Location:	COLORADO	Site:	CLPXAFSP04	Date:	20030123
Time:	1244	Observers:	K. ELDER		

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	NA			
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 WAKE	Deadfall
Height of Ground Vegetation (cm)			15	15

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

Additional Comments

Weather

Pit

Hardness

Misc

Location (Regional Scale)	Date (YYYYMMD)	Observers (first initial & last name):				Comments/Notes:
COLORADO	20250123	K. ELDER				
Site (Study Plot)	Time (pit opened)			Temperature profile times START	END	
CLPXFFSPØ4	1254			1300		
Pit ID SITEYYYMMDD	Snow Depth (cm)	LWC Device & SN	UTME	UTMN	Zone (two digit)	GPS device & uncertainty:
CLPXSPØ420250123	68	NA	425602	4415258	13	GARMIN 65S ±1.8m GNSS

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)	T oC
68	-	58	134	138		ND	ND	68	-16
58	-	48	198	204				60	-14.5
48	-	38	239	236				50	-11.5
38	-	28	236	245				40	-9.5
28	-	18	243	240				30	-7.0
18	-	8	237	230				20	-6.0
	-		VEG					10	-4.5
	-							0	-4
	-		HS	SWE					
	-		cm	mm					
	-		1.8	1.5					
	-		4.0	5.0					
	-		10.4	18.0					
	-		17.6	28.5					
	-		14.0	37.0					
	-		9.0	23.5					
	-		7.0	14.0					

COULD NOT GET TO GROUND - VEG VACCINIUM

Stratigraphy: Height above ground top (cm)	-	bottom (cm)	Grain Size Max (mm)	Min	Avg	Grain Type	Hand Hardness	Manual Wetness	Stratigraphy Comments
68	-	66	0.4	0.1	0.2	FCsf	F	D	some DFdc
66	-	62	1.0	0.2	0.5	FCsf	F	D	
62	-	51	1.5	0.5	1.0	FCsf	F	D	some cups some prisms
51	-	35	2	0.5	1.0	FCso	F	D	
35	-	24	3	2.0	2.5	DHcp	F	D	
24	-	12	4	2	3	DHla	F	D	
12	-	0	5	2	3	DHxr	F	D	DHpr DHla

Location: COLORADO			Date: 20250123								
Site: CLPX FF 304			Time: 1254				Force	Depth	Depth		
Pit: CLPXFF3042025123			Observers: IC GLDCR				max	manual	digital	Grnd	
X-Coord	Y-Coord	Time	Data Type	SN	Profile #	Force Gage	N	cm	cm	Y/N	Comments
0	30		STD RAM					65		Y	
30	30		PEN RAM					70.5		Y	
		SCOPE									
0	60			127				66		Y	
30	60			↓				67		Y	
60	60							70		Y	
90	60							69		Y	
120	60			↓				69		Y	
		RAM W/	FORCE								
0	90			127		50N	17.45	67		N	
30	90			↓		↓	19.80	64		N	
60	90						21.50	60		N	
90	90						26.70	63		N	
120	90			↓		↓	12.00	63		N	
		SCOPE W/	FORCE								
0	120			127		50N	3.70	64		N	
30	120			↓		↓	46.10	67		Y	ground
60	120						0.75	58		N	
90	120						2.95	62		N	
120	120			↓		↓	1.10	57		N	

Ram Penetrometer Field Data Sheet

Location: COLORADO
Site: CLPX FF S04
Associated pit/transect/point: CLPX FFS4 20250123
Date: 20250123 Time:
Observer: K ELDER
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
STD		RAM			POWDER		RAM					1	15	34
														35
1	0	0	0	54	0.1	0	0	0	5.5					36
1	0.5	0	0	54	0.1	0.1	0	0	7					37
		6	1	61			1	1	10.5					38
		4	1	62					11.5					39
		1	2	63.5					12.5			1	20	40.5
				64.5					13.5					42
				65					14.5					43
							1	2	15.5					44.5
									16					46
									16.5					47
							1	3	17.5					48
									18.0					49
									18.5					50
							1	5	19					51
									19.5					52
									20					54.5
							1	10	21.5			1	10	55.5
									22.			2	10	57
									22.5					58.5
									23.5					59.5
									24.5			1	10	60
									25.5					60.5
									26					61
									26.5					62
									27.5					63
									28					64
									28.5					66.5
									29					68
									29.5					69
									30.5					69.5
									31			1	25	70.5
							1	15	31.5					
									32.5					
									33					
									33.5					

Notes: