

Location:	FCF	Site:	TPMKT	Date:	2021210	
Time:	0900	Observers:	L.W.C.	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)	
Precip Type	Rain	Snow	Graupel	Hail	Rain/Snow	
Sky	Clear	Few <td>Scattered (1/4-1/2 of sky)</td> <td>Broken<br (>="" 1="" 2="" of="" sky)<="" td=""/><td>Overcast (complete cover)</td></td>	Scattered (1/4-1/2 of sky)	Broken <td>Overcast (complete cover)</td>	Overcast (complete cover)	
Wind	Calm (0 mph)	Light (1-16 mph)	Moderate (17-25 mph)	Strong (26-38 mph)	Extreme 	
Tree Canopy	No trees	Sparse (5-20%)	Open (20-70%)	Closed <td>Ground Vegetation</td>	Ground Vegetation	
Instrument	Y/N	SN	Instrument	Y/N	SN	
Digital LWC	N		Snow Scope	Y	234	
Sтратigraphy 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	Y		Snow Scope Transects	N		
Pit Pictures	Y		SSA / NIR Box		Misc	
Other	HS net stroke: 44 cm					
	RUMINATOR CLOUDS @ 1022					
	Men Carts Blizzard LM					

Location (Regional Scale)

Date (YYYYMMDD)

Observers (first initial & last name):

Comments/Notes:

CO

20241210

Erica Keros

Temperature profile times
START END
1909 0922

Site (Study Plot)

Time (pit opened)

TPIWET

0902

TPIWET20241210

45

W/S

424541

4417700

T3

655 ± 2m

Pit ID
SITEYYMMDDSnow Depth
(cm)LWC
Device & SN

UTME

UTMN

Zone
(two digit)GPS
device & uncertainty:

Density

LWC

Temperature

Stratigraphy

Height above
groundDensity
profile A
kg/m³Density
profile B
kg/m³Extra
Density
kg/m³Permittivity
profile A
(unitless)Permittivity
profile B
(unitless)Height
above
ground
(cm)

oC

top
(cm)bottom
(cm)

Max

Min

Avg

Grain
TypeHand
HardnessManual
WetnessStratigraphy
Comments17.5 - 17.0
19.2
23.3 - 23.2
26.6 - 26.5
26.6 - 017.5
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23.3
26.6
26.617.0
19.0
23.0
26.5
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26.517.5 - 17.0
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26.6 - 26.5
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Location: 60
 Date: 2024/12/10
 Site: TPL #47
 Time: 1003
 Pit: TPL #47 2024/12/10

X-Coord	Y-Coord	Time	Data Type	SN	Profile #	Force Gage	Force	Depth	Depth	Grnd	
			Pow Resist				max	manual	digital		
							N	cm	cm	Y/N	Comments
15	15		STO Run								
30	15										
15	30	1003	Scope	234	904	1003 N	46	42	4		
30	30	1003			905	↓	46.5	47			
45	45	1003			906	↓	50	46			
60	60	1003			907	↓	46	45			
75	75	1003			908	↓	48	45	✓		
15	45	1003	Force Resist		1003	5.	38	N			
30	45	1003			4	38					
45	45	1003			5	35					
60	60	1003			3	34					
75	75	1003			4	33					
15	60	1003	Force Resist	234	909	5	38	37	N		
30	60	1003			910	5	33	30	1		
45	60	1003			911	4	37	36			
60	60	1003			912	3	36.5	25			
75	75	1003			913	3	41	40			

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Ram Penetrometer Field Data Sheet

Location:	CO						Tube weight	T	kg
Site:	JPLWST						Hammer weight	H	kg
Associated pit/transect/point:	JPLWST 20241210						Number of falls	n	
Date:	20241210						Fall height	f	cm
Observer:	Evan Clegg						Location of point	p	cm
UTME:	UTMN:			Zone:	13		RN = T + H + nfH/p		kg
Ram type:	POWDER			Ram mass:	0.1		kg	RR = 9.81 (T + H + nfH/p)	N
T	H	n	f	p	T	H	n	f	p
0.1	0	0	0	7.5					
0.1	0.1	0	0	13					
	1	1	14.5						
			16.0						
			17.0						
			18.0						
	2	1	19.5						
			20.5						
			21.5						
	3	1	22.5						
			23.5						
	5	1	24.5						
	1	5	25.5						
	2	5	26.5						
			27.5						
			28.5						
	1	5	29.5						
			30.5						
	2	5	31.5						
	3	5	32.5						
	2	5	33.5						
	1	5	34.5						
			36						
	1	3	37						
			38						
	3	3	39						
	1	3	40						
	2	3	41						
	2	3	42						
	3	3	43						
	3	3	44						
	3	3	45						
	2	5	45.5						
	4	5	46						
Notes:									

PML

Location (regional scale)		Site (study plot)		Transects		Date		Time					
				JPL 1, 2		2024/12/10		Start	End				
Observer(s)		Wx Description											
<i>Eric Cas Xander</i>		OVC Light S-1 L											
Transect A				Transect B									
Point	HS (cm)	Point	HS (cm)	Point	HS (cm)	Point	HS (cm)						
0	41	31		0	5	31 A	33						
1	48	32		1	26	32 B	32						
2	51	33		2	38	33 C	33						
3	50	34		3	46	34 D	22						
4	49.5	35		4	49	35 E	39						
5	45	36		5	50	36 F	42						
6	47	37		6	43	37 G	34						
7	50	38		7	45	38 H	44						
8	46	39		8	41	39 I	38						
9	48	40		9		40 J	40						
10	43	41		10		41							
11	42	42		11		42							
12	48	43		12		43							
13	48	44		13		44							
14	48	45		14		45							
15	52	46		15		46							
16	46	47		16		47							
17	48	48		17		48							
18	49	49		18		49							
19	50	50		19		50							
20	47	51		20		51							
21	46	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		
Observer(s)		Wx Description								
<i>Elaine Kelpoe</i>		OVC LIGHT 5-1								
Transect A				Transect B						
Point	HS (cm)	Point	HS (cm)	Point	HS (cm)	Point	HS (cm)			
0	45	31		0	38.5	31				
1	41	32		1	37	32				
2	47.5	33		2	44.1	33				
3	46	34		3	46	34				
4	49	35		4	47	35				
5	46	36		5	45	36				
6	43	37		6	46	37				
7	46	38		7	47.5	38				
8	48	39		8	46.5	39				
9	47.5	40		9	48.5	40				
10	46	41		10	48	41				
11	46	42		11	47	42				
12	52	43		12	48	43				
13	52	44		13	49	44				
14	46	45		14	49	45				
15	44	46		15	44	46				
16		47		16	50	47				
17		48		17	48	48				
18		49		18	44	49				
19		50		19		50				
20		51		20	48.7	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			
CO		JPLWET		JPLA		2024/12/10	Start	End		
Observer(s)		Wx Description								
E. M. C. S. & G. D. S. S.		OVC MOD S-L L								
Transect A				Transect B						
Point	HS (cm)	Point	HS (cm)	Point	HS (cm)	Point	HS (cm)			
0	56	31	54	0	48	31				
1	54	32	49	1	49.5	32				
2	55	33	48	2	53	33				
3	47	34	53	3	54	34				
4	55	35	50	4	48	35				
5	53	36	54	5	9	36				
6	55	37	58	6	52	37				
7	50	38	44	7	49	38				
8	50	39	30	8	53	39				
9	57	40	49.5	9	54.5	40				
10	41	41	54.5	10	54	41				
11	50	42	55	11	46.5	42				
12	45	43	56	12	38	43				
13	53	44	51	13	31	44				
14	47	45	52	14	48.5	45				
15	36	46	54	15	53	46				
16	44	47	53	16	55	47				
17	53	48	49	17	57.5	48				
18	55	49	55	18	40	49				
19	46	50	54	19		50				
20	34	51	51	20		51				
21	52	52	47	21		52				
22	49	53	41	22		53				
23	35	54	23	23		54				
24	51	55	56	24		55				
25	38	56	59	25		56				
26	45	57	57.5	26		57				
27	57	58	58	27		58				
28	56	59	48	28		59				
29	47	60	25	29		60				
30	50		49.5	30						