

Location:	G6	Site:	D14117	Date:	20250312				
Time:	0952	Observers:	Eric Lue	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/m³)	Evidence of melt resulting in SWE loss? (Y/N)
Precip Type	Rain	Snow	Graupel	Hail	Rain/Snow	Sample A	Sample B	Sample C	/
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>Ground condition</th><th>Frozen</th><th>Moist</th><th>Saturated</th></td>	Scattered (1/4-1/2 of sky)	Broken <td>Overcast (complete cover)</td> <th>Ground condition</th> <th>Frozen</th> <th>Moist</th> <th>Saturated</th>	Overcast (complete cover)	Ground condition	Frozen	Moist	Saturated
Wind	Calm (0 mph)	Light (1 - 16 mph)	Moderate (17 - 25 mph)	Strong (26 - 38 mph)	Extreme <th>Ground roughness</th> <th>Smooth<br (<="" 5="" cm)<="" th=""/><th>Rough (5 - 20 cm)</th><th>Rugged<br (>="" 20="" cm)<="" th=""/></th></th>	Ground roughness	Smooth <th>Rough (5 - 20 cm)</th> <th>Rugged<br (>="" 20="" cm)<="" th=""/></th>	Rough (5 - 20 cm)	Rugged
Tree Canopy	No trees	Sparse (5 - 20%)	Open (20 - 70%)	Closed <th>Ground Vegetation</th> <td>Bare</td> <td>Grass</td> <td>Shrub</td> <td>Deadfall</td>	Ground Vegetation	Bare	Grass	Shrub	Deadfall
Instrument	Y/N	SN	Instrument	Y/N	SN	Additional Comments		Height of Ground Vegetation (cm)	30cm
Digital LWC	✓		Snow Scope	✓	303	Weather			
Stratigraphy pictures	✓		Lyte Probe	✓					
Standard ram	✓		SMP	✓					
Powder Ram	✓		Force Ram	✓					
Slush Ram	✓		Force Snow Scope	✓		2.8 - 11 3.4 - 8 5.4 - 19.5 10.2 - 24.5 16.8 - 48.5 	25 - 74 22.4 - 64.5 17.8 - 47.6		
HS Transects	✓		Snow Scope Transects	✓					
Pit Pictures	✓		SSA / NIR Box	✓	161				
Other			Misc			Hs 98cm @ Shrub			

Location (Regional Scale)	Date (YYYYMMDD)	Observers (first initial & last name):								Comments/Notes:
Site (Study Plot)	Time (pit opened)	Temperature profile times				GPS device & uncertainty:				Poss/Columns in white
Pit ID	Snow Depth (cm)	LWC	UTME	UTMN	Zone (two digit)	GPS	Device & SN	UTM	Stratigraphy	
Height above ground	Density profile A (kg/m ³)	Density profile B (kg/m ³)	Extra Density (kg/m ³)	Permittivity profile A (unitless)	Permittivity profile B (unitless)	Height above ground (cm)	T (°C)	Height above ground (cm)	Grain Size (mm)	Stratigraphy Comments
top - bottom (cm)	(cm)	(cm)	(cm)	(cm)	(cm)	top - bottom (cm)	Max	Min	Avg	Grain Type
- 107	261	253	8	47.0	47.8	123	-3	123	0.8	K
113 - 163	261	253	8	47.1	47.3	120	-9.5	118	0.5	Mixed F
- 47.3	254	256	2	46.0	46.7	118	-9	118	0.8	F
- 37.9	258	252	6	46.5	49.5	113	-8.5	113	0.3	F
- 31.5	287	703	703	69.3	110	75	113	109	0.3	Mixed K
- 69	308	307	1	42.6	47.6	100	-5.5	101	0.8	Mixed K
- 52	323	303	43.2	47.5	97	95	101	92	0.8	Mixed F
- 47	272	272	37.4	37.2	90	-9	101	92	0.8	Mixed F
- 31.2	303	303	37.4	40.3	85	80	1	67	0.5	Rime P
- 24.4	304	38.8	38.3	38.3	80	-3.5	47	60	0.5	Rime P
- 17	269	255	41	43.9	70	-3.5	80	64	0.8	Rime F
- 7.7	310	295	24.3	35.1	64	-3.5	80	64	0.5	Rime F
- 2	300	272	-	60	60	-3.5	64	48	1.5	Firn F
-	-	-	-	40	40	-3	40	40	1	Firn F
-	-	-	-	30	30	-2.5	40	40	0.5	Firn F
-	-	-	-	20	20	-2.5	17	17	0.5	Firn F
-	-	-	-	10	10	-2	17	17	0	Firn F
-	-	-	-	6	6	-1.5	17	17	0	Firn F

Location:	Date:										
Site:	Time:										
Pit:	Observers:										
X-Coord	Y-Coord	Time	Data Type	SN	Profile #	Force Gage	Force	Depth	Depth	Depth	Depth
							max	manual	digital	Grnd	
							N	cm	cm	Y/N	Comments
0	30	1452					125				
30	60	1215					75				
0	60		Scour	308	183		131	128			
30					184		122	124			
60					186		125	127			
90					187		121	122			
120					188		123	121			
0	90	1654	Force gage				1000	148	160		
30							174				
60							171				
90							170				
120							143				
0	120	1754	Force gage	183			59	75	68	TOWARDS	
30				1269			64		71		
60				1370			52		66		
90				1371			54		67		
120				1372			85		68		

Ram Penetrometer Field Data Sheet

Location: CO	Tube weight	T	kg												
Site: DHNET	Hammer weight	H	kg												
Associated pit/transect/point: DHNET 20250312	Number of falls	n													
Date: 20250312	Fall height	f	cm												
Observer: Gardner	Location of point	p	cm												
UTME:	UTMN:	Zone:	$RN = T + H + nfH/p$ kg												
Ram type: GID 1 Row	Ram mass: kg	RR = 9.81 (T + H + nfH/p)	N												
T	H	n	f	p	T	H	n	f	p	T	H	n	f	p	
1	0	0	0	5	1	0.5	1	20	51	1	0.5	1	5	96.5	
1	0.5	0	0	5					52					98.5	
1	5	11							53					100	
4	5	12							54	2	0.5	1	3	104	
6	5	13			1	20	56			3	5	105			
5	5	14			1	10	57			1	5	106			
4	5	15							58				1	10	108
1	10	20							59						109
1	7	21							61						110
		22			1	5	62								111
		23							63						112
2	5	24			2	5	64								113
		25			1	10	65								114
		26							66						120
		27							67						122
3	5	28							68						123
2	10	29							69	2	10	124			
		30			2	10	70								125
		31			1	15	72								
1	10	32			2	10	73								
2	10	33			1	10	74								
4	10	34							75						
2	10	35							76						
1	15	36							77						
		37			2	10	78								
2	15	38			4	5	79								
3	15	39			4	5	80								
2	20	40			1	10	81								
		41							82						
		42							83						
		43							84						
		44							85						
1	20	45							86						
2	20	46			2	10	87								
1	20	47			1	10	88								
		48							89						
3	20	49							90						
3	25	50			1	10	94.5								

Notes:

Ram Penetrometer Field Data Sheet

Location: Co						Tube weight		T	kg
Site: Hammer						Hammer weight		H	kg
Associated pit/transect/point: Hammer 20250312						Number of falls		n	
Date: 20250312		Time: 1215		Fall height		f		cm	
Observer: Sue Cline		Location of point		p		cm			
UTME:		UTMN:		Zone:		RN = T + H + nfH/p		kg	
Ram type: Pow			Ram mass: kg		RR = 9.81 (T + H + nfH/p)		N		
T	H	n	f	p	T	H	n	f	p
0.1	0	0	0	3	0.1	0.2	2	25	44
0.1	0.2	0	0	3			1	25	46
		1	16	4			2	25	45
				6				47	
	1	10	9				3	25	48
	2	10	10				4	25	49
	3	20	11				3	25	50
	3	25	12						51
	1	25	13				2	25	52
	1	20	14.5				1	25	53
	1	15	15.5				1	25	54
			17				2	25	55
	1	10	18				1	25	56
			19				2	25	57.5
			20				1	25	58
	2	10	21						59
	1	15	22						60
			23						61
	2	15	24						62
	1	20	25						63
	2	20	26						64
	1	25	27						65
	2	25	28						66
			29						67
	3	25	30						68
			31						69
	4	25	32						70
			33						71
	3	25	34						72
	2	25	35						73
	3	25	36						74
	4	25	37						75
	5	25	38						
	3	25	39						
	4	25	40						
	5	25	41						
	3	25	42						
		.	43						

Location (regional scale)		Site (study plot)		Transects	Date	Time	
Co		DLM1ST		A,B	70250312	Start	End
Observer(s)		Wx Description					
<i>Surfus</i>		SCT LIGHT No Rain					
0927 Transect A 0936		0936 Transect B 0913					
Point	HS (cm)	Point	HS (cm)	Point	HS (cm)	Point	HS (cm)
0	118	31	153	0	113	31	
1	137	32	137	1	135	32	
2	143	33	125	2	129	33	
3	144	34	113	3	113	34	
4	127	35		4	144	35	
5	130	36		5	125	36	
6	132	37		6	141	37	
7	133	38		7	137	38	
8	136	39		8	136	39	
9	130	40		9	139	40	
10	130	41		10	134	41	
11	140	42		11	130	42	
12	143	43		12	121	43	
13	134	44		13	129	44	
14	129	45		14	130	45	
15	130	46		15	128	46	
16	144	47		16	129	47	
17	143	48		17	113	48	
18	140	49		18	104	49	
19	128	50		19	115	50	
20	117	51		20	119	51	
21	141	52		21	145	52	
22	137	53		22	139	53	
23	132	54		23	134	54	
24	126	55		24	129	55	
25	149	56		25	137	56	
26	130	57		26	131	57	
27	145	58		27	138	58	
28	140	59		28	141	59	
29	129	60		29	138	60	
30	134			30			