

* database
only takes
decimal degrees
cvt 3/2/2018

photos 74, 15, 7b
lichen mats
Pustula

Site Description Form

Date: 07/16/16	Site: SWB6 WP-18	Crew: Judy & Aubrianna	
Time start: 13:31	Time stop: 15:00	Latitude: * 62.100016 62-06.001	Longitude: 142-00.181 * 142.003016
Elevation: 5180			
Dom Trees:	Shrubs:	Graminoids:	Forbs:
<u>Slope Position:</u> Ridgetop Saddle <u>Hillslope:</u> Aspect: Max slope: Slope length: Shoulder Arm Toe Colluvium Piedmont Terrace Floodplain Flat plain	<u>Slope X-section:</u> broken by benches concave convex <u>straight, even</u> flat (less than 5°) undulating convex/concave <u>Drainage:</u> rapid – runoff / hillslope rapid - coarse, permeable <u>impeded – low</u> permeability saturated soil	<u>Micro-relief type:</u> Bedrock outcrops Mass movement Erosional Depositional Tussocks Solifluction <u>Moss hummocks</u> Thermokarst Burrows None <u>Max micro-relief size:</u> <u>Parent Rock:</u>	<u>Parent Material:</u> Bedrock Alluvium Till Colluvium Loess Lacustrine Other: <u>Geomorphic Disturbance:</u> Fluvial Rapid mass wasting Slow mass wasting Wind scour Other:
Evidence of frost-action: No	Evidence of fire: No	Evidence of wind: No	Wind exposure class: 2
Ecotype class:			
Caribou sign: pellets, stripped vegetation, fragmented lichen, tracks, visual sign, etc. Saw caribou, pellets, antlers, ect.			
<u>Soil Samples</u>	N transect	SE transect	SW transect
Litter Type:	EL	Soil	Moss
Litter Depth (cm)	20cm	0	5.5cm

Notes:

Cover Transect Data Sheet

Date: 07/16/16 Observer: Judy Pukra Recorder: Aubrianna
 Plot: SWB 6 Transect ID: SW3 Aspect: N Slope of Tape: -10°

Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist.

photo # 2272

Dist.	Top layer	Lower layers	Soil surface	Lichen ht	Dist.	Top layer	Lower layers	Soil surface	Lichen ht
1.5	dwabir	none	relic	2.5cm	11.5	dwabir	none	#M	
2	#G	bagdu	EL		12	#G	none	eastic	2cm
2.5	#G	netwil	S		12.5	dwabir	none	EL	
3	none	none	eastic	1.5cm	13	dwabir	none	#M	
3.5	dwabir	#G	EL		13.5	dwabir	#G	EL	
4	dwabir	#G	R		14	dwabir	#G	EL	
4.5	#G	dwabir	S		14.5	dwabir	none	EL	
5	dwabir	#G	eastic	1.5cm	15	none	none	eastic	2cm
5.5	#G	none	fellic	2cm	15.5	whima	none	EL	
6	none	none	eastic	1cm	16	none	none	EL	
6.5	#G	none	eastic	2cm	16.5	none	none	eastic	3cm
7	dwabir	whima	#M		17	#G	none	S	
7.5	dwabir	none	#M		17.5	none	none	eastic	2.7cm
8	#G	dwabir	#M		18	netwil	none	eastic	3.5cm
8.5	dwabir	#G whima	#M		18.5	bagdu	none	EL	
9	#G	dwabir	#M		19	none	none	#M	
9.5	dwabir	none	EL		19.5	glpks	none	EL	
10	#G		#M		20	none	none	#M	
10.5	dwabir	whima	EL		20.5	dwabir		fellic	3.3cm
11	dwabir	bagdu	#M		21	#G		#M	

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living mat (moss, lichen)
 R = rock (> 5 mm fragment)
 BR = bedrock
 S = soil
 EL = embedded litter

Unknown species codes:

#T = tree
 #S = shrub
 #F = forb
 #G = graminoid
 #L = lichen
 #M = moss

~~3/5/18~~ 3/5/18 Judy P. col 3/5

3962

Cover Transect Data Sheet

Date: 07/16/16 Observer: Judy Puke Recorder: Aubrianna
 Plot: SWB 6 Transect ID: N ① Aspect: S Slope of Tape: +1°

Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist.

photo # 2273

Dist.	Top layer	Lower layers	Soil surface	Lichen ht	Dist.	Top layer	Lower layers	Soil surface	Lichen ht
1.5	dwabir	alpes	S		11.5	alpes	none	#M	
2	dwabir	none	S		12	alpes	dwabir	EL	
2.5	alpes	none	S		12.5	dwabir	none	#M	
3	whimov	none	S		13	alpes	none	EL	
3.5	none	none	reilic	1cm	13.5	alpes	dwabir	EL	
4	netwil	none	reilic	1cm	14	dwabir	alpes	EL	
4.5	none	none	S		14.5	dwabir	alpes	#M	
5	dwabir	whimov	EL		15	alpes	netwil	S	
5.5	netwil	#F	EL		15.5	alpes	none	reilic	2cm
6	dwabir	bagcon	EL		16	netwil	none	#M	
6.5	none	none	eastic	1cm	16.5	alpes	none	eastic	1cm
7	none	none	eastic	2cm	17	none	none	#M	
7.5	whimov	none	fellic	1cm	17.5	alpsue	none	#M	
8	unkseg	none	eastic	1cm	18	alpsue	none	fellic	1.5cm
8.5	none	none	#M		18.5	#F	netwil	eastic	2cm
9	bagblu	none	eastic	1cm	19	netwil	none	#M	
9.5	whimov	none	EL		19.5	alpsue	none	#M	
10	alpes	none	EL		20	alpsue	bagblu	EL	
10.5	alpes	none	EL		20.5	unkseg		EL	
11	bagblu	netwil	#M		21	alpes		EL	

Top Layer: species code or
NONE

Lower Layer: species code, L
(herbaceous litter), WL (woody
litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living
 mat (moss, lichen)
 R = rock (> 5 mm fragment)
 BR = bedrock
 S = soil
 EL = embedded litter

Unknown species codes:

#T = tree
 #S = shrub
 #F = forb
 #G = graminoid
 #L = lichen
 #M = moss

Cover Transect Data Sheet

Date: 07/16/16 Observer: Judy Putera Recorder: Aubrianna
 Plot: SWB0 Transect ID: SE(2) Aspect: W Slope of Tape: +1°
 Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist. photo # 2271

Dist.	Top layer	Lower layers			Soil surface	Lichen ht	Dist.	Top layer	Lower layers			Soil surface	Lichen ht
1.5	bogscr	none			S		11.5	none	none			reilic	0.5cm
2	none	none			eastlic	1cm	12	duabir	none			#M	
2.5	bogscr	none			#M		12.5	duabir	#G	bogscr		#M	
3	alpsue	none			#M		13	duabir	#G			#M	
3.5	alpsue	duabir			EL		13.5	duabir	#G	whimo		S	
4	none	none			#M		14	none	none			eastlic	2cm
4.5	#G	none			eastlic	3cm	14.5	duabir	#G			#M	
5	#G	none			EL		15	#G	none			#M	
5.5	none	none			#M		15.5	duabir	#G			#M	
6	none	none			eastlic	2cm	16	duabir	#G			#M	
6.5	duabir	none			#M		16.5	duabir	#G			#M	
7	duabir	#G			#M		17	duabir	#G			#M	
7.5	duabir	#G			#M		17.5	duabir	#G	bogscr		reilic	4cm
8	duabir	#G			#M		18	duabir	#G	bogscr		EL	
8.5	duabir	#G			#M		18.5	duabir	bogscr			EL	
9	#G	none			#M		19	duabir	#G			EL	
9.5	duabir	#G	bogscr		fellic	1cm	19.5	#G	none			eastlic	2cm
10	duabir	bogscr			#M		20	none	none			eastlic	0.5cm
10.5	duabir	bogscr			#M		20.5	#G	notwil			#M	
11	#G				eastlic	1cm	21	bogscr				#M	

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Soil surface (do not use litter):

Species code = base OR living mat (moss, lichen)

R = rock (> 5 mm fragment)

BR = bedrock

S = soil

EL = embedded litter

Unknown species codes:

#T = tree

#S = shrub

#F = forb

#G = graminoid

#L = lichen

#M = moss

Notes:

Site Description Form

Putera

Date: 07/17/16	Site: ADD1 - WP22	Crew: Judy & Acbrianna	
Time start: 12:42	Time stop: 13:41	Latitude: 64-05.368 * 64.08946	Longitude: 141-52.577 * 141.876283
Elevation: 5626			
Dom Trees:	Shrubs:	Graminoids:	Forbs:
Slope Position: Ridgetop <u>Saddle</u> Hillslope: Aspect: Max slope: Slope length: Shoulder Arm Toe Colluvium Piedmont Terrace Floodplain Flat plain	Slope X-section: broken by benches <u>concave</u> convex straight, even flat (less than 5°) undulating convex/concave Drainage: rapid - runoff / hillslope rapid - coarse, <u>permeable</u> impeded - low permeability saturated soil	Micro-relief type: Bedrock outcrops Mass movement Erosional Depositional Tussocks Solifluction Moss hummocks Thermokarst Burrows None Max micro-relief size: Parent Rock:	Parent Material: Bedrock Alluvium Till Colluvium Loess Lacustrine Other: Geomorphic Disturbance: Fluvial Rapid mass wasting Slow mass wasting Wind scour Other:
Evidence of frost-action: No	Evidence of fire: No	Evidence of wind: No	Wind exposure class: 3-4
Ecotype class:			
Caribou sign: <u>pellets</u> stripped vegetation, fragmented lichen, tracks, visual sign, etc. ~~WAA~~ pellets			
Soil Samples	N transect	SE transect	SW transect
Litter Type:	Soil	MOSS	Soil
Litter Depth (cm)	0	5cm	0

Notes:

Cover Transect Data Sheet

Date: 07/17/16 Observer: Judy Ruter Recorder: Acbaanna
 Plot: ADD1 Transect ID: N ① Aspect: E Slope of Tape: +2°
 Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist. photo # 2307

Dist.	Top layer	Lower layers			Soil surface	Lichen ht	Dist.	Top layer	Lower layers			Soil surface	Lichen ht
1.5	labtea	netwil			S		11.5	whimou	Simalp			S	
2	none	none			S		12	whimou	dwasco			S	
2.5	netwil	none			S		12.5	whimou	none			S	
3	bagblu	none			S		13	Simalp	none			S	
3.5	none	none			S		13.5	#F1	none			S	
4	netwil	none			S		14	altfes	whima			S	
4.5	#G	none			icelic	1cm	14.5	foumar	none			S	
5	whimou	none			S		15	Simalp	none			S	
5.5	whimou	none			S		15.5	#F1	none			S	
6	dwasco	none			S		16	#F1	#F			S	
6.5	netwil	none			S		16.5	none	none			#M	
7	none	none			S		17	netwil	none			#M	
7.5	labtea	#G			moscam		17.5	dwasco	none			S	
8	none	none			S		18	whimou	none			S	
8.5	none	none			icelic	0.4cm	18.5	netwil	none			#M	
9	whimou	none			reilic	1.7cm	19	labtea	netwil			#M	
9.5	#G	none			S		19.5	bagblu	none			reilic	0.8cm
10	#G	none			S		20	#G	none			S	
10.5	netwil	none			S		20.5	whimou	none			S	
11	none	none			S		21	none	none			S	

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living mat (moss, lichen)
 R = rock (> 5 mm fragment)
 BR = bedrock
 S = soil
 EL = embedded litter

Unknown species codes:

#T = tree
 #S = shrub
 #F = forb
 #G = graminoid
 #L = lichen
 #M = moss

icelic = Cetrar

collected F1

Cover Transect Data Sheet

Date: 07/17/16 Observer: JUDY Preter Recorder: Aubrianna
 Plot: ADD2 Transect ID: SE(2) Aspect: NE Slope of Tape: -10°

Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist.

photo 2308

Dist.	Top layer	Lower layers			Soil surface	Lichen ht	Dist.	Top layer	Lower layers			Soil surface	Lichen ht
1.5	netwil	none			S		11.5	whimov	none			S	
2	whimov	none			EL		12	whimov	none			#M	
2.5	none	none			#M		12.5	whimov	netwil			#M	
3	unkseg	whimov			S		13	netwil	none			S	
3.5	none	none			#M		13.5	netwil	none			spalic	2.5cm
4	none	none			eastlic	0.5cm	14	netwil	none			S	
4.5	none	none			eastlic	1.5cm	14.5	#G	none			EL	
5	none	none			S		15	#G	none			#M	
5.5	whimov	none			eastlic	0.5cm	15.5	netwil	whimov			S	
6	dwascos	arewil			#M		16	simalp	none			S	
6.5	whimov	none			EL		16.5	unkseg ¹	none			#M	
7	#F1	none			EL		17	unkseg ¹	dwascos			#M	
7.5	#F1	dwascos			#M		17.5	none	none			eastlic	1cm
8	dwascos	none			#M		18	unkseg	none			S	
8.5	whimov	none			S		18.5	none	none			#M	#M
9	none	none			eastlic	0.5cm	19	whimov				EL	
9.5	netwil	none			#M		19.5	none				#M	
10	whimov	netwil			S		20	unkseg ¹				#M	
10.5	none	none			#M		20.5	none				S	
11	whimov	none			#M		21	none				#M	

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living mat (moss, lichen)
 R = rock (> 5 mm fragment)
 BR = bedrock
 S = soil
 EL = embedded litter

Unknown species codes:

#T = tree
 #S = shrub
 #F = forb
 #G = graminoid
 #L = lichen
 #M = moss

#F1 collected
 unkseg 1 collected

Cover Transect Data Sheet

Date: 07/17/16 Observer: Sudy Putera Recorder: Aubrianna
 Plot: AD01 Transect ID: SW(3) Aspect: E Slope of Tape: +4°

Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist. photo # 2309

Dist.	Top layer	Lower layers			Soil surface	Lichen ht	Dist.	Top layer	Lower layers			Soil surface	Lichen ht
1.5	none	none			#M		11.5	#G	none			S	
2	netail	none			EL		12	whimov	none			#M	
2.5	#F	whimov			EL		12.5	whimov	#G			EL	
3	whimov	none			EL		13	whimov	none			eastic	1.5
3.5	whimov	none			S		13.5	#G	none			#M	
4	whimov	none			S		14	none	none			#M	
4.5	none	none			icelic	1cm	14.5	whimov	none			#M	
5	table	whimov			S		15	whimov	none			S	
5.5	whimov	none			eastic	1.5cm	15.5	none	none			icelic	0.5
6	none	none			#M		16	none	none			S	
6.5	whimov	none			EL		16.5	bogcra	none			S	
7	none	none			#M		17	bogcra	whimov			S	
7.5	none	none			eastic	1cm	17.5	alofes	whimov			S	
8	bogcra	whimov			EL		18	none	none			S	
8.5	none	none			EL		18.5	whimov	none			S	
9	none	none			#M		19	whimov	none			S	
9.5	#F1	none			S		19.5	none	none			S	
10	none	none			#M		20	none	none			S	
10.5	whimov				EL		20.5	alofes	netail			S	
11	whimov				EL		21	netail	none			S	

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living mat (moss, lichen)
 R = rock (> 5 mm fragment)
 BR = bedrock
 S = soil
 EL = embedded litter

Unknown species codes:

#T = tree
 #S = shrub
 #F = forb
 #G = graminoid
 #L = lichen
 #M = moss

Cover Transect Data Sheet

Date: 07/17/16 Observer: Sody Puckert Recorder: Arbrianna
 Plot: A005 Transect ID: N ① Aspect: NW Slope of Tape: -1.8°

Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist.

photo #2286

Dist.	Top layer	Lower layers			Soil surface	Lichen ht	Dist.	Top layer	Lower layers			Soil surface	Lichen ht
1.5	foumou	none			S		11.5	whimou	none			* icelic	0.5cm
2	whimou	none			S		12	foumou	#G			#M	
2.5	altfes	foumou			S		12.5	foumou	none			R	
3	whimou	none			#M		13	whimou	none			S	
3.5	whimou	none			#M		13.5	whimou	arcwil			S	
4	whimou	none			EL		14	none	none			eastic	1.7cm
4.5	foumou	arcwil			eastic	1cm	14.5	none	none			R	
5	whimou	altfes			S		15	none	none			R	
5.5	whimou	none			#M		15.5	none	none			R	
6	none	none			eastic	1.5cm	16	foumou	none			#M	
6.5	whimou	none			#M		16.5	whimou	none			#M	
7	whimou	none			S		17	none	none			#M	
7.5	altfes	dwasco	arcwil		S		17.5	foumou	none			S	
8	dwasco	arcwil			#M		18	none	none			eastic	2.5cm
8.5	arcwil	none			S		18.5	none	none			R	
9	whimou	none			#M		19	none	none			R	
9.5	arcwil	none			#M		19.5	none	none			S	
10	foumou	arcwil			fellic	0.5cm	20	whimou	none			S	
10.5	whimou	foumou			R		20.5	#G	none			S	
11	foumou	none			R		21	whimou	arcwil			#M	

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living mat (moss, lichen)

R = rock (> 5 mm fragment)

BR = bedrock

S = soil

EL = embedded litter

Unknown species codes:

#T = tree

#S = shrub

#F = forb

#G = graminoid

#L = lichen

#M = moss

* icelic = cetrar

Site Description Form

Putera

Date: 07/17/16	Site: ADD.5 WP-20	Crew: Judy & Aubrey	
Time start: 9:06	Time stop: 10:14	Latitude: * 62.023083 62-01.385	Longitude: * 141.498016 141-29.881
Elevation: 5834			
Dom Trees:	Shrubs:	Graminoids:	Forbs:
<u>Slope Position:</u> Ridgetop Saddle <u>Hillslope:</u> Aspect: Max slope: Slope length: Shoulder Arm Toe Colluvium Piedmont Terrace Floodplain Flat plain	<u>Slope X-section:</u> broken by benches <u>concave</u> convex straight, even flat (less than 5°) undulating convex/concave <u>Drainage:</u> rapid – runoff / hillslope rapid - coarse, permeable <u>impeded – low</u> permeability saturated soil	<u>Micro-relief type:</u> <u>Bedrock outcrops</u> Mass movement Erosional Depositional Tussocks Solifluction Moss hummocks Thermokarst Burrows None <u>Max micro-relief size:</u> <u>Parent Rock:</u>	<u>Parent Material:</u> Bedrock Alluvium Till Colluvium Loess Lacustrine Other: <u>Geomorphic Disturbance:</u> Fluvial Rapid mass wasting Slow mass wasting Wind scour Other:
Evidence of frost-action: No	Evidence of fire: No	Evidence of wind: No	Wind exposure class: 2
Ecotype class:			
Caribou sign: pellets, stripped vegetation, fragmented lichen, tracks, visual sign, etc. None			
<u>Soil Samples</u>	N transect	SE transect	SW transect
Litter Type:	None	Soil	Soil
Litter Depth (cm)	0	0	0

Notes:

Cover Transect Data Sheet

Date: 07/17/16 Observer: Judy Putera Recorder: Aubriana
 Plot: AP25 Transect ID: SE(2) Aspect: NW Slope of Tape: +13°

Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist.

photo # 2287

Dist.	Top layer	Lower layers			Soil surface	Lichen ht	Dist.	Top layer	Lower layers			Soil surface	Lichen ht
1.5	arcwil	none			eastlic	0.5	11.5	fourmou	whimou			icelic	1.2cm
2	whimou	none			reilic	1cm	12	none	none			R	
2.5	none	none			reilic	0.7	12.5	bravil	none			#M	
3	fourmou	whimou	#G		#M		13	none	none			R	
3.5	whimou	none			#M		13.5	fourmou	none			eastlic	3.3cm
4	whimou	none			icelic	0.8cm	14	fourmou	none			#M	
4.5	none	none			R		14.5	whimou	fourmou			S	
5	fourmou	none			reilic	1.5cm	15	none	none			S	
5.5	none	none			#M		15.5	fourmou	whimou			#M	
6	fourmou	none			S		16	fourmou	none			reilic	1.2cm
6.5	whimou	none			S		16.5	none	none			S	
7	arcwil	none			eastlic	2cm	17	#S	fourmou			reilic	3.9cm
7.5	#G	none			S		17.5	whimou	none			reilic	1cm
8	fourmou	none			#M		18	none	none			reilic	2.5cm
8.5	none	none			icelic	1.2cm	18.5	whimou	none			#M	
9	fourmou	whimou			#M		19	bogera				reilic	1.9cm
9.5	#G	none			S		19.5	none				R	
10	fourmou	none			R		20	none				R	
10.5	fourmou	none			eastlic	1cm	20.5	none				R	
11	none	none			#M		21	fourmou				reilic	0.8

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living mat (moss, lichen)
 R = rock (> 5 mm fragment)
 BR = bedrock
 S = soil
 EL = embedded litter

Unknown species codes:

#T = tree
 #S = shrub
 #F = forb
 #G = graminoid
 #L = lichen
 #M = moss

Cover Transect Data Sheet

Date: 07/17/16 Observer: Judy Puckera Recorder: Aubrianna
 Plot: A005 Transect ID: SW (3) Aspect: NW Slope of Tape: -35°

Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist.

photo # 2298

Dist.	Top layer	Lower layers			Soil surface	Lichen ht	Dist.	Top layer	Lower layers			Soil surface	Lichen ht
1.5	redalp	none			eastic	1.5cm	11.5	none	none			#M	
2	labtea	←small			eastic	1cm	12	foumau				#M	
2.5	foumau	none			reilic	3.7cm	12.5	#F	foumau			#M	
3	foumau	none			#M	1cm	13	foumau	none			reilic	2.5cm
3.5	foumau	none			S		13.5	foumau	none			#M	
4	whimou	none			#M		14	whimou	none			reilic	0.8cm
4.5	foumau	none			eastic	1cm	14.5	none	none			R	
5	whimou	foumau			R		15	none	none			#M	
5.5	foumau	none			#M		15.5	none	none			reilic	1.2cm
6	#G	whimou			S		16	none	none			#M	
6.5	accwil	none			S		16.5	none	none			R	
7	#F	none			S		17	none	none			#M	
7.5	foumau	none			#M		17.5	none	none			R	
8	whimou	#G			#M		18	none	none			R	
8.5	none	none			#M		18.5	none	none			R	
9	foumau				reilic	1.2cm	19	none	none			R	
9.5	foumau	whimou			S		19.5	none	none			R	
10	foumau	redalp			#M		20	none	none			R	
10.5	none	none			R		20.5	none	none			R	
11	none	none			R		21	none	none			#M	

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living
 mat (moss, lichen)
 R = rock (> 5 mm fragment)
 BR = bedrock
 S = soil
 EL = embedded litter

Unknown species codes:

#T = tree
 #S = shrub
 #F = forb
 #G = graminoid
 #L = lichen
 #M = moss

* Database req decimal degrees not
decimal minutes cvk 3/1/2018

Site Description Form

Date: 07/16/16	Site: ADD12 - WP15	Crew: Judy & Aubrianna	
Time start: 10:00	Time stop: 11:08	Latitude: 61-53.443 * 61.890716	Longitude: * 141.826615 141-49.597
Elevation: 5876			
Dom Trees:	Shrubs:	Graminoids:	Forbs:
Slope Position: <u>Ridgetop</u> Saddle Hillslope: Aspect: Max slope: Slope length: Shoulder Arm Toe Colluvium Piedmont Terrace Floodplain Flat plain	Slope X-section: broken by benches concave convex straight, even <u>flat (less than 5°)</u> undulating convex/concave Drainage: rapid – runoff / hillslope rapid - coarse, permeable impeded – low permeability saturated soil good drainage	Micro-relief type: <u>Bedrock outcrops</u> Mass movement Erosional Depositional Tussocks Solifluction Moss hummocks Thermokarst Burrows None Max micro-relief size: Parent Rock:	Parent Material: Bedrock Alluvium Till Colluvium Loess Lacustrine Other: Geomorphic Disturbance: Fluvial Rapid mass wasting Slow mass wasting Wind scour Other:
Evidence of frost-action: No	Evidence of fire: No	Evidence of wind: No	Wind exposure class: 4
Ecotype class:			
Caribou sign: pellets, stripped vegetation, fragmented lichen, tracks, visual sign, etc. pellets spotted at SW 10.5m & at 0m			
Soil Samples	N transect	SE transect	SW transect
Litter Type:	none (soil)	none	none
Litter Depth (cm)	0	0	0

Notes:

Cover Transect Data Sheet

Date: 07/16/16 Observer: Judy Recorder: Aubrianna
 Plot: ADD12 Transect ID: N ① Aspect: S Slope of Tape: +2°

Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist.

photo #2262

Dist.	Top layer	Lower layers			Soil surface	Lichen ht	Dist.	Top layer	Lower layers			Soil surface	Lichen ht
1.5	none	none			icelic	0.5cm	11.5	whimou	none			icelic	1.3cm
2	arccurk	none			S		12	whimou	none			S	
2.5	whimou	none			S		12.5	whimou	none			S	
3	Simalp	none			S		13	whimou	none			S	
3.5	none	none			S		13.5	whimou	none			spalic	1cm
4	whimou	none			icelic	1cm	14	none	none			S	
4.5	Simalp	none			S		14.5	whimou	none			S	
5	none	none			S		15	whimou	none			icelic	1.2cm
5.5	none	none			R		15.5	whimou	none			S	
6	whimou	none			S		16	none	none			S	
6.5	whimou	none			S		16.5	whimou	none			S	
7	none	none			R		17	whimou	none			S	
7.5	Simalp	whimou			icelic	1.5cm	17.5	whimou	none			S	
8	none	none			R		18	none	none			S	
8.5	none	none			#M		18.5	Simalp	none			S	
9	whimou	none			S		19	whimou	none			R	
9.5	whimou	none			S		19.5	none	none			R	
10	whimou	none			S		20	whimou				spalic	3cm
10.5	none	none			R		20.5	whimou				S	
11	whimou	none			S		21	whimou				icelic	1cm

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living mat (moss, lichen)
 R = rock (> 5 mm fragment)
 BR = bedrock
 S = soil
 EL = embedded litter

Unknown species codes:

#T = tree
 #S = shrub
 #F = forb
 #G = graminoid
 #L = lichen
 #M = moss

spalic = spaghetti lichen

Cover Transect Data Sheet

Date: 07/16/16 Observer: Judy Recorder: Aubrianna
 Plot: RDD 12 Transect ID: SE (2) Aspect: SW Slope of Tape: -1°

Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist.

photo #2263

Dist.	Top layer	Lower layers			Soil surface	Lichen ht	Dist.	Top layer	Lower layers			Soil surface	Lichen ht
1.5	whimou	none			S		11.5	#F	none			#M	
2	none	none			icelic	2.1cm	12	#G*	none			S	
2.5	whimou	none			S		12.5	none	none			#M	
3	#G*	none			S	S	13	whimou	none			icelic	2cm
3.5	#G*	whimou			S		13.5	simalp	none			S	
4	none	none			S		14	whimou	none			R	
4.5	none	none			R		14.5	none	none			icelic	1cm
5	whimou	none			S		15	whimou	none			#M	
5.5	#G*	none			S		15.5	whimou	none			S	
6	none	none			R		16	simalp	whimou			S	
6.5	none	none			S		16.5	*alpes	none			S	
7	whimou	none			S		17	none	none			#M	
7.5	accwil	none			S		17.5	whimou	none			S	
8	none	none			S		18	whimou	none			icelic	2cm
8.5	simalp	none			R		18.5	none	none			R	
9	whimou	none			R		19	none	none			R	
9.5	none	none			S		19.5	none	none			R	
10	whimou	none			spalic	2cm	20	none	none			R	
10.5	accwil	none			S		20.5	none	none			S	
11	whimou				S		21	whimou	none			S	

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

CVK 3/5
~~AK 3/5~~
~~AK 3/5~~

Soil surface (do not use litter):

Species code = base OR living
 mat (moss, lichen)
 R = rock (> 5 mm fragment)
 BR = bedrock
 S = soil
 EL = embedded litter

* dwasco
 * alpine fescue = alpes

Unknown species codes:

#T = tree
 #S = shrub
 #F = forb
 #G = graminoid
 #L = lichen
 #M = moss

* spalic = Spaghetti lichen

*icelic = cetrar

Cover Transect Data Sheet

Date: 7/16/16 Observer: Judy Recorder: Aubrianna
 Plot: APP12 Transect ID: SW(3) Aspect: SW Slope of Tape: -10°

Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist.

photo 2264

Dist.	Top layer	Lower layers			Soil surface	Lichen ht	Dist.	Top layer	Lower layers			Soil surface	Lichen ht
1.5	nore	nore			R		11.5	whimou	nore			icelic	2cm
2	#F	nore			R		12	nore	nore			S	
2.5	nore	nore			R		12.5	simalp	nore			S	
3	nore	nore			cetrar icelic	0.3m	13	nore	nore			spalic	0.2cm
3.5	whimou	nore			S		13.5	nore	nore			R	
4	nore	nore			icelic	1cm	14	whimou	nore			S	
4.5	nore	nore			icelic	0.5cm	14.5	dwasco	whimou			S	
5	whimou	nore			S		15	nore	nore			R	
5.5	nore	nore			icelic	0.2cm	15.5	nore	nore			R	
6	whimou	nore			S		16	nore	nore			R	
6.5	#F	whimou			S		16.5	whimou	nore			S	
7	whimou	nore			S		17	nore	nore			spalic	0.2cm
7.5	nore	nore			spalic	0.2cm	17.5	whimou	nore			icelic	2.5cm
8	#G*	whimou			S		18	whimou	nore			S	
8.5	whimou	nore			icelic	1cm	18.5	simalp	nore			S	
9	whimou	nore			spalic	0.2cm	19	whimou	nore			S	
9.5	whimou	nore			S		19.5	nore	nore			R	
10	whimou	nore			icelic	1cm	20	nore	nore			R	
10.5	arcwil	whimou			moscam		20.5	whimou	nore			S	
11	whimou				S		21	nore				icelic	0.5cm

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living mat (moss, lichen)

R = rock (> 5 mm fragment)

BR = bedrock

S = soil

EL = embedded litter

Unknown species codes:

#T = tree

#S = shrub

#F = forb

#G = graminoid

#L = lichen

#M = moss

? dwasco *

Site Description Form

Date: 07/17/16	Site: SWB8 - WP21	Crew: Judy & Aubrianna	
Time start: 10:52	Time stop: 12:07	Latitude: 62-01.179 # 62.01965	Longitude: # 141.33415 141-20.049
Elevation: 4291			
Dom Trees:	Shrubs:	Graminoids:	Forbs:
<u>Slope Position:</u> Ridgetop Saddle <u>Hillslope:</u> Aspect: Max slope: Slope length: Shoulder Arm Toe Colluvium Piedmont Terrace Floodplain Flat plain	<u>Slope X-section:</u> broken by benches concave convex straight, even flat (less than 5°) undulating <u>convex/concave</u> <u>Drainage:</u> rapid – runoff / hillslope rapid - coarse, permeable <u>impeded – low</u> permeability saturated soil	<u>Micro-relief type:</u> Bedrock outcrops Mass movement Erosional Depositional Tussocks Solifluction <u>Moss hummocks</u> Thermokarst Burrows None <u>Max micro-relief size:</u> <u>Parent Rock:</u>	<u>Parent Material:</u> Bedrock Alluvium Till Colluvium Loess Lacustrine Other: <u>Geomorphic Disturbance:</u> Fluvial Rapid mass wasting Slow mass wasting Wind scour Other:
Evidence of frost-action: No	Evidence of fire: No	Evidence of wind: No	Wind exposure class: 1
Ecotype class:			
Caribou sign: pellets, stripped vegetation, fragmented lichen, tracks, visual sign, etc. None			
<u>Soil Samples</u>	N transect	SE transect	SW transect
Litter Type:	EL	EL	#M
Litter Depth (cm)	3cm	7cm	8cm

Notes:

Cover Transect Data Sheet

Date: 07/17/16 Observer: Sudy Recorder: Aubrianna
 Plot: SWB8 Transect ID: N ① Aspect: NE Slope of Tape: -13°

Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist. photo # 2304

Dist.	Top layer	Lower layers			Soil surface	Lichen ht	Dist.	Top layer	Lower layers			Soil surface	Lichen ht
1.5	dwabir	bogcra			#M		11.5	grawil	#F			#M	
2	dwabir	bidseg			#M		12	dwabir	blacro			#M	
2.5	bidseg	bogcra			#M		12.5	grawil	blacro			#M	
3	labtea	none			reilic	2.5cm	13	grawil				#M	
3.5	grawil	#F	bogcra		#M		13.5	dwabir	bogcra			#M	
4	grawil	dwabir	bogcra		fellic	1.6cm	14	dwabir	bogcra			#M	
4.5	dwabir	#G			#M		14.5	labtea	bogcra			#M	
5	dwabir	bogcra			#M		15	grawil	blacro			#M	
5.5	dwabir	bogcra			#M		15.5	grawil	dwabir	blacro		#M	
6	grawil	dwabir			#M		16	dwabir	blacro			#M	
6.5	none	none			#M		16.5	dwabir	#G			#M	
7	grawil	none			#M		17	dwabir	#G			#M	
7.5	grawil	none			#M		17.5	blacro	none			#M	
8	dwabir	bidseg			#M		18	dwabir	bogcra			#M	
8.5	bidseg	none			#M		18.5	dwabir	none			#M	
9	dwabir	bogcra			#M		19	dwabir	#G			#M	
9.5	dwabir	none			#M		19.5	bogcra	none			#M	
10	dwabir	labtea	#G		#M		20	none	none			#M	
10.5	dwabir	blacro	bogcra		#M		20.5	grawil	none			#M	
11	grawil	labtea	blacro		#M		21	none	none			reilic	2cm

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living mat (moss, lichen)
 R = rock (> 5 mm fragment)
 BR = bedrock
 S = soil
 EL = embedded litter

Unknown species codes:

#T = tree
 #S = shrub
 #F = forb
 #G = graminoid
 #L = lichen
 #M = moss

Cover Transect Data Sheet

Date: 07/17/16 Observer: Sudy Recorder: Aubrianna
 Plot: SWB8 Transect ID: SE (2) Aspect: NE Slope of Tape: -6°

Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist.

photo # 2305

Dist.	Top layer	Lower layers			Soil surface	Lichen ht	Dist.	Top layer	Lower layers			Soil surface	Lichen ht
1.5	ricwil	dwabir	#G		#M		11.5	dwabir	#G			EL	
2	dwabir	none			#M		12	dwabir	#G			S	
2.5	blacro	none			reilic	2cm	12.5	none	none			#M	
3	blacro	none			icelc	3.5cm	13	unkwil	labe	#G		#M	
3.5	dwabir	#G	bogcr		#M		13.5	dwabir	none			#M	
4	dwabir	#G	bogcr		#M		14	dwabir	#G	labea		fellic	2cm
4.5	bogcr	none			#M		14.5	blacro	none			#M	
5	bidseg	dwabir			EL		15	dwabir	blacro			#M	
5.5	dwabir	bidseg			EL		15.5	dwabir	none			#M	
6	labea	none			reilic	2.3cm	16	ricwil	labea			#M	
6.5	none	none			fellic	1.5cm	16.5	dwabir	blacro	bogcr		#M	
7	dwabir	bogcr			reilic	3cm	17	labea	ricwil	blacro	bogcr	#M	
7.5	dwabir	#F	labea		#M		17.5	bogcr	none			reilic	5.5cm
8	dwabir	#G			#M		18	labea	#G			#M	
8.5	dwabir	bogcr			#M		18.5	dwabir	bogcr			#M	
9	dwabir	none			#M		19	bogcr	none			fellic	2cm
9.5	none	none			reilic	3.5cm	19.5	bogcr	none			#M	
10	labea	blacro			#M		20	#G				reilic	1.5cm
10.5	dwabir	none			#M		20.5	bogbl				reilic	2cm
11	dwabir	blacro			#M		21	blacro				reilic	3cm

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living mat (moss, lichen)
 R = rock (> 5 mm fragment)
 BR = bedrock
 S = soil
 EL = embedded litter

Unknown species codes:

#T = tree
 #S = shrub
 #F = forb
 #G = graminoid
 #L = lichen
 #M = moss

Cover Transect Data Sheet

Date: 07/17/16 Observer: SUOY Recorder: Achrianna
 Plot: SUBS Transect ID: (3) SW Aspect: NE Slope of Tape: +17°
 Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist. photo # 2306

Dist.	Top layer	Lower layers			Soil surface	Lichen ht	Dist.	Top layer	Lower layers			Soil surface	Lichen ht
1.5	grawil	bogcra			#M		11.5	blacro	nore			#M	
2	labtea	blacro			#M		12	bogcra	nore			#M	
2.5	grawil	bogcra			#M		12.5	#F	blacro			#M	
3	grawil	labtea			#M		13	#G	blacro			#M	
3.5	grawil	labtea			#M		13.5	blacro	nore			#M	
4	labtea	bogcra			#M		14	dwabir	nore			#M	
4.5	dwabir	nore			reilic	2.2cm	14.5	dwabir	nore			#M	
5	dwabir	bogcra	blacro		#M		15	dwabir	nore			#M	
5.5	bidseg	bogcra			#M		15.5	bidseg	bogcra			#M	
6	nore	nore			#M		16	dwabir	nore			#M	
6.5	#G	nore			#M		16.5	nore	nore			#M	
7	#G	nore			#M		17	labtea	nore			#M	
7.5	nore	nore			reilic	2cm	17.5	labtea	nore			reilic	3.4cm
8	dwabir	#F			#M		18	dwabir	nore			reilic	3.5cm
8.5	labtea	nore			#M		18.5	dwabir	bogcra			#M	
9	grawil	bogcra			#M		19	dwabir	nore			#M	
9.5	bidseg	nore			reilic	4.2cm	19.5	grawil	bogcra			#M	
10	labtea	nore			#M		20	grawil	labtea			#M	
10.5	nore	nore			#M		20.5	dwabir	#G			#M	
11	dwabir	nore			#M		21	#G	dwabir			#M	

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living mat (moss, lichen)
 R = rock (> 5 mm fragment)
 BR = bedrock
 S = soil
 EL = embedded litter

Unknown species codes:

#T = tree
 #S = shrub
 #F = forb
 #G = graminoid
 #L = lichen
 #M = moss

Site Description Form

Date: 07/16/16	Site: SWB15	Crew: Judy Sabriana	
Time start: 15:46	Time stop: 17:00	Latitude: 61-59.877 61.99795	Longitude: *141.71205 141-42.723
Elevation: 4950			
Dom Trees:	Shrubs:	Graminoids:	Forbs:
Slope Position: Ridgetop <u>Saddle</u> Hillslope: Aspect: Max slope: Slope length: Shoulder Arm Toe Colluvium Piedmont Terrace Floodplain Flat plain	Slope X-section: broken by benches <u>concave</u> convex straight, even flat (less than 5°) undulating convex/concave Drainage: rapid – runoff / hillslope rapid - coarse, permeable impeded – <u>low</u> permeability <u>saturated soil</u>	Micro-relief type: Bedrock outcrops Mass movement Erosional Depositional Tussocks Solifluction <u>Moss hummocks</u> Thermokarst Burrows None Max micro-relief size: Parent Rock:	Parent Material: Bedrock Alluvium Till Colluvium Loess Lacustrine Other: Geomorphic Disturbance: Fluvial Rapid mass wasting Slow mass wasting Wind scour Other:
Evidence of frost-action: No	Evidence of fire: No	Evidence of wind: No	Wind exposure class: 3
Ecotype class:			
Caribou sign: pellets, stripped vegetation, fragmented lichen, tracks, visual sign, etc. None			
Soil Samples	N transect	SE transect	SW transect
Litter Type:	moSS	EL	moSS
Litter Depth (cm)	16cm	8cm	15cm

Notes:

Cover Transect Data Sheet

Date: 07/16/16 Observer: Judy Recorder: Aubriana
 Plot: SWB15 Transect ID: N① Aspect: NE Slope of Tape: -2°

Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist.

photo # 2278

Dist.	Top layer	Lower layers			Soil surface	Lichen ht	Dist.	Top layer	Lower layers			Soil surface	Lichen ht
1.5	altfes	netwil			#M		11.5	ricwil	netwil			#M	
2	none	none			#M		12	watseg	netwil			#M	
2.5	#G	netwil			#M		12.5	watseg	netwil			#M	
3	#G	none			#M		13	ricwil	watseg			#M	
3.5	watseg	netwil			#M		13.5	none	none			#M	
4	watseg	netwil			#M		14	watseg	none			#M	
4.5	watseg	netwil			#M		14.5	none	none			#M	
5	ricwil	watseg			#M		15	ricwil	netwil			#M	
5.5	ricwil	none			#M		15.5	ricwil	netwil			#M	
6	ricwil	none			#M		16	watseg	none			#M	
6.5	ricwil	none			#M		16.5	watseg	none			#M	
7	watseg	none			#M		17	none	none			#M	
7.5	alpswe	netwil			#M		17.5	watseg	netwil			#M	
8	#G	netwil			#M		18	ricwil	netwil			#M	
8.5	netwil	none			#M		18.5	netwil				#M	
9	ricwil	netwil			#M		19	watseg	netwil			fellic	0.5cm
9.5	none	none			#M		19.5	watseg	netwil			fellic	1cm
10	watseg	monksh			#M		20	watseg	netwil			#M	
10.5	netwil	none			#M		20.5	watseg	none			#M	
11	watseg	netwil			#M		21	ricwil	netwil			#M	

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living mat (moss, lichen)
 R = rock (> 5 mm fragment)
 BR = bedrock
 S = soil
 EL = embedded litter

Unknown species codes:

#T = tree
 #S = shrub
 #F = forb
 #G = graminoid
 #L = lichen
 #M = moss

Cover Transect Data Sheet

Date: 07/16/16 Observer: Judy Recorder: Abrianna
 Plot: SUB 15 Transect ID: SE (2) Aspect: NE Slope of Tape: -6°

Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist.

photo # 2279

Dist.	Top layer	Lower layers			Soil surface	Lichen ht	Dist.	Top layer	Lower layers			Soil surface	Lichen ht
1.5	netwil	none			#M		11.5	netwil	none			#M	
2	watseg	none			#M		12	netwil	none			#M	
2.5	watseg	netwil			#M		12.5	ricwil	watseg			#M	
3	watseg	none			#M		13	ricwil	none			#M	
3.5	watseg	netwil			#M		13.5	ricwil	none			#M	
4	watseg	netwil			#M		14	ricwil	netwil			#M	
4.5	watseg	none			#M		14.5	ricwil	netwil			#M	
5	watseg	none			EL		15	ricwil	netwil			#M	
5.5	none	none			#M		15.5	ricwil	#F			#M	
6	watseg	netwil			#M		16	netwil	none			#M	
6.5	none	none			#M		16.5	netwil	none			#M	
7	none	none			#M		17	netwil	none			#M	
7.5	gHes	netwil			EL		17.5	ricwil	none			#M	
8	#F	none			EL		18	none	none			#M	
8.5	none	none			EL		18.5	watseg	none			#M	
9	none	none			#M		19	watseg	none			#M	
9.5	netwil	none			#M		19.5	watseg	netwil			#M	
10	watseg	none			#M		20	watseg	none			#M	
10.5	watseg	none			#M		20.5	netwil	none			#M	
11	none	none			#M		21	watseg	none			EL	

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living mat (moss, lichen)
 R = rock (> 5 mm fragment)
 BR = bedrock
 S = soil
 EL = embedded litter

Unknown species codes:

#T = tree
 #S = shrub
 #F = forb
 #G = graminoid
 #L = lichen
 #M = moss

Cover Transect Data Sheet

Date: 07/16/16 Observer: SWV Recorder: Aubriana
 Plot: SWB15 Transect ID: SW(3) Aspect: NE Slope of Tape: +10°

Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist.

Dist.	Top layer	Lower layers			Soil surface	Lichen ht	Dist.	Top layer	Lower layers			Soil surface	Lichen ht
1.5	ricwil	none			#M		11.5	#F	dwasco			#M	
2	watseg	netwil			#M		12	ricwil	dwasco			EL	
2.5	watseg	netwil			#M		12.5	talbac	netwil			#M	
3	altfes	netwil			#M		13	netwil	none			#M	
3.5	#F	none			#M		13.5	watseg	none			#M	
4	netwil	none			#M		14	watseg	whimor			EL	
4.5	watseg	none			#M		14.5	netwil	none			#M	
5	none	none			#M		15	watseg	none			#M	
5.5	watseg	none			#M		15.5	netwil	none			#M	
6	watseg	none			EL		16	watseg	netwil			EL	
6.5	watseg	none			#M		16.5	ricwil	none			EL	
7	watseg	none			#M		17	none	none			#M	
7.5	watseg	netwil			#M		17.5	watseg	none			#M	
8	altfes	whimor			EL		18	netwil	none			#M	
8.5	watseg	none			#M		18.5	altfes	none			#M	
9	watseg	none			EL		19	watseg	none			EL	
9.5	netwil	none			#M		19.5	none	none			fellic	0.5cm
10	watseg	none			#M		20	watseg	none			#M	
10.5	ricwil	watseg			#M		20.5	watseg	none			EL	
11	watseg	none			#M		21	#F	netwil			#M	

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living
 mat (moss, lichen)
 R = rock (> 5 mm fragment)
 BR = bedrock
 S = soil
 EL = embedded litter

Unknown species codes:

#T = tree
 #S = shrub
 #F = forb
 #G = graminoid
 #L = lichen
 #M = moss

* database req. decimal degrees 3/6/18

Site Description Form

Date: 07/15/16		Site: ASD3 WP12		Crew: Judy & Aubrianna	
Time start: 11:21		Time stop: 1:22		Latitude: 61°-45.083 *61.751383	
Elevation: 4305				Longitude: 141°-03.257 *141.054283	
Dom Trees: L		Shrubs:		Graminoids:	
Forbs:					
<u>Slope Position:</u> Ridgetop <u>Saddle</u> Hillslope: Aspect: Max slope: Slope length: Shoulder Arm Toe Colluvium Piedmont Terrace Floodplain Flat plain		<u>Slope X-section:</u> broken by benches <u>concave</u> convex straight, even flat (less than 5°) undulating convex/concave <u>Drainage:</u> rapid – runoff / hillslope rapid - coarse, <u>permeable</u> <u>impeded – low</u> permeability saturated soil		<u>Micro-relief type:</u> Bedrock outcrops Mass movement Erosional Depositional Tussocks <u>Solifluction</u> <u>Moss hummocks</u> Thermokarst Burrows None <u>Max micro-relief size:</u> <u>Parent Rock:</u>	
<u>Parent Material:</u> Bedrock Alluvium Till Colluvium Loess Lacustrine Other:		<u>Geomorphic Disturbance:</u> Fluvial Rapid mass wasting Slow mass wasting Wind scour Other:			
Evidence of frost-action:		Evidence of fire: No		Evidence of wind: N	
				Wind exposure class:	
Ecotype class:					
Caribou sign: pellets, stripped vegetation, fragmented lichen, tracks, visual sign, etc.					
<u>Soil Samples</u>		N transect		SE transect	
Litter Type:		MOSS		MOSS	
Litter Depth (cm)		9cm		15.5cm	
				EL	
				10cm	

Notes:

Cover Transect Data Sheet

Date: 07/15/16 Observer: Sudy Recorder: Aubrianna
 Plot: ASD 3 Transect ID: N ① Aspect: N Slope of Tape: +5°

Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist.

photo #2251

Dist.	Top layer	Lower layers	Soil surface	Lichen ht	Dist.	Top layer	Lower layers	Soil surface	Lichen ht
1.5	dwabir	none	#M		11.5	labtea	dwabir	#M	
2	dwabir	labtea	#M		12	bidseg	none	#M	
2.5	bogblu	blacro	#M		12.5	dwabir	none	#M	
3	bidseg	blacro	#M		13	dwabir	none	#M	
3.5	dwabir	bogblu	#M		13.5	teawil	none	#M	
4	dwabir	bidseg	EL		14	bidseg	bogblu	#M	
4.5	dwabir	none	#M		14.5	bogblu	bogscra dwabir	EL	
5	bogscra	none	#M		15	dwabir	labtea	#M	
5.5	bidseg	bogscra	EL		15.5	bidseg	none	EL	
6	bogblu	none	#M		16	bidseg	netwil	#M	
6.5	none	none	#M		16.5	bidseg	bogblu	EL	
7	dwabir	none	#M		17	labtea	bidseg bogblu	EL	
7.5	dwabir	bidseg bogscra	#M		17.5	bogscra	none	EL	
8	dwabir	coatic	coatic 3cm		18	bogblu	none	EL	
8.5	dwabir	bogscra	#M		18.5	bidseg	bogblu bogscra	EL	
9	dwabir	bidseg	#M		19	dwabir	bidseg bogblu	EL	
9.5	bidseg	bogscra	felic 4cm		19.5	dwabir	bogscra	EL	
10	bidseg	bogscra	EL		20	bidseg	bogscra	EL	
10.5	bidseg	dwabir	#M		20.5	bidseg	none	#M	
11	labtea	bidseg	felic 4cm		21	arclup	bogblu bogscra	EL	

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living
 mat (moss, lichen)
 R = rock (> 5 mm fragment)
 BR = bedrock
 S = soil
 EL = embedded litter

Unknown species codes:

#T = tree
 #S = shrub
 #F = forb
 #G = graminoid
 #L = lichen-felic
 #M = moss

cvk 3/6/16
 entered as bidseg

Cover Transect Data Sheet

Date: 07/15/16 Observer: Pytera Recorder: _____
 Plot: ASD 3 Transect ID: 25/16/15 Aspect: SE Slope of Tape: -20°

Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist.

Dist.	Top layer	Lower layers			Soil surface	Lichen ht	Dist.	Top layer	Lower layers			Soil surface	Lichen ht
1.5	dwabir	bidseg			EL		11.5	bogcra				reilic	2cm
2	labtea	bogcra			#M		12	dwabir	blacso			EL	
2.5	bidseg	bogcra			#M		12.5	dwabir	bogdu			#M	
3	labtea	bogcra			#M		13	dwabir	bidseg	blacso		EL	
3.5	dwabir	bidseg	bogcra		#M		13.5	bidseg	none			reilic	1cm
4	cina	dwabir	bidseg		EL		14	dwabir	blacso			#M	
4.5	bidseg	netwil			#M		14.5		none			#M	
5	dwabir	labtea			EL		15	dwabir	bidseg			EL	
5.5	labtea	bidseg			#M		15.5	bidseg	netwil			#M	
6	teawil				EL		16	dwabir	none			EL	
6.5	teawil	bidseg			#M		16.5	dwabir	blacso	bidseg		EL	
7	teawil	dwabir			#M		17	dwabir	bogcra			#M	
7.5	bidseg	none			EL		17.5	dwabir	blacso			reilic	2.5
8	dwabir	bogdu			EL		18	labtea	bogcra			EL	
8.5	dwabir	none			#M		18.5	dwabir	labtea	bidseg		#M	
9	dwabir	bidseg			EL		19	dwabir	bidseg			#M	
9.5	dwabir	#G			EL		19.5	labtea	none			reilic	2.0cm
10	dwabir	labtea			#M		20	teawil	dwabir			#M	
10.5	dwabir	labtea			#M		20.5	teawil	dwabir	labtea		EL	
11	teawil	labtea	bogcra		EL		21	teawil	bogdu			EL	

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living mat (moss, lichen)
 R = rock (> 5 mm fragment)
 BR = bedrock
 S = soil
 EL = embedded litter

Unknown species codes:

#T = tree
 #S = shrub
 #F = forb
 #G = graminoid
 #L = lichen
 #M = moss

Cover Transect Data Sheet

Date: 07/15/16

Observer: Judy Riter

Recorder: Abrianna

Plot: ASD3

Transect ID: SW? CVK 3/6/18

Aspect: 3

Slope of Tape: -6°

Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist.

photo 2255

Dist.	Top layer	Lower layers				Soil surface	Lichen ht	Dist.	Top layer	Lower layers				Soil surface	Lichen ht
1.5	dwabir	boagca				EL		11.5	dwabir	none				#M	
2	dwabir	none				EL		12	dwabir	boagca				#M	
2.5	bidseg	boagca				EL		12.5	dwabir	none				#M	
3	l. none	boagca				#M		13	dwabir	bidseg				#M	
3.5	labtea	bidseg	dwabir			#M		13.5	dwabir	bidseg				fellic	2.5m
4	bidseg	none				#M		14	dwabir	none				#M	
4.5	bidseg	none				EL		14.5	none	none				#M	
5	boaghu	bidseg				#M		15	bidseg	none				EL	
5.5	dwabir	none				#M		15.5	dwabir	none				reilic	1.5m
6	dwabir	bidseg				EL		16	dwabir	bidseg				fellic	1.5m
6.5	dwabir	labtea	boagca			#M		16.5	dwabir	none				EL	
7	dwabir	bidseg				EL		17	dwabir	blacro				#M	
7.5	dwabir	bidseg	boaghu	boagca		#M		17.5	#G	none				EL	
8	dwabir	bidseg				EL		18	teawil	blacro				EL	
8.5	dwabir	none				EL		18.5	blacro	none				#M	
9	dwabir	none				#M		19	#G	boagca				EL	
9.5	dwabir	none				reilic	1.5m	19.5	labtea	none				EL	
10	bidseg	boagca				EL		20	dwabir	none				#M	
10.5	bidseg	none				EL		20.5	dwabir	none				#M	
11	dwabir	netwil				EL		21	dwabir	netwil				#M	

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living

mat (moss, lichen)
R = rock (> 5 mm fragment)
BR = bedrock
S = soil
EL = embedded litter

Unknown species codes:

#T = tree
#S = shrub
#F = forb
#G = graminoid
#L = lichen
#M = moss

* Database requires decimal degrees. cvk 3/1/2018

Site Description Form

Date: 07/15/16	Site: ADD15		Crew: Judy & Aubrianna
Time start: 16:30	Time stop: 17:22	Latitude: 61-56.241 * 61.93735	Longitude: 141-35.953 * 141.5992168
Elevation: 6467			
Dom Trees:	Shrubs:	Graminoids:	Forbs:
Slope Position: Ridgetop Saddle Hillslope: Aspect: Max slope: Slope length: Shoulder Arm Toe Colluvium Piedmont Terrace Floodplain <u>Flat plain</u>	Slope X-section: broken by benches concave convex straight, even <u>flat (less than 5°)</u> undulating convex/concave Drainage: rapid – runoff / hillslope rapid - coarse, permeable <u>impeded – low</u> permeability <u>saturated soil</u>	Micro-relief type: <u>Bedrock outcrops</u> Mass movement Erosional Depositional Tussocks Solifluction Moss hummocks Thermokarst Burrows None Max micro-relief size: Parent Rock:	Parent Material: Bedrock Alluvium Till Colluvium Loess Lacustrine Other: Geomorphic Disturbance: Fluvial Rapid mass wasting Slow mass wasting Wind scour Other:
Evidence of frost-action: No	Evidence of fire: NO	Evidence of wind: Somewhat	Wind exposure class: 3
Ecotype class:			
Caribou sign: pellets, stripped vegetation, fragmented lichen, tracks, visual sign, etc. pellets 6m SE pellets 21m SE			
Soil Samples	N transect	SE transect	SW transect
Litter Type:	none	MOSS	none
Litter Depth (cm)	0	0.5cm	0

Notes:

* no R option, enter as 'none' by CUK 3/1/2018
see your 6.5 v.1.5 part 1.5

Cover Transect Data Sheet

Date: 07/15/16 Observer: SUDY Recorder: Aubrianna
Plot: ADD15 Transect ID: N(1) Aspect: _____ Slope of Tape: +5°

Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist.

photo 2260

Dist.	Top layer	Lower layers			Soil surface	Lichen ht	Dist.	Top layer	Lower layers			Soil surface	Lichen ht
1.5	R ^{*none}	none			R		11.5	velsax	none			#M	
2	none	none			#M		12	arcwil	none			S	
2.5	R ^{*none}	none			R		12.5	R ^{none}	none			R	
3	none	none			#M		13	none	none			#M	
3.5	none	none			#M		13.5	arcwil	none			#M	
4	none	none			#M		14	arcwil	none			#M	
4.5	arcwil	none			#M		14.5	none	none			reilic	1.5cm
5	arcwil	none			#M		15	R ^{none}	none			R	
5.5	R ^{none}	none			R		15.5	bidseg	velsax			velsax	
6	bidseg	none			#M		16	R ^{none}	none			R	
6.5	none	none			R		16.5	#L [*]	← none brown			#L	4.5cm #L
7	none	none			R		17	R ^{none}	none			R	
7.5	arcwil	none			#M		17.5	none	none			#M	
8	none	none			#M		18	none	none			#M	
8.5	velsax	none			#M		18.5	none	none			#M	
9	none	none			#M		19	none	none			#M	
9.5	none	none			#M		19.5	none	none			#M	
10	arcwil	none			#M		20	none	none			#M	
10.5	R	none			R		20.5	arcwil				#M	
11	R	none			R		21	R				R	

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living mat (moss, lichen)
R = rock (> 5 mm fragment)
BR = bedrock
S = soil
EL = embedded litter

Unknown species codes:

#T = tree
#S = shrub
#F = forb
#G = graminoid
#L = lichen
#M = moss

* lichen collected

* big sed entered as bigsed CUK 3/1/2018

Cover Transect Data Sheet

Date: 07/15/16 Observer: Judy Recorder: Aubrianna
 Plot: ADD15 Transect ID: SE ② Aspect: _____ Slope of Tape: +1°
 Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist. photo 2259

Dist.	Top layer	Lower layers			Soil surface	Lichen ht	Dist.	Top layer	Lower layers			Soil surface	Lichen ht
1.5	bidseg	none			#M		11.5	none	none			R	
2	arcwil	none			#M		12	none	none			#M	
2.5	bidseg	none			#M		12.5	none	none			#M	
3	none	none			#M		13	none	none			R	
3.5	bidseg	none			#M		13.5	none	none			R	
4	bidseg	none			#M		14	none	none			R	
4.5	none	none			#M		14.5	none	none			#M	
5	arcwil	none			#M		15	arcwil	none			#M	
5.5	none	none			#M		15.5	arcwil	none			#M	
6	none	none			#M		16	bidseg	arcwil			#M	
6.5	none	none			#M		16.5	bidseg	none			#M	
7	none	none			eastlic	5cm	17	none	none			R	
7.5	arcwil	none			#M		17.5	bidseg	none			#M	
8	none	none			#M		18	arcwil	none			#M	
8.5	none	none			#M		18.5	bidseg	none			S	
9	bidseg	none			#M		19	bidseg	none			#M	
9.5	none	none			R		19.5	none	none			#M	
10	none	none			R		20	whimov	none			#M	
10.5	bidseg	none			R		20.5	none	none			R	
11	none	none			finlic	2cm	21	arcwil	none			#M	

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living mat (moss, lichen)
 R = rock (> 5 mm fragment)
 BR = bedrock
 S = soil
 EL = embedded litter

Unknown species codes:

#T = tree
 #S = shrub
 #F = forb
 #G = graminoid
 #L = lichen
 #M = moss

Cover Transect Data Sheet

Date: 07/15/16 Observer: Judy Recorder: Aubrianna
 Plot: ADD 15 Transect ID: SW ③ Aspect: Slope of Tape: -4°

Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist. photo 2261

Dist.	Top layer	Lower layers			Soil surface	Lichen ht	Dist.	Top layer	Lower layers			Soil surface	Lichen ht
1.5	bidseg	none			#M		11.5	S*	none			S	
2	arcwil	none			#M		12	bidseg	none			#M	
2.5	bidseg	arcwil			#M		12.5	bidseg	none			#M	
3	#F	none			#M		13	arcwil	none			#M	
3.5	S _{not}	none			S		13.5	bidseg	none			S	
4	arcwil	none			#M		14	arcwil	none			#M	
4.5	arcwil	none			#M		14.5	none	none			R	
5	arcwil	none			#M		15	arcwil	none			#M	
5.5	none	none			#M		15.5	*S	none			S	
6	arcwil	none			#M		16	arcwil	none			#M	
6.5	none	none			R		16.5	none	none			reilic	1cm
7	none	none			#M		17	none	none			R	
7.5	alpes	arcwil			#M		17.5	none	none			R	
8	bidseg	arcwil			#M		18	none	none			R	
8.5	none	none			#M		18.5	none	none			R	
9	yelsax	arcwil			S		19	*S	none			S	
9.5	bidseg	arcwil			S		19.5	arcwil	none			S	
10	arcwil	none			S		20	arcwil	none			#M	
10.5	yelsax	none			S		20.5	none	none			#M	
11	yelsax	none			yelsax		21	arcwil	none			S	

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living mat (moss, lichen)
 R = rock (> 5 mm fragment)
 BR = bedrock
 S = soil
 EL = embedded litter

Unknown species codes:

#T = tree
 #S = shrub
 #F = forb
 #G = graminoid
 #L = lichen
 #M = moss

* 3/1/18 entered as 'None'

Site Description Form

CVE 2/21/2010:
These look like decimal minutes,
database only takes decimal
degrees. converted with online
Bri calculator

Date: 07/15/16	Site: ADD6 WP 13	Crew: Judy & Albrianna	
Time start: 14:37	Time stop: 15:50	Latitude: (decimal minutes) 61-56.084 D. deg = 61.93473333	Longitude: 141-09.505 D. deg = 141.15841666667
Elevation:			
Dom Trees:	Shrubs:	Graminoids:	Forbs:
Slope Position: Ridgetop Saddle Hillslope: Aspect: South Max slope: +16° Slope length: +500m Shoulder Arm Toe Colluvium Piedmont Terrace Floodplain Flat plain	Slope X-section: broken by benches concave convex straight, even flat (less than 5°) undulating convex/concave Drainage: rapid – runoff / hillslope rapid - coarse, permeable impeded – low permeability saturated soil	Micro-relief type: Bedrock outcrops Mass movement Erosional Depositional Tussocks Solifluction Moss hummocks Thermokarst Burrows None Max micro-relief size: Parent Rock:	Parent Material: Bedrock Alluvium Till Colluvium Loess Lacustrine Other: Geomorphic Disturbance: Fluvial Rapid mass wasting Slow mass wasting Wind scour Other:
Evidence of frost-action: No	Evidence of fire: No	Evidence of wind: Somewhat	Wind exposure class: exposed
Ecotype class:			
Caribou sign: pellets, stripped vegetation, fragmented lichen, tracks, visual sign, etc. none			
Soil Samples	N transect	SE transect	SW transect
Litter Type:	soil	soil	soil
Litter Depth (cm)	0	0	0

Notes:

had bunch

Cover Transect Data Sheet

Date: 07/15/16 Observer: Sudy Recorder: Aubrianna

Plot: ADD 6 Transect ID: 1 Aspect: _____ Slope of Tape: +12°

Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist.

photo 2256

Dist.	Top layer	Lower layers	Soil surface	Lichen ht	Dist.	Top layer	Lower layers	Soil surface	Lichen ht
1.5	whimou	none	#M		11.5	whimou	none	#M	
2	none	none	#M		12	none	none	#M	
2.5	none	none	#M		12.5	none	none	reilic	1cm
3	none	none	#M		13	netwil	none	#M	
3.5	Simalp	none	#M		13.5	none	none	eastlic	3cm
4	Simalp	none	#M		14	whimou	none	#M	
4.5	#F	none	#M		14.5	none	none brown →	doglic	1cm
5	Simalp	none	#M		15	none	none	eastlic	1cm
5.5	Simalp	none	#M		15.5	#G	none	#L*	
6	Simalp	none	#M		16	#G	none	#G	
6.5	none	none	#M		16.5	whimou	none	#M	
7	netwil	none	#M		17	none	none	eastlic	1.5cm
7.5	whimou	none	#M		17.5	salix	none	eastlic	
8	netwil	none	#M		18	none	none	#M	
8.5	whimou	none	#M		18.5	whimou	none	#M	
9	netwil	whimou	EL		19	whimou	none	#M	
9.5	whimou		eastlic	1.9cm	19.5	Simalp	none	eastlic	2.5cm
10	whimou		EL		20	whimou		#M	
10.5	netwil		#M		20.5	whimou		R	
11	none	none	#M		21	none	none	S	

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living mat (moss, lichen)

R = rock (> 5 mm fragment)

BR = bedrock

S = soil

EL = embedded litter

Unknown species codes:

#T = tree

#S = shrub

#F = forb

#G = graminoid

#L = lichen

#M = moss

*collected

entered
cx 2/22/18

Cover Transect Data Sheet

Date: 07/16/16 Observer: Sudy Recorder: Archrianna B
 Plot: ADD6 Transect ID: SE line 2 Aspect: _____ Slope of Tape: +16°

Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist.

photo 2557

Dist.	Top layer	Lower layers			Soil surface	Lichen ht	Dist.	Top layer	Lower layers			Soil surface	Lichen ht
1.5	netwil	none			#M		11.5	arcwil	none			#M	
2	netwil	simalp			#M		12	whimou	none			#M	
2.5	~~simalp~~	none			#M		12.5	whimou	none			#M	
3	simalp	none			#M		13	S ^{None}	none			none	
3.5	simalp	none			simalp		13.5	whimou	none			#M	
4	simalp	none			#M		14	none	none			#M	
4.5	none	none			#M		14.5	mush	none			S	
5	simalp	none			#M		15	R ^{None}	none			R	
5.5	netwil	none			#M		15.5	whimou	none			EL	
6	none	none			#M		16	whimou	none			EL	
6.5	none	none			#M		16.5	S ^{None}	none			S	
7	none	none			#M		17	S ^{None}	none			S	
7.5	whimou	none			#M		17.5	alfes	none			alfes	
8	none	none			eastlic	1.5cm	18	whimou	none			S	
8.5	whimou	none			#M		18.5	velsax	none			EL	
9	netwil	none			#M		19	R ^{None}	none			R	
9.5	#F	none			#M		19.5	S ^{None}	none			S	
10	none	none			eastlic	1cm	20	S ^{None}	none			S	
10.5	alfes	none			#M		20.5	R ^{None}	none			R	
11	whimou	none			#M		21	R ^{None}	none			R	

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living mat (moss, lichen)
 R = rock (> 5 mm fragment)
 BR = bedrock
 S = soil
 EL = embedded litter

Unknown species codes:

#T = tree
 #S = shrub
 #F = forb
 #G = graminoid
 #L = lichen
 #M = moss

mush = mushroom

Ad code ~~2/22/18~~
 A L T F E S 2'

S = # of species
 None

Cover Transect Data Sheet

Date: 07/15/16 Observer: Sody Recorder: Aubrianna
 Plot: ADD6 Transect ID: SW Aspect: _____ Slope of Tape: +13°

Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist. photo 2258

Dist.	Top layer	Lower layers			Soil surface	Lichen ht	Dist.	Top layer	Lower layers			Soil surface	Lichen ht
1.5	whimov	none			#M		11.5	whimov	none			#M	
2	#F	none			EL		12	whimov	none			#M	
2.5	retwil	none			#M		12.5	whimov	none			EL	
3	none	none			#M		13	retwil	whimov			#M	
3.5	whimov	retwil			EL		13.5	whimov	none			EL	
4	Simalp	none			#M		14	whimov	none			#M	
4.5	#F	none			#M		14.5	none	none			#M	
5	none	none			elastic	1cm	15	none	none			S	
5.5	arcwil	none			#M		15.5	none	none			#M	
6	labtea	none			#M		16	whimov	none			#M	
6.5	whimov	none			#M		16.5	none	none			#M	
7	none	none			#M		17	whimov	none			#M	
7.5	whimov	none			EL		17.5	none	none			#M	
8	none	none			S		18	none	none			#M	
8.5	whimov	none			EL		18.5	whimov	none			#M	
9	labtea	whimov			fellic	1cm	19	arcwil	whimov			EL	
9.5	whimov	none			EL		19.5	arcwil	none			#M	
10	none	none			S		20	none	none			S	
10.5	none	none			S		20.5	none	none			#M	
11	whimov	none			#M		21	whimov				S	

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living
 mat (moss, lichen)
 R = rock (> 5 mm fragment)
 BR = bedrock
 S = soil
 EL = embedded litter

Unknown species codes:

#T = tree
 #S = shrub
 #F = forb
 #G = graminoid
 #L = lichen
 #M = moss

* database req. decimal degrees.
cvk 3/1/2018

Site Description Form

Date: 07/16/16	Site: ADD4 - WP17	Crew: Judy & Aubrianna	
Time start: 11:40	Time stop: 12:42	Latitude: * 61.9386 61-56.332	Longitude: * 141.9173 141-55.038
Elevation: 6075			
Dom Trees:	Shrubs:	Graminoids:	Forbs:
<u>Slope Position:</u> Ridgetop <u>Saddle</u> Hillslope: Aspect: Max slope: Slope length: Shoulder Arm Toe Colluvium Piedmont Terrace Floodplain Flat plain	<u>Slope X-section:</u> <u>broken by benches</u> concave convex straight, even flat (less than 5°) undulating convex/concave <u>Drainage:</u> rapid – runoff / hillslope rapid - coarse, permeable <u>impeded – low</u> permeability saturated soil	<u>Micro-relief type:</u> <u>Bedrock outcrops</u> Mass movement Erosional Depositional Tussocks Solifluction Moss hummocks Thermokarst Burrows None <u>Max micro-relief size:</u> <u>Parent Rock:</u>	<u>Parent Material:</u> Bedrock Alluvium Till Colluvium Loess Lacustrine Other: <u>Geomorphic Disturbance:</u> Fluvial Rapid mass wasting Slow mass wasting Wind scour Other:
Evidence of frost-action: No	Evidence of fire: No	Evidence of wind: No	Wind exposure class: 2
Ecotype class:			
Caribou sign: pellets, stripped vegetation, fragmented lichen, tracks, visual sign, etc. pellets			
<u>Soil Samples</u>	N transect	SE transect	SW transect
Litter Type:	none (soil)	none (soil)	none (soil)
Litter Depth (cm)	0	0	0

Notes:

Cover Transect Data Sheet

Date: 07/16/16

Observer: Judy

Recorder: Aubrianna

Plot: ADD4

Transect ID: N02

Aspect: N

Slope of Tape: -10°

Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist.

photo # 2265

Dist.	Top layer	Lower layers			Soil surface	Lichen ht	Dist.	Top layer	Lower layers			Soil surface	Lichen ht
1.5	unkseg ¹	none	Small hanging heads		S		11.5	whimov	none			S	
2	arcwil	none			S		12	none	none			eastlic	2.5cm
2.5	arcwil	none			S		12.5	unkseg	none			#M	
3	unkseg ²	← large dark heads			S		13	unkseg	none			fellic	1.8cm
3.5	unkseg ³	← black stripes on stem			S		13.5	none	none			#M	
4	arcwil	none			S		14	unkseg ²	none			fellic	1cm
4.5	arcwil	none			S		14.5	whimov	none			S	
5	whimov	arcwil			S		15	netwil	unkseg			#M	
5.5	whimov	none			S		15.5	unkseg	none			#M	
6	unkseg ²	none			S		16	arcwil	none			#M	
6.5	none	none			S		16.5	arcwil	unkseg			#M	
7	none	none			#M		17	unkseg	none			S	
7.5	none	none			eastlic	0.5cm	17.5	unkseg	none			#M	
8	unkseg ³	none			eastlic	1cm	18	unkseg	none			S	
8.5	whimov	none			doglic	1.5cm	18.5	unkseg	arcwil			S	
9	arcwil	none			S		19	none	none			#M	
9.5	whimov	unkseg ²			S		19.5	unkseg	none			S	
10	unkseg	whimov			S		20	whimov	none			S	
10.5	whimov	unkseg			S		20.5	unkseg ⁴	none			S	
11	whimov				#M		21	whimov	none			S	

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living
mat (moss, lichen)

R = rock (> 5 mm fragment)

BR = bedrock

S = soil

EL= embedded litter

Unknown species codes:

#T = tree

#S = shrub

#F = forb

#G = graminoid

#L = lichen

#M = moss

collected* — UnKseg = unknown seg — ~~Unseg~~ *Unseg* *CVK 3/4/18*

Cover Transect Data Sheet

Date: 07/16/16 Observer: JULY Recorder: Aubrianna
 Plot: ADD4 Transect ID: SE ② Aspect: W Slope of Tape: +12°
 Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist. photo# 2266

Dist.	Top layer	Lower layers			Soil surface	Lichen ht	Dist.	Top layer	Lower layers			Soil surface	Lichen ht
1.5	nore	nore			#M		11.5	formov	whimov			S	
2	accwil	whimov			S		12	formov	nore			S	
2.5	whimov	nore			S		12.5	accwil	nore			S	
3	whimov	nore			S		13	whimov	nore			S	
3.5	accwil	nore			#M		13.5	formov	nore			S	
4	whimov	nore			S		14	formov	nore			eastic	4cm
4.5	whimov	#F			S		14.5	whimov	nore			S	
5	whimov	nore			S		15	formov	whimov			S	
5.5	whimov	nore			S		15.5	unkseg	nore			S	
6	nore	nore			fellic	0.2cm	16	formov	nore			S	
6.5	whimov	nore			S		16.5	formov	nore			#M	
7	formov	nore			S		17	formov	nore			spalic	0.5cm
7.5	nore	nore			S		17.5	formov	nore			eastic	1cm
8	formov	accwil			fellic	1cm	18	formov	nore			S	
8.5	formov	nore			S		18.5	formov	nore			eastic	2cm
9	unkseg	formov			eastic	1cm	19	nore	nore			eastic	2.8cm
9.5	formov	whimov			#M		19.5	formov	nore			S	
10	formov	whimov			fellic	0.5cm	20	formov	whimov			S	
10.5	formov	nore			eastic	1.5cm	20.5	nore	nore			eastic	2.3cm
11	formov	nore			S		21	unkseg	formov			S	

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living
 mat (moss, lichen)
 R = rock (> 5 mm fragment)
 BR = bedrock
 S = soil
 EL = embedded litter

Unknown species codes:

#T = tree
 #S = shrub
 #F = forb
 #G = graminoid
 #L = lichen
 #M = moss

unkseg = unknown seg

Cover Transect Data Sheet

Date: 07/16/16 Observer: Judy Recorder: Aubriana
 Plot: A004 Transect ID: SW(3) Aspect: _____ Slope of Tape: +11°

Note: Dist. is distance (m) from plot center; 20 m transect begins at 1 m dist.

photo # 2268

Dist.	Top layer	Lower layers			Soil surface	Lichen ht	Dist.	Top layer	Lower layers			Soil surface	Lichen ht
1.5	none	none			S		11.5	whimov	none			R	
2	whimov	none			S		12	whimov	none			#M	
2.5	whimov	arcwil			S		12.5	none	none			S	
3	whimov	none			S		13	none	none			S	
3.5	whimov	none			S		13.5	none	none			R	
4	whimov	none			S		14	whimov	none			R	
4.5	whimov	none			S		14.5	none	none			S	
5	whimov	none			S		15	formov	none			S	
5.5	whimov	none			S		15.5	whimov	none			S	
6	formov	none			eastic	0.5cm	16	formov	whimov	arcwil		#M	
6.5	whimov	none			S		16.5	formov	none			S	
7	none	none			#M		17	formov	none			S	
7.5	formov	#F			S		17.5	whimov	formov			S	
8	formov	none			S		18	whimov	none			eastic	2cm
8.5	whimov	none			S		18.5	whimov	formov			S	
9	woolov	none			S		19	formov	none			S	
9.5	none	none			S		19.5	formov	whimov			S	
10	none	none			S		20	formov	none			fellic	1cm
10.5	formov	none			S		20.5	none	none			eastic	1cm
11	formov	whimov			eastic	1.5cm	21	none	none			reilic	0.5cm

Top Layer: species code or NONE

Lower Layer: species code, L (herbaceous litter), WL (woody litter, > 5 mm diameter)

Notes:

Soil surface (do not use litter):

Species code = base OR living mat (moss, lichen)
 R = rock (> 5 mm fragment)
 BR = bedrock
 S = soil
 EL = embedded litter

Unknown species codes:

#T = tree
 #S = shrub
 #F = forb
 #G = graminoid
 #L = lichen
 #M = moss