Location:	CO	Site:	AM	Date:	20250205
Time:	1155	Observers:	Eric Gs Skinsey		

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				
Sample B				
Sample C				
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	101
Other					

Additional Comments

Weather

Pit

Hardness

Misc

Location (Regional Scale)	Date (YYYYMMD)	Observers (first initial & last name):	Temperature profile times		Comments/Notes:
Co	20250205	Eac Cas SKINNEY	START	END	HS @ stake 88
Site (Study Plot)	Time (pit opened)		1155	1222	
Am	1155				

Pit ID SITEYYYMMDD	Snow Depth (cm)	LWC Device & SN	UTME	UTMN	Zone (two digit)	GPS device & uncertainty:
Am20250205	97	0101 250kg 526	0426189	4412423	13	Garmin 65s ±7m

Density

Height above ground top (cm) - bottom (cm)	Density profile A kg/m3	Density profile B kg/m3	Extra Density kg/m3
89.8 - 86.8	3	9	300
86.8 - 72	14.8	33	273
72 - 48.8	23.2	66	284
48.8 - 24.6	24.2	64	264
24.6 - 0	24.6	60.5	246
-			
97 - 87	224	232	
87 - 77	249	238	
77 - 67	288	289	
67 - 57	278	281	
57 - 47	233	250	
47 - 37	258	267	
37 - 27	236	248	
27 - 17	266	266	
17 - 07	300	68	
-			
-			
-			
-			
-			
-			
-			
-			

LWC

Permittivity profile A (unitless)	Permittivity profile B (unitless)
71.3	71.1
58.2	52.7
60.3	53.3
56.6	52.3
46.2	48.8
39.4	37.9
35.8	34.9
26.8	19.0
44.5	27.3
41.5	46.4

Temperature

Height above ground (cm)	T oC
95	-4.5
91	-6
90	-6.5
80	-6.5
75	-6
70	-5.5
60	-5
52	-4.5
50	-4
40	-3.5
30	-2.5
20	-2
10	-1.5
0	-1.5

Stratigraphy

Height above ground top (cm)	-	bottom (cm)	Grain Size (mm) Max	Min	Avg	Grain Type	Hand Hardness	Manual Wetness	Stratigraphy Comments
95	-	91	0.9	0.1	0.3	MFcl	P	D	-
91	-	75	0.8	0.1	0.3	RGlr	F	|	-
75	-	52	1	0.3	0.5	FCxr	1F	|	-
52	-	29	2	0.5	1	DHxr	F	|	-
29	-	0	4	0.5	2	DHxr	F	↓	DH c4
	-								
	-								
	-								
	-								
	-								
	-								
	-								

Ram Penetrometer Field Data Sheet

Location: CO

Site: AM

Associated pit/transect/point: AM 20250205

Date: 20250205 Time: 1237 / 1242

Observer: EMMA SWANEY

UTME: UTMN: Zone:

Ram type: STD / POW 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	3			6	25	4					42
1	0.5	0	0	3			5	25	5			1	25	43
		3	5	4			2	75	6					44
		1	5	29			2	15	7					45
		3	3	30					8					46
		2	3	31			4	15	9					48
				32			2	20	10			1	15	49
				33			1	20	11					50
				34					12			1	10	51
				35					13					52
		4	3	36					14			2	10	53
		1	5	37			1	10	15			1	10	54
		1	5	38					16			2	10	55
				39			2	10	17					56
		2	1	40					18					57
		1	3	41					19					58
				43					20					59
		1	2	45			3	10	21			3	10	60
				80			2	15	22			2	20	61
		5	1	80					23					62
		1	10	81			4	15	24			1	20	63
		1	5	82			2	20	25			2	20	64
				83					26					65
		2	5	84			3	20	27			1	20	66
				85			2	25	28					67
		1	10	86					29					68
				87			3	25	30					69
				88			2	15	31					70
				90			3	15	32					71
		1	5	91			2	20	33					72
				92					34					73
				93			3	20	35					74
		5	5	93.5			2	15	36					75
									37					
									38					
0.1	0	0	0	1					39					
0.1	0.1	0	0	1										
		2	25	2			1	25	40					
		5	25	3			2	25	41					

Notes:

Location:	CO		Date:	20250205							
Site:	AM		Time:	1237			Force	Depth	Depth		
Pit:	AM 20250205		Observers:	Sinclair Skinner			max	manual	digital	Grnd	
X-Coord	Y-Coord	Time	Data Type	SN	Profile #	Force Gage	N	cm	cm	Y/N	Comments
0	30	1237	STD Ram								
30	↓	1242	Pow Ram								
0	60	1249	Scope	734	1300			84	84		Towards
30		1249			1301			96	97		↓
60		1250			1302			97	92		
90		1251			1303			91	89		
120	↓	1251	↓		1304			90	91		away
0	90	1258	Force Ram			~~10~~ON	65	85			
30		1258					92	85			
60		1258					23	84			
90		1258					58	85			
120	↓	1259	↓				16	84			
0	120		Force Scope								Towards
30											↓
60											
90		1303			1311		2	75	77		
120	↓	1303	↓		1312	↓	3	75	75		
											CT 17SP @ 32↑
											CT20 RP @ 40↑
											ECTX

Location (regional scale)	Site (study plot)	Transects	Date	Time	
				Start	End
Co	Am	A, B	20250205		
Observer(s)	**Wx Description**				
Gracie Skinner	OVC MOD S-1 STRONG				

1123 Transect B 1129				1131 Transect A 1140			
Point	HS (cm)	Point	HS (cm)	Point	HS (cm)	Point	HS (cm)
0	97	31	93	0	98	31	144
1	95	32	96	1	102	32	131
2	98	33	98	2	165	33	119
3	93	34	96	3	108	34	116
4	97	35	100	4	115	35	109
5	98	36	104	5	113	36	117
6	100	37	109	6	110	37	121
7	96	38	111	7	111	38	129
8	101	39		8	116	39	130
9	100	40		9	121	40	132
10	94	41		10	126	41	131
11	97	42		11	136	42	125
12	95	43		12	132	43	
13	93	44		13	132	44	
14	94	45		14	126	45	
15	87	46		15	128	46	
16	93	47		16	126	47	
17	89	48		17	124	48	
18	83	49		18	121	49	
19	82	50		19	124	50	
20	85	51		20	121	51	
21	89	52		21	121	52	
22	86	53		22	122	53	
23	86	54		23	119	54	
24	88	55		24	125	55	
25	89	56		25	138	56	
26	90	57		26	147	57	
27	94	58		27	144	58	
28	92	59		28	148	59	
29	91	60		29	146	60	
30	91			30	145		