

2 [1. August. 2017]

Todd, Mary, Caley, Emily, and I are headed out to Tustumena Lake today.

At plot. 1989 at 09:58. At 1991 at 10:28. At 1994 at 11:38. That was tough!

At 1997 at 12:56.

At 1999 at 13:23. At 2054 at 14:35.

[2. August. 2017] Emily, Thomas and I

drive via Mystery Creek Rd. to work on more veg plots. At 998 at 10:01. At

997 at 10:33. At 995 at 11:27.

At 994 at 11:57. Took lunch. At

993 at 12:49. At 992 at 13:09.

At 990 at 13:36. At 989 at 14:02.

At 988 at 14:17. At 987 at 14:40.

3 [3. August. 2017]

Potential hit list for today:

985

986 < 984

983

982

981

980

587

589

991

996

Mary and I parked off
of Mystery Creek Rd.

at 10:35. At 985 at

10:48. At 986 at

11:13. At 984 at 11:47.

At 983 at 12:48.

Need to add 1% lichen.

At 982 at 13:20. At

981 at 13:33. At 980

at 14:03.

14. August 2017

Todd, Cole, Mary, Emily, Emma
Roch (visiting from OMB) put in
at Slack water at 09:15. At 2051 at
09:45. At 2049 at 10:30. At
2048 at 10:48. At a 1.746 creek
at 6027922'N 151.10088'W I
collected a snail from under a rock
→ BOLD-R24. At 2056 at 11:46.

17. August 2017

Cole and I hiked up Skyline
We were at 639 at 12:03.
At 616 at 12:43. Done with ~~227~~
642 at 13:30 or so. At a rock
outcrop at 6052888'N 150.16127'W
± 15m we found brittle tail
exuviae and brittle tails. One immature
I put in a life container vial (BOLD-179).
Did 578. At 630 at 15:00.
At 637 at 15:24.

⁶ / 16 August 2017

Cade and I drove out to Finger Lake Road to look for ostrich ferns where Kyra had seen them earlier. We found them at $60^{\circ}39'29''N$ $150^{\circ}53'47''W$ in a little stream below a beaver dam.

Further down the stream at $60^{\circ}39'31''N$ $150^{\circ}53'42''W$ we saw a small plant unfamiliar to me, which I photographed and collected.

7
1 Sept. 2017

Regarding Schoenoplectus, cut stem about 10" from the flowers.
3-4 air cavities \rightarrow S. tabernaemontani
7+ air chambers \rightarrow S. acutus

(9, Sept. 2017)

Left Lazy Mtn. Trail trail head
at 09:16. Made it to rocky alpine
at 61.61555°N 148.78149°W ± 8m
before 10:30. I quickly looked
around for bristle tails here but found
neither bristle tails nor exuviae.

It is beautiful up here! Have to
get back down fast to be at
Daniels on time.

(25, Sept. 2017)

Just before 11:00 I parked
off of ^{just SW}
of Beck Lake to check for a
portage route to the N/S Lakes
W. of Beck Lake. The pipeline
Road is good to the stream
S of these lakes. There is a
good, dry game trail ~~seen~~
immediately E of the stream.
I flagged it and counted
156 steps from the ^{road} to
the lake shore. I started to
walk to the pond to the S to
check for cloaca, but this
wetland is very wet and soft
right now.

At Stormy Lake boat launch
at 12:05.

Where I collected worms last
year at 60.78903°N $151.03233^{\circ}\text{W}$
 $\pm 9\text{m}$ there is no humus layer,
just coarse woody debris, new
leaves, and worm castings.

(frames 1701-1702). This is
under birch, cottonwood, alder,
devil's club, and cow parsnip
by the edge of the parking
lot. I took a soil sample
from the first 6 cm of
mineral soil. There was no
O horizon. \rightarrow 2017MLB100

The next site (frames 1706-1708)

at 60.78907°N $151.03310^{\circ}\text{W} \pm 4\text{m}$.

was under cottonwood, birch,
devil's club, *Calamagrostis*, and
cow parsnip. Again, sampled
first 6 cm: 2017MLB101.

The next site was at 60.78926°N

$151.03275^{\circ}\text{W} \pm 5\text{m}$ under alder,

birch, cottonwood, and devil's
club. frames 1713-1720,

sample 2017MLB102. There was
~~only about 1 cm of O horizon~~
~~here under the first leaf~~
~~litter. I collected two~~
~~samples here~~

At 60.79038°N, 151.03036°W

±4m, just beyond or at the
frontier of *Lumbricus* worms

Q had collected last year

There was only about 1cm of
O horizon here under fresh
litter. I collected two

samples here. 2017MLB103
includes surface of O down

to ~6cm; 2017MLB104 is
from bottom of O down ~
6cm, frames 1721-1727.

At 60.79186°N, 151.03191°W ±5m

under cottonwood, birch, and
alders. Here there was a thick,

2-3cm humus layer. I took
two samples: 2017MLB105 from

top of O down 6cm and
2017MLB106 from bottom of
O down 6cm. frames 1728-
1732.

At 60.79256° N, 151.03438° W ±
 5 m there was birch, cottonwood,
 alder, *Calamagrostis*, devil's club,
 and, nearby, spruce. Two samples
 here: 2017MB107 from top of
 O down and 2017MB108 from
 bottom of O down. O was
 about 2 cm. fauna 1733-1739.

(11. Oct. 2017)

I took a walk today and
 did a little collecting and poking
 about. At Headquarters Lake
 I looked at and sampled
 roots of *Pedicularis palustris*.
 These were small, but easy
 to find and taste. I found
 two more gale worms that
 may be nematodes (2017MB109)
 The smaller of these I placed
 in vial BOLD-202.

16 30, Oct. 2017

Seppu Lake - S lake

Hilda Lake - N lake

Talked with Carl Taurianen

17
[26. Dec. 2017]

In the afternoon I took a walk to the south end of Nordic Lake, where I deployed a Surber stream bottom sampler in an open part of the outlet stream.

I also looked for sausage galls on Salix pulchra, but I found none. I did pick up a couple of stem galls from Salix betulina.

On the east side of Nordic Lake there was an area where most mature white spruce were dying from spruce bark beetles.

19th Jan. 2018/

At Kauribof Beach. I took
several photographs of a birch
& had collected seeds from earlier.
(frames 0537-0550). GPS
averaged here (waypoint 10),
averaged over 3 min.
60.39008°N 151.29492°W ± 1m

I also photographed the other tree
& had taken seeds from
(frames 0551-0562) GPS
averaged over 3 1/2 minutes:
60.39096°N 151.29306°W ± 1m
(waypoint 11)

19

I collected more birch seed
from another individual
nearer the beach. This was at
60.39126°N 151.29514°W ± 1m
(averaged over 8 minutes,
waypoint 12). photo frames
563-582).

13 Jan. 2018

Collecting birch seeds around
Hoodquarters. At inst 7426011,

Betula neoalaskana?, at back of
lawn. GPS averaged location:

60.46454°N 151.07355°W ± 1m

(waypoint 13). I collected seeds
from this tree.

Next at Betula neoalaskana

inst 6153789 at start of Ken
Eyre Trail. I collected seed from
this one. GPS averaged location:

60.46468°N 151.07229°W ± 1m

I collected seed from this tree.

Later I drove down K Beach
and stopped at Katman to collect
seeds at Betula pennica
individual inst 7421409.

GPS averaged coordinates:

60.44847°N 151.28166°W ± 1m

(waypoint 15).

Next at Sheridan's property off
at Freeway Lane, Betula
pennica individual inst
6821393. GPS averaged

coordinates: 60.39750°N

151.29474°W ± 1m

At our property I collected seeds from the birch at the corner of our horse pens nearest to the high tunnels. GPS averaged coordinates:

60.36321°N 151.27013°W IANA.

↳ *inatalis* 9359677

(4. Jan. 2018)

Min Wang replied to me that he needs 5cm length, 0.5-1cm diameter twigs for ITS sequencing.

At *Betula* *inatalis* 7426011 at back lawn by lynx trail. I took twig sections from this tree.

At *Betula* *neolabrum* *inatalis* 6153787 at head of Keen Eye Trail. I took a twig sample from this tree.