

Location:	<i>C0</i>	Site:	<i>FST</i>	Date:	<i>2024/2</i>					
Time:	<i>1230</i>	Observers:	<i>Tom, GJ</i>	Interval board SWE measurement						
Precip Rate	<i>None</i>	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	<i>Rain</i>	<i>Snow</i>	<i>Graupel</i>	<i>Hail</i>	<i>Rain/Snow</i>	<i>Sample A</i>	<i>24</i>	<i>18</i>	<i>75</i>	
Sky	<i>Clear</i>	<i>Few</i> (< 1/4 of sky)	<i>Scattered</i> (1/4-1/2 of sky)	<i>Broken</i> (> 1/2 of sky)	<i>Overscast</i> (complete cover)	<i>Ground</i> condition	<i>Sample B</i>	<i>25</i>	<i>19.5</i>	<i>78</i>
Wind	<i>Calm</i> (0 mph)	<i>Light</i> (1-16 mph)	<i>Moderate</i> (17-25 mph)	<i>Strong</i> (26-38 mph)	<i>Extreme</i> (> 38 mph)	<i>Ground</i> roughness	<i>Sample C</i>	<i>24.6</i>	<i>19.5</i>	<i>77</i>
Tree Canopy	<i>No trees</i>	<i>Sparse</i> (5-20%)	<i>Open</i> (20-70%)	<i>Closed</i> (> 70%)	<i>Ground</i> Vegetation	<i>Bare</i>	<i>Moist</i>	<i>Saturated</i>		
Instrument	Y/N	SN	Instrument	Y/N	SN	Additional Comments		Height of Ground Vegetation (cm)		
Digital LWC	<i>N</i>		Snow Scope	<i>Y</i>	<i>234</i>	Weather				
Stratigraphy pictures	<i>Y</i>		Lytte Probe	<i>N</i>						
Standard Ram	<i>Y</i>		SMP	<i>N</i>						
Powder Ram	<i>Y</i>		Force Ram	<i>Y</i>						
Slush Ram	<i>N</i>		Force Snow Scope	<i>Y</i>	<i>224</i>					
HS Transects	<i>Y</i>		Snow Scope Transects	<i>N</i>						
Pit Pictures	<i>Y</i>		SSA / NIR Box	<i>N</i>						
Other										
						<i>RADIOMETER CLOUDS 1229 HS 95 cm</i>				
						<i>Misc</i>				

Location (Regional Scale)	Date (MMYYMD)	Observers (first initial & last name):	Comments/Notes:	
Site (Study Plot) EST	Time (plot opened) 1241	Temperature profile		Comments/Notes:
		START 1241	END 1301	
Pit ID SITEYYMMDD	Snow Depth (cm)	LWC Device & SN	UTME	UTMN Zone (two digit)
EST 2024 B18	100	N/A	0425773	4413535
Density				
Height above ground	Density profile A kg/m ³	Density profile B kg/m ³	Extra Density	Permittivity profile A (unitless)
top (cm)	kg/m ³	kg/m ³	kg/m ³	Permittivity profile B (unitless)
95.3 - 77.3	18	12.5	6.9	100 - 7.5
77.3 - 62.3	14	11.5	6.9	90 - 8.5
62.3 - 38.4	22.4	14.5	23.5	80 - 8
38.4 - 14.4	22	60.5	23.5	70 - 7
14.4 - 0	11.4	39	23.4	60 - 6
-	-	-	-	50 - 5
50 - 40	57	48	57	40 - 4
40 - 30	16	57	57	30 - 2
30 - 20	178	142	142	20 - 2
20 - 10	203	105	105	10 - 2
10 - 0	220	22	22	0 - 1
50 - 40	264	242	242	18 - 0
40 - 30	234	229	229	3 - 1
30 - 20	294	265	265	-
20 - 10	262	246	246	-
10 - 2	242	242	242	-
-	-	-	-	-
LWC				
Temperature				
Height above ground	T	Height above ground	Grain Size (mm)	Grain Type
top (cm)	oC	top (cm)	Max	Hand Hardness
95.3 - 77.3	100 - 7.5	100 - 99	1	F
77.3 - 62.3	90	2	1.5	D
62.3 - 38.4	80	1	1.5	DRK
38.4 - 14.4	70	1	0.5	F
14.4 - 0	60	1	0.5	DRK
-	50	1	0.5	D
50 - 40	40	1	0.5	DRK
40 - 30	30	1	0.5	F
30 - 20	20	1	0.5	DRK
20 - 10	10	1	0.5	F
10 - 0	0	1	0.5	DRK
50 - 40	18	2	1	F
40 - 30	18	3	1	DRCP
30 - 20	18	3	1	F
20 - 10	10	-	-	D
10 - 2	2	-	-	-
-	-	-	-	-
Stratigraphy				
Height above ground	Grain Size (mm)	Grain Type	Hand Hardness	Manual Wetness
top (cm)	Max	Min	Avg	
95.3 - 77.3	100	99	1	WELL DEFINED RIDS
77.3 - 62.3	90	81	1.5	
62.3 - 38.4	80	79	1.5	
38.4 - 14.4	70	70	7	
14.4 - 0	60	60	6	
-	50	50	5	
50 - 40	40	40	4	
40 - 30	30	30	2	
30 - 20	20	20	2	
20 - 10	10	10	2	
10 - 0	0	0	1	
50 - 40	18	18	1	
40 - 30	18	18	1	
30 - 20	18	18	1	
20 - 10	10	10	1	
10 - 2	2	2	1	
-	-	-	-	

Ram Penetrometer Field Data Sheet

Location:	Co					Tube weight	T	kg	
Site:	FST					Hammer weight	H	kg	
Associated pit/transect/point:	FST 2021218					Number of falls	n		
Date:	2021-12-18					Fall height	f	cm	
Observer:	Tinae SKINNER					Location of point	p	cm	
UTME:	UTMN:			Zone:	13	RN = T + H + nfH/p kg			
Ram type:	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	7	0.1	0.1	1	10	60
0.1	0.1	0	0	12	0.1	0.1			61
	1	1	19						62
			16			2	10	63	
	2	1	17						64.5
			18						65.5
	3	1	19						67
	2	3	20			2	15	68	
			21			1	15	69	
	1	5	22			2	10	70	
			23						71
	2	5	24						72
			25						73
	4	5	26						74
	2	10	27			3	10	75	
			28						
	2	15	30						
			33						
	1	10	34.5						
			36						
	2	5	37						
			38						
			39						
			40						
	4	5	41.5						
	2	10	43						
	2	10	44.5						
	2	10	46						
	2	10	47						
	2	15	48						
			49.5						
	2	20	51						
			52						
			53.5						
			55						
	1	20	56.5						
	1	15	58						
	1	10	59						

Notes:

Location: C0

Date: 2024/12/18

Site: FST

Time: 1345

Pit: FST 2024/12/18 Observers: E.M., L.K., S.L., M.W.

Force max manual digital

Depth cm Y/N

Depth cm

Grnd N

Comments KJ

X-Coord	Y-Coord	Time	Data Type	SN	Profile #	Force Gage	N	cm	Y/N	Comments
15	15	1345	Raw Data							
20	↓	1355	570 Run							
15	30	1449	Scope	234	1000					
30		1403			1027					
45		1403			1008					
60		1403			1009					
75	↓	1404			1010					
15	45	1405	Force Run							
30		1406			1000	10	74			
45		1406				13	69			
60		1406				19	65			
75	↓	1407				20	70			
15	60	1407	Force Run	234	1011	1000	3	63	62	
30		1408			1012		0	68	65	
45		1408					4	60	61	
60		1409			1013		3	61	60	
75	↓	1409			1014		0	64	66	
					1015					

Location (regional scale)		Site (study plot)		Transects		Date	Time	
				A, B		20291218	Start	End
Observer(s)						Wx Description		
<i>Erica Skjerny</i>		SCT Dr No Dmg						
1218		Transect A 1218		1221 Transect B 1221				
Point	HS (cm)	Point	HS (cm)	Point	HS (cm)	Point	HS (cm)	
0	97	31		0	68	31	46	
1	96	32		1	76	32	59	
2	94	33		2	81	33	66	
3	95	34		3	78	34	66	
4	92	35		4	78	35	69	
5	96	36		5	73	36	62	
6	96	37		6	65	37	64	
7	94	38		7	59	38	67	
8	95	39		8	51	39	61	
9	95	40		9	52	40	62	
10	92	41		10	53	41		
11	88	42		11	56	42		
12	91	43		12	60	43		
13	91	44		13	60	44		
14	86	45		14	69	45		
15	81	46		15	65	46		
16	79	47		16	69	47		
17	77	48		17	63	48		
18	60	49		18	74	49		
19	57	50		19	72	50		
20	59	51		20	75	51		
21	61	52		21	75	52		
22	61	53		22	78	53		
23	54	54		23	74	54		
24	65	55		24	70	55		
25	68	56		25	73	56		
26	78	57		26	67	57		
27	71	58		27	56	58		
28	64	59		28	52	59		
29		60		29	45	60		
30				30	47			