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Alaska & Canada 2013 Field Notes

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Alaska 2013 Cassiar Highway/BC

July 3 - July 9 - drove UNM vehicle in tandem with family vehicle from Albuquerque to Calgary to Prince Rupert, B.C. 2500 mi. Arrive PR morning of July 9, caught Alaska ferry to Haines 5pm. On ferry till 5am July 11. Dropped Seal 95% EtOH for SE crew in Ketchikan at 11:30pm July 9, at rented storage shed near Super 8.

Saw humpback pod - ~ dozen or more individuals in

Hundreds of bald eagles in Narrows on shore, trees.

Spent 2 nights in Haines at Salmon Run Campground, ~6 mi NE Haines on Trapped first night along campground margins. Mature hemlock/cedar forest with

Bald Eagles

Seals

cruise ships

pink +

King Salmon

Devil's club, thick carpet of moss, blueberry, salmon berry; birch + cottonwood ^{willow +} along creek.

Small drainage only along east boundary ~6 in deep/1ft wide creeklet w/ fireweed, horsetail at forest edge. Caught 17 mice, including

Zapus + Sorex on creeklet. Also Perom.

Myodes, Tamiasciurus.

Alaska: Haines; Salmon Run Campground

Ben > 5 ^{Sherm.} traps each around 10 ✓
Nathaniel Fallen trees, stumps - squirrel holes

Camp

Marcel: ~~3~~ ³ lines of 10 Shermans - 2 ea at ~~29~~ 29 ✓
#1 5 paces behind (E) of camp +5 ✓
(one broken = 29) snap

Line 1 =

37 +

29

+ 5 snap

- 3

66 + 5 snap

= 71

#2 ✓ 1 line 10 shermans 2 ea ⁽¹¹⁾
by creek ✓

#1 1 line behind camp (7)
1 for squirrel ✓
1 line along forest edge

xxx x

xxxxx
6



~~394~~ ~~29~~ ~~5~~

10 ✓
20 ✓
7 ✓
1 ✓

30 ✓ 9 (20)

~~5~~ snap

105

#3

creek

12 sherman ✓ + 3 snap = 15

#4

beach

18 " ✓ + 7 " = 25

40

Line #

Line 1 66 + 5 ms

Line 2 10

Line 3 12 + 3

Line 4 18 + 7

145 traps

+ 5

150

110

116 + 15 ms = 131 traps total / 17 animals

July 13-14: drove to Haines Jct. and took Alaska Highway to Tok towards Fairbanks. Camped at Tok River ^{State} Recreation Area (arrived ~11:30pm.) Left Tok ~9am - arrive Fairbanks mid-afternoon. Met up with Joe Cook, Marie Westover, Lydia Delahanty, and Eric Hoberg - gave truck up to Joe.

Lunch at 33 mile. Ben found dragonfly.

July 15: Depart Fairbanks with crew for Cassiar trapping:

Marisel L. Campbell

Joseph A. Cook

Marie L. Westover

Eric P. Hoberg

Lydia B. Delahanty

Huge burn area along Taylor Hwy in Caribou ~~are~~ migration area

Good grocery store in Tok

Drove for considerable ways looking for trapsite. ^{went up Taylor highway & back.} Stopped for night at Tok River Rec Area.

Trapped along margins in black spruce, aspen, very thick moss with many squirrel holes, Shepherdia (soapberry), Arctostaphylos, Much porcupine scat/sign. Land to E belongs to Tanacross Inc. Only 2 captures on Joe's

Lydia's line - 2 Myodes of 260 traps
James & kids joined us this evening.

July 16:

campgrounds in Klane Lake area closed due to bear activity

Left Tok ~10^{am}; James split off to Tok cutoff towards Anchorage. We continued on Alaska Hwy towards Whitehorse - arrived Haines Junction in eve - big fire

15 July 2013

Tok River, AK - SRA

MLC + LBD

black spruce (?), aspen, moss, l-upine

50 traps ^{SNAP} (1 broken = 49) + 40 Sherman

~5 paces, (1 trap + 1 sherman); vat trap

every 10

16 July

0 captures (Joe caught two *Myodes*)

packed up + drove towards

Whitlouse, looking for camping area.

Stopped Haines Junction at Klueane Campground

+ RV park - fire + much smoke; no traps

17 July - up early + out towards Whitlouse

picked up roadkill *Urocyon*

Urocyon
DOR

Tuco waypoint 003 Alaska Hwy Yukon

60.78815 N 136.30542 W 209m

"

Tuco waypoint 004

~~Kusawa Lake 1489 km~~

July 16, cont.: We staged in Haines Jct. RV park/store because of smoke, not knowing source or proximity of the fire. Nearby Kathleen Lake would have been another possible campsite. Showers, hot water, drinking water, gas, dubious wifi (cuts off at 11 pm).

July 17: left Haines Jct for Whitehorse. ~3hr drive. Picked up two roadkill Droicetellus parryi along Alaska Highway. Many, many more musked on road. First one had been scavenging other dead squirrels - meat in stomach. Fireweed, black spruce line highway. Arriving in Whitehorse, we went to the Dept. of Renewable Resources to meet Tom Jung, a biologist who has been collaborating with Joe on this project. We ~~are~~ were also hoping to meet with Kurt Galbreath + his crew who will trap with us several days before we split for Cassiar Hwy + (Kurt's crew) North West Territories. No sign of Kurt - we ~~we~~ spent some time at Whitehorse information center using wifi + checking on Kurt + BC permit which is still in process. Looked at Peromyscus contact zones towards Ross River + Carmax. Drove 40km N on Klondike Hwy to Lake LaBerge campground.

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2013
Cassiar
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July 17, cont.: Stopped at Mom's bakery -
used WiFi, got homecooked baked
goods, checked her topo maps for land
ownership, saw her tame fox +
beautiful lettuce garden. Camped by
lake, set 3 trap lines: $\frac{1}{4}$ mi. w. lake
MLC + MLW: along lake/campground
JWB + EPH: by landfill, 1.6 mi. from lake
JAC + LBD: back up highway to
Braeburn lodge
50 Shermans + 50 Snaps. $\frac{100}{50}$ traps ea. line
= 300 traps

Eric, me, Will, Lydia + Marie -
Went swimming in lake at midnight -
still light out. Cold!

July 18:

Line 1	Marie + Mariel: 16 animals / 98 traps	4 spp
Line 2	Joe + Lydia: 11 animals / 100 + 3 pitfalls	5 spp
Line 3	Will + Eric: 9 animals / 98 traps	2 spp?
	36 animals / 300 300 traps	

Processed animals. Neighbors ^{Jim + Janet} the MacPhersons
extremely nice - brought food, desert, beer!
dog Sophie.

Eric + Will
Set new line of Shermans (chipmunk line =
Sophia #4) by trash dump. Many squirrels -

Lake LaBerge, 1/4 mi W, 40 Km N Whitehorse
on Klondike Hwy
aspen - Deep Creek area

black spruce Picea mariana

red berries sasalallie - Shepherdia
Kinnikinnick
Kinniknick - Arctostaphylos uva-ursi

yarrow Achillea

prickly rose Rosa acicularis

pine - Pinus contorta

moss

Juniperus communis

Marie + I trapped along the east side of the road which runs north along the boundary of the campground and private tracts of the western margin of Lake LaBerge. To the west + south is a piece of tribal land, and, farther up, territorial land and a landfill (where Will and Eric + later Lydia also set two lines.) A power line easement nearby.

Sorex waypoints:

Line 1	11 July 13	002	T. hudsonicus	Haines, Salmon Run (road, Line 1)	
"	12 July 13	003	Peromyscus	" "	both round
	"			59.29869°N, 135.51625°W	20 22 m
Line 3	"	004	Sorex (dead)	SC7035	Fireweed Equisetum creek
"	"	005	Zapus		" creek
"	"	006	Sorex (dead)	32BP	"
"	"	007	" "	MJS1	"
"	"	008	Peromyscus	176	" cross young 2 ^o grad alders
Line 2	"	009	T. hudsonicus	RD044	
Line 4	"	010	Sorex (dead)	J+J alders, grass, 2 ^o grad along shore near div. 15 club	
Line 1	"	011	Myodes	hemlock, ferns, moss, fallen logs	
"	"	012	Myodes ⁰⁰⁹	climax hemlock blueberry, dogwood fir moss fallen logs	
"	"	013	^{same spot} T. hudsonicus	113 " " blueberries, moss	
"	"	013	Sorex (dead)	RP028	"
"	"	014	T. Hudson.	3 SC7305	" stumpy
"	"	015	T. Hudson (dead)	241	log
"	"	016	"	273	"
"	"	017	Sorex (dead)	268	" Ferns stump edge of forest

Lake LaBerge

18 July	018-26	EPS + JWB	trapline	
"	027	MLC + MLW	trapline	BK056 Peromyscus
				N 61.08025 W 135.20671 676m
"	028	MLC MLW	Peromyscus	
				N 61.08028 W 135.20674 676m
				→ rest in Marie's notebook

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July 18 cont.:

caught 1 chipmunk while setting

Tamias in pm

Joe & Lydia pulled Braaburn Lodge Line.

3 Lines only out tonight by lake.

July 18:

7:30 pm captures:

MHC/MLW Line 1: 1 Myodes rutilus

1 Microtus pennsylvanicus

JWB/~~EBD~~^{EPT} Line 2: ~~1~~ ⁴ ~~1~~ - just set out

JWB/~~EBD~~² Line 2: chipmunk Tamias

July 19:

~~EBD~~

Line 1 captures: 10 (6 Pero 1 Microtus 2 Myodes 1 Tamiasc.) / 98 traps

Line 3 " : 3 (1 Pero 1 Myodes 1 Tamiasc.) / 98

Line 4: " 4 (3 Pero 1 Myodes) / 30 traps

17 captures / 230 traps

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~~19 July - 20 July~~

~~Trap line set:~~

~~Line 1~~

~~Line 3~~

~~Line 4~~

~~Captures:~~

~~19~~
July

Pulled all traps + animals, packed up camp + went into town to meet up with Kurt Galbreath + crew. First went to wildlife office where Tom Jung had ~140 animals defrosting from their freezers. Prepped our animals + a few warkers there till ~8pm - Tom bought pizza. Left to set up camp at Beringian Institute + airport lot. Kurt arrived ~2am but couldn't find us so camped 4 mi down road.

Peringia Center / Whitehorse:
July 20-25

NWT crew:

Kurt Galbreath

Dan

Heather Tomen

(+ Eric
Hoberg)

Stayed in Whitehorse processing with Kurt's crew
 ~ 600 animals from wildlife dept.

freezers from Tom Jung. Many
 days of steady rain, cool. Dinner
 one eve with Tom + wife Karen
 + ^{Whitehorse} wildlife vet + her husband (Brett Elkin),
 also wildlife vet for NWT. Very nice
 evening. Tom + son also took Will +
 Eric fishing one evening. ~~at~~

We are still waiting on BC collecting
 permit. Tom provided Yukon export
 permit for the specimens from here.

Joe has been emailing + calling repeatedly
 re: BC permit. Tom has ~~also~~ made
 calls - seems to be having an effect.

We have at least received a response
 requesting more info on trapping
 methodology (bats? ~~the~~ shotgun!!??!)
 etc. Very difficult bureaucracy (eh?)

Kurt + crew lots of fun - nice to
 have a big work group. Went hiking
 Tues night (23rd) to Miles Canyon along
 Yukon River - beautiful. Hiked to
 suspension bridge from near fish ladder.
 saw beaver. Good sknew habitat on
 N side lake/river.

Whitehorse

July 24

Kurt, Dan, Heather, + Eric left this am for Northwest Territories transect.

We packed up + headed to Takhini Hot Springs after doing laundry, groceries, + spending time in futile hope that news of BC permit would come through. We can't go to BC without it. Set up

Private
C-ground
\$25/night
WiFi

camp + celebrated Joe's birthday at hot springs - \$9/^{Person}soak w/campground discount. No traps set.

July 25 Packed up camp

met Tom Jung + discussed camping/trapping options on route to Watson Lake while we wait on permit. Tom seems confident permit will eventually come through. Joe keeps having to provide more info, some need WiFi/phone access, of which there isn't much between Whitehorse + Watson Lake. List of Tom's suggested localities follows.

Drove to Teslin, stopped for lunch, ~~at~~ used ^{Yukon motel} trading pt. WiFi to submit revised permit app. omitting bats + endangered taxa (Taxidea). Not easy to modify the pdf or ~~copy~~ their map - they wouldn't accept coordinates for localities. Stayed till 5:30pm.

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Tom Jung:

Trapping possibilities, Whitehorse to Watson Lake:

Yukon —
Drainage

Tetlin - Yukon River drainage - good stream
by campground by bird banding station,
horsetails, good for shrews, in cottonwood

Squanga Lake

360 km

Rancheria - Cassiar Mts near Swift River

Big Creek - 50 mi West Watson Lake

Watson Lake Campground

6 mi W
Watson
Lake

Liard River / Albert Creek - bird banding station
- good for shrews

Upper Liard - First Nation village, before
big bridge, Albert Creek, follow
road towards bird banding

Watson Lake - Mackenzie River drainage
biogeographically more continental, but
transition area, 5 species ~~more~~ shrews

Watson Lake has wildlife office - may have
stuff in freeze

biologist Alian Fontaine (fairly new, may
not have much)

July 25 cont.

Many campgrounds/lodges closed on this section of Hwy. Lodge at Johnson Crossing closed; several others also.

Stopped to camp at Rancharia along river. Rancharia lodge/campground virtually empty - under construction somewhat. But restaurant has food (met Niko - biking from Prudhoe Bay to South America - he ate there.)

Set traps along river S/w of lodge/campground.

MLC/JWB line: 40 shermans/40 mus. spec/
10 rat traps = 90

MLW/LBD Line 3: " " = 90

JAC: 20 Pitfalls

180 + 20 pitfalls

Vegetation:

young lodgepole pine Pinus contorta
white/black spruce Picea glauca

numerous types of willow

diverse understory/herb layer:

Kinnikinnick

see back of page

Rancheria,
River side
plants

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Picea glauca (also black spruce?)

Pinus contorta

Salix spp interior (Sandbar willow)
water birch

Archostaphylos uva-ursi Kinnikinnick

Shepherdia canadensis soapberry

Cornus canadensis Dwarf Dogwood / bunch berry

Epilobium angustifolium Fireweed

Pinguicula vulgaris Bladderwort, ^{Bog Violet} Bitterwort

Rosa acicularis prickly rose

Potentilla sp. (sand/gravel bar) Cinquefoil

Sanguisorba stipulata Stika Burnet

Lycopodium annotinum (stiff bristly leaflets) ^(sub moss)

" complanatum (cedar like)

? Betula nana Dwarf birch

? → Polytrichum sp. star moss, Sphagnum?

Empetrum nigrum crowberry, mossberry

Plantago major - along road plantain

~~Heracleum~~

Heracleum lanatum cow parsnip ^{Apiaceae}

→ Lycopodium

Ledum palustre

^{evergreen / ever}
^{red hairs}
Labrador Tea

? meadow rue

Aconitum sp.

monkshood ^{purple} flowers

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26 July

MLC/JWB Rancheria river Line

WP [Sorex OS4] trap RDC08 Zapus 2m from

Like!

Zapus
Lewissonius

river edge in snag under

water birch, willow

60.08410N, 130.60~~0~~⁸⁰³ W

el. ~~899~~ 899m

Joe: Sorex monticolus in pitfall

ZBD/MLW: Myodes rutilus

* Sorex had cestodes, nemas (tiny)

Myodes: cestodes

To Water Lake - Rec center has WiFi

?

Permit finally in - only 3 localities in
Skeena district, 10 animals ea allowed!

4:08 pm - Finally start down Cassiar
Hwy!

4:11 pm enter British Columbia

4:28 pm Black spruce / bogs - good for water
shrews - burn area

26 July

Cassiar Hwy
pick up hemlock ~ km 40 S. French
Creek
aspen jack pine

Drove South on Cassiar from ~ 4^{pm} to 11 late

Camped at Kinaskan Lake, ~ 9^{pm}
Drove South of Lake / park to set traps,
back by midnight. It gets dark
here now!

traps
along
road
in
dusk
could barely
see

MLC/JWB Line 1: 80 Shermans in
lodgepole

* MLW/JAC: 40 Shermans + 20 pi + falls

Rain before trap set. Heavy dew.
Captures next page.

Accession 2013.055

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S. of Kinoshan Lake, BC

27 July

checked traps 8:00 am; rain last before setting, damp

Same elev.

Sorex WP 055 Peromyscus trap 264
57.46605N 130.23102W 806m

Sorex 056 Peromyscus 2062
57.46602N 130.23092W 823m

Sorex 057 Peromyscus 57
57.46564N 130.23094W 823m

Sorex 058 Peromyscus 58
57.46571N 130.23077W 822m

Sorex 059 Peromyscus 59
57.46495N 130.23099W 822m

First 60 traps

Lodgepole pine, young trees, willow, Fireweed,
ardostaphylos, crowberry, much fallen log
debris, fairly dry, some moss & butterwort,
open canopy, legumes, Shepherdia

2nd 20

crowberry dense mats, pea, fallen logs, lodgepole
Shepherdia open

Sorex 59
Sorex 60 Peromyscus 60
57.46494N 130.23100W 823m

Sorex 61 Pero 61
130.23101 822

27 July captures MLC @ JWB Line:

Sorex 62 Peromyscus 62 57.46487N
822m # 130.23117W

Will shot squirrels:

Sorex WP 63 Tamiasciurus 1: 57.46430 822m W 130.26099

WP 64 Tamiasciurus 2: 57.46439 822m 130.23041

WP 65 Tamiasciurus 3: 57.46522N 822m
130.22993W

Fireweed, downed logs, lodgepole

Joe + Maria caught 1 Myodes, 1 Sorex.
Myodes had cestodes. Sorex had nematodes.
I processed Pero's while everyone else
went out to set traps in pm.

yum Will brought back another squirrel.
Dinner late, in rain - still coming
down hard.

Running low on alcohol, gloves, Kimwipes
after epic processing of 600 animals in
Whitehorse.

Joe leaves
wed
meet up with
SE crew
morning

Joe will try to talk to permit officer in
Smithers Monday regarding our limit of

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28 July

Rain steady all last night. I went out to check traps, although I didn't set last night (worked on *Peromyscus*). First Line just past (S) Rescue Creek on east side up slope in beautiful Spruce/aspens/lodgepole/ hemlock? ^{willow} with thick moss, Lycopodium, *Cornus canadensis*, blueberry, Shepherdia, crowberry, lichen. Black cottonwood? + willow lines roadway (red clover, pineapple weed). ~~†~~

Line 3 above: 120 Shermans + 20 pit falls
captures: 11 shrews (25 sp.) ^{Citellus} ^{monticolus}
12 *Peromyscus* (25 sp?)
6 *Pero* (released)
29 animals / 140 traps

Line 4: 16 ~~km~~ ^{mi km?} past Eastman Creek
80 Shermans no pitfalls

Captures

1 *Sorex*

Peromyscus

Processed all day & pulled up camp. James Brunt + family found us around 2:30! We are caravanning down Hwy 37 towards Bell II crossing for gas. Stopped at Ningun's new Summit to

28 July cont.

Cassiar Hwy 37 → to Bell II Lodge

To look for squirrels. There is massive construction / deforestation for Northwest Transmission Line, a high tension power line bringing power up to mining district in northern ^{western} BC.

422m
Ningunsee
Summit

We are now much lower in elevation - 400m - and are picking up heavy coastal influence in vegetation.

Thick Devil's Club - impenetrable - with treacherous fallen ~~to~~ moss covered logs + swarming black flies. Saw squirrel sign (chewed pine cones etc) but no squirrels. Joe et al caught up with us after having picked up Eastern traps.

Stopped for gas at Bell 2 Lodge. Camped here - showers, internet, phone. Joe needs to call Smithers, ABQ, re permit + gas.

Traps out.

MLC/JWB: 50 Shermans

MLW/LBD 80 Shermans

Spruce, hemlock, black cottonwood - very tall spruce forest, big trees, lots of Devil's Club ^{fallen logs} making access to anywhere inside forest difficult. We set along campground + roadside margins.

17 animals
50 traps

Tuco

Captures 29 July Bell II Lodge (Line 1 JWS MLC)

1	WP 51	Peromyscus (60)	56.74346N 129.79207W	565m
2	WP 52	" JT1 B	56.74345N 129.79224W	565m
3	WP 53	" 017	56.74342N 129.79230W	565m
4	WP 54	" 011	56.74342N 129.79234W	564m
5	WP 55	Pero 016	56.74339N 129.79239W	564m
6	WP 55	Pero 017	" "	
7	WP 56	Pero JJ 010 ms	56.74336N 129.79240W	563m
8	WP 57	Myodes 264	56.74331N 129.79248W	563
9	WP 58	Pero 58	56.74231N 129.79385W	561m?
10	WP 59	Pero 37	56.74233N 129.79381W	564m
11	WP 60	Pero 6	56.74229N 129.79390W	565m
12	WP 61	Pero 7	56.74269N 129.79332W	567m
13	WP 62	Pero 8	56.74272N 129.79327W	567m
14	WP 63	Pero BK009	56.74270N 129.79328W	567m
15	WP 64	Pero 9	56.74270N 129.79314W	567m
16	" WP 65	Pero 10	" "	
17	WP 65	Pero 11	56.74268N 129.79309W	567m

28 animals
80 traps
30% Black flies, gnats, mosquitoes nasty

+ 6 shrews, 1 Myodes + 21 Peros from Line 2, m/w/LBD
Joe left today with my family for Smithers. Will decided to stay with Lydia, Marie + I. We will be working along the Cassial until we can meet up with SE Alaska crew + Bryan Mclean on Aug 3. Joe contacted permit folks in Smithers this pm + got an increase to 5 sites, 30 animals per common species. We stayed here again tonight + set

Cassiar

2013

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Bell F Lodge

30 July

Sorex

captures: from MLC/JWB squirrel line of 12 traps
 WP 080 Myodes BK060 (Line 1)

1 Pero (released)

56.74235N

129.79378W 571m

Cistodes
 in
 shrews
 yesterday

Heavy rain yesterday pm, but it was
 dry under the massive hemlocks.
 Sunny this am.

Captures from MLC/LBD/JWB line: (saw bear
 + 2 cubs
 yesterday)
 (120 Shermans + 6 pitfalls along creek
 + along road in forest)

Sorex ~~###~~ III = 8Myodes ~~###~~ ### 1 = 11

Peromyscus @ ### ### 11 (1 released)

Microtus? 1 1

5 ^{*} spp. 28 captures / 166
 31 traps

+ others

Released Peromyscus as we appear to
 have only ^{one} sp here + our max is 30;
 also I am processing all Peros b/c
 of hanta issue + #5 are overwhelming.
 we still have Peromyscus to process from
 yesterday.

I worked on Peromyscus while
 Marie, Lydia + Will + drove north to set
 traps at Bob Quinn Lake closer to
 contact zone.

Bell II | Bob Quinn Lake

31 July

Picked up traps at Bell II +
processed mice + packed up camp to
move north.

- 1) Captures at Bell II by Marshy Lake
(3.2 mi / 6 km N lodge)
MLW / LRP
JWB
live
Spruce
Small Cottonwoods
messy
devil's club
woody debris
4 Peromyscus (released) - 18 Shermans
 $4/18 = < 20\%$

- 2) Bob Quinn Lake captures, 30 mi N of Bell II
Tamiasciurus 1 (Sherman)
Sorex 3 (2 live, 1 dead)
Myodes 1
5 captures / 60 Shermans
 $< 10\%$

Drove to Bob Quinn fully loaded to
move camp - checked out lake camp area
(old picnic / trail area) behind road/
tower construction site. Turnoff is
just after the "Bob Quinn Lake lodge"
sign - no idea where lodge is, but
there is a helicopter company + lot of
construction camp, + a phone sign. Nice
camp area but lot of use by construction
crew for fishing, target practice etc.

Bob Quinn Lake

31 July

Beautiful vegetation - aspen, spruce,
hemlock, lots of diversity in
herbaceous vegetation, Canadian
dogwood, moss, Salmon berry -
no Devil's Club, no blackflies!

Much lower trap success than
Bell II - more similar to areas to north
by Kinardens. ^{Lake} Separate drainage -

Bell-
Irving
River

Bell II drains to Nash (?);
crossing Ningusaw Summit to north
to Bob Quinn puts you in Stikine
drainage. (Iskut River)

Our plan was to trap contact
zone area again - Devil's, Thomas
Creek. We drove to Devil's Creek -
nice pullout ^{to W}, good trapping area
on N side of bridge. But when we
got out, it was clear Lydia wasn't
well. She had been sleeping, &
woke up pale & feverish. Decided to
cancel plans to trap & drive into
Smithers nearer amenities & phone contact.

Left Bob Quinn 6:30pm - arrive
Smithers (rain, fog ~~on~~ on way - slow drive)
12:30am. Camped in ^{River} municipal campground
S of town - ^{fortunately} gates were open (camp closed
11-7am). \$16/night tenting - beautiful spot
^{pm} by river, with trails in woods, marshy areas.

Smithers

1 Aug

Took it easy this am to let Lydia rest. Processed ~~2~~ Bob Quinn captures on the tailgate - we'd euthanized them + put on ice yesterday. In pm drove ~~down~~ down Hwy 16 towards Houston looking for water shrew contact zone localities. Beautiful area - hanging glaciers on high mtns, forested slopes, farms (hay bales in river valley. (Plan for tar sands pipeline through here? terrible)

No obvious way to get to Twin Creek from Hwy 16 - need forest service maps.

Drove instead towards Morice River, ~~W~~ of Houston. Forest service road goes by large Sawmill just N (2 mi) of town on Morice River rd ("Finning"). We stopped to set traps at Aspen ~~at~~ at Km 17 (kilometers are marked on road) on Morice River Road.

~ 40 mi S.
→ 5 mi N

Morice
River

100-
150-200 ft
from
river

Aspen, cottonwood, spruce, hemlock, willow, incredible diversity of herbaceous vegetation, raspberry, red osier dogwood (black fruits), grasses. We set 3 lines - Live 1 into spruce forest / boggy area along river. Many fallen logs, ~~at~~ 100% cover of herbaceous veg. 4' high understory of herbaceous + shrubs, = 106 Shermans + 14 pit falls (including in mud/water area along fallen logs.)

1 Aug Morie River

within
10-20ft
of
river's
edge

Line 2: in dense herbaceous (shrub cover
at edge of river/forest. Looks like
good Zapus habitat. ^{herb.} Cover 4-6ft
high - ~~no~~ grass + dogwood + berries.
- 80 Shermans + 4 pitfalls

1 Aug
Total
trapout

180
Shermans
+ 23
Pitfalls

203
traps

5 pitfalls
Line 3: along creek edge of small ^{foot}
tributary to Morie River (trail by bridge)
Rocks, mossy logs, ^{ferns} at water's edge of
4-6 in deep running water. Set pitfalls
along logs + in ~~the~~ rocks within 1-10ft
of water.

Absolutely gorgeous place. Marie went
for a swim. No one here but 2 fishermen
who left.

- beautiful sunset.

Leave Morie river 9pm - ^{grocery stores closed}
Back to town by 10pm ~~Safeway open~~,
~~but it bought some groceries~~, ^{cooked} ate
dinner - to bed by midnight.

Moose
hit by
motor
coach
on
Morie
River
ed

2 Aug to grocery store early (Safeway - expensive)
(Extra foods not open yet) then to
trapline. Captures disappointing - < 10%
No water shrews! 😞 But two
Sorex cinereus in pitfalls.

M. L. Campbell
2013
Cassiar
23

Smithers/Morice River

2 Aug cont.

Captures Morice River 2 Aug:

Line 3: 1 Sorex cf. cinereus

Line 1: 4 Peromyscus

3 Myodes

1 Sorex cf. cinereus

Line 2: 6 Peromyscus

4 Myodes

19 captures / 203 traps

~ 10%

bear
in
camp-
crossed
river

Processed critters at Morice River - no people & beautiful. Went for swim & back to Smithers ~ 8pm - to grocery store (Extra Value better store than Safeway). Got food thru Aug 7 - we leave Smithers tomorrow to go back to Cassiar. Dinner late ~ 10pm, had fine + bananas w/ chocolate, rotisserie chicken, celebration of Lydia being better (singing now) + our last night together before joining SE crew.

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2013
Cassiar
24

Smithers → ^{Belt II} Cassiar 2nd round

3 Aug

Up 5:45 am - packed & out by 7:30.
On road to Kitwanga ^(70 mi) & northern
Cassiar to Bell II Lodge to rendezvous
w/ SE crew & Bryan McClean by
noonish.

Bryan McClean
Amber

Schuyler W. Liphardt
Adrienne Vigil
Randle McCain

Met up at Kinadean Lake. SE ~~to~~ crew
set traps N & E of campground towards
Todagin. C.E. Lake Kinadean. We set on
Willow Creek Forest Service Road (Marie, Lydia
& Will set traps - I stayed & cooked.)

SE crew exhausted from 2:30 am
waking on ferry & long drive.

Power line crew is clearing timber
from road where we trapped last week
massive operation for high tension line.

S of Kinarkan Lake

4 Aug

Willow Creek area captures

⁰⁸⁸
Tuc086 (delete 86) Peromyscus msB3 ~~57.44185N 130.24654W 769m~~
~~56.74438N 129.79575W 748m~~

Tuc087 Peromyscus msB87 57.44180 N 130.24658 771m

Tuc089 Peromyscus msB9 57.44176 N 130.24696 770m

Tuc090 Peromyscus msB90 57.44177 130.24818 768m

Tuc091 Sorex lead sherman 57.44180 130.24843 767m

Tuc092 Peromyscus msB92 57.44183 130.24884 766 m

Tuc093 Peromyscus R24 57.44185N 130.24902 ⁷⁶⁶m

Tuc094 Peromyscus R25 57.44241N 130.24826 ⁷⁶⁴m

8 captures / 80 traps = 10% ^{Sherman} 25%P

east: Line b

Tuc095 Sorex ^{m?} 95 57.44643N 130.22224W 804m

Tuc096 Peromyscus ^{SK} 063 57.44648N 130.22234W 820m

Tuc097 Musckla erminea ^{* 0910/016} 91 57.44648N 130.22235W 820m

Tuc098 Sorex 91 57.44673 N 130.22209W 819m

S. of Kinoshan Lake

4 Aug cont

Tuco 99	<u>Peromyscus</u>	MSB 97	57.44677N	130.22197W	819m
100? delat					
Tuco 101	<u>Peromyscus</u>	MSB 200	57.44719N	130.22269W	821m
Tuco 102	<u>Peromyscus</u>	MSB 264	57.44789N	130.22322W	823m
Tuco 103	<u>Peromyscus</u>	07	57.44814N	130.22379W	823m
Tuco 104	<u>Peromyscus</u>	BK021	57.44843N	130.22377W	823m
Tuco 105	<u>Tamiasciurus</u> skeleton		57.44695N	130.22221W	828m

10 captures / 113 traps (Skermus only)
4 spp

lots of dead conifers on slopes to west - fire?

lodgepole on ridge top

west line: Fairly open young Willow cottonwood mixed w/ spruce - aspen Around edge of creek drainage, open mud flats, thicker aspen/spruce along creek - riparian; Equisetum

east line: great myodes habitat tall 40' Spruce, lodgepole, aspen, hemlock forest + willow; cover 80%+ moss Lycopodium Canadian dogwood Labrador tea Ribes birch, willow, Solomon seal, low parsnip large Apicea, pea, soapberry, dying conifers + young seedlings + willow in sparse understory / fallen debris,

S. Kinasken Lake

27

4 Aug
cont

Willow Creek

Will + Lydia shot 2 Tamiasciurus
east + 6 on west line.

I found one Tamiasciurus skeleton on
east west line.

Pulled Line 5.

Back to camp ~ 11:30. Processed
mice w/ SE crew till ~ 4pm.

^{Todajin area}
SE crew captures = 9 total

6? Peromyscus

3 Sorex

1 Myodes in
pm

~ 4pm

MLW, LBD, JWB

Set new line on Willow Creek FS road
west of line 5 in lodgepole/spruce stand
to S of road. 80 Sherman + 10 pitfalls.

SE crew left their E Kinasken line
(Todajin marshy area) - check in
pm yielded 1 Myodes ★

- They set pitfalls there this pm.

Found pinworms + trichs in Peromyscus;
trichs in squirrels; cestodes in shrews.

Dutch oven dessert - yum.

M.L. Campbell
 Cassiar
 2013
 28

S. Kinoshan lake, willow

5 Aug

Captures Line 6 East

added 10
 pitfalls yesterday

Tuco 106 Peromyscus MSB 8 57.44870 N 130.22377 W ^{823m}

Tuco 107 Peromyscus MSB 59 57.44807 N 130.22377 W ^{813m}

Tuco 108 Peromyscus R047 57.4432 N 130.22272 W ^{815m}

Tuco 109 Peromyscus RD 645 57.44695 N 130.22209 W ^{800m}
 delite 110

Tuco 110 Sorex pitfall 57.44676 N 130.22192 W ^{807m}

Tuco 112 Sorex pitfall 57.44662 N 130.22221 W ^{809m}

6 captures / 113 + 10 traps = 25%

5 Aug

wolf
 scat
 on
 road

Line 7 with spruce understory
 captures willow wet lodgepole 60ft tall
 crowberry, lupine, ~~little~~ ^{sparsely herbaceous,}
 hemlock seedling, ~~understory~~ ^{no orange berries}, open
 moss, mushrooms, low blueberry? (6 in)
 fallen trees, Lycopodium, Arctostaphylos,
 Labrador tea, bog violet, Soopatalia

Sorex 134 Sorex pitfall 57.44371, 130.26167 ^{767m}

Sorex 135 Pero BK 059 57.44445 N 130.26288 W ^{764m}

Sorex 136 Shrew (MSB 206) 57.44434 N 130.26257 W ^{764m}
~~skarm~~

5 Aug cont.

Sorex 137 Tamiasciurus (will shot) 761m
57.44408N 130.26317W

Alas jawbone on forest floor

Sorex 138 Peromyscus MSB 220

Sorex 139 Peromyscus MSB 101

Sorex 140 Peromyscus BK053

Captures 5 Aug: Line 7:

4 Peromyscus

2 Sorex

6 captures / 80 stems + 10 pitfalls

76%

Total captures = (13)

SE crew captures 5 Aug E Kinaskan.
= (20) total = 33 to process
with 2 Myodes!

Pulled all lines to reset farther south.

S. Lake Kinaskan / Devil / State Creek

5 Aug

Processed till 4 pm. We all drove South to Durham Creek - then SE creek & Bryan went back towards north to trap between Durham & Rescue Creek. We went south to

Devil's Creek pullout - set 52 + 52 + 3 pitfalls (two lined).

Will + me:	52 Shermans + 3 pitfalls
	- in spruce forest & along shore of small lake
Marie + Lydia:	52 Shermans in forest

104 = traps + 3 pitfalls

Devil's Creek - beautiful mature forest crossing

severing spruce forest w/ large trees, large fallen logs, Devil's club (moderate), Cornus, moss - Lake has lily pads, leeches.

= 184 total

Thomas Creek - very steep up & down slopes - too difficult to trap at crossing

State Creek ^{road} pullout to north side of ^{east} crossing

80 traps

MLC/JWB	40 Shermans - along creek
MLW/LGD	40 Shermans - through forest

Blueberries! thick along forest floor of some. Will & I set through blueberries

Ft Fraser Beaumont Provincial Park
lake, Nekeok river

Red bluff BC parks camping Topley.
93 km E Smithers.

SE Smithers Babine lake tyhee
tulkwa BC Forest service south side
of town riverside municipal park visitor
center Kingstreet safe way chevron
Petro canada mcdonalds
To Boggan Fish Hatchery
Hwy 16 west Smithers to airport

radio lab - songs that get stuck
in your head iTunes

Devil/Slate

BC captures:

S. of Kinarkan Lake / ~~St~~ Devil Creek ^{mc/JWB line}

GPS

Sorex 141	<u>Peromyscus</u> RD044	57.08160	130.26492	681m
Sorex 141	<u>Peromyscus</u> SC-7385	"	"	"
Sorex 142	<u>Myodes</u> (?) 142	57.08172	130.26508	685m
Sorex 143	<u>Myodes</u> ^{MSB} 081	57.08176	130.26505	683m
Sorex 144	<u>Myodes</u> ^{MSB} 038	57.08178	130.26511	683m
Sorex 145	<u>Sorex cin.</u> 145 ^{Sh.}	57.08192	130.26546	682m
Sorex 146	<u>Myodes</u> BK056	57.08199	130.26543	682m
Sorex 147	<u>Myodes</u> MSB07	57.08195	130.26521	682m
Sorex 148	<u>Myodes</u> MSB099	57.08199	130.26546	680m

Slate mc/JWB line

Sorex 149	<u>Peromyscus</u> J06	57.17018	130.23470	826m
Sorex 150	<u>Sorex</u> (dead in sh.) 150	57.17028	130.23468	826m
Sorex 151	<u>Peromyscus</u> RD031 / 32BP	57.17029	130.23436	829m
Sorex 152	<u>Peromyscus</u> 206	57.17035	130.23421	830m
Sorex 153	<u>Sorex</u> (dead in sh.) 153	57.17052	130.23437	828m

Devil Creek: mcw/LBD: 3 Myodes ^(1 is microtus?), 1 Pero, 1 Sorex

Slate: mcw/LBD: 2 Peromyscus

2/18/14
 trap

Total Devil:	9 <u>Myodes</u>	Total Slate:	5 <u>Peromyscus</u>
	3 <u>Peromyscus</u>		2 <u>Sorex</u>
(hit) -	2 <u>Sorex</u>		49%

6 Aug cont
Devil / State / 5. Kinaskan
Prepped till ~ 6 pm. Marie + Lydia at 4 pm
went to pull their line of 40 at State
& reset at Devil. I stayed w/
Schuyler, Amber, Randle to process
Pers. P. keeni from Devil + State -
also M. gapperi? Interesting to find
out which.

* I set a line of 20 Shermans across road ^{spruce - floating mats.}
Marie + Lydia brought back 3 Sorex ^{from park. (E)}
& 1 Myodes from afternoon check of their
lines at State + Devil. Will + my lines were
not checked.

Swim in Kinaskan, & cook fresh
trout in cornmeal (Aubrienne was given
by neighbor in Ru park). Cook blueberry
corn bread in dutch oven over fire. Process
shrews. To bed midnight. We rise early
to break camp & head south.

7
Aug

Up at 5:15 am. Beautiful sunrise over
lake.

MCC E. Kinaskan Line: - spruce, willow, moss
small ^($< 1m$) openings w/water

Tuco 121

Mustela erminea along rotten log in bog

MSB 033 57.52972 N 130.18234 W 841 m

no other captures

1/20 traps = 5%

Spruce bog - moss, rose, currants, Labrador tea,
willow, spruce

m. C. Campbell
Carriv
2013
33

7
7 Aug
collt
S. Kinasken / Slate / Perod

Slate mcl/jw B Line 2
Tuco 122 Myodes BK050 57.17023N 130.23465 ⁸⁰⁵m
~~delete 123~~
Tuco 124 myodes 035 57.17034N 130.23441 ⁸²⁷m
Tuco 125 Sorex ^{dead sh} 125 57.17039N 130.23419 ⁸³⁴m
Tuco 126 Sorex ^{dead sh} 126 57.17053N 130.23430 ⁸²⁸m

Devil mcl/jw B Line #1

Sorex 158 Myodes MJS1 57.08178N 130. ²⁶⁵²³ ~~68~~ 668m
Sorex 159 Myodes ^{dead in trap} 159 57.08181N 130.26527 ⁶⁶⁸m
Sorex 160 Myodes mSB 9 57.08198N 130.26544 ⁶⁶⁹m
Sorex 161 Myodes 273 57.08213N 130.26527 ⁶⁶⁹m
Sorex 162 Tamiasciurus ^{squirrel} 162 57.08218 130.26498 ⁶⁶⁹m
Sorex 163 " ^{squirrel} (163) 2 57.08160 130.26436 ⁶⁷¹m

+ 2 released Peromyscus

Sorex 164 3 Tamiasciurus ^{same tree} 57.08192 130.26469 ⁶⁷¹m
(1 not found)

S. Kincaid → Smithers

7 Aug

Picked up all traps on way out -
out of camp by 8 + done with traps
10:30. On road to Smithers.

end NK count
at 860
for summer.

Arrive Smithers 4:40 pm. Set up
camp in municipal campground.

Processed in prep tent till late. Final BC tally
for W-228 +
captures for SE crew.

8 Aug

Pulled up camp. Had to go into
Smithers Environment Office +
pay for BC permit - \$110, b/c check
on US dollars did not clear. Not on
road till 11:00 am. Stopped for lunch
at Beaumont Prov. Park / Fraser
Lake. Groceries/gas in Prince George. Spm
Stayed at Green Lake Prov. Park S.
100 mi. Home ~ 11 pm.

9 Aug

Circle Creek - back into sagebrush.
Heading S 97 to Hwy 1.

Left Green Lake Tam. Arrive
Blain WA Peace Bridge King ~ 3 pm.
Turns out agriculture station is
1 mi East at different crossing.
Art Enriques not here. Gave docs to customs
Crossed border heading south 4:45 pm.
Dropped Randle in Portland. Stayed
at Wyeth FS Camp, OK. - 11:30 pm.

10-11 Aug

Drove to Green River/moab then ABQ 3:30 pm
← ... →

3c

S. W. Kinsman

S. of Kinsman

Ball 2 Lodge

Bob Quinn Lake

Morice river

~~Sorex~~

Sorex

Myodes

Peromyscus

Microtus

Tamiasciurus

|||| = 12 (48)

|||| = 23 (39)

|||| = 30

|||| = 37

||| 3

|| 2

|||| 15

|||| 7

|||| 10

| 1

|||| = 7

2
= 149

19

5

82

42

228
228
580
332
228

Whitehorse

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