Ryan Barber

Canada/Alaskan Trip 2014

Jun 22 – July 22

June 22, 2014

- Arrive at Questa circa 1:57 pm which is NW of Taos approx. 26 miles away. Accompanied w/ Joe Cook, Will and Nathanel, Hannah, Moses and Morel Campbell
- Campsite at Lake Cabresto west of lake
- Setup traps around 3 pm in four separate groups (Me paired with Moses Narsevski)
  - → 55 Sherman traps were set
  - → 55 mouse traps set (Each with wet bait)
- Camp tents setup afterwards

Locality: USA: New Mexico: Taos Co; 5 km N, 12 km E of Questa

June 23, 2014

- 6:45 am set out to ~~cap~~ check on traps
  - Pero 007 June 1 (Peromyscus) Trap
    N 36.73484°
    W 105.49949
    Error: 2598 m
  - Pero 008 (Peromyscus) Trap
    N 36.73444°
    W 105.49968°
    Er: 2619 m
  - Pero 009 Peromyscus Trap
    N 36.73438°
    W 105.49963
    Er: 2621 m
  - Pero 010 Sherman
    N 36.73443
    W 105.49992
    Er: 2629 m

Ryan Barber

June 23 2014

venture out
3:23 pm

Pero 012 (sherman)
Er: 2605m
N 36.73465°
W 105.49477°

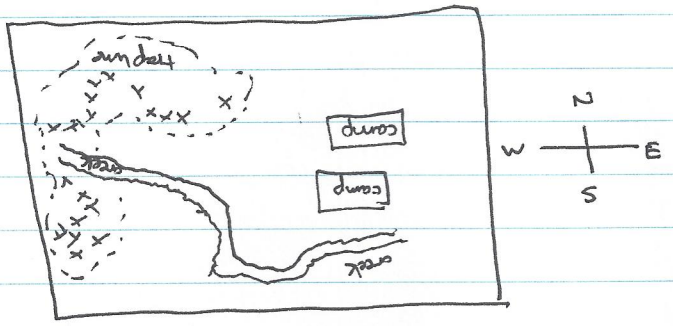
Pero 013 (sherman)
Er: 2633m
N 36.73434°
W 105.49994°

Near Challis, Idaho — June 26 2014

Locality: 16 km SW of Challis, Little Bayhorse lake

8:15 am → Ventured out to check on trapline

Traps out June 25–26!



- No species were captured for sherman traps or snaptraps.
- Possibility that we may re-bait since Joe Cook asked that we unset the snap traps so that the birds wn't set off and eat the baits.
- However other crewmates (Eric Hoeberg, Joe Cook, and Marel Campbell) had captured small mammals on their trapline.

Traps Out June 25 - 26

MLC Line 1 : 80 (40 shermans, 40 snaps)

JAC Line 1 70 (Snaps)

EPH Line 1 98 (48 sherman, 50 snaps)

JWB/HCG Line 1 75 (40 sherman, 35 snaps)

RLB/MCW Line 1 99 (49 sherman, 50 snaps)

522 traps

Ryan Barber

Locality: 16 km SW Challis Idaho: Custer Co
Little Bayhouse lake

June 26, 2014

Eric H. Trapline Captures:
- 1 species (Microtus)

Marel Campbell Trapline Captures:
- 5 species (5)
  - (2 chipmunks) Tamias
  - (1 microtus)
  - (2 peromyscus)

Joe Cook Trapline Captures
- 4 species
  - 1 Zapus
  - 1 sorex palustris
  - 1 microtus
  - 1 Peromyscus

Will Brant → 3 squirrels (Spermophilis)

Vegetation:
- marshes, willow shrubs, grass, forbs, flowers edges of spruces
- talus slopes → lupine, sunflower
- understory → lodgepine seedlings, grand juniper, blueberry, lupine.
- Canapy → lodge pole spruces.

10:15 am → prepping 10 mammal guts and tissue cryotube sampling.
- Parasite crew expect the best in the mammals collected today.

11:25 am

- NK 260040 ♂ (Tamias)
  - 2 Nematodes in [ceaum] ceaum
- NK 260043 ♂ (Tamias)
  - No parasites seen!
- NK 260044 ♂ (Tamias)
  - 2 hymenolped (2 scolex) in [SI]

Ryan Barber

June 26 2014

Tamias ♂ (NK 260044) cont'd:
- 2 cestodes in cecum (w/ scolex)
- 1 Nematodes in cecum

Tamias ♂ (NK 260046)
- No cestodes were recorded
- No cysts were cited

Tamias ♂ (NK 260047)
- No cestodes/nematodes found in GI tract

For all crew traplines

7:13 pm → Rebait all snap traps and look for possible catches in sherman traps

Want w/ Moses Nagurski

- Hannah is totally SKILLED at skinning small mammals → She is so gifted! #surreal
- Eric Hoeberg introduced a technique on sampling cestodes in prepping into cryo-tubes
  → (placed cestode into Normal bath H_2O then place cestode into extreme Hot bath for no more than 5 seconds. Finally sit cestode into 95% EtOH to allow straightness in cestodes). Possible technique for Alaska!

8:41 pm

→ RLB/MCN Trapline #1 → with Moses Nagurski

Captures: 1 capture! 6/26/14

Tuco 022 (sherman) Chipmunk (Tamias)

N 44.41634°

W 114.38750°

Error: 25.66m

This was caught at sherman trap # 48. near a fallen cottonwood tree that is housing

Ryan Barber

cont'd

26 June 2014

- 3 other snaptraps which have been accounted for and rebaited. This shaman trap was replaced with another shaman and rebaited.
  - → Used a different GPS marked waypt handheld → Tuco GPS!

Locality: 16 km SW Challis, Idaho: Custer Co; Little Bayhorse Lake.

27 June 2014

7:47 am

- Venture out to get and possibly rebait all snaptraps and shaman if any small mammals had been captured ~~in~~.
- No animals were seen in either traps, so all traps were brought in. May choose another trapline spot/location

11:39 am Prep Table/Guts searching for parasites

- NK 260060 (Zapus)
  - 2 nematodes in cecum
- NK 260069 (Tamias)
  - 2 nematodes from ceum
    - ↳ 1 was placed inside a cryotube to be frozen.
- NK 260073 (Tamias)
  - 1 Tapeworm (cestode) found in SI tract w/ a scalex.

Note :

→ NK 260073 was placed into 70% EtOH large petri dish to help fixate and straighten out the cestode. Then determine if it should be placed into SV.

Ryan Barber

27
~~26~~ June 2014

cont'd

- NK 260073 (Tamias) ♀
  - 3 nematodes (oxyuridae) found in the ceacum (pin worm)
    - ↳ 1 placed into cryotube for N_2.
- NK 260074 (Tamias) ♀
  - 3 Nematodes in SI
    - ↳ 1 placed in cryotube for N_2
  - 1 Nematode in cecum (oxyuridae) (pin worms)
    - ↳ oxyuridae!
- NK 260075 (Tamias) ♂
  - 5 nematodes in cecum (oxyuridae) pinworms
    - ↳ 1 placed in cryotubes.
- NK 260077 Spermophilus (ground sq.) ♀
  - 1 Nematode from SI (Ascarids)
    - ↳ cut segmented piece and will freeze w/ cryo-tube N_2.

→ 8:14 am trap venture

29 June 2014

Tuco 036 Peromyscus maniculatus (snap trap)
N 45.42083° Er: 2140 m
W 112.88556°

Tuco 037 Pero. maniculatus sherman
N 45.42049° Er: 2142 m
W 112.88557°

Tuco 038 Sherman (Pero man) Zapus at 1st
N 45.42056 Er: 2141 m
W 112.88554

Locality:

In Montana, N. of Dillon!

Traps out June 28 - 29

- MLC/RLB Lme 2: ~~100~~ 103 (50 shermans, 53 snap traps)
- B /T Lme 2: 100 (50 shermans, 50 snap traps)
- NLB/B Lme 2: 100 (50 shermans, 50 snap traps)

Total traps = 303 traps

Locality:

Note: → Used Tuco GPS handheld!

In Montana, N. of Dillon!

Traps out June 28 - 29

- MLC/RLB Line 2: ~~100~~ 103 (50 shermans, 53 snap traps)
- B/T Line 2: 100 (50 shermans, 50 snap traps)
- NLB/B Line 2: 100 (50 shermans, 50 snap traps)

Total traps = 303 traps

Locality:

Note: → Used Tuco GPS handheld!

Ryan Barber

MLC/RLB Line 2
upfacing slope in sagebrush

29 June 2014

Tuco 039 P. maniculatus (sherman)
N 45.42093 Er: 2147m
W 112.88563

Tuco 040 P. maniculatus (sherman)
N 45.42112°
W 112.88590° Er: 2154m

Tuco 041 Juvenile P. maniculatus (snap trap)
N 45.42218°
W 112.88554 Er: 2191m

Tuco 042 P. maniculatus (snap trap)
N 45.42219° Er: 2192m
W 112.88555°

Tuco 043 P. maniculatus (snap traps)
N 45.42253° Er: 2209m
W 112.88544°

Total → 8 P. maniculatus
1 Zapus (escaped)

→ Woke up at 7:37am and ventured out 8:14am to check on traps and 8 Peromyscus maniculatus were caught (4 in snaps, 4 in shermans). Our Location is in Montana; North of Dillon (Clear, high 40 - low 50's w/ No rain)

Locality → USA, MT, Beaverhead Co; Beaverhead-Deerlodge Nat. Forest, 2km N Tower Mtn

→ May have to reset snap traps later this evening and a rebait as well for snap traps and shermans.

Ryan Barber

Prep Table work log

29 June 2014

- NK ~~260067~~ 260092 Sorex palustrius ♂
  - Cestodes in SI placed in (SV) w/ SI contents
  - 1 cestode in cecum placed in (dv)
- NK ~~260097~~ 260096 Zapus
  - Negative
- NK 260095 Zapus ♀
  - Negative
- NK 260097 Zapus ♀
  - 2 cysts in liver and inner muscle tissue → freeze in cryotube
  - No other endoparasites
- NK 260098 Zapus ♂
  - 3 cysts (subcutaneous) on liver
  - no other endoparasites
- NK 260101 Zapus ♀
  - 2 subcutaneous cysts on tissue
    - ↳ will be placed in N_2 cryotube
  - no other endoparasites
- NK 260106 Spermophilus ♀
  - 5 oxyurides (pinworms) in cecum
    - ↳ 1 will be placed into N_2 cryotube
- NK 260109 Urocitellus ♀
  - Negative
- NK 260108 Zapus ♂
  - Negative
- NK 260104 Zapus ♀
  - 2 subcutaneous cysts in tissue
    - ↳ 2 place in N_2 cryotube.

Ryan Barber

29 June 2014

prep table, cont'd:

- NK 260123 Spermophilus ♀
  - Negative

30 June 2014

8:11am → woke up and had to get ready for today's animal prepping. At least 13 animals will be prepped today. Hopefully some nematode and cestode will be recorded today. Today may be last day at this campsite (Thief Idaho, Montana).

Prep table results: (9:16am)

- NK 260133 ♂ Microtus
  - cestode (1) with scolex (very short)
    - ↳ piece will cryo-tubed in N_2
- NK 260135 ♂ Zapus
  - Negative
- NK 260136 ♀ Zapus
  - Negative
- NK 260134 ♂ Zapus
  - Negative
- NK 260142 ♂ Zapus (Negative)

10:01pm → left Thief creek around 1:13pm, ventured out to setup new camp out of Missoula (precisely 36 miles south of Missoula). Will hit missoula tomorrow morning to retrieve the Grad students passports.

Whitehorse, Yukon (Canada)

6 July 2014 → 160 squirrels (Urocitellus)

Ryan Barber

Whitehorse, Yukon (Canada) 6 July 2014

7:52 am Prep time

→ Made it to Whitehorse, Yukon Territory to meet Joe from Biological center to retrieve some frozen squirrel species that we will pull tissues from and check for endo-parasites. A total of 160 ground squirrels have been given to us for research use.

(Frozen squirrels)

NK 260151 (Urocitellus parvii)
- Negative (No parasites in GI tract)

NK 260155 (Urocitellus)
- Negative in GI tract

NK 260160 (urocitellus)
- Negative in GI tract

NK 260164 (urocitellus)
- Negative in GI tract

NK 260167 (urocitellus)
- Negative in GI tract

NK 260169 (urocitellus)
- 3 cestodes in SI
  ↳ 1 cryofreezed in N_2 w/ 70% etoh.
  → SI contents stored w/ more possible cestodes

NK 260181 (urocitellus)
- 1 cestode in SI
  ↳ will segment, cut to N_2 freeze in N_2

NK 260189 (~~urocitellus~~) (Tamias)
- Negative in GI tract

Ryan Barber

6 July 2014

prepmg cont'd...

NK 260175 (Urocitellus)
- negative in GI tract

NK 260187 (urocitellus)
- negative in GI tract

NK 260179 (urocitellus)
- negative in GI tract

NK 260213 (urocitellus)
- negative in GI tract

NK 260218 (urocitellus)
- negative in GI tract

NK 260230 (urocitellus)
- negative in GI tract

NK 260232 (urocitellus)
- cestode (1 segmented broken) on ceum (2)
  ↳ piece will be N_2 cryotubed.

NK 260224 (urocitellus)
- cestode (1) from SI
  ↳ piece will be N_2 frozen in 70% etoh

NK 260236 (urocitellus)
- cestode on SI/ceum surface (2)
  ↳ piece will be N_2 cryotubed
- Nematode on heart surface (place in dram vial).

NK 260229 (urocitellus)
- cestode in SI (1)
  ↳ piece will be N_2 cryotubed

NK 260244 (urocitellus)
- Negative in GI tract

NK 26043 (urocitellus) ♀
- Cestode in SI (segment cut will be N_2 cryotube frozen)

Ryan L. Barber

Whitehorse, Yukon (Canada) 6 July 2014

11:07 pm

→ Skinned my first Urocitellus rat. (Ground squirrel) today. Was hard at first but I did pretty well for first time squirrel skinner. Today we accomplished alot. We pulled tissues from 100 squirrels and managed to do endoparasite examining for 27 squirrels. 7 squirrels had endoparasites which were mainly cestodes (particularly taenia pisiformis and hymenolepodeas). The rest had no parasites in the GI tract. Tomorrow will be more prepping on a hundred more squirrels.

8:00am (Prep Table time) 7 July 2014

- Several squirrels will be done considered the extra 20 squirrels that had brought yesterday evening before 10 pm. We'll at least try to hit a major quota today. Hopefully.

NK 260250 (Microtus) ♀

- small cestodes SI contents in (SV) w/ 70% etoh

NK 260251 (urocitellus)

- 2 small cestodes w/ scolexes will be placed in dv 70% etoh
  - → 1 will be placed into N_2 cryotubed.

Ryan Barber

7 July 2014

prepmg cont'd....

- NK 260249
  - Negative in GI tract
- NK 260265 (Urocitellus)
  - Negative in GI tract
- NK 260318 (urocitellus)
  - Negative in GI tract
- NK 260269 (urocitellus)
  - Negative in GI tract
- NK 260282 (urocitellus parryi)
  - Negative in GI tract
- NK 260287 (urocitellus parryi) ♂
  - small cestodes in SI w/ one scolex, probably will not freeze sample.
- NK 260298 (Urocitellus parryi) ♀
  - Negative in GI tract
- NK 260300 (Urocitellus parryi)
  - cestodes in SI tract w/ no scolex found
    - ↳ piece will cut in ½ and be N_2 cryotube frozen.
- NK 260256 (Urocitellus parryi)
  - Negative in GI tract
- NK 260317 (Squirrel)
  - Negative in GI tract
- NK 260319 (Urocitellus parryi)
  - Negative in GI tract
- NK 260318 (Urocitellus parryi)
  - Negative in GI tract
- NK 260290 (U. parryi)
  - Negative in GI tract

Ryan Barber

7 July 2014

prepping cont'd...

- NK 260316 (Urocitellus parryi) ♀
  - 1 ascarid from SI tract (easily found (1 accounted for) while cutting SI). 70% (5V)
  - 8 ascarids from stomach (8 accounted for)
    - ↳ (1 will be placed N_2 cryo-tube to be frozen).

11:09 pm

Finished prepping and I managed to retrieve an ascarids from tree squirrel, mainly in the SI (small intestine and) the stomach. The stomach had alot of ascarids, at least about 8 nematodes, and only one in the SI tract of NK 260316 host. Skinned at least one squirrel today, I still can't managed to get this protocol on hand very well but more practice should get me there to a substantial graduate level like Bryan and Donovan. Tomorrow most likely we will setup a shrew (sorex sp.) trapline for Dr. Stone the Ph.d parasitologist who will assist and guide me for the next few weeks in the Northern ~~Atas~~ Yukon Territory. Hopefully we should see a prevalence of parasites as we go higher in latitude and elevation for the rest of the Field expedition. We will see how tomorrow should turn out on the trapline set.

Parasitologists:

Stephen Greimen Ph.d

↳ Univ. of N. Dakota

8 July 2014

Host: Urocitellus parryii

Stere's Prep log:

NK 260326 ♂ → negative

NK 260321 ♀ → 8 cestodes in SI
70% etch (sv)

NK 260322 ♂ → negative

NK 260314 ♂ → negative

NK 260344 (Myotis) → nematodes
Ascands in stomach 80% (sv)

NK 260343 (Myotis) → cestodes SI 70% (sv)

NK 360340 (U. parryii) → negative

NK 360347 (U. parryii) → negative

NK 360355 (U. parryii) ♂ → negative

NK 360345 (U. parryii) → negative

Ryan Barber

8 July 2014

8:05am Prepping Time ... Again

NK 260320 (Urocitellus parryii) ♂
- Negature in GI tract

NK 260329 (Urocitellus parryii) ♂
- Negature in GI tract

NK 260323 (Urocitellus parryii) ♀
- 2 cestodes w/ scolex in SI tract
  ↳ segment cut will be cryotubed N_2 frozen.

NK 260342 (Microtus) ♀
- Negative in GI tract

NK 260341 (Urocitellus parryii) ♂
- Negative in GI tract

NK 260336 (Urocitellus parryii) ♂
- Negative in GI tract

NK 260361 (Rabbit) ♀
- Negature in GI tract

NK 260367 (Urocitellus parryii) ♀
- Negature in GI tract

NK 260364 (Urocitellus parryii)
- Negature in GI tract

NK 260369 (Urocitellus parryii) ♂
- Cestode in SI (vast amount in SI tract) w/ 70% etoh (sv), scolices present
  ↳ will be cryo frozen N_2
- Cestode in stomach (vast amount) w/ 70% etoh (sv), scolices present
- cestode in cecum (vast amount) w/ 70% etoh (sv), scolices present

Steve Prep table log:

Ryan Barber

8 July 2014

prepping cont'd.....

NK 260379 (Urocitellus parryii)

- Negative in GI tract

NK 260365 (Urocitellus parryii)

- Negative in GI tract

Setting a sorex trapline

4:54 pm

- Setting up a trapline in the wetlands area of ~~Yuk~~ Whitehorse, Yukon Territory. (NW of Whitehorse). It will be Steve (the parasitologist), Bryan and me (Ryan). We will be setting up pitfalls, shermans, and snaptraps.

→ on Fish Lake Rd → site 3/4 mile west away from Alaska Hwy

~~10:22~~ 9:22 pm Prep table cont'd

NK 260387 (Tamias)

- Negative in GI tract

Results → Report: 8 July 2014

→ Total 23 hosts examined, 5 hosts had endoparasites in GI tract. Total endoparasite count of 42 endoparasites. Consist of cestodes and few nematodes by Steve (the parasitologists).

Prep Table Time 8:55pm 9 July 2014

NK 260390 (Urocitellus Parryii)

- Negative in GI tract

NK 260391 (Microtus) ♂

- Negative in GI tract

NK 260392 (Peromyscus maniculatus) ♀

- Negative in GI tract

Ryan Barber

9 July 2014

Prepping cont'd....

NK 260393 (Urocitellus parryii) ♀
- Negative in GI tract

NK 260394 (Urocitellus parryii)
- cestodes in SI tract (digeaneas)
possible longistrata? in 70% etoh (sv)

NK 260395 (Urocitellus parryii) ♂
- Negative in GI tract

NK 260398 (Urocitellus parryii) ♀
- Negative in GI tract

NK 260400 (Urocitellus parryii) ♂
- Negative in GI tract

NK 260402 (Urocitellus parryii) ♀
- Negative in GI tract

NK 260404 (Urocitellus parryii)
- cestode in SI tract in 70% etoh (sv)

NK 260421 (Urocitellus parryii) ♂
- Negative in GI tract

NK 260426 (Urocitellus parryii)
- cestodes w/ scolices in SI tract w/ 70% etoh (sv)

NK 260427 (Urocitellus parryii)
- cestodes w/ scolices of SI w/ 70% etoh (sv).

NK 260432 (Urocitellus parryii)
- Negative in GI tract

NK 260433 (Urocitellus parryii) ♂
- Negative in GI tract

NK 260435 (Urocitellus parryii)
- cestodes w/ scolex in SI tract w/ 70% (sv)

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9 July 2014

proppmg cont'd....

NK 260436 (Urocitellus parryii) ♂
- Negative in GI tract

NK 260388 (Sorex)
- cestodes (digeneans langistrata?) in SI tract $\boxed{A_1}$ $\boxed{A_2}$ → different locations, placed in 2 dv.

NK 260389 (Sorex)
- cestodes in SI tract / contants in 70% etoh (dv).

NK 260448 (Urocitellus parryii) ♀
- Negative in GI tract

NK 260452 (Sorex)
- cestodes in SI tract (digeneans?) 70% etoh (dv)

NK 260453 (Sorex)
- Many cestodes in SI w/ 70% etoh (dv).

→ Total hosts of 22 w/ 10 hosts that had endoparasites (consisting of cestodes: digeneans/hymenolpodia).

10 July 2014

9:30 am Proppmg Lab time

NK 260~~426~~ 62 (Zapus)
- Negative in GI tract

NK 260464 (Microtus)
- Negative in GI tract

NK 260466 (Urocitellus parryii)
- Negative in GI tract

Ryan Barber

10 July 2014

Prepping cont'd....

NK 260474 (Urocitellus parryii)
- cestodes in SI tract w/ scolices in 70% etoh (sv)
  ↳ will freeze 1 in N_2 cryotubed

NK 260487 (Urocitellus parryii)
- cestodes in SI w/ scolices in 70% etoh (sv).
- cestodes in stomach w/ scolices in 70% etoh (sv).

NK 260460 (Eremin)
- Negative in GI tract

NK 260461 (Peromyscus maniculatus) → Steve did this
- Negative in GI tract

NK 260463 (Synaptomys) ♀
- Negative in GI tract

NK 260499 (Urocitellus parryii)
- Negative in GI tract

NK 260459 (Sorex)
- Cestode in SI tract w/ scolices in 70% etoh (dv) (2 Limnolepis)

NK 260458 (Sorex)
- cestode in SI tract w/ some digeneans in 70% etoh (dv)

NK 260457 (Sorex
- cestodes in SI tract w/ 70% etoh (dv)
- digeneans in SI ↳ same vial

NK 260456 (Sorex)
- cestode (few) in SI tract in 70% (dv)

Trapline
RLB/~~RB~~SM 50 Sherman's
4250 snap traps

#18 Bird m Snap
N 63.504932°
W 137.03522°

#27 Pero 051 sorex
N 63.50449° Error : 456
W 137.03427°

Trapline
RLB/RBSM 50 Sherman's
4250 snap traps

#18 Bird m Snap
N 63.504932°
W 137.03522°

#27 Pero 051 sorex
N 63.50449° Error : 456
W 137.03427°

Ryan Barber

10 July 2014

prepping cont'd.....

NK 260455 (Sorex)

- few cestodes in SI tract w/ 70% etoh (dv)
- longistrata

NK 260454 (Sorex)

- many cestodes in SI tract w/ 70% etoh (dv)
- few digeneans
- longistrata (nematoda)

New Location!

12 July 2014

Trapline Data RLB/BSM

Sorex 001 (shemon) BR 1
Peromyscus maniculatus Pero 049
N 63.5034° Error: 461m
W 137.03706

Sorex 002 (~~snap~~ shemon) BR 15
Peromyscus maniculatus Pero 050
N 63.50484° Error: 457m
W 137.0532°

Sorex 003 (shemon) BR 27
Peromyscus Pero 051
N 63.50449 Error: 456m
W 137.03427

Synaptomys borealis (snap) ~~Sorex 004~~ (Sorex 004) BR 30
Pero 052
N 63.50462° Error: 456m
W 137.03456°

Sorex 005 (snap) BR 45 Pero 053
Peromyscus N 63.50521 Error: 457m
W 137.03622°

Ryan Barber

12 July 2014

~~prep~~ Trapline crap!

Sorex 006 48

Peromyscus Pero 054

N 63.50530° Error: 45m

W 137.0364°

Prepping / Lab time

NK ~~260545~~ 260543 (Lemmus)

- cestode in SI tract w/ scolex in 70% etch (slv).
- cestodes (2) in cecum (wide flat ones) w/ 70% etch (sv).

NK 260548

- Negative in GI tract

NK 260546 (Myodes rutilus)

- Negative in GI tract

NK 260554 (Vole)

- Negative in GI tract

NK 260543 (Myodes rut) ♂

- Negative in GI tract

NK 260556 (Vole) (Myodes rutilus)

- cestode in SI w/ scolex in 70% etch (dv).

NK 260563 (Urocitellus parryii)

- Negative in GI tract

NK 260565 (Squirrel)

- Negative in GI tract

NK 260547 (Myodes rutilus)

- Negative in GI tract

NK 260558 (Peromyscus maniculatus

- Negative in GI tract

Ryan Barber

12 July 2014

prepping cont'd....

NK 260560 (Myodes rutilus)
- Negative in GI tract

NK 260562 (Myodes rutilus)
- Negative in GI tract

NK 260564 (Tamiasciurus hudsonicus)
- Negative in GI tract

NK 260566 (Peromyscus maniculatus)
- Negative in GI tract

NK 260568 (Myodes rutilus)
- Negative in GI tract

NK 260569 (squirrel)
- 1 red nematode in SI w/ 70% etoh (dv)

NK 260572 (Tamias) → (Spermophilus parryii)
- Negative in GI tract

NK 260573 (Peromyscus maniculatus)
- Negative in GI tract

NK 260575 (Sorex)
- Negative in GI tract

NK 260510 (Peromyscus maniculatus)
- Nematode in SI w/ 70% etoh (dv) (2)

NK 260571 (Peromyscus maniculatus)
- Nematode in SI tract w/ 70% etoh (dv) → 3 contd.

NK 260576 (Sorex)
- Cestode w/ scolex in SI tract in 70% etoh

Ryan Barber

12 July 2014

prepping cont'd...

NK 260579 (Myodes rutilus)

- cestode cysts in SI tract w/ 70% etch (dv).

Locality: Moose Creek campground

7:44 am

13 July 2014

Tuco 075 (Peromyscus)

N 63.50536° Error: 457m

W 137.03711

Tuco 076 (Lemming)

N 63.50498° Error: 456m

W 137.03577

Tuco 077 (Peromyscus)

N 63.50446° Error: 458m

W 137.03415°

Tuco 078 (Myodes rutilus)

N 63.50512° Error: 458m

W 137.03584°

Tuco 079 (Tamiasciurus)

N 63.50586° Error: 470m

W 137.03494°

Tuco 080 (Tamiasciurus)

N 63.50585° Error: 472m

W 137.03444°

Tuco 081 (Tamias)

N 63.50659 Error: 472m

W 137.03391

Ryan Barber

Lab Prepping Table

13 July 2014

NK 260604
- Negative in GI tract

NK 260606
- cestode in SI tract w/ scolex in 70% etoh (dv)

NK 260607
- Negative in GI tract

NK 260601
- cestode in SI tract w/ scolex in 70% etoh (sv)

NK 260603
- cestodes in SI tract w/ scolices in 70% etoh (3) (dv).

NK 260622
- Negative in GI tract

NK 260624 (Tamiasciurus hudsoni)
- Nematode in SI tract in 70% etoh (dv)

NK 260602
- Negative in GI tract

NK 260625 (Tamiasciurus hudsoni)
- Negative in GI tract

NK 260637 (Myodes rutilus)
- Negative in GI tract

Ryan Barber

Red river creek!

7:00am Trapline Results — 15 July 2014

- All traps were empty, no mammals were caught.

9:00am Lab prepping time

NK 260641 (Urocitellus parryii)
- Negative in GI tract

NK 260665 (Myodes rutilus)
- Negative in GI tract

NK 260668 (Myodes rutilus)
- Negative in GI tract

NK 260673 (Myodes rutilus)
- Negative in GI tract

NK 260666 (Myodes rutilus)
- Negative in GI tract

NK 260684 (Urocitellus parryii)
- Negative in GI tract

NK 260685 (Urocitellus parryii)
- Negative in GI tract

NK 260689 (Tamiasciurus hudsonii)
- Negative in GI tract

NK 260690 (Tamiasciurus hudsonii)
- Negative in GI tract

NK

8:19 am — 16 July 2014

- All trapline at Red River creek were pulled. Going to venture out North to Inuvuk near Arctic Ocean after done w/ prepping for specimens caught today

Lab prep Table Time

NK 260703 (Myodes rutilus)
- Negative in GI tract

Ryan Barber

stephen's log 16 July 2014

NK 260711 Negative in GI tract

NK 260712 Negative in GI tract

NK 260715 Negative in GI tract

18 July 2014

→ Caught specimens just 5 mi South of Engineer creek campground

J/W/R → 6 animals all voles

S/D/B → 21 animals

- shrews
- voles (microtus + myodes)

18 July 2014 12:12 pm

→ Drove up down south until we saw a rock piled mound where we decided to setup prep tent so that we may prep today animals that were caught this morning. Locality for this is few miles NW of Pere Tombstomb lookout of Yukon Territory.

Ryan Barbar

16 July 2014

NK 260702
- Negative in GI tract

NK 260706
- Negative in GI tract

Lab prepping time 12:38pm 18 July 2014

NK 260731 (Urocitellus parryii)
- 5 nematodes in Small Intestine that one will be cryotubed N_2, 70% (dv)

NK 260732 (Myodes rutilus)
- Negative in GI tract

NK 260737 (Sylvilagus Lepus)
- Negative in GI tract

NK 260734 (Myodes rutilus)
- Negative in GI tract

NK 260735 (Myodes rutilus)
- Nematode in SI in 70% etoh (dv)

NK 260736 (Myodes rutilus)
- Cestode w/ scolex in SI w/ 70% etoh (dv)

NK 260738 (Tamasciurus hudsoni)
- Negative in GI tract

NK 260739 (Microtus Pennsylvanicus)
- Cestode w/ scolex in SI w/ 70% etoh (sv)

NK 260740 (Myodes rutilus)
- Negative in GI tract

NK 260741 (Microtus pennsylvanicus)
- Cestode w/ scolex in SI in 70% etoh (sv)

7:40am Trapline Results 19 July 2014

5 shrews

8 voles

13 animals Total

S/R/D

Trapline D/R/S

50 shermans

50 rat snaps

~~100~~ 50 mouse snaps

50 pitfalls

200 traps total

13
+1
14

Ryan Barber

18 July 2014

NK 260744 (Myodes rutilus)
- Negative in GI tract

NK 260755 (Mustela) Weasel.
- Negative in SI tract

19 July 2014

Lab prepping time 9:00am

NK 260772 Myodes rutilus
- Nematode in SI w/ 70% etch in (dv)

NK 260773 Myodes rutilus
- Negative in GI tract

NK 260774 Myodes rutilus
- Negative in GI tract

NK 260775 Myodes rutilus
- Negative in GI tract

NK 260779 Myodes rutilus
- Cestode w/ scolex in SI w/ 70% etch (dv)

NK ~~260778~~ 260782 Myodes rutilus
- 2 fat wide cestodes w/ scolex in SI w/ 70% etch (dv).

NK 260778 Myodes rutilus
- Negative in GI tract

NK 260783 Myodes rutilus
- Negative in GI tract

NK 260785 Myodes rutilus
- cestode w/ scolex in SI w/ 70% etch (dv)

NK 260784 Myodes rutilus
- Negative in GI tract

Ryan Barber

19 July 2014

NK 260766 Myodes rutilus
- Negature in GI tract

NK 260777 Myodes rutilus
- Negature in GI tract

NK 260789 (Microtus p.)
- Negature in GI tract

NK 260787 Myodes rutilus
- Negature in GI tract

NK 260793 Myodes rutilus
- Nematodes (oxyuridae) in cecum in 70% etoh (dv) 11 accounted for.

NK 260794 Myodes rutilus
- Negature in GI tract

NK 260807 (Myodes rutilus)
- Negative

NK 260808 (Myodes rutilus)
- Negative

NK 260809 (Myodes rutilus)
- Negative

NK 260810
- Negative

NK 260811
- Negative

NK 260813
- 4 pinworms in ceum (nematodes) in 70% etoh (dv)

NK 260818 (Myodes rutilus)

–

Ryan Barber

Lab table Prep table time 9/13/14

Locality: USA, NM: Catron Co., Gila NF, .16 km NW Confluence Willow Creek/Little Turkey Creek.

1:29 pm → Gathered w/ fellow grad students recognized professors and undergrad students of UNM. Undergrads are skinning from Mammology course. Meanwhile I'm different doing parasite tracking within the GI tract.

✓ NK 256640 (Eptesticus)
- Negative in GI tract

✓ NK 256641
- Nematode (Pin worms) in the cecum. (3)

✓ NK 256644
- Negative in GI tract

✓ NK 256645
- Negative in GI tract

✓ NK 256648
- Negative in GI tract

✓ NK 256649
- Negative in GI tract

✓ NK 256650
- Negative in GI tract

✓ NK 256653
- Negative in GI tract

✓ NK 256660
- Negative in GI tract

Drop table cont'd ... 9/13/14

√ NK 256657
- Negative in GI tract

√ NK 256662
- Nematode (pin worm) in cecum (1) / not found
in dv w/ 70% etoh.

√ NK 256667 (Vole → Microtus)
- White caciated material in a sac of the Urinary bladder (Examined)

√ NK 256664
- Nematode (pin worms) in cecum in dv w/ 70% etoh (6)

√ NK 256669
- Negative in GI tract

√ NK 256673
- Negative in GI tract

√ NK 256654
- Negative in GI tract

√ NK 256652
- Cestode w/ scolex in the cecum in sv w/ 70% etoh (1), post. proglottid (12 mm) N_2 cryo (f2)

√ NK 256689
- Negative in GI tract

√ NK 256678
- Cestode (1) in SI tract w/ scolex in 70% etoh (sv) + 70% etoh cryo N_2
- Cestode (1) in cecum w/ no scolex in 70% etoh (sv).

√ NK 256790
- Negative in GI tract

Prelab table time 9/14/14

8:55pm

√ NK 256839

- Negative in GI tract

√ NK 256833

- Negative in GI tract

√ NK 256834

- Negative in GI tract

√ NK 256840

- Negative in GI tract

√ NK 256836 (Nectoma)

- Negative in GI tract

NK 256844 (

- Nematode in SI tract in 70% etch (dv).

√ NK 256838

- Negative in GI tract

√ NK 256837

-

3 miles outside of Silver City
in cabin NE →

Trapline TC, RB, RLB

40 Shemanos
38 M. specials
18 rat traps

Total: 96 traps

9/27/14

7:14 am Check on traps set from last nights trapline w/ Tyler C. and Russell B. ~~100~~ 98 traps were set. 40 shermans, 40 specials and 18 rat traps. Today should be clear in the skies. Tyler and I are going to check on the trapline this morning.

7:47 am

Pero 001 — Peromyscus

N: 32.83500 — E: 1930 m

W: 108.27283 — Error: 22 m

Lab prep table time — 9:32 am

- NK 256787 (Microtus ongomexicanus)
  - Negative in GI tract

NK 256788 (~~Microtus - Vole~~) Neotoma
- 58 mm long large I + ceum
- Negative in GI tract
- Saved GI muscle content

Tubes N_2

70% vial tubes

NK 256781 (Neotoma) Woodrat

(sv) cest. SI 70% A31PZ → - cestode w/ scolex in 70% etch (sv) (SI) A31PX proglottid A_2 N_2

- Saved GI muscle content

(dv) cest. cecum 70% A31Q0 → - cestode in ceum 70% etch A31PY B_2 proglottid N_2

NK 256780 (Neotoma)
- 78 mm long GI tract
- Negative in GI tract
- Saved GI muscle content

9/30/14

Locality of 2nd mammalogy trip

Gila NF, N of Little Walnut Creek

→ 9/26/14 → 9/28/14

10 hosts accounted for.

2 parasites found in NK 256921

- Nematode in SI
- Cestode w/ scolex in SI

Both were prepped and placed into vials.

Ryan Barber

Lab prep table time 9/30/14

1:09 pm

Venturing to do some searching through the small mammal collected from 2nd Mammalogy trip just a couple miles NE of silver city near the Gila mts. This collection was collected from Sunday September 28, 2013. We will be looking for endoparasites down in the Division of Parasites of the museum of Southwest Biology in Rm 120 of Sara Brant lab wet room.

NK 256914
- Negative in GI tract
- stored muscle GI tract in 70% etoh

NK 256912
- Negative in GI tract
- stored muscle GI tract in 70% etoh

NK 256918
- Negative in GI tract
- stored muscle GI tract in 70% etoh

NK 256913
- Negative in GI tract
- stored muscle GI tract in 70% etoh

NK 256926
- Negative in GI tract
- stored muscle GI tract in 70% etoh

NK 256923
- Negative in GI tract / stored GI muscle

Ryan Barber

Prep table cont'd.... 9/30/14

NK 256925
- Negative in GI tract
- stored GI tract muscles in 70% etoh.

NK 256924
- Negative in GI tract
- Stored GI tract muscles in 70% etoh

NK 256921 (Peromyscus boylei)
- Nematode in SI + stomach in (dv) w/ 70% etoh A268J (1) broken up.
- Cestode in SI proglottids and scolex in 70% etoh A1 A268I (1) ~~bro~~ → proglottid N_2 tube A2 in 70% A268H

NK 256911
- Negative in GI tract
- stored GI tract muscles in 70% etoh in goody bag.

Total mammals → 10 hosts
Total parasites → 2
- 1 nematode
- 1 cestode

These were recorded into NK book entry and specimens were both placed in 70% etoh in a vial.

Ryan Barber

Lab prep table time

12:44 pm 10/14/14

NK 256993 (Peromyscus)
- Negative in GI tract
- stored in 70% etoh bag GI muscle

NK 257089 (Peromyscus tro)
- Negative in GI tract
- stored GI muscle in 70% etoh bag

NK 256975
- Negative in GI tract
- stored GI muscle in 70% etoh bag

11:55 pm 10/15/14

NK 257081 (Peromyscus)
- Negative in GI tract
- stored GI muscles in 70% etoh bag

NK 257087 (Peromyscus trueii)
- Negative in GI tract
- stored GI muscles in 70% etoh bag

NK 256997
- Negative in GI tract
- Stored GI muscles in 70% etoh bag

2:33 pm

NK 257076 (Peromyscus maniculatus) A_1
- cestode in SI w/ scolex intact 70% (dv)
- N_2 cryo tube 70% proglottid A_2
- stored GI muscles in 70% etoh bag

11:28 pm 10/16/14

NK 257084 (Peromyscus trueiii)
- Negative in GI tract
- stored GI muscles in 70% etoh bag
  w/ liver intact.

Ryan Barber

Prepping cont'd.... 10/16/14

NK 257085 (Peromyscus maniculatus)
- Negative in GI tract
- Stored GI muscles in 70% etoh bag

NK 257091 (P. maniculatus)
- Negative in GI tract
- Stored GI muscles in 70% etoh bag

NK 257090 (Peromyscus truyeii)
- Negative in GI tract
- Stored in GI muscles in 70% etoh bag

NK 257083 (P. maniculatus)
- Negative in GI tract
- Stored GI muscles in 70% etoh bag

NK 257079 (P. maniculatus)
- Negative in GI tract
- stored GI muscles in 70% etoh bag

NK 257092 (Peromyscus truyeii)
- Negative in GI tract
- stored GI muscles in 70% etoh bag

NK 257074 (Peromyscus maniculatus)
- Negative in GI tract
- stored GI muscles in 70% etoh bag

NK 256988 (Neotoma?)
- Nematode in SI tract in 70% etoh (dv)
- stored in 70% etoh bag (GI muscles)

NK 256984 (Neotoma?)
- Negative in GI tract
- stored GI muscles in 70% etoh bag

→ Finished Peromyscus Bag 1 @2:25pm

Ryan Barber

10/16/14

NK 257064 (Neotoma)
- Negature in GI tract
- stored GI muscles in 70% etoh bag

NK 257080 (P. maniculatus)
- Negative in GI tract
- stored GI muscles in 70% etoh bag

NK 257053 (Peromyscus truycii)
- Negature in GI tract
- stored GI muscles in 70% etoh bag

NK 257077 (P. maniculatus)
- Negative in GI tract
- stored GI muscles in 70% etoh bag

NK 257038
- Negature in GI tract
- stored in GI muscles in 70% etoh bag

4:26 pm 10/22/14

NK 257049 (P. trueii)
- Negature in GI tract
- stored in GI muscles in 70% etoh bag

NK 257048 (Peromyscus trueii)
- Negature in GI tract
- Stored in GI muscles in 70% etoh bag

NK 257051 (P. maniculatus)
- Negature in GI tract
- stored in GI muscles in 70% bag

Ryan Barber

Lab prep table time 10/23/14

NK 257028 (Peromyscus truyeii)
- Nematodes (3) in SI tract in 70% (dv)
- stored GI muscles in 70% etoh bag

NK 257061 (Peromyscus maniculatus)
- Negative in GI tract
- stored GI muscles in 70% etoh bag

NK 257019
- Negative in GI tract
- stored in GI muscles in 70% etoh bag

NK 257041 (Peromyscus trueii)
- Nematode (Ascaris) in stomach (7) in 70% (dv)
- stored GI muscles in 70% etoh bag

NK 257071 (Peromyscus trueii)
- Nematode (Ascaris) in stomach (3) in 70% (dv)
- stored GI muscles in 70% etoh bag

NK 257031 (Maniculatus)?
- Negative in GI tract
- stored GI muscles in 70% etoh bag

NK 257047 (Peromyscus maniculatus)
- Negative in GI tract
- stored GI muscles in 70% etoh bag

NK 256982
- Trichuris from ceacum (1) in 70% (dv)
- stored GI muscles in 70% etoh bag

Ryan Barber

Lab prep table cont'd... 10/23/14

NK 257069
- Nematode in stomach in 70%/dv)
- stored GI muscle in 70% etoh bag

NK 257052 (Peromyscus truei)
- Negative in GI tract
- Stored GI muscles in 70% etoh bag

5 → NK 257021 (Peromyscus truei) 10/29/14
- Negative in GI tract
- Stored GI muscles in 70% etoh bag

5 NK 257012 (Peromyscus truei)
- Negative in GI tract
- Stored GI muscles in 70% etoh bag

5 NK 256991
- Negative in GI tract
- Stored GI muscles in 70% etoh bag

5 + 3 NK257055 (Peromyscus maniculatus)
- Ascarids in stomach in 70% (dv) (12)
- Stored GI muscles in 70% etoh bag

5 + 0 NK ~~257067~~ (Peromyscus maniculatus)
- Negative in GI tract
- Stored GI muscles

25 + 3 = 28 pts

NK 257067 (Peromyscus boylii) 10/30/14
- Pinworms in the cecum (5) in 70% etoh (dv)
- stored GI muscles in 70% etoh bag

NK 257070 (Peromyscus truei)
- Negative in GI tract
- Stored in GI muscles in 70% etoh bag.

Ryan Barber

cont'd.... 10/30/14

NK 257071 (Peromyscus truei)
- Ascarids in the stomach (3) in 70% (dv)
- stored GI muscles in 70% etoh bag

NK 257062 (Peromyscus maniculatus)
- Negative in GI tract
- Stored GI muscles in 70% etoh bag

NK 257030 (Peromyscus maniculatus)
- Negative in GI tract
- Stored GI muscles in 70% etoh bag

NK 257058 (Peromyscus maniculatus)
- Negative in GI tract
- Stored GI muscles in 70% etoh bag

Kelly Chavez/Eli Salazar

12:44 Prepping cont'd.... 10-14-2014

Eli Salazar EAS
- NK 257082 (Peromyscus)
  - Negative in GI tract
  - Stored in 70% etoh bag GI muscle
- NK 257074 (Peromyscus
  - Negative in GI tract
  - Stored in 70% etoh bag GI muscle

11:55 10-15-14

Kelly Chavez KC →
- NK 257088 (peromyscus t.)
  - Negative in GI tract
  - stored in 70% etoh bag GI muscle
- NK 257075 (peromyscus maniculatus)
  - Negative in GI tract
  - stored in 70% etoh bag GI muscle
- NK 256990 (neotoma)
  - nematode in cecum - stored in 70% DV
  - stored in 70% etoh

Hannah Qualls HCQ

NK 257025 ♡
- Negative in GI tract
- Stored in 70% etoh

★ NK 257086
- Negative in GI tract
- Stored in 70% etoh

NK 857042
☺ Negative in GI tract
stored in 70% etoh

Toria Cosby VKC 10/22/14

NK 256986
- negative in GI tract
- stored in 70% etoh

Hannah Qualls NK256989

- mostly cut and opened already
- Negative in GI tract
- stored GI muscles in 70% etoh bag

NK257073

- Negative in GI tract
- stored GI muscles in 70% etoh bag

NK257050 PM

#soydepressed
#nothing
#nogoldenticket

- Negative in GI tract
- stored GI muscles in 70% etoh bag

El: NK 257054

- Peromyscus Truei
- Negative GI
- Stored in 70% etho

Toria C.
VKC

NK 256992
- Negitive in G.I. track
- stored in 70% etoh.

Hannah Qualls
HCQ

NK 257046
- Negative in G.I. tract
- stored in 70% etoh

NK 257043
- Negative in GI tract
- Stored in 70% etoh

NK257065 pt
- Negative in GI tract
- Stored in 70% etoh

NK 257063
- Found nematode from stomach
- stored in 70% etoh (DV)
- stored GI muscles in 70% etoh

October 29th 2014
HCQ

NK257052
→ Negative in GI tract — +5.5 pts
- stored in 70% etoh

→ NK 867087 — +5.5 pts
- Negative in GI tract
- stored in 70% etoh

→ NK 857022 — +5.5 pts + 3 pts
- Found 1 ascariids in stomach
- stored in 70% etoh (DV
- stored GI muscles in 70% etoh

→ NK 257060
Negative in GI tract & stored in 70% etoh

19.5 pts

Toria C.
VKC

NK 256992
- Negitive in G.I. track
- stored in 70% etoh.

Hannah Qualls
HCQ

NK 257046
- Negative in G.I. tract
- stored in 70% etoh

NK 257043
- Negative in GI tract
- stored in 70% etoh

NK257065 pt
- Negative in GI tract
- stored in 70% etoh

NK 257063
- Found nematode from stomach
- stored in 70% etoh (DV)
- stored GI muscles in 70% etoh

October 29th 2014
HCQ

NK257052
→ Negative in GI tract — +5.5 pts
- stored in 70% etoh

→ NK 867087 — +5.5 pts
- Negative in GI tract
- stored in 70% etoh

→ NK 857022 — +5.5 pts + 3 pts
- Found 1 ascariids in stomach
- stored in 70% etoh (DV
- stored GI muscles in 70% etoh

→ NK 257060
Negative in GI tract & stored in 70% etoh

19.5 pts