

Location:	Col		Site:	SPLNET		Date:	20250319			
Time:	1516		Observers:	Nucleus Skirmish		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 resulting in SWE loss? (Y/N)	
Precip Type	Rain	Snow	Graupel	Hail	Rain/Snow	Sample A	4, 4	8	182	Y
Sky	Clear	Few <td>Scattered<br (>="" 1="" 2="" 4-1="" of="" sky)<="" td=""/><td>Broken<br (>="" 1="" 2="" of="" sky)<="" td=""/><th>Overcast<br complete="" cover)<="" th=""/><th>Sample B</th><td>4, 4</td><td>8</td><td>182</td><td>Y</td></th></td></td>	Scattered <td>Broken<br (>="" 1="" 2="" of="" sky)<="" td=""/><th>Overcast<br complete="" cover)<="" th=""/><th>Sample B</th><td>4, 4</td><td>8</td><td>182</td><td>Y</td></th></td>	Broken <th>Overcast<br complete="" cover)<="" th=""/><th>Sample B</th><td>4, 4</td><td>8</td><td>182</td><td>Y</td></th>	Overcast <th>Sample B</th> <td>4, 4</td> <td>8</td> <td>182</td> <td>Y</td>	Sample B	4, 4	8	182	Y
Wind	Calm (0 mph)	Light (1 - 16 mph)	Moderate (17 - 25 mph)	Strong (26 - 38 mph)	Extreme <th>Ground condition</th> <td>Frozen</td> <td>Moist</td> <td>Saturated</td> <td></td>	Ground condition	Frozen	Moist	Saturated	
Tree Canopy	No trees	Sparse (5 - 20%)	Open <td>Closed<br (>="" 70%)<="" td=""/><th>Ground roughness</th><td>Smooth<br (<="" 5="" cm)<="" td=""/><td>Rough<br (>="" -="" 20="" 5="" cm)<="" td=""/><td>Rugged<br (>="" 20="" cm)<="" td=""/><td></td></td></td></td></td>	Closed <th>Ground roughness</th> <td>Smooth<br (<="" 5="" cm)<="" td=""/><td>Rough<br (>="" -="" 20="" 5="" cm)<="" td=""/><td>Rugged<br (>="" 20="" cm)<="" td=""/><td></td></td></td></td>	Ground roughness	Smooth <td>Rough<br (>="" -="" 20="" 5="" cm)<="" td=""/><td>Rugged<br (>="" 20="" cm)<="" td=""/><td></td></td></td>	Rough <td>Rugged<br (>="" 20="" cm)<="" td=""/><td></td></td>	Rugged <td></td>		
Instrument	Y/N	SN	Instrument	Y/N	SN	Additional Comments		Height of Ground Vegetation (cm)		
Digital LWC	Y	101	Snow Scope	Y	208	Pit & Pore columns				
Stratigraphy pictures	Y		Lytte Probe	N		Weather				
Standard ram	Y		SMP	N						
Powder Ram	Y		Force Ram	Y						
Slush Ram	N		Force Snow Scope	Y	151					
HS Transects	Y		Snow Scope Transects	N						
Pit Pictures	Y		SSA / NIR Box	Y	101					
Other			Misc			a 2 cm HS slice				

Location (Regional Scale)	Date (YYYYMMDD)	Observers (first initial & last name):		Comments/Notes:											
Site (Study Plot)	Time (pit opened)	Temperature profile times	GPS device & uncertainty:												
SPURST	1516	1520	1545 S-1												
Pit ID SITEYYMMDD	Snow Depth (cm)	LWC Device & SN	UTME	UTMN											
SPURST2020318	8	101	04124551	44177002 13 6 mm/min 655											
Density	LWC	Temperature	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 (cm)	T	Height above ground	Grain Size (mm)	Grain Type	Hand Hardness	Manual Wetness	Stratigraphy Comments		
top - bottom (cm)						0	°C	top - bottom (cm)	Max	Min	Avg				
29 - 79	1.28	1.82	1.44	1.34	89	-1.5	69	-87	1	0.3	0.8	PPsd	F	D	FP _{SP} 2.8 2.5 climbing 89 87.2 - 84.4
79 - 69	2.68	2.86	1.47	1.97	87	-2	87	-65	1	0.3	0.8	MFCI	P	D	1.8 5 2.2 4.5 2.05 42.6 - 80.4
69 - 59	3.12	2.86	1.60	1.88	85	-3	85	-82	0.8	0.1	0.5	OFdC	1F	D	MFC 8.8 26.5 301 80.4 - 31.6
59 - 49	3.16	3.16	1.56	1.52	81	-2.5	81	-74	0.4	0.1	0.5	MFC	K	D	MFC 8.8 26.5 301 80.4 - 31.6
49 - 39	2.78	2.78	1.45	1.44	80	-3	80	-74	1.1	0.5	1	MFC	1F	D	MFC 8.8 26.5 301 80.4 - 31.6
39 - 29	2.71	2.57	1.47	1.45	74	-3.5	74	-74	1.5	0.5	1	MFC	K	D	MFC 8.8 26.5 301 80.4 - 31.6
29 - 19	2.58	2.27	1.41	1.34	70	-3.5	70	-74	1.5	0.5	1	MFC	K	D	MFC 8.8 26.5 301 80.4 - 31.6
19 - 9	2.56	2.48	1.38	1.38	63	-4	63	-74	1.5	0.5	1	MFC	K	D	MFC 8.8 26.5 301 80.4 - 31.6
9 - 0	3.00	2.92	1.45	1.49	60	-4	74	-63	0.9	0.3	0.5	MFC	4F	D	11 28.5 259 71.6 - 60.6
-	-	-	5.1	-3.5	54	-3.5	50	-3.5	6.3	0.9	0.3	MFC	4F	D	10.4 23 317 60.6 - 50.2
-	-	-	4.1	-3.5	47	-3.5	40	-3	5.1	0.9	0.3	MFC	1F	D	10.4 23 317 60.6 - 50.2
-	-	-	4.0	-3	40	-3	3.0	-2.5	5.1	0.9	0.3	MFC	1F	D	10.4 23 317 60.6 - 50.2
-	-	-	2.3	-2.5	47	-2.3	2.0	-2.3	2	0.5	1	MFC	1F	D	23.2 59.5 256 45.8 - 22.6
-	-	-	2.0	-2	2.0	-2	1.5	-1.5	1.3	1	1	MFC	1F	D	23.2 59.5 256 45.8 - 22.6
-	-	-	1.0	-2	1.3	-1.3	0.8	-1.3	1	1	1	MFC	1F	D	11.8 28 237 11.8 - 11.8
-	-	-	0	-0	0	-0	1	-0	2	0.5	1	MFC	1F	D	11.8 28 237 11.8 - 11.8

Ram Penetrometer Field Data Sheet

Location:	<i>C6</i>					Tube weight	T	kg						
Site:	<i>JPLWST</i>					Hammer weight	H	kg						
Associated pit/transect/point:	<i>JPLWST Z02S0318</i>					Number of falls	n							
Date:	<i>Z02S0318</i>					Fall height	f	cm						
Observer:	<i>Eric C. S. Skerry</i>					Location of point	p	cm						
UTME:	UTMN:	Zone:			$RN = T + H + nfH/p$									
Ram type:	<i>STD/Pow</i>					$RR = 9.81(T + H + nfH/p)$								
T	H	n	f	p	T	H	n	f	p	T	H	n	f	p
1	0	0	0	5	0.1	0	0	0	4			1	25	41
1	0.5	0	0	5	0.1	0.2	0	0	4			1	75	42
	1	5	9				1	3	5			2	25	43
	3	3	10				2	5	6			3	25	44.5
	4	5	11				1	5	7			1	5	45
	2	10	12					8				1	10	46
		13						9				1	15	47
	6	5	14				4	5	10			1	10	48.5
	2	20	15				3	10	11			1	10	50.5
	1	20	16				2	25	12			1	5	51
	1	20	21					13						52
	1	5	24					14						53
	1	3	26				4	25	15					54
		17						16						55
	2	5	28				3	25	17					56
		29					1	25	18			2	5	57
	1	10	30					19				1	10	59
		31					1	10	20.5					60.5
	2	5	32					21.5						62
	1	10	33					22.5						63.5
	2	10	34					23				1	5	64.5
		35						24						65
	1	15	36					25						66
		37						26						67
	2	15	38				2	10	27			2	5	68
	1	20	39				1	15	28			1	10	59
		40						29				1	10	60.5
		41					2	15	30			1	5	72
		42					2	25	31					73
		43					1	25	32					74
		44					1	20	33					75
		45					2	20	34					
		46					2	25	35					
	4	1	47						36					
								1	25	37				
									38					
									39					
									40					

Notes:

Location: C Date: 20250318

Site: T-Plant

Pit: T-Plant 20250318

Date: 20250318
Time: 1633

Observers: Sweller, Shirley

Force Depth Depth

X-Coord	Y-Coord	Time	Data Type	SN	Profile #	Force Gage	N	cm	cm	Grnd	Y/N	Comments
0	30	1623	STD Run	7			91			✓		
30	0	1632	Raw Data							✓		
0	60	1645	Slope	308	236		73	86		✓	Towards	
30		1645					93	78				
60		1645					93	90				
90		1645					78	89				
120		1645					90	85				
0	90	1650	Force Run									
30		1650										
60		1650										
90		1650										
120		1650										
0	120	1652	Force Slope 151	1110								
30		1652										
60		1652										
90		1652										
120		1652										

Location (regional scale)		Site (study plot)		Transects		Date	Time	
							Start	End
Observer(s)						Wx Description		
Eugene Skinner		ONC S2 N00 NNE						
1658 Transect A 1700		1701 Transect B 1703						
Point	HS (cm)	Point	HS (cm)	Point	HS (cm)	Point	HS (cm)	
0	98	31		0	88	31		
1	100	32		1	99	32		
2	97	33		2	100	33		
3	96	34		3	104	34		
4	99	35		4	99	35		
5	99	36		5	99	36		
6	92	37		6	103	37		
7	100	38		7	101	38		
8	103	39		8	105	39		
9	101	40		9	105	40		
10	103	41		10	106	41		
11	95	42		11	105	42		
12	99	43		12	107	43		
13	101	44		13	108	44		
14	97	45		14	106	45		
15	94	46		15	101	46		
16		47		16	107	47		
17		48		17	100	48		
18		49		18	94	49		
19		50		19		50		
20		51		20		51		
21		52		21		52		
22		53		22		53		
23		54		23		54		
24		55		24		55		
25		56		25		56		
26		57		26		57		
27		58		27		58		
28		59		28		59		
29		60		29		60		
30				30				

Location (regional scale)		Site (study plot)		Transects		Date	Time			
							Start	End		
C		SPwest		JPL 1, 2		20250318				
Observer(s)		Wx Description								
Gardie Skarpe		ONC SZ Nov Mon								
1708 Transect A		1710	1704 Transect B		1707					
Point	HS (cm)	Point	HS (cm)	Point	HS (cm)	Point	HS (cm)			
0	100	31		0	6	31 A	57			
1	106	32		1	63	32 B	62			
2	108	33		2	87	33 C	50			
3	108	34		3	81	34 D	38			
4	104	35		4	84	35 E	70			
5	98	36		5	94	36 F	82			
6	101	37		6	92	37 G	91			
7	102	38		7	83	38 H	58			
8	99	39		8	85	39 I	60			
9	105	40		9		40 J	56			
10	109	41		10		41				
11	95	42		11		42				
12	163	43		12		43				
13	102	44		13		44				
14	103	45		14		45				
15	107	46		15		46				
16	99	47		16		47				
17	101	48		17		48				
18	101	49		18		49				
19	107	50		19		50				
20	105	51		20		51				
21	100	52		21		52				
22		53		22		53				
23		54		23		54				
24		55		24		55				
25		56		25		56				
26		57		26		57				
27		58		27		58				
28		59		28		59				
29		60		29		60				
30				30						

Location (regional scale)		Site (study plot)		Transects		Date	Time			
Co		JPLmat		JPLA		20250318	Start	End		
Observer(s)		Wx Description								
Gardner Schenck		ONC SL STRONG WIND								
Transect A				Transect B						
Point	HS (cm)	Point	HS (cm)	Point	HS (cm)	Point	HS (cm)			
0	114	31	106	0	97	31				
1	114	32	100	1	85	32				
2	112	33	102	2	107	33				
3	85	34	106	3	113	34				
4	108	35	102	4	87	35				
5	110	36	106	5	42	36				
6	98	37	109	6	79	37				
7	98	38	90	7	97	38				
8	88	39	98	8	111	39				
9	109	40	100	9	112	40				
10	937	41	108	10	111	41				
11	112	42	109	11	92	42				
12	87	43	108	12	75	43				
13	105	44	109	13	75	44				
14	95	45	104	14	98	45				
15	85	46	107	15	103	46				
16	91	47	101	16	109	47				
17	105	48	113	17	98	48				
18	107	49	118	18	85	49				
19	95	50	108	19		50				
20	71	51	97	20		51				
21	92	52	94	21		52				
22	101	53	75	22		53				
23	83	54	85	23		54				
24	109	55	100	24		55				
25	94	56	100	25		56				
26	96	57	108	26		57				
27	100	58	107	27		58				
28	109	59	98	28		59				
29	93	60	54	29		60				
30	89		96	30						