36	96	5		36				
6	91	37	92	6		37				
7	88	38	100	7		38				
8	86	39	62	8		39				
9	86	40	87	9		40				
10	84	41	96	10		41				
11	77	42	105	11		42				
12	81	43	105	12		43				
13	86	44	102	13		44				
14	80	45	97	14		45				
15	74	46	92	15		46				
16	72	47	93	16		47				
17	70	48	90	17		48				
18	66	49	91	18		49				
19	80	50	92	19		50				
20	77	51	85	20		51				
21	84	52	106	21		52				
22	88	53	107	22		53				
23	86	54	100	23		54				
24	81	55	101	24		55				
25	85	56	89	25		56				
26	92	57	108	26		57				
27	81	58	112	27		58				
28	71	59	89	28		59				
29	40	60	125	29		60				
30	33		117	30						

Ram Penetrometer Field Data Sheet

Location: CO	Tube weight	T	kg												
Site: SL Met	Hammer weight	H	kg												
Associated pit/transect/point: SL Met 20250314	Number of falls	n													
Date: 20250314	Fall height	f	cm												
Observer: E McEvie Skinny	Location of point	p	cm												
UTME:	UTMN:	Zone: 13													
Ram type: STD Pow	Ram mass:	kg													
			$RN = T + H + nfH/p$ kg												
T	H	n	f	p	T	H	n	f	p	T	H	n	f	p	
1	0	0	0	10		2	10	77							40
1	0.5	0	0	10		1	20	78							45
															48
															49
															50.5
															52
															53
															54
															55
															56
															57
															58
															59
															60
															61
															62
															63
															64
															65
															66
															67
															68.5
															69.5
															70.5
															71
															72
															73
															74
															75

Notes:

Location: LO

Site: SL Met

Date: 20250314

Time: 1058

Pit: 5MUL2260314

Observers: E Miller, S Skinner

Force max manual digital Gnd

Depth cm cm cm Y/N Comments

X-Coord	Y-Coord	Time	Data Type	SN	Profile #	Force Gage	N	cm	cm	Y/N	Comments
0	30	1058	Snow Ram			86				Y	
30	30	1103	Pow. Eavn			75				N	
0	60	1108	Snow Scpt	308	116	85	76			Y	
30	60	1109			1	65	84			Toward	
60	60	1109			217	61	92				
90	60	1109			218	92	82				
120	60	1110			219	92	82				
0	90	1112	Force Ram		120	92	82				
30	90	1112			1000	124	75				
60	90	1112				192	77				
90	90	1112				113	79				
120	90	1112				54	80				
0	120	1115	Force Scpt	151	1093	57	80				
30	120	1115				174	75	65		Toward	
60	120	1116				74	75	71			
90	120	1116				37	75	72			
120	120	1117				1646	79	75			
						1092	31	75	75		