

8-28-1998

# Mammalogy Class 1998 Field Notes

Lisa Roberts

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## ROAD log

Time miles

1322

0

Field Trip #1 Mammalogy 489 '98  
 Left for Sun Mateo Mtns destination.  
 Departed from loading dock of Biology Building Parking lot on UNM Campus.  
 Passengers in Van: Scott Burt (driver), Christina Chaver, Scott Knapp, Andy Ortiz, Veronica Madewell, Dusty Wells, Silvia Rodriguez.  
 Leaving Campus we took I-25 South to Socorro, NM.

1342

20.4

Sighted a prairie dog colony on the West Side of I-25.

1407

48.5

Valley of fires to the east Side of I-25. Spotted a Red Tailed Hawk

1413

56.1

Exited I-25 at exit 169, to the West on a gravel rd. to Sevilleta Field Station.

1417

Arrived @ field Station startling a flock of Doves by Entrance.  
 Brief Stop to Pick up Electrical Equip.  
 Left Station @ Sevilleta headed back to I-25 South. Luis hit and kept a dove.

1438

1459

77.3

Exited I-25 South to exit #150 West beneath Magdalena Mt. Range @ Socorro. Continued along Service Rd into town to Furr's Supermarket for Supplies.

1524

81.3

Left Furr's, returned to I-25 S.

June 2  
RL

Road Log

Time miles

- 15:35 Passed Exit to Bosque Del Apache Refuge. Exit # 139. Still heading S on I-25
- 16:08 128.2 Exited I-25 @ exit # 100 WEST  
128.7 Right on Hwy. # 1 (NORTH) ~ 5 miles South of Socorro. Terrain is grassland w/ few low shrub-underbrush type. Weather is overcast w/ moderate dryness.
- 16:13 Elephant Butte late to the E. Can see @ a distance.
- 16:15 133.4 Exit Hwy # 1 to the left (west) County Rd 225 (Forest Access gravel Rd.) Terrain is Creosote, mesquite, Chamise and Yucca.
- 16:19 134.8 Jack Rabbit Sighted Leopus americanus. Pond to the left  
134.9 Mound of numerous openings to the right, Red tailed Hawk flying overhead.
- 16:27 137.3 Entered Cibola National Forest. Rolling hill terrain, grassland w/ scrub brush, cacti, Moderate dryness. Chamise Canyon.  
~ 139.6 Road fork to the left & Right Continued Straight → ← → Juniper beginning to appear, brush thinning w/ Mountainous terrain

# Road log

GMR 3  
RL

| Time | Miles          |  |
|------|----------------|--|
| 1641 | ~142           | Pinon Pine beginning to appear.  |
| 1643 | <del>142</del> | Sighted Desert Cottontail <u>Sylvalagus</u><br><u>Anteboni</u> (sp)?   |
| 1647 | 143            | Nogal Canyon   |
| 1656 | 146            | Springtime Canyon - <u>Base Camp</u> .<br>Ponderosa Pine, Scrub Oak, Mtws.<br>Mcchogamy, clumped grasses, wild<br>flowers. Sunny ~ 87° F. Light<br>redish, flat stoned rocky gravel<br>ground. |

JUNE 4

RL

Road log to Magdalena Mountains

Longitudinal Study Webs:

4 Sept. 1998 Fri

Mile Time

0 2:06 pm

From UNM's Biology Depts. Loading Doc  
Hot Day ~ 94°F, Partly Cloudy & Buggy  
Took I-25 South

51.9 3:07p

Stopped along side of Hwy @ the  
Rio Puerco Overpass to look @ Bats  
under Bridge. They were found in the  
Compression Cracks of the Bridge its self.  
Free tails

Black mesa to the East also the  
Rio Grande. 3 types of Habitat here:  
• Arid desert • River habitat • Mountain

75.9 3:41p

I-25 Exit 150 into Socorro leads  
on to California St.  
91°F

77.4 3:44p

Turn R<sup>ght</sup> on Spring Street

77.9 3:45p

Turn L<sup>ft</sup> onto State Rd. 60 @ Stop Sign.

Follow 60 west in Direction of Magdalena.

Good 2-lane paved Hwy, 65 mph.

Landscape west of Socorro Hilly w/ lots  
of Grasses & Sun flowers along side of  
Road. Spotting of Piñon and Cactus.

Old Lava flows 24-50 million years old.

92.9 4:00p

Water Canyon Exit on Left.

Follow Road West into Canyon

(Paved, unlined Road)

95.1 4:03p

ENTERING Cibola National Forest

| MILE  | Time   |                                     |
|-------|--------|-------------------------------------|
| 96.8  |        | Entering Piñon landscape.           |
| 97.6  |        | Road 235 to the left. Pavement ends |
|       |        | leads into Water Canyon Campground. |
|       |        | Wonderful Apple Tree in center.     |
| 97.7  |        | Turn left to Langmuir lab. Steep    |
|       |        | Curvy dirt road.                    |
| 99.7  |        | South Canyon Trail #15              |
| 99.8  |        | South Baldy Trail #11               |
| 100.9 |        | Take right @ Y, to Langmuir lab     |
| 105.3 | 4:55p. | BASE Camp                           |

LJMK 5a  
RL

4. Sept. 98  
- 1998

(65 MPH)

**ROADLOG TO MAGDELENA MTN. LONGITUDINAL STUDY WEBS:**

(FROM JOURNAL OF JL DUNNUM- 5 SEPTEMBER 1996)  
APPROXIMATE DRIVING TIME: 2 HR. 15 MIN.

TAKE I-25 SOUTH TO SOCCORO.

0.0 I-25 EXIT 150.

CONTINUE THROUGH TOWN ON CALIFORNIA STREET.

1.7 TURN RIGHT ON SPRING STREET.

2.2 TURN LEFT ONTO STATE ROAD 60 AT STOP SIGN.

FOLLOW 60 WEST IN DIRECTION OF MAGDELENA. (GOOD 2-LANE PAVED HWY, 55 MPH)

15.6 WATER CANYON LODGE ON RIGHT.

17.2 WATER CANYON EXIT ON LEFT.

FOLLOW ROAD WEST INTO CANYON (PAVED, UNLINED ROAD).

19.4 ENTER CIBOLA NATIONAL FOREST.

20.3 CATTLE GUARD

20.7 CATTLE GUARD

21.5 CATTLE GUARD

21.9 PAVEMENT ENDS - WATER CANYON CAMPGROUND.

22.0 TURN LEFT TO LANGMUIR LAB

22.2 CATTLE GUARD

24.0 SOUTH CANYON TRAIL # 15

24.1 SOUTH BALDY TRAIL # 11

25.2 TAKE RIGHT AT Y, TO LANGMUIR LAB 5 MILES.

28.2 LANGMUIR LAB SIGN

28.6 TIMBER PEAK TRAIL # 70

MEADOW WEBS EAST AND CENTRAL

29.5 BASE CAMP

29.8 MEADOW WEST

30.1 GATE - KEY AND COMBINATION

30.5 BALLOON HANGER - FOREST WEBS NORTH AND CENTRAL.

31.0 FOREST SOUTH (ON LEFT AS ROAD ENTERS FOREST).

**DIRECTIONS TO WEBS:**


**MEADOW EAST:** PARK AT TIMBER PEAK TRAIL # 70. WALK SOUTH ONTO EAST FACE OF MEADOW ABOUT TWO HUNDRED METERS. 124 TRAPS, 12 LINES OF 10.

**MEADOW CENTRAL:** PARK AT TIMBER PEAK TRAIL # 70. WALK NORTH ON EAST FACING SLOPE OF MEADOW ALONG COW TRAIL FOR ABOUT 350 METERS. 124 TRAPS, 12 LINES OF 10

**MEADOW WEST:** PARK AT INLET .3 MI. BELOW GATE. GO UP TRAIL TO THE NORTH UNTIL YOU REACH TOP OF PASS. GO WEST ALONG TRAIL TO END OF BLUFF ( ABOUT 200 METERS). DROP STRAIGHT DOWN TALUS SLOPE 100 METERS TO WEB CENTER. 124 TRAPS, 12 LINES OF 10.


**FOREST CENTRAL:** PARK AT BALLOON HANGER. GO STRAIGHT DOWN RIGHT SIDE OF FOREST UNTIL YOU SEE ORANGE MARKINGS. TRAP 120 IS JUST INSIDE FOREST EDGE. THIS TRAPLINE WILL GO WEST DOWN THE SLOPE TO THE CENTER. 148 TRAPS, 12 LINES OF 12.

Ljme 56.  
RL



**FOREST NORTH:** PARK AT BALLOON HANGER. FROM FOREST CENTRAL, FOLLOW LINE 144 UNTIL PATHWAY HITS CLEARING, CONTINUE ALONG FOREST EDGE UNTIL YOU HIT ORANGE MARKINGS AND TRAP 120 AT FOREST EDGE. FOLLOW THIS LINE WEST TO CENTER. FC 36 ALSO HITS ABOUT 15 METERS BELOW FN 96. FROM HANGER, GO DOWN LEFT EDGE OF FOREST UNTIL YOU FIND ORANGE MARKINGS AND TRAP 120. EASIEST TO FIND FROM FOREST CENTRAL, BUT CAN GO OUT BY FOLLOWING LINE 120 OUT OF FOREST. 148 TRAPS, 12 LINES OF 12.

**FOREST SOUTH:** PARK AT POINT WHERE ROAD STARTS TO ENTER FOREST. HEAD STRAIGHT WEST INTO FOREST. GO ABOUT 200 METERS. 148 TRAPS, 12 LINES OF 12.

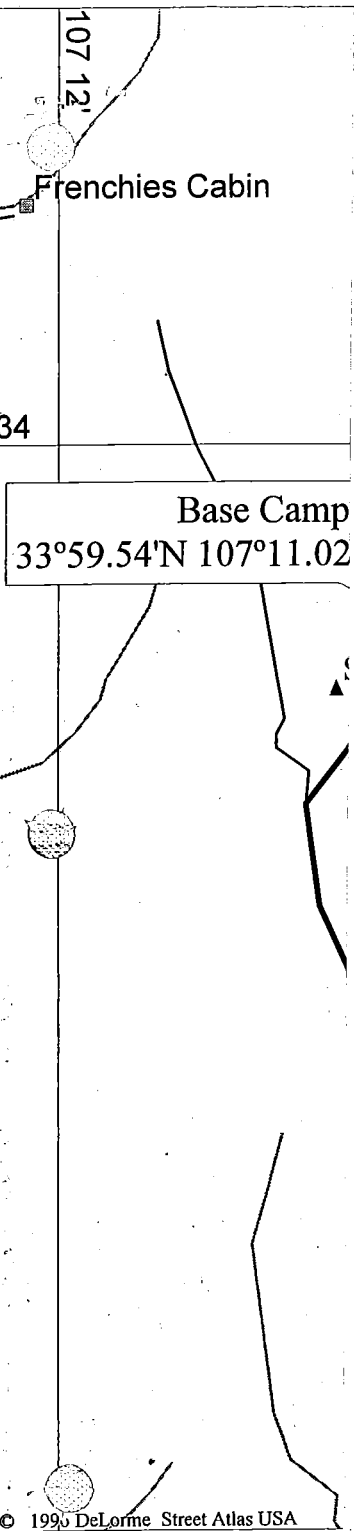




~10:45 — Took Tissues from More Animals

I took tissues from P. Gopher I caught,  
(HLK)

NOTE #1 — 4 Sept 98 — lecture by Hanta Virus  
team on Fundamentals of the Strip Plot  
Immunoscreening Procedure.



LSM6  
RL

Road log To Finsley/Kirkland Jemez Mtn  
SHREW ARRAYS 18 Sept. 1998 Fri

| Mile  | Time   |   |
|-------|--------|---|
| 0     | 1:40pm | Leaving the UNM Biology Loading Dock.<br>TAKE (MLK) MARTIN LUTHER KING ROAD to<br><u>I-25 (N)</u>                     |
| 2.3   |        | Pass the <u>I-40/I-25</u> Intersection  |
| 18.1  | 2:09pm | <u>Exit 242</u> INTO Barnalio   |
| 18.4  | 2:05pm | Go <u>Left</u> from the exit on to<br><u>Hwy 84</u> (West).   |
| 18.9  |        | GIANT GAS Station - Stopped for Supplies  |
| 42.0  | 2:50pm | Turn <u>Right</u> on to <u>SR4</u> leading towards<br>the Jemez Pueblo. & town of Sun'sidro<br>Good 2-lane Paved Road |
| 43.9  | 2:55pm | Jemez Pueblo START of land Ownership  |
| 46.9  | 2:59pm | Jemez Pueblo Homestead  |
| 56.2  | 3:11pm | Jemez Springs - many Amenities<br>here if needed (Bars, Restaurants<br>Grocery Store) - Small but has fuel.           |
| 64.6  |        | Battleship Rock / Hot Springs   |
| 68.4  | 3:27pm | Stop Sign (Y) in the road go: (Right) North<br>South fork   |
| 78.8  | 3:40pm | Frontage Road 280, turn Right - one lane<br>dirt road, (4 wheel drive would be good)                                  |
| 80.75 | 3:43pm | This road is just ~0.5 miles before the<br>Villa Grande road turn off.  |
| 81.1  |        | Cattle guard  |
| 82.6  | 3:55pm | Small bumpy road (dead ends) leads to the right<br>- a marshy Meadow <u>Base Camp</u><br>with a Small Stream.         |

LJMR 6a  
RL

**ROAD LOG TO FINDLEY/KIRKLAND JEMEZ MTN. SHREW ARRAYS:**  
FROM JOURNAL OF JL DUNNUM-17 SEPTEMBER 1996)  
APPROXIMATE DRIVING TIME: 1 HR. 50 MIN.

- TAKE I-25 NORTH TO BERNALILLO.  
GET OFF ON SECOND BERNALILLO EXIT, HEAD WEST ON STATE ROAD 44 TOWARDS  
CUBA.  
0.0 START MILEAGE AT JUNCT. OF STATE ROAD 44 AND RIO RANCHO 528 (SANTA ANA  
STAR CASINO). CONTINUE ON 44 TO TOWN OF SAN YSIDRO. (GOOD TWO LANE PAVED  
ROAD, 55 MPH)  
20.6 TURN RIGHT ONTO STATE ROAD 4 NORTH.  
STATE 4 GOES THROUGH JEMEZ PUEBLO AND IS TWO LANE, PAVED BUT VERY CURVY  
(35-55 MPH)  
24.9 JEMEZ PUEBLO  
25.4 U.S. POST OFFICE  
31.3 GROCERY STORE  
35.7 JEMEZ SPRINGS  
36.1 SAN DIEGO BAR AND LOUNGE (TO START THE WEEKEND OFF ON THE RIGHT NOTE)  
37.6 ANOTHER U.S. POST OFFICE  
37.9 LOS OJOS BAR ( IN CASE THE SAN DIEGO WAS CLOSED)  
38.9 JEMEZ RANGER STATION AND CROSS OVER JEMEZ RIVER.  
43.1 BATTLESHIP ROCK CAMPGROUND/HOT SPRINGS  
44.7 HOT SPRINGS OFF TO RIGHT?(TAKE NOTE: WITHIN 15 MILES OF CAMP)  
46.2 JUNCT. WITH HWY 126, STAY ON 4 NORTH.  
50.3 TURN RIGHT ON FOREST SERVICE ROAD 280 (ONE LANE DIRT ROAD).  
58.6 CATTLE GUARD  
60.0 PROPOSED CAMPING SITE DOWN TO RIGHT.

EASILY ACCESSIBLE IN MOST 2 AND 4 WHEEL DRIVE VEHICLES (DON'T BRING YOUR  
LOWRIDER THOUGH).

**LOCALITIES:**

**LOWER HIGHWAY SITE:**

NEW MEXICO: SANDOVAL CO. 3.25 MI. N, 10 MI. E OF JEMEZ SPRINGS.  
39° 48.867' N, 106° 31.312' W. EL. 2610 M.

**CAMP AND SHREW ARRAYS:**

15 KM. N, 16.4 KM. E JEMEZ SPRINGS.  
39° 48.446' N, 106° 30.472' W. EL. 2820 M.

LTme 7  
RL

# Road log to San Carlos, Mexico

9 OCTOBER 1998

| Mile  | Time  |   |
|-------|-------|---|
| 0.0   | 13:08 | Leave URM Biology loading dock, Clear hot day ~ 89°F.   |
| 1.0   | 13:11 | Headed South on I-25  |
| 11.6  | 13:20 | Pass OVER the Rio Grande River  |
| 79.5  | 14:10 | Stop @ Socorro, NM to use bathroom  |
|       | 14:28 | leave gas station & back on to I-25 South   |
| 189.4 | 15:55 | Exit 41 off of I-25 S. into HATCH, NM.  |
| 198.8 | 15:58 | Take a Right @ FRANKLIN St. to Hwy (187/26)   |
|       |       | Pass 187 Exit to the Right heading West on Hwy 26 towards Deming & Lordsburg Deming is 48 miles from this Pt.: 65 mph 2 lane Hwy Rd.  |
| 238.4 | 16:38 | Go Left onto I-10; Hwy 180; South to Deming.  |
| 239.8 | 17:11 | Head West towards Lordsburg I-10 Stop for gas @ the Farmers Mini Mart and bought a Watermelon (that we never ended up eating) 91°F  |
| 271.6 | 17:37 | Pass the Continental Divide on I-10 (W) to Lordsburg. Elevation 4526-4536m altimeter reads 1540m. landscape in Moderate to overgrazed Chihuahuan Desert w/ Yucca's Spotting the terrain |
| 300.8 | 18:00 | Lordsburg, NM   |
| 324.4 | 18:17 | New Mexico / Arizona State line   |
| 410.6 | 19:25 | Benson City limits, Dusk  |
| 449.5 | 19:56 | Take Exit 269 Enter Tucson, Arizona 449.5 STOP @ Gas Station  |

LJme 8  
RL

San Carlos, Mexico Cont.

| <u>Miles</u> | <u>Time</u> |   |
|--------------|-------------|---|
|              |             | Ⓚ on Ervington Rd.; Denny's to the  |
|              |             | Ⓚ Red Roof Inn @ Right  |
| 456.9        | 20.08       | Stopped @ Gas Station. You don't have to take previous Exit; get off in Tucson where exit is handy for you.   |
| 458.1        | 20.36       | Back on the Road Ⓚ on I-10 Mile Marker 264 out of Tucson, Az.   |
| 462.3        | 20.41       | Take Exit 260 going on to I-19  |
|              |             | Ⓚ to Nogales  |
| 493.0        | 21.06       | Noah Ranch Rest Area  |
|              | 22.48       | Leaving Rest Area after eating some wonderful Chili that Christopher & I made for the Class! Heading to another Campground to Rest for a short while. |
| 519.4        | 23.10       | Exit 12, take a left @ Stop Sign onto Ruby Road, Right onto Frontage Road towards Ranger Station. Pass R.S.   |
| 519.9        |             |   |
| 520.3        |             | Ⓚ on Old Tucson Rd.; Camping Ground is Closed so we are heading off towards Nogales.  |
| 521.4        | 23.17       | Back on to I-19 leading into Nogales.   |
|              | 523.5       |   |
|              | 23.19       | Ⓚ onto Exit 8 Following I-19 into Nogales elevation 3865m   |
| 530.7        | 23.55       | Onto Exit 8 again. Exited into the Border Station into Mexico   |
| 536.2        |             | Go South onto I-15 into Mexico  |

17M29

RL

San Carlos, Mexico Cont

| <u>Mile</u> | <u>Time</u> |  |
|-------------|-------------|--|
|             |             | at the (Y) take a (R) toward Guymas<br>go Left and head towards Hermosillo<br>on Mexican Interstate MI-15.<br>Follow Signs that lead towards<br>Hermosillo |
| 549.9       | 02:32       | Check Point #2 Sat. Oct 10, 1998<br>on in to Mexico Heading towards<br>San Carlos...   |
| 557.6       | 02:35       | Tanum Sabuta (sp?) per LAR   |
| 569.8       | 02:50       | La Mesa Romero   |
| 579.0       | 03:00       | Hermoise (sp?) per LAR   |
| 587.2       | 03:18       | Pause  |
|             | 5:26        | Resume   |
| 593.0       | 5:34        | Toll   |
| 606.0       | 5:49        | Big Town   |
| 619.7       | 6:01        | Estacio Yano   |
| 622.1       | 6:03        | Casa Blanca  |
| 636.3       | 6:16        | Police @ point (Cleared)   |
|             | 6:23        | Pause  |
| 661.1       | 6:44        | Los Chinos   |
| 712.0       | 7:33        | Hermosillo, Mexico   |
| 712.2       | 7:42        | Go Left towards Guymas<br>Turn back towards the Intersection<br>towards downtown to do some shopping<br>and get breakfast.<br>Beautiful Clear day!         |
|             | 8:53        | Back on the Road again   |
| 715.8       | 8:54        | At the Intersection turn (R) towards<br>Guymas.  |

JUNE 10

RL

San Carlos, Mexico Cont.

| Miles | Time  |  |
|-------|-------|--|
| 721.1 | 9:05  | Ⓡ to Stop for Gas and lunch  |
| 721.4 | 10:36 | Resume Southwardly on the loop around Hermosillo   |
| 799.2 | 11:45 | Ⓡ to San Carlos Exit   |
| 805.8 | 12:01 | Stopped by local Authorities for speeding, but Andres & Luis Sweet talked her out of it.   |
|       |       | Guaymas is on the Ocean Front and is quite beautiful w/ lots of Hotels & places to stay. Ammunitions ect. Diving Shops too! Mountains everywhere.  |
|       |       | At the end of Guaymas take Sonoran Hwy 124 to Los Algodones Follow road up thru Rock hill w/ gorgeous homes everywhere, into San Carlos. From San Carlos   |
|       |       | * If you hit the end of the road you've gone ~2 miles too far.   |
|       |       | * Head towards Club Med. Go ~ 7.0 miles and take dirt road to the Ⓡ that leads past the Old Catch 22 Movie Ruins. This road is what is left of an old landing Strip. Follow road to the left. ~ 12 miles. <sup>TAKE</sup> a small Road leading to the Ⓡ towards a very small Ranch House. Has some lime & flowering tropical TREES out to the front. Above the Ranchers home is a Cement Pool that holds Spring water from a small |

LJMR 11  
RL

Sat. 10 Oct 1958

~ 3:30pm

mountain just above the Ranch.

This is Base Camp.

Hanta Tent is set under the  
shade of a (big) tree near pool.



Location: Base Camp: USA:New Mexico; Socorro C  
Nogal Canyon, 32 mi. S and 25 mi  
N, 107 19.092' W, 1738 m  
Upper Site: USA:New Mexico; Socorro C  
Scott, Cristina : Corn Canyon, 33 :  
2283 m  
Lisa and Dusty: 33 33 17 N, 107 2  
Karl: 33 33 12 N, 107 24 25 W, 2:  
Lower Site: USA:New Mexico; Socorro  
Windmill,

Participants:

Terry L. Yates (TLY)  
Luis A. Ruedas (LAR)  
Jerry W. Dragoo (JWD)  
M. Scott Burt (MSB)  
Jorge Salazar Bravo (JSB)  
Brian D. Frank (BDF)  
Davis Tinnin (DST)  
Jon L. Dunnun (JLD)  
Steve Davenport (SRD)  
Cristina Chavez (CLC)  
Dave Lockner (DTL)  
Gabor R. Racz (GRR)  
Andrina G. Ortiz (AGO)  
Silvia V. Rodriguez (SVR)  
Veronica Madewell (VKM)  
Karl M. Cruz (KMC)  
Dusty Wells (DW)  
Lisa J. M. Roberts (LJMR)  
Orsolya Fegyueres (OF)  
W. Scott Knapp (WSK)  
Timothy Sanchez-Brown (TSB)  
Bill L. Gannon (WLG)

Trap Summary: 1687 trap nights, including 1660 shermans :  
captures for a trap success of 1.2%. Four specimens shot. T  
nights caught 48 bats. 18 kept as vouchers, 30 hand release  
collected.

Specimen summary:

Chiroptera:

ROSTER LIST : Cibola Nat. Forest.

8/29/98

San Pedro Peak  
- Springtime Canyon

|                     |      |     |
|---------------------|------|-----|
| TERRY YATES         | TLW  |     |
| Luis Pinedas        | LAR  |     |
| TERRY DRAGO         | JWD  | (L) |
| SCOTT BURT          | MSB  |     |
| Veronica Madwell    | VKM  | (L) |
| Steve Davenport     | SRD  |     |
| Christina Chaver    | CLC  | (U) |
| DAVE LOCKNER        | DTL  | (L) |
| Gabor R. Raes       | GRR  | (L) |
| ANDRINA G. ORTIZ    | AGD  | (L) |
| Silvia V. Rodriguez | SVR  | (L) |
| Karl M. Cruz        | KMC  | (U) |
| Dusty Wells         | DW   | (U) |
| Lisa Jan Roberts    | LJMR | (U) |
| W. Scott Knapp      | WSK  | (U) |

• All Set traps @ Base Camp

u - upper camp area

L - lower camp area

Physio

State: NM Park: Cibola

Long: \_\_\_\_\_; Lat \_\_\_\_\_ Elev \_\_\_\_\_

Weather: sunny partly sunny cl \_\_\_\_\_

| Category                  | Cover Class          | Hg |
|---------------------------|----------------------|----|
| Overstory                 | 1 <del>2</del> 3 4 5 | —  |
| Understory                | 1 2 3 4 5            | —  |
| Herbaceous                | 1 2 3 4 5            | —  |
| Litter                    | 1 <del>2</del> 3 4 5 | —  |
| Bare soil/rock            | 1 2 <del>3</del> 4 5 | —  |
| Average slope:            | <del>33</del> 40°    | —  |
| Notes:                    |                      |    |
| 2.6 m from camp, elev: 2  |                      |    |
| <del>2-15</del> LSMR 2-18 |                      |    |
| LSMR / traps on 1st       |                      |    |
| in log areas & under      |                      |    |

| Category             | Cover Class                     | Hg |
|----------------------|---------------------------------|----|
| Overstory            | 1 2 <del>3</del> 4 5            | —  |
| Understory           | 1 <del>2</del> 3 4 5            | —  |
| Herbaceous           | 1 <del>2</del> 3 4 5            | —  |
| Litter               | 1 <del>2</del> <del>3</del> 4 5 | —  |
| Bare soil/rock       | 1 2 <del>3</del> 4 5            | —  |
| Average slope:       | 0                               | —  |
| Notes:               |                                 |    |
| Base Camp: Trap line |                                 |    |
| west, along side a   |                                 |    |
| Traps were set near  |                                 |    |
| ridge grasses        |                                 |    |
| refilled traps on 2  |                                 |    |

## PERSONAL LOG FOR SAN MATEO MTS.

FRI

28 Aug 1998

Time 5:45 pm

Temp ~ 80°

Once @ base Camp we set  
to Sherman Traps. My traps were  
set out across the road at the  
edge of a Ridge line above a dry  
Creek bed.

I + DJW set traps (Sherman) (35)  
at the upper Site. The Site was  
steep & gravelly with thick brush  
covered w/ mtn mahogany, yucca,  
Scrub Oak w/ scattered *Parsonsia*  
Pine. U. Site Crew: Karl, <sup>Luis</sup> Cristina, Scott, <sup>LJMR</sup> DJW.

Upper Site: 2.4 m from base camp  
2426 m elevation

GPS: 33, 33, 17 N, 10, 72423 W.

\* SEE NOTE #1

29 Aug. 98

SAT.

UP @ 6:00 AM. Checked Upper  
Site Traps. Caught 2 animals in  
S. traps that were set in rotted  
logs. Both animals were *P. boylii*.  
Hiked down mtn. w/ Luis, Karl  
DJW & myself. Almost tipped the  
Suburban. Left vehicle on  
mtn. Walked down to base camp.

~9:00

Scott B. gives lecture on Animal  
Skinning & prepares a Lemn  
for stuffing.  
[See Personal Notes for Skinning Specs.]

29 Aug 98  
cont.

Scott's Demo was a ground Squirrel  
(S. Variegates) caught in DJW's  
S. trap.

~ 1:00 pm

Set out to SKIN 1<sup>st</sup> Animal.  
Kangaroo Rat; Tissues had already  
been taken. Catalogue # 1

~ 4:30 pm

Dipodomys merriami

Checked on Base Camp Traps +  
Upper Site S traps.

~ 7:00 pm

Luis Demo'd Bat Skinning.

I skinned my 2<sup>nd</sup> Animal. Catalogue  
# 2. A BAT, Myotis evotis.

NOTE: ON BATS, & Start w/ very Small  
hole! Additions to Animal (BAT)

ID are Fore Arm length & Tregis length  
(Bat inner ear).

~ 2:30 AM

Checked Bat Nets w/ Scott B.

(NOTE # 1)

28 Aug 98 Fri, ~ 10:00 pm Bat lecture  
where the Bat Net was set out.

Explanation of [ANABat] program that  
allows for ID. of Bat Echo location  
Voices.

30 Aug 1998  
Sun.

~ 7:30 am Checked upper Site S.  
traps, Pulled traps.  
0 mammals Caught.

(V) = checked

(V) <sup>Base</sup> ~~Lower~~ Site. 0 mammals Caught  
Pulled traps.

On the way out Scott B. found  
a black necked garter Snake.

Thamnophis Sirtalis.

Headed Home.

**Trip Summary for Magdalena Mountains  
Mammalogy, Fall 1998**

**Specific locality information:**

**Base Camp:** USA:New Mexico, Socorro Co., 3 mi. E, 12 mi  
33 59.413' N, 107 10.842 W, 3,200m

**Water Canyon Campground:** USA:New Mexico, Socorro Co  
Water Canyon Campground.

**Web Localities:** All preceded by USA:New Mexico, Socorro

Forest North: 33 59.092' N 107 11.129' W, 3240m

Forest Central: 33 58.972' N 107 1.099' W, 3041m

Forest South: 33 58.685' N 107 10.909' W, 3180m

Meadow East: 33 59.401' N 107 10.232' W, 3109m

Meadow Central: 33 59.568' N 107 10.482 W, 3109m

Meadow West: 33 59.560' N 107 11.037' W, 3109m

**Participants:** A million people....including a group of Dr. Jennifer I  
and a group from Brian Hjelle's lab. However, what follows is a list  
participants from UNM.

Terry L Yates (TLY)

Bob Parmenter

Luis Ruedas (LAR)

Scott Burt (MSB)

Jon Dunnum (JLD)

Brian Frank (BF)

Steve Davenport (SD)

Mike Friggins (MF)

Dave Tinnin (DST)

Andrew Hope (AH)

Timothy Sanchez Brown (TSB)

Matt Barlow (MB)

Karl Cruz (KMC)

Lindsay Zanno (LEZ)

Dusty Wells (DW)

Paul Polechla (PJP)

Cristina Chavez (CC)

Lisa J. M. Roberts (LJMR)

Chris Roberts

Dave Lockner (DTL)

Andrina Ortiz (AGO)

Andres Garcia (AG)

Sylvia Rodriguez (SVR)

## PERSONAL Log for Magdalena Mtns.

4 Sept. 98

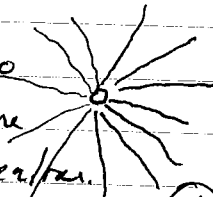
Fri

5:00 pm

Once @ Base Camp we checked Sherman traps at Forrest Central. (Park @ Bulloon hanger. Go Past locked Gate) Go Straight Down Rt. Side of forest.

Traps are set out in a WEB Formation:

Animals were also Released from where they were caught either.



12 lines of w/  
12 traps on Each.

After traps were set Luis at top of Road where he was setting Tomahawks → Tomahawk Demo here.

Beautiful View - Seems like you are @ the top of the world.

~ 8:00 pm

\* See NOTE #1

Back @ Camp - Dinner & Set up Camp. Eastern New Mexico Mammal Class <sup>arrived</sup> late pm.

Checked Tomahawks that P.P.

DJW, CLC had set earlier. Nothing caught. DJW set Havahart traps for Neotoma (Packrats)

9:30 A

On the way back to Camp 2

mule deer x the Road & ♀ w/ Juvenile

~ 9:40 AM

① Meadow Central & Meadow East for trapped Animals in Sherman trap web. Caught Voles & Peromyscus

10:20 A

Vicrori pocket gopher trap Demo by Paul P.



Magdalena Mountains Cont.

Sept. 5 10:20 AM Set my 1<sup>st</sup> pocket gopher trap. (Look for a small mound of fresh under dirt. Dig out hole and insert trap with a string and stick attached to trap as to set across the hole so gopher won't take the trap into the hole w/ him.)

10:30 AM Mammal Skinning; Pocket gopher (See catalogue #3) in bad shape w/ huge hole in its side. Took way too much time to skin.

~ 3:00 PM Release and Re- $\odot$  forest South traps also Meadow east & Meadow Central. Trapped more *Peromyscus* and *Voles*.

$\odot$  my gopher trap & Caught one!

Brought back to camp. (Catalogue #18)

4:45 PM Tracked to the Tallus Slopes to Set Weasel traps w/ long Sherman's) a Tallus Slope looks like a rock Avalanche)

5:15 PM Set bat net w/ S. Burt across a small pond just north down from forest north.

6:00 PM Critter Stew for dinner w/ moose, Caribou, bear, Gopher, Squirrel... umm umm good.

Dr. Yates & Dr. Parmenter lecture on Web Sites & Hanta Virus.

~ 10:45 PM Took tissues from *peromyscus* for Hanta Crew, also tissues from my gopher were taken. (HLK for Catalogue #18) Lecture by Hanta Virus team on the fundamentals of the Strip blot Immunoassay Procedure.

~ 1:00

Bed time

June 6

6 Sept. 98

Sun.

7:15 Am

9:30 Am

~ 11:30

Magdalena Mtns Cont.

① Tallus Slope weasel traps. Caught 3 pack rats.

② Tomahawk trap Set by Dr. Ruedas - caught a *Peromyscus*.

③ Forest South, and Central traps webs. Brought many *peromyscus* & *Voles* back to Camp.

Back @ Camp. Took down Site & went home w Christopher.

**Jemez Mts. Trip Summary**  
**Mammalogy 1998**

**Jemez Mts locality: Base Camp:**

USA: New Mexico; Sandoval Co., 3.5km N, 16.4 km E Jemez Springs, 35 48.446'N 106 30.472'W, 2820m

**Jemez Mts. Lower site:**

USA: New Mexico; Sandoval Co., 0.2 mi E Las Conchas campground on NM Route 4, 35 48.418'N, 106 31.287' W, 2,610m

**Crew from Upper Site:**

Andres Garcia, Andrina Ortiz, Scott Knapp, Dave Lockner, Karl Cruz, Joe Candelaria, Sylvia Rodriguez

**Crew from Lower Site:**

Matt Barlow, Lisa Roberts, Dusty Wells, Lindsay Zanno

Note: Numbers in this chart are approximate. Will verify actual counts by NK book once animals have been prepped.

|                               | AG        | AGO       | MB        | LJMR+LEZ  | DJW       | WSK       | DTL       | KMC       | GJC      | SVR       |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|
| <i>Sorex palustris</i>        |           |           |           | 1         |           |           |           |           |          |           |
| <i>S. monticolus</i>          | 1         | 3         |           | 2         | 1         |           |           |           |          |           |
| <i>Peromyscus maniculatus</i> | 20        | 16        | 12        | 26        | 7         | 10        | 9         | 13        | 8        | 6         |
| <i>P. difficilis</i>          |           |           |           | 1         | 1         |           |           |           |          |           |
| <i>P. trueii</i>              |           |           | 1         |           |           |           |           |           |          |           |
| <i>Microtus montanus</i>      | 5         | 3         | 2         | 20        | 3         | 1         |           | 5         |          |           |
| <i>M. longicaudus</i>         | 1         | 5         | 2         | 7         | 2         | 1         |           | 4         |          | 1         |
| <i>Clethrionomys gapperi</i>  | 5         | 4         | 1         |           | 4         | 1         |           | 1         |          |           |
| <i>Eutamias minimus</i>       | 2         |           | 2         | 2         |           | 1         | 2         | 1         | 1        |           |
| <i>E. quadrivittatus</i>      |           |           | 2         | 1         |           |           |           |           |          |           |
| <i>Spermophilus lateralis</i> |           | 1         |           |           |           |           |           |           |          |           |
| <i>Neotoma mexicana</i>       |           | 1         | 3         | 3         |           | 2         | 1         | 1         |          | 4         |
| <i>N. cinerea</i>             | 1         | 2         |           |           |           | 1         | 1         | 1         |          |           |
| <i>Thomomys talpoides</i>     | 1         | 1         | 1         |           |           | 1         | 1         |           |          |           |
| <i>Mustela erminia</i>        |           |           |           | 1         |           |           |           |           |          |           |
| <i>Sorex sp.</i>              | 1         | 1         |           | 1         |           | 1         |           |           |          | 1         |
| <b>Total # of specimens</b>   | <b>37</b> | <b>37</b> | <b>26</b> | <b>65</b> | <b>18</b> | <b>19</b> | <b>14</b> | <b>26</b> | <b>9</b> | <b>12</b> |
| <b># of species</b>           | <b>8</b>  | <b>9</b>  | <b>9</b>  | <b>10</b> | <b>6</b>  | <b>8</b>  | <b>5</b>  | <b>7</b>  | <b>2</b> | <b>3</b>  |

June 7

Personal log for Jemez Field trip.

18 Sept. 1998

6:45 pm

Fri.

Once camp was initially set up Dusty, Mat, Lindsay, and I with Dr. Ruedas set trap sites just above the Las Conchas (LC) Camp ground. Mat & Dusty set traps together & Lindsay & I set traps together. Our site was E. on SR4 E. of (LC) campground 0.1 mile.

GPS:  $35^{\circ}48.918' N$ ,  $106^{\circ}31.287' W$  ele 2600m

Set 139 traps along side a stream south of the road. Aboreal Forest type landscape. Temperature was cool  $\sim 40^{\circ}F$  expecting low temps, just above freezing for the evening. Hoping to catch shrews.

19 Sept. 1998

Sat.

7:30 Am

9:30 Am

10:30 Am

① low Stream Site: traps. Caught many *Peromyscus*, 1 ermine, water shrews and voles. Took them back to camp.

Set 3 gopher traps just above base camp off alongside the road.

Finley's lecture on shrews. It follows: Shrews (*Sorex*) feed on insects & other animals. are homeotherms. Being very small & cold they have to eat all the time to keep their metabolism going. They eat their size in body weight plus more to stay alive. Prefer insects to animals as food. Blarina has toxic saliva that helps in attacking its meals. Shrews sleep in bursts of time due to high  $M_b$  rate. They are

Jemez Mt. field trip Cont.

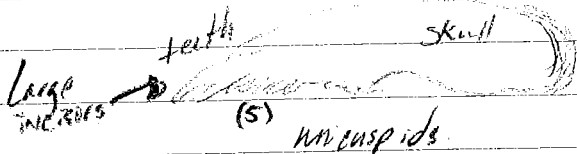
Findleys Lect.  
Cont.

(19 Sept 98)

Shrews are important components of the ecosystems → eat lots of bugs in a 6 week life span. They live in a Mesic habitat, one that is very moist.

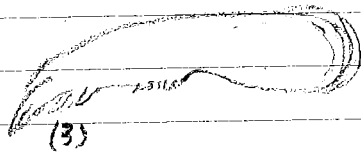
· Norio Sorex - desert shrew has larger kidneys than the other species. (Life in the desert), they have long collecting tubules to increase H<sub>2</sub>O uptake. Will find them (N. Sorex) in Rock piles. Vs Water Shrew that is much larger in size. ID of species is difficult therefore look in & at the skull and teeth.

(Sorex) -



Sp. Sincereous  
Sp. Sincereous

-VS-



Sp. Monticolus  
Sp. Nannus (dwarf) rare

12:00 pm

Helped the Hanta Crew process Cotters mainly Pumila paramiscus. Data logged all incoming mammals Suspect w/ hanta.

2:00 pm

Ⓟ Gopher traps that were set earlier, nine were caught.

June 9

Jemez Mt. Trip. Cont.

(19 Sept 98)

2:15 pm

Helping Hanta Crew w/ data Collection

4:00 pm

Mammal Skinning: Squirrel (Catalogue # 4)  
Half way thru skinning I started feeling poorly & went & laid down for a few.

6:00 pm

Dinner

8:00 pm

Tracked thru the Mountains w/ Findley, Dave, Lindsay, J. Drago, Kelby, Dusty.  
Went West of Camp to find Small Water Pond to set bats. ~ 1.5 miles.  
Caught 2 different species.

10:00 pm

Tracked up Road to find Shrew arrays & (V) them for any animals.  
Found them w/ no Shrews caught.  
Took a Sampling of invertebrates for diet examining.

12:00 pm

off to bed.

20 Sept 98

Sun 7:30 AM

(V) lower Stream Site traps and caught many mammals once again: Water Shrews, peromyscus. Back to Camp.

9:30 AM

Took down Camp

10:00 AM

T. Yates lecture on Safety & Chimpanzees →

11:00

Mammal Skinning: Ermine (Catalogue # 5)

1:00

Tried to leave base Camp Hanta. Vehicle would not start. Ended up leaving it in the Jemez Mts.

~ 2:30

Home ward bound.

(See back of Page)

# Animal Processing:

eg: Squirrel - *Spermophilus Veriegatus*  
Taxonomy (K) Anamalic  
(P) Cordata  
(Sp) Vertebrata  
(Cl) Mammalia  
(O) Rodentia  
(F) (Squirrel) Sciuridae  
(G) *Spermophilus*  
(Species) *Spermophilus Veriegatus*

## • Trap location

## • Take Standard Measurements:

- All in metric

1. Total body length (nose to tail)  
281

- ON NK  
Sheet

2. Tail = 120

3. Rt. hind foot = 49

Heel to end of claw/nail

4. Ear = 19

5. Weight = mass

eg: 281, 120, 49, 19, 112g

But: Testis + Forearm

All: ♂: Testis: Scrotal/Abdominal  
L x W of testis

♀: Vag. open/closed, Lactating,  
Uteral Scars / Horns et or Left

To Skin: NEEDS

1. Ruler
2. Tray
3. Cob
4. Wire cutters & Wire
5. Forceps
6. Scissors

Note: One set of instruments / animal

: Skin the left side limbs

: Rt. side holds tags

Sample tubes: yellow - liver

Red - heart, kidney



Cibola Nat. Forest

Mammals Caught 8/29/98

Base Camp:

- a. *P. boylii* 11
- b. *P. maniculatus* 1

P = *Peromyscus*  
N = *Neotoma*

Lower Site: (windmill)

- a. *P. boylii* 1
- b. *N. albigula* 11

Upper Site

- a. *P. g. rufus* 111
- b. *P. boylii* 11
- c. *P. maniculatus* 1

1<sup>st</sup> Animal SKINNED

Field

A24-L

Time: *Dipodomys Merriami*

length 250mm

~~196~~ 250-145-<sup>40</sup>~~38~~-10 = 50g NK 45320

♂ Coll: . . . .  
Prep: LJMB - Fall  
Locality: USA, New Mexico, Sycuro Cty  
Sevilleta Field Station  
250, 145-40-10 = 50  
31 JAN 1998

↙  
NK ..... HLK