

Location:	CO	Site:	JPLMST	Date:	20250114				
Time:	0831	Observers:	Chris Skarpe	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	Gravel	Hail	Rain/Snow	Sample A	6.7	6	16.77
Sky	Clear	Few <td>Scattered (1/4-1/2 of sky)</td> <td>Broken<br (&gt;="" 1="" 2="" of="" sky)<="" td=""/><td>Overcast (complete cover)</td><td>Sample B</td><td>6.7</td><td>5.5</td><td>16.77</td></td>	Scattered (1/4-1/2 of sky)	Broken <td>Overcast (complete cover)</td> <td>Sample B</td> <td>6.7</td> <td>5.5</td> <td>16.77</td>	Overcast (complete cover)	Sample B	6.7	5.5	16.77
Wind	Calm (0 mph)	Light (1-16 mph)	Moderate (17-25 mph)	Strong (26-38 mph)	Extreme <td>Ground condition</td> <td>6.</td> <td>5</td> <td>16.77</td>	Ground condition	6.	5	16.77
Tree Canopy	No trees	Sparse (5-20%)	Open (20-70%)	Closed <td>Ground vegetation</td> <td>Frozen</td> <td>Smooth<br (&lt;="" 5="" cm)<="" td=""/><td>Rough (5-20 cm)</td><td>Rugged<br (&gt;="" 20="" cm)<="" td=""/></td></td>	Ground vegetation	Frozen	Smooth <td>Rough (5-20 cm)</td> <td>Rugged<br (&gt;="" 20="" cm)<="" td=""/></td>	Rough (5-20 cm)	Rugged 
Instrument	Y/N	SN	Instrument	Y/N	SN	Additional Comments		Height of Ground Vegetation (cm)	Deadfall
Digital LWC	Y		Snow Scope	Y	234	Weather		10	Shrub
Stratigraphy pictures	Y		Lyte Probe	N					
Standard ram	Y		SMP	N		CAMP @ 25A			
Powder Ram	V		Force Ram	Y		ELTY			
Slush Ram	W		Force Snow Scope	Y	234	CAMP @ 10A			
HS Transects	Y		Snow Scope Transects	N					
Pit Pictures	Y		SSA / NIR Box	Y	0101	115 @ slope 61° m 100% or 100% meter			
Other						Misc			

Location (Regional Scale)	Date (YYYYMMDD)	Observers (first initial & last name):	Comments/Notes:													
C	20201114	G. Clark K. Muniz														
Site (Study Plot)	Time (pit opened)	Temperature profile times														
Project	0837	0837														
Pit ID SITEYYYYMMDD	Snow Depth (cm)	LWC Device & SN	GPS device & uncertainty:													
Project 20201114	70	0.01 100% 52.6 55%	0857 64.8 N 154.3 W 1417-700 13 GARMIN GPS W7.24													
Density		LWC	Temperature													
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 oC	Height above ground	Grain Size (mm)	Grain Type	Hand Hardness	Manual Wetness	Stratigraphy Comments			
top - bottom (cm)	kg/m3	kg/m3	kg/m3	(unitless)	(unitless)	(cm)	oC	top - bottom (cm)	Max	Min	Avg					
57.6 - 59.8	3.50	4.57	23.75			70	-13	70	0.5	0.3	0.5	ppir	F	D	ppnd, ppgr b. needles	
59.8 - 57	2.55	14.5	18.5			60	-14	70	0.5	0.3	0.5	DFBK	F	D	ppnd	
57 - 55	16.7	34.5	215.30			53	-14	64.5	1	0.3	0.5	RGRXF	F	D		
55.8 - 5.8	3.0	6.5	116.61			30	-5	62	-53	1	0.3	0.5	RGRXF	F	D	
5.8 - 0	5.8	17.5				10	-3.5	53	-41	1.5	0.5	1	RGRXF	HF	D	
-						10	-1	53	-41	1.5	0.5	1	RGRXF	HF	D	
- 70						10	0	53	-41	1.5	0.5	1	RGRXF	HF	D	
- 65						10	0	53	-41	1.5	0.5	1	RGRXF	HF	D	
- 55						10	0	53	-41	1.5	0.5	1	RGRXF	HF	D	
- 45						10	0	53	-41	1.5	0.5	1	RGRXF	HF	D	
- 35						10	0	53	-41	1.5	0.5	1	RGRXF	HF	D	
- 25						10	0	53	-41	1.5	0.5	1	RGRXF	HF	D	
- 15						10	0	53	-41	1.5	0.5	1	RGRXF	HF	D	
- 5						10	0	53	-41	1.5	0.5	1	RGRXF	HF	D	
-						10	0	53	-41	1.5	0.5	1	RGRXF	HF	D	
70 - 60	19.8	11.0				10	0	53	-41	1.5	0.5	1	RGRXF	HF	D	
60 - 50	19.2	20.5				10	0	53	-41	1.5	0.5	1	RGRXF	HF	D	
50 - 40	12.5	24.3				10	0	53	-41	1.5	0.5	1	RGRXF	HF	D	
40 - 30	21.7	15.5				10	0	53	-41	1.5	0.5	1	RGRXF	HF	D	
30 - 20	19.8	20.6				10	0	53	-41	1.5	0.5	1	RGRXF	HF	D	
20 - 10	21.9	10.2				10	0	53	-41	1.5	0.5	1	RGRXF	HF	D	
12 - 6.2	22.2	7.7				10	0	53	-41	1.5	0.5	1	RGRXF	HF	D	
-						10	0	53	-41	1.5	0.5	1	RGRXF	HF	D	

**Ram Penetrometer Field Data Sheet**

Location:	Co					Tube weight	T	kg	
Site:	JPLNET					Hammer weight	H	kg	
Associated pit/transect/point:	JPLNET 20250114					Number of falls	n		
Date:	20250114					Fall height	f	cm	
Observer:	GEOLOGIC SURVEY					Location of point	p	cm	
UTME:	UTMN:		Zone:		$RN = T + H + nfH/p$ kg				
Ram type:	Ram mass: kg					$RR = 9.81 (T + H + nfH/p)$ N			
T	H	n	f	p	T	H	n	f	p
1	0	0	0	67			1	10	44.9
1	0.5	0	0	67			1	5	45
	5	S	68						46
0929 End					2	5	47		
					1	10	48		
0.1	0	0	0	8					49
0.1	0.1	6	0	8					50
	1	1	12.5						51
	2	1	13.5						52
	2	1	14						53
	1	3	15		2	10	54		
	2	3	16						55
	1	5	17		1	10	56		
	2	5	18						57
			19		2	10	58		
	3	5	20						59
	2	10	21		3	10	60		
			22		2	15	61.5		
			23		1	15	62.5		
			24						63.5
	1	10	25						64.5
	2	10	26						65
			27		3	15	66		
			28						67
			29		4	15	68		
			30		3	20	69		
	3	10	31		4	20	69.5		
	1	15	32						
			33						
			34						
	2	15	35						
			36						
			37						
	1	15	38						
			39						
			40						
			41						
			42						

Notes:

Location: C  
Site: PLMT

Date: 20160114  
Time:

Pit: PLMT20160114

X-Coord	Y-Coord	Time	Data Type	SN	Profile #	Force Gage	Force	Depth	Depth	
							max	manual	digital	Gnd
							N	cm	cm	Y/N
0	30	0418	STD	1142						Y
30	↓	0430	STD	1142						
0	60	10260940	STD	1142						
30		0441								
60		0451								
90		0459								
120	↑	0455								
0	70	0447	STD	1142						
30		0448								
60		0449								
90		0450								
120	↓	0453								
0	120	0457	STD	1142						
30		0458								
60		0459								
90		0459								
120	↑	0459								
0	120	0459	STD	1142						
30		0459								
60		0459								
90		0459								
120	↓	0459								
0	120	0459	STD	1142						
30		0459								
60		0459								
90		0459								
120	↑	0459								
0	120	0459	STD	1142						
30		0459								
60		0459								
90		0459								
120	↓	0459								
0	120	0459	STD	1142						
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120	↑	0459								
0	120	0459	STD	1142					</	

Location (regional scale)		Site (study plot)		Transects		Date	Time			
Co		JPLMST		PARAD 1,2		20250114	Start	End		
Observer(s)		Wx Description								
<i>Emilia Stevens</i>		<i>BKN S-1 LIGHT WINDS</i>								
0751 Transect A 0755				0755 Transect B 0758						
Point	HS (cm)	Point	HS (cm)	Point	HS (cm)	Point	HS (cm)			
0	70	31		0	63	31				
1	65	32		1	64	32				
2	66	33		2	69	33				
3	68	34		3	73	34				
4	69	35		4	69	35				
5	66	36		5	68	36				
6	68	37		6	69	37				
7	65	38		7	70	38				
8	67	39		8	73	39				
9	64	40		9	72	40				
10	70	41		10	68	41				
11	60	42		11	70	42				
12	69	43		12	71	43				
13	69	44		13	71	44				
14	67	45		14	69	45				
15	67	46		15	68	46				
16		47		16	72	47				
17		48		17	71	48				
18		49		18	66	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			
Co		JPLM1ST		JPL1,2		20250114	Start	End		
Observer(s)		Wx Description								
<i>Gullies Shrubby</i>		BEN S-1 LIGHT WIND								
eE005 Transect A 0808		0707 Transect B 0803								
Point	HS (cm)	Point	HS (cm)	Point	HS (cm)	Point	HS (cm)			
0	683	31		0	72	31 A	53			
1	72	32		1	45	32 B	48			
2	76	33		2	62	33 C	45			
3	71	34		3	61	34 D	57			
4	69	35		4	64	35 E	56			
5	63	36		5	69	36 F	58			
6	70	37		6	68	37 G	44			
7	69	38		7	66	38 H	51			
8	67	39		8	61	39 I	50			
9	76	40		9		40 J	55			
10	75	41		10		41				
11	64	42		11		42				
12	70	43		12		43				
13	70	44		13		44				
14	69	45		14		45				
15	72	46		15		46				
16	68	47		16		47				
17	69	48		17		48				
18	66	49		18		49				
19	70	50		19		50				
20	72	51		20		51				
21	67	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		JPL MET		JPLA		20250114	Start 0809	End 0829		
Observer(s)		Wx Description								
Eucalyptus Skinner		BKN S-1 CLOUD 100%								
Transect A				Transect B						
Point	HS (cm)	Point	HS (cm)	Point	HS (cm)	Point	HS (cm)			
0	78	31	78	0	70	31				
1	79	32	71	1	65	32				
2	79	33	72	2	75	33				
3	68	34	75	3	76	34				
4	77	35	74	4	58	35				
5	76	36	78	5	37	36				
6	73	37	81	6	65	37				
7	75	38	69	7	69	38				
8	72	39	50	8	75	39				
9	79	40	73	9	51	40				
10	66	41	72	10	73	41				
11	77	42	78	11	62	42				
12	55	43	73	12	48	43				
13	76	44	68	13	73	44				
14	69	45	75	14	54	45				
15	61	46	74	15	67	46				
16	66	47	71	16	75	47				
17	74	48	76	17	79	48				
18	78	49	77	18	79	49				
19	61	50	73	19		50				
20	61	51	70	20		51				
21	53	52	71	21		52				
22	73	53	60	22		53				
23	67	54	69	23		54				
24	79	55	78	24		55				
25	64	56	79	25		56				
26	72	57	74	26		57				
27	72	58	79	27		58				
28	75	59	55	28		59				
29	48	60	41	29		60				
30	66		67	30						