

Location:	CO	Site:	FST	Date:	2024/205				
Time:	14:35	Observers:	B McLean S Haining	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 loss? (Y/N)
Precip Type	Rain	Snow	Graupel	Hail	Rain/Snow	Sample A ~3.2	46.5	164.89	
Sky	Clear	Few (< 1/4 of sky)	Scattered (1/4-1/2 of sky)	Broken (> 1/2 of sky)	Overcast (complete cover)	Sample B 27.8	13.5	156.47	N
Wind	Calm (0 mph)	Light (1 - 16 mph)	Moderate (17 - 25 mph)	Strong (26 - 38 mph)	Extreme (> 38 mph)	Ground condition Frozen	Smooth < 5 cm	Rough (5 - 20 cm)	Rugged (> 20 cm)
Tree Canopy	No trees	Sparse (5 - 20%)	Open (20 - 70%)	Closed (> 70%)	Ground Vegetation Bare	Grass	Shrub	Deadfall	
Instrument	Y/N	SN	Instrument	Y/N	SN	Additional Comments		Height of Ground Vegetation (cm)	
Digital LWC	Y		Snow Scope	Y		Cold!		10 cm	
Stratigraphy pictures	Y		Lyte Probe	N		Weather			
Standard ram	Y		SMP	N					
Powder Ram	Y		Force Ram	Y					
Slush Ram	N		Force Snow Scope	Y					
HS Transects	Y		Snow Scope Transects	N					
Pit Pictures	Y		SSA / NIR Box	N					
Other			Misc						

Location (Regional Scale)	Date (YYYYMMDD)	Observers (first initial & last name):		Comments/Notes:										
Site (Study Plot)	Time (pit opened)			Temperature profile times					Sediment core (a) L15					
Pit ID	Snow Depth (cm)	LWC	Device & SN	UTME	UTMN	Zone (two digit)	GPS device & uncertainty:	START	END	Shale	70-81 cm			
Density				Stratigraphy										
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 . T	Height above ground	Grain Size (mm)	Grain Type	Hand Hardness	Manual Wetness	Stratigraphy Comments		
top - bottom (cm)	(cm)	(cm)	(kg/m3)	(unitless)	(unitless)	(cm)	(cm)	(cm)	Max	Min	Avg			
70 - 53	70	53	70	70	-7	70	70	169.5	2	0.5	1	S _H X _F	F	D
53 - 42	53	42	60	60	-9	50	60	40.5	2	0.5	1	S _H X _F	F	D
42 - 37	42	37	40	40	-6	69.5	69.5	0.5	0.1	0.3	1	R _G X _F	F	D
37 - 30	37	30	30	30	-5	53	53	0.5	0.1	0.3	1	R _G X _F	F	D
30 - 26	30	26	26	26	-3	40	40	0.5	0.1	0.3	1	R _G X _F	F	D
26 - 20	26	20	20	20	-3	40	40	0.5	0.1	0.3	1	R _G X _F	F	D
20 - 17	20	17	17	17	-1	40	40	0.5	0.1	0.3	1	R _G X _F	F	D
17 - 14	17	14	14	14	-1	37	37	1	0.3	0.5	1	F _L S _O	HF	D
14 - 11	14	11	11	11	-1	23	23	1	0.3	0.5	1	F _L S _O	HF	D
11 - 9	11	9	9	9	-1	23	23	1	0.3	0.5	1	D _H M _R	HF	D
9 - 7	9	7	7	7	-1	23	23	1	0.3	0.5	1	D _H M _R	HF	D
7 - 5	7	5	5	5	-1	23	23	1	0.3	0.5	1	D _H M _R	HF	D
5 - 4	5	4	4	4	-1	23	23	1	0.3	0.5	1	D _H M _R	HF	D
4 - 3	4	3	3	3	-1	23	23	1	0.3	0.5	1	D _H M _R	HF	D
3 - 2	3	2	2	2	-1	23	23	1	0.3	0.5	1	D _H M _R	HF	D
2 - 1	2	1	1	1	-1	23	23	1	0.3	0.5	1	D _H M _R	HF	D
1 - 0	1	0	0	0	-1	23	23	1	0.3	0.5	1	D _H M _R	HF	D
0 - -1	0	-1	-1	-1	-1	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-1 - -2	-1	-2	-2	-2	-2	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-2 - -3	-2	-3	-3	-3	-3	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-3 - -4	-3	-4	-4	-4	-4	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-4 - -5	-4	-5	-5	-5	-5	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-5 - -6	-5	-6	-6	-6	-6	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-6 - -7	-6	-7	-7	-7	-7	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-7 - -8	-7	-8	-8	-8	-8	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-8 - -9	-8	-9	-9	-9	-9	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-9 - -10	-9	-10	-10	-10	-10	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-10 - -11	-10	-11	-11	-11	-11	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-11 - -12	-11	-12	-12	-12	-12	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-12 - -13	-12	-13	-13	-13	-13	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-13 - -14	-13	-14	-14	-14	-14	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-14 - -15	-14	-15	-15	-15	-15	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-15 - -16	-15	-16	-16	-16	-16	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-16 - -17	-16	-17	-17	-17	-17	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-17 - -18	-17	-18	-18	-18	-18	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-18 - -19	-18	-19	-19	-19	-19	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-19 - -20	-19	-20	-20	-20	-20	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-20 - -21	-20	-21	-21	-21	-21	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-21 - -22	-21	-22	-22	-22	-22	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-22 - -23	-22	-23	-23	-23	-23	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-23 - -24	-23	-24	-24	-24	-24	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-24 - -25	-24	-25	-25	-25	-25	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-25 - -26	-25	-26	-26	-26	-26	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-26 - -27	-26	-27	-27	-27	-27	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-27 - -28	-27	-28	-28	-28	-28	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-28 - -29	-28	-29	-29	-29	-29	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-29 - -30	-29	-30	-30	-30	-30	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-30 - -31	-30	-31	-31	-31	-31	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-31 - -32	-31	-32	-32	-32	-32	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-32 - -33	-32	-33	-33	-33	-33	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-33 - -34	-33	-34	-34	-34	-34	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-34 - -35	-34	-35	-35	-35	-35	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-35 - -36	-35	-36	-36	-36	-36	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-36 - -37	-36	-37	-37	-37	-37	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-37 - -38	-37	-38	-38	-38	-38	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-38 - -39	-38	-39	-39	-39	-39	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-39 - -40	-39	-40	-40	-40	-40	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-40 - -41	-40	-41	-41	-41	-41	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-41 - -42	-41	-42	-42	-42	-42	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-42 - -43	-42	-43	-43	-43	-43	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-43 - -44	-43	-44	-44	-44	-44	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-44 - -45	-44	-45	-45	-45	-45	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-45 - -46	-45	-46	-46	-46	-46	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-46 - -47	-46	-47	-47	-47	-47	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-47 - -48	-47	-48	-48	-48	-48	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-48 - -49	-48	-49	-49	-49	-49	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-49 - -50	-49	-50	-50	-50	-50	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-50 - -51	-50	-51	-51	-51	-51	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-51 - -52	-51	-52	-52	-52	-52	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-52 - -53	-52	-53	-53	-53	-53	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-53 - -54	-53	-54	-54	-54	-54	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-54 - -55	-54	-55	-55	-55	-55	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-55 - -56	-55	-56	-56	-56	-56	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-56 - -57	-56	-57	-57	-57	-57	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-57 - -58	-57	-58	-58	-58	-58	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-58 - -59	-58	-59	-59	-59	-59	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-59 - -60	-59	-60	-60	-60	-60	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-60 - -61	-60	-61	-61	-61	-61	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-61 - -62	-61	-62	-62	-62	-62	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-62 - -63	-62	-63	-63	-63	-63	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-63 - -64	-63	-64	-64	-64	-64	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-64 - -65	-64	-65	-65	-65	-65	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-65 - -66	-65	-66	-66	-66	-66	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-66 - -67	-66	-67	-67	-67	-67	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-67 - -68	-67	-68	-68	-68	-68	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-68 - -69	-68	-69	-69	-69	-69	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-69 - -70	-69	-70	-70	-70	-70	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-70 - -71	-70	-71	-71	-71	-71	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-71 - -72	-71	-72	-72	-72	-72	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-72 - -73	-72	-73	-73	-73	-73	23	23	1	0.3	0.5	1	D _H M _R	HF	D
-73 - -74	-73	-74	-74	-74	-74	23	23	1	0.3	0.5	1	D _H M _R		

Location: C 5

Date: 7/24/2015

Site: FST

Time: 1:15:45

Pit: E 149.024125

Observers: M. Lue S. H. Morris

X-Coord	Y-Coord	Time	Data Type	SN	Profile #	Force Gage	max N	Depth cm	Depth cm	Digital	Grnd
Powder										Y/N	Comments
15	15										
30	15										
15	30	1536	Scope	7234	882						
30		1537				693	69	69	69		
45		1537				683	69	69	69		
60		1538				685	69	69	69		
75		1539				686	72	73	73		
15	45	1540	Scope			1000	76	57	57		
30		1541					75	58	58		
45		1541						72	51		
60		1542						74	58		
75		1542						72	59		
15	60	1542	Scope	234	897		6	50	48		
30		1543				898	7	49	50		
45		1544				899	7	48	47		
60		1544				890	6	43	44		
75		1545				891	6	49	51		

Ram Penetrometer Field Data Sheet

Location: CO	Tube weight	T	kg											
Site: FST	Hammer weight	H	kg											
Associated pit/transect/point: FST20241205	Number of falls	n												
Date: 20241205	Fall height	f	cm											
Observer: E McLUCE S. Kliney	Location of point	p	cm											
UTME: 042579S	RN = T + H + nfH/p		kg											
UTMN: 4413538	RR = 9.81 (T + H + nfH/p)		N											
Ram type: Powder / STD	Ram mass:	kg												
T	H	n	f	p	T	H	n	f	p	T	H	n	f	p
0.1	0	0	0	5.5			2	5	48	1	0	6	0	44
0.1	0.2	0	0	10.5					49	1	0.5	0	0	44
		1	1	11.5					56		1	1	52	
				12.5					51		1	1	53	
				13.5					52		1	1	54	
				14.5					53		1	1	68	
				15					54					
		2	1	15.5			3	5	55					
		2	2	16.5					56					
		3	2	17.5			2	5	57					
				18.5					58					
		3	2	19.5					59					
		1	3	20.5			1	5	60					
		1	3	21.5					61					
		2	3	22.5					62					
		3	2	24.5			2	5	63					
		2	4	25.5			1	5	64					
		2	5	26.5			1	5	65					
		2	5	27.5					67					
				28.5					68					
				29.5			2	5	69					
				30.5			10	5	69.5					
	5	5	31.5		1531 End									
	2	5	32.5											
	1	5	33											
	1	5	34											
			35											
			36											
			37											
			38											
			39.5											
			40.5											
			41.5											
			42.5											
	2	5	44.5											
			45.5											
			47											

Notes:

Location (regional scale)		Site (study plot)		Transects	Date	Time	
L6		FST		A1B	20241204	Start	End
Observer(s)		Wx Description					
E. McClue S. Rinneray		COLD CLR calm					
Transect A		Transect B					
Point	HS (cm)	Point	HS (cm)	Point	HS (cm)	Point	HS (cm)
0	76	31	1557	0	50	31	39
1	71	32		1	57	32	53
2	73	33		2	62	33	56
3	72	34		3	60	34	60
4	70	35		4	58	35	56
5	74	36		5	54	36	53
6	73	37		6	44	37	53
7	72	38		7	44.5	38	40
8	73	39		8	42	39	66
9	69	40		9	43	40	
10	70	41		10	49	41	
11	64	42		11	49	42	
12	69	43		12	50	43	
13	65	44		13	50	44	
14	64	45		14	49	45	
15	63	46		15	50	46	
16	62	47		16	59	47	
17	60	48		17	56	48	
18	52	49		18	59	49	
19	43	50		19	58	50	
20	48	51		20	60	51	
21	48	52		21	61	52	
22	50	53		22	59	53	
23	47	54		23	58	54	
24	42	55		24	56	55	
25	36	56		25	58	56	
26	56	57		26	39	57	
27	53	58		27	39	58	
28		59		28	38	59	
29		60		29	35	60	
30				30	35		

1556

1605