Location:	C6	Site:	AM	Date:	20250108
Time:	1020	Observers:	Eric Cole Shinsky		

Precip Rate	(None)	Very Light (0.5 cm / hr)	Light (1 cm / hr)	Moderate (5 cm / hr)	Heavy (10 cm / hr)
Precip Type	Rain	Snow	Graupel	Hail	Rain/Snow
Sky	(Clear)	Few (< 1/4 of sky)	Scattered (1/4-1/2 of sky)	Broken (> 1/2 of sky)	Overcast (complete cover)
Wind	(Calm (0 mph))	Light (1 - 16 mph)	Moderate (17 - 25mph)	Strong (26 - 38 mph)	Extereme (> 38 mph)
Tree Canopy	(No trees)	Sparse (5 - 20%)	Open (20 - 70%)	Closed (> 70%)	

Interval board SWE measurement

	Depth (cm)	SWE (mm)	Density (kg/m3)	Evidence of melt resulting in SWE loss? (Y/N)
Sample A	13.8	15.5	123	
Sample B	13.4	19	104	N
Sample C	15.2	18.5	121	
Ground condition	(Frozen)	Moist	Saturated	
Ground roughness	(Smooth (< 5 cm))	Rough (5 - 20 cm)	Rugged (> 20 cm)	
Ground Vegetation	Bare	(Grass)	Shrub	Deadfall
Height of Ground Vegetation (cm)		10		

Instrument	Y/N	SN	Instrument	Y/N	SN
Digital LWC	N		Snow Scope	Y	234
Stratigraphy pictures	Y		Lyte Probe	N	
Standard ram	Y		SMP	N	
Powder Ram	Y		Force Ram	Y	
Slush Ram	N		Force Snow Scope	Y	234
HS Transects	Y		Snow Scope Transects	N	
Pit Pictures	Y		SSA / NIR Box	Y	0101
Other					

Additional Comments

Weather

Pit

Hardness

Misc

Hs 94 @ Stake

Location (Regional Scale)	Date (YYYYMMD)	Observers (first initial & last name):	Temperature profile times START	Temperature profile times END	Comments/Notes:
Co	20250108	[illegible] Skinney	1026	1057	

Site (Study Plot)	Time (pit opened)
Am	1020

Pit ID SITEYYYMMDD	Snow Depth (cm)	LWC Device & SN	UTME	UTMN	Zone (two digit)	GPS device & uncertainty:
Am20250108	92	[illegible] 250kg/m3 525[illegible] 1114 [illegible]	0426192	4412422	13S	Garmin 65s ~2m

Density: Height above ground top (cm) - bottom (cm)	Density profile A kg/m3	Density profile B kg/m3	Extra Density kg/m3	LWC: Permittivity profile A (unitless)	LWC: Permittivity profile B (unitless)	Temperature: Height above ground (cm)	Temperature: T oC
[illegible].2 - [illegible]	4.2	3	71			92	-17
[illegible] - [illegible]	6.2	8.5	137			90	-17.5
[illegible].8 - 58	19.8	49.5	225			80	-16.5
58 - 46.8	11.2	26.5	257			70	-10.5
46.8 - 26.2	20.6	52.5	255			60	-7.5
26.2 - 0	26.2	94.5	361			50	-5
-				AS[illegible]EF		40	-3.5
92 - 82	105	98		76.1/[illegible]	28.3/[illegible]	30	-2.5
82 - 72	195	188		69./74.5	21.5/26.6	20	-2
72 - 62	228	242		63.8/66.7	21.4/19.8	10	-1.5
62 - 52	241	251		[illegible]/65.2	14.9/17.4	0	-1
52 - 42	219	213		56.8/50.4	13.9/13.7		
42 - 32	244	229		49.6/45.4	10.7/9.2		
32 - 22	224	224		44.9/43.6	9.0/8.6		
22 - 12	346	336		24.3/[illegible].6	3.7/6.8		
12 - 2	232	364	336	38.5/34.2	7.1/5.9		
-				37.6/[illegible].1	6.8/7		
-							
-							
-							
-							
-							
-							
-							

Stratigraphy

Height above ground top (cm)	-	Height above ground bottom (cm)	Grain Size (mm) Max	Grain Size (mm) Min	Grain Size (mm) Avg	Grain Type	Hand Hardness	Manual Wetness	Stratigraphy Comments
92	-	91.5	1.5	0.5	1	DFBK	F	D	FCSF
91.5	-	88	1.5	0.5	1	DFBK	F	D	
88	-	82	1	0.3	0.5	FCSO	F	D	DFBK Remnants
82	-	62	0.5	0.1	0.3	RGXF	1F	D	
62	-	50	0.5	0.1	0.3	RGXF	1F	D	
50	-	28	3	1	2	FCSO	F	D	
28	-	0	4	1	2	DHCP	P	D	
	-								
	-								
	-								
	-								
	-								

Ram Penetrometer Field Data Sheet

Location: Co

Site: Am

Associated pit/transect/point: Am20240108

Date: 20250108 Time: 1141 / 1146

Observer: Emelie Skinney

UTME: UTMN: Zone:

Ram type: Ram mass: kg

Tube weight	T	kg
Hammer weight	H	kg
Number of falls	n	
Fall height	f	cm
Location of point	p	cm
RN = T + H + nfH/p		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	21			4	20	27			3	5	73
1	0.5	0	0	21					28			2	5	74
		5	1	22					30					76
		2	5	23					31					
				24					32					
				25					33.5					
		1	10	26					35					
				27					37					
				28					39					
				29			2	15	40					
				31					41					
		2	5	32					42					
				33					43					
				34					44					
				35					46.5					
		1	10	36.5			1	10	47					
		1	10	39.5					48					
		2	5	41					49					
		1	5	92					50					
									51					
0.1	0	0	0	6					52					
0.1	0.1	0	0	7					53					
		1	5	11					54					
				12					55					
		2	5	13			2	10	56					
				14					57					
		3	5	15					58					
		3	10	16					59					
				17.5			3	15	60					
				18.5					61					
		2	15	19					63					
				20			3	10	64					
		3	15	21			2	10	65					
				22					67					
				23			1	10	68					
				24					69					
				25					70					
		5	15	26					76.5					

Notes:

Location:	CO	Date:	20250108								
Site:	AM	Time:	1141				Force	Depth	Depth		
Pit:	AM 20250108	Observers:	Eric Cox Skinner				max	manual	digital	Grnd	
X-Coord	Y-Coord	Time	Data Type	SN	Profile #	Force Gage	N	cm	cm	Y/N	Comments
0	30	1141	STD Ram					92		Y	
30	↓	1146	Pen Ram					76		↓	
0	60	1200	Scale	234	1107			95	93	↓	
30		1206			1108			97	94		
60		1201			1109			106	97		
90		1201			1110			96	94		
120	↓	1701	↓	↓	1111			95	92	↓	
0	90	1205	Cone Ram			50N	46.9	61			
30		1205					44.25	71			
60		1205					45.2	79			
90		1206					43.9	76			
120	↓	1206	↓				41.6	74			
0	120	1208	Force Stop	234	1112		18.3	75	76		
30		1208			1113		9.6	82	83		
60		1209			1114		9.85	84	85		
90		1210			1116		7.2	90	91		
120	↓	1210	↓	↓	1117	↓	10.7	84	86		

Location (regional scale)	Site (study plot)	Transects	Date	Time	
				Start	End
CO	AM	A, B	20250108	1220	

Observer(s)	Wx Description
Emily Skinner	Few Light No Wind

1220 Transect A 39

Point	HS (cm)	Point	HS (cm)
0	99	31	116
1	100	32	112
2	104	33	111
3	109	34	103
4	108	35	112
5	104	36	108
6	108	37	121
7	108	38	125
8	112	39	122
9	111	40	121
10	119	41	116
11	120	42	
12	111	43	
13	123	44	
14	118	45	
15	116	46	
16	120	47	
17	119	48	
18	113	49	
19	114	50	
20	120	51	
21	108	52	
22	117	53	
23	114	54	
24	121	55	
25	125	56	
26	126	57	
27	119	58	
28	129	59	
29	118	60	
30	122		

1220 Transect B 1227

Point	HS (cm)	Point	HS (cm)
0	93	31	93
1	94	32	95
2	96	33	98
3	95	34	100
4	96	35	99
5	100	36	102
6	98	37	102
7	100	38	106
8	97	39	108
9	101	40	
10	101	41	
11	93	42	
12	93	43	
13	100	44	
14	97	45	
15	98	46	
16	94	47	
17	94	48	
18	96	49	
19	93	50	
20	91	51	
21	90	52	
22	93	53	
23	92	54	
24	90	55	
25	91	56	
26	93	57	
27	93	58	
28	95	59	
29	93	60	
30	91		