

7 Jan 1982 College Station, Texas

Checked out Ph. meter and HACH PH kit, Letter 8.5, former 8.35 ph.; bought new 90 battery  $\frac{1}{2}$  or for PH meter.

Arranged maps; plan to collect H<sub>2</sub>O samples from Big Sandy Creek, Bastrop Co. and from any ponds Houston toad is known to breed in. Bought color film; (4<sup>19</sup>); For photos of Camp Swift or other areas; Labeled Jars for H<sub>2</sub>O collection. Ken King to arrive from Temple at 7pm; + spend night; to go with Hugh McCrystal + myself in morning to meet Floyd Potter in Bastrop.

8 Jan. College Station - Bastrop <sup>MILEAGE = 21993 - 22151 = 158 mi</sup> → Camp Swift; Lake Woodrow <sup>return</sup>

7am; Left house with Ken King; picked up Hugh McCrystal and drove straight to Bastrop State Park Entrance; arriving 8:45am. Had coffee across highway at Hilltop Grocery [owner Barry L. Bennett] Tel. 321-5313; home (Smithville) 237-3868; Bennett works for Tex. Dept. Game + Fish as Engineer; good contact. Met Floyd Potter at 9am; Floyd showed us Ephemeral spots along highway 21 where he has heard Houston toad; Turned around 9mi E of Bastrop State Park entrance; west 2mi; N. 1mi one road to Leake; 1mi S. to Hwy 21; Entered State Park on Park road 1; 5.3mi S to Allen Creek Crossing; then 1.4mi S. to small quarry pond where Floyd has seen Houston toad (on Pk Rd 1) H<sub>2</sub>O Temp 7.0C; Air temp. 3.4 C; H<sub>2</sub>O Ph 6.4 Elec. 6.5 chem kit; 3" visibility, H<sub>2</sub>O greenish, turbid; <sup>- sample taken - Total Alk 24 mg/L</sup> time 10:35am, continued S. on Pk Rd 1 to Buscher St. Pk entrance [Junct. St. Pk Rd. 1 + FM 153; 11:12 am;

8 Jan 82 (Cont.) Howard Tiner, Pk Superintendent; his house near Park entrance [ $\pm$  .4 mi NE], .6 mi from entrance to junct with Hwy 71; 10.3 mi NW to junct. of Hwy 71 + 95; N. on highway 95 to dirt road turning left 6.4 mi from Hwy 71; or 2.5 mi N of junction FM 1441 and Hwy 95; 2.9 mi on dirt road, cross low water area of Dogwood Creek, and ice still on creek in shade; 11:58 am; visibility, 1"; H<sub>2</sub>O greenish, turbid; non-flowing; H<sub>2</sub>O temp 2.4°C, Air 10.3°C, Ph = 6.5 Elec. + Chem kits; sample taken for other analysis Dogwood creek drains south fifth of Camp Swift; 1 mi N; main crossing of Big Sandy Creek; just past railroad trestle; + old community of Sayersville. 12:17 pm; H<sub>2</sub>O clear, 1 m visibility, good flow; H<sub>2</sub>O temp 10.0°C, Air 4.3°C, Ph 7.4 Elec; 7.5 Chem. kit; Big Sandy Creek is major drainage system for entire northern half of Camp Swift. Returned to Hwy 95 (0.8 mi) + South on 95; passing main entrance to Camp Swift 1.3 mi S; junct of Hwy 95 + FM 2336 0.4 mi past main entrance; + dirt road on right that goes to Dogwood Creek at 1.4 mi beyond junct. 2336/95. Arrived Bastrop 1:00 pm For Lunch.

13:42; Floyd Potter Leagues; we progress Eastward on Hwy 21 to junct. with FM 1624 (22.5 mi E) + drive up 1624 for 2 mi to Sand zone, return to Hwy 21, + continue E to Old Drive Bars (8.7 mi E) + turn up dirt road by Gulf Station (NW) for 2.1 mi; Looks good for toads; return to Hwy 21; + drive East; to Yegua Creek (4.1 mi) Looks good ground East side of creek for toads; junction in Caldwell with Hwy 21 + 36, drive N. on 36;

8 Jan 82 (cont.) Drive N. to 4.1 mi (N. side Davidson Creek), former site of Houston toad capture, Feb. 7, 1950, by J.P. Robertson, good sand deposits + water; returned south to dirt road turning LEFT; 2.5 mi. S Davidson Creek; driving NE 2.1 mi; turn E; nice pond 0.7 mi; turn North 0.7 mi; (1.4 total); turn E. 0.6 mi; 1.4 mi Junction with FM 2000, 0.5 mi S. Lake Woodrow; work Lake Woodrow toad site, drive North for 1 mi, return to Hwy junct 21/2000; 4.6 mi; then E. to junct. Hwy 21 + 2818; 17.8 mi; Return Hugh home + Ken + I to house, arriving 16:50 pm.

Took one day annual leave for trip. Potter says I should consider helping R.F. Martin's student, who will be studying Houston toad at Bastrap site. I will call Bob next week for more information.

20 Jan 1982 C.S. - Lake Woodrow + return mileage 22289-22347 (58 mi)  
6:30 pm - with David Kizirian + J.C. Whitney; drove to Lake Woodrow, Burleson Co; to look for H. Toad., called Frank Batista + Bubba Vincent (Game Warden) and informed them of visit; drove via 2818-21-2000 on way; found Scaphiopus holbrookii 3 mi N. Hwy 21 on FM 2000; on highway, 19:23 hrs; C 18.5 C  
Air 21.2 C, Road 19.0 C; Rana sphenocphala 3.5 mi N. Hwy 21, on FM 2000; on highway, no data; stopped at Lake Woodrow; 19:30 pm, no toads calling, heard R. spheno. + Pseudacris triseriata below dam. Returned to campus 21:30 by Hwys 2000-21-50-60. Had rained during day, cloudy, + somewhat misty night, slight breeze; wet road, + relatively (21.0 C) warm. The two Frogs returned to Laboratory for class use.

25 Jan 1982

College Station, Texas

Call From Barry Nichols: arriving Rio Flight 192 Y  
From Houston Lv 9:00, Arr. 9:35pm. to pick up for  
trip to Camp Swift + site visit.

26 Jan 1982

C.S. to Camp Swift to Austin MILONG 22382-22553 (171)

Barry Nichols + I left house 7:10 am, picked up equipment  
at University; arrived FM 1441 8:40 am; drove Loop to  
Hwy 95; arrived Camp Swift 9:00 am; met other 9  
persons in Col. Les G. Fisher's office (Facility Manager)  
[Mr. Hammer, shop Foreman, 2nd in charge], received  
instructions on area; many dud shells, Leave  
along; received combinations to locks on gates  
even Nos. = 22-22; odd Nos. 33-31; but changed  
frequently; must check in by person or phone  
[512-321-2497] on every visit, work hours  
7:30-4:30 M-F; because of Army activities.

Drove to GATE 3 + entered base; searched pond  
on right of road just beyond GATE 3; Loblolly Pine /  
hardwood Forest, sandy hill tops; water sample taken,  
Ph 6.2 E, 6.0 + Chem, Air 16.0°C, H<sub>2</sub>O 10°C; drove  
to road to right to check Location M-31 - F Martin;  
previous pond near rain pipe on Dogwood creek drainage;  
did not find water at Local 31; returned to Oak  
Hill road + drove NNW to junction of Oak Hill + Center  
road, Local of Martins 3, 4, + 24 sites; arr. 11:12 am;  
small deep pond sampled on SE side of Center road;  
Air 15.8°C, H<sub>2</sub>O 11.5°C; Ph 7.8 E, 8.0 Chem; Pond in open field  
Acris seen; H<sub>2</sub>O sample taken; - Drove NE on Center  
road 0.3 mi to Martin Pond # 23; pond permanent,

26 Jan (Cont.)

cattails present; aquatic veg on bottom; tadpoles, *Acris*,  
& *Rana* eggs (3 clutches) seen; 11:50 am; not sampled  
at this time. Drove to junction Center Road + Scott  
Falls Rd; (50 meters) + drove 1.8 mi NNW on Scott  
Falls Rd to crossing of Big Sandy Creek; clear, swift,  
flowing well; 12:03 took H<sub>2</sub>O sample, Air 11.8°C, H<sub>2</sub>O  
5.8°C, Ph 7.5 Chem, 7.1 E; - drove NW for 0.4 mi.,  
Permanet Pond on right of road (Martin Pond #9);  
12:30, water sample; Air 18.1°C, H<sub>2</sub>O 13.1°C; Ph 8.0,  
chem; 7.8 E; Pond with surface algae, rooted  
*Mircophyllum*; + obvious per. H<sub>2</sub>O status. - reached  
GATE 8 at 0.2 mi; turned right + followed dirt  
road 1.8 mi NE to Hwy 290. LEFT to Elgin [junct  
290/95 at 3.7 mi NW. Road from Gate 8 just  
opposite FM 696 to Butler.

Ate lunch in Elgin; drove down 95 6.8 mi to turn off  
to Sayer; down Sayer Rd 0.7 mi to Big Sandy  
Creek [for site, see p. 2, Jan 8, 1982]; another  
Ph. reading at 1341 hrs; Air 20.2, H<sub>2</sub>O 12.2; Ph 7.0 +  
chem; 7.0 E; no H<sub>2</sub>O sample; Drove SSW to near  
junction of Big Sandy Cr. + Colorado River [5.2 mi];  
1408 hrs; Air 17.0, H<sub>2</sub>O 14.0; Ph. 8.0 Chem; 7.5 E; in  
eddy, Elm, Pecan, ash trees, slight breeze; still relatively  
clear; no sample taken; 3.3 mi reached Hwy 95; and  
1.7 mi reached junct. 95/21; + 0.8 mi entered Bastrop  
state park off Hwy 21. At 2.7 mi SW on Park Rd 1,  
Houston food site sampled; *Rana* seen; H<sub>2</sub>O sample;  
Air 18.0, H<sub>2</sub>O 10.8°C; 1443 hrs. Ph 6.5 Chem 6.5 E.  
Sunny, Pine/oak forest; 0.2 mi, turned right on Barkley  
Dog Pond Rd; 1.2 mi to Pond; 0.1 mi to Hwy 71.

Jan 26 (cont) Turned NNW on Hwy 71, and reached Colorado River 4.0 mi.; and arrived Austin 4:45 pm. Reached motel 5:00 pm; supper + back to room by 7 pm.

Jan 27, 1982 Austin, Tx. to Bryan, Tx. mileage 22553-22663 (110 mi) <sup>1124</sup>  
Breakfasted + made meeting at TRC Building on I-35, south Austin. People attending meeting appended on opposite page. Position statements made on Camp Swift study for Vegetation, Soil, Houston Toad, and Hydrology. Air cleared over communication and who will complete what segments and when. 10:30 am, broke up into interest groups, Floyd Potter TPWD, Don Henne, OSM, Barry Nichols JRB, + myself discussed the work plan and areas to be studied. After discussion, + mutual agreement, I will spot-check Martin's 1979 37 sites on Camp Swift, utilize a control site with known Houston toads, and also establish new sites in the private petitioned Lands site south of Camp Swift, and around the Big Piney Creek area of critical habitat designation for the Houston toad. Lunched; met with Jerry Bentley, USFWS biologist in G-155 Federal Building, + discussed Segment 7 in terms of Endangered Species Act. Don Henne has agreed to contact David Bowman, Albuquerque Endangered Species office, + establish initial inquiry statements. Dropped B. Nichols + D. Henne off at Austin Airport, + returned to Bryan at 4:00 pm. Placed H<sub>2</sub>O samples in office for analysis.

Feb 12, 1982

College Station - Camp Swift (Lu 89791 - ret. 90079) miscra  
12: noon, drove via Hwy's 60, 50, 166, 36, 21, 696, 270, 2326, 95  
to arrive at Camp Swift Hdg., talked with CWO Roy Hamer,  
& explained our route for night work & checked Lock  
combinations. - Three Battalions of Tanks to fire on March  
5, 6, 7; cannot use route at that time. Drove into Bastrop  
& met with F. Potter, B. Thompson & B. Stewart, (Letter  
with Epsy Huston Assoc.). Stewart has contract to study  
H. food in area nr Pawell Bend; so we will overlap some.  
He will be checking for LCRA (Leases) in a 1200 Ac site  
opposite old Camp Swift Hdg. We have agreed to coordinate  
our efforts to obtain maximum amount of data on  
presence of food. He will check area where he has Land  
owner permission, & we will do the west side of Petition  
& so. side. AFTER supper, we checked through GATE 3 and  
examined pond 1 on upper end of Dogwood Creek; had  
Ph. 6+; saw Lepomis sp. Procerambius sp. and Rana  
catesbeiana in pond, clear sky, 20mph N. wind; H<sub>2</sub>O  
temp. 13.0°C; air 8.6°C; nothing calling. We then  
checked M-4, M-23, M-9 & M-16 sites; only M-23  
contained frogs, we found Rana catesbeiana & Acris  
crepitans; but nothing calling; we checked Hill top  
ponds of Hillis & Martin on FM 1441, & nothing calling  
(Known H. food site). Returned to GATE 8 and  
spent night. 9:30pm; temp. 8.2°C.

Feb 13, 1982

Camp sites to all areas  
6:am temp. -1°C; extremely cold night, bright moon,  
still breezy in morning. Drove into Elgin for Breakfast,  
then drove to Sayers turnoff. Spent next two hours  
plotting water sites along Sayers - Bastrop dirt road.

Feb. 13, 1982

(Cont.) Continued route to Railroad tract, turned LEFT + came out on US 95 near junction with FM 1441. drove to Hilltop Lake site + on to Hwy 21; drove to St. Park entrance, + joined Hwy 71 in Bastrop. Drove north on 95 to first dirt road past Big Piney Creek; + turned right; found good toad sites (2) in first  $\frac{1}{2}$  mi., crossed Big Piney 1.5 mi from US 95; + found cattail pond 0.3 mi S. of junction of dirt road with 1441. Turned Right on 1441 for 0.6 mi., + then turned LEFT into old Camp Swift area nr. Big Piney. Followed various roads (all dirt) in old Camp Swift reservation, marking likely toad sites on map; ran into several dead ends. Finally reached FM 2336; + turned N. to Gate 3, + Turned Right + drove towards Big Piney Creek; found four possible toad sites. Returned to FM 1441 + drove through several land tracts (For sale by Circle D Resort), that borders the Big Piney drainage. Mapped many possible sites this date. Temp. at 5:00pm -  $8.5^{\circ}\text{C}$ ; much too cold for toads this pm; Decided to try some other time + returned to College Station via Hwys 21, 50, 60. All possible toad sites now plotted in study area, at least until some rain falls and temporary rain pools are established. At that time, some additional sites will be added to map (see next page for current routes traveled and known sites of Toads. Total miles traveled - 288.



Feb 16, 1982

Coll. Sta to Bastrop site & return. [MILWAUKEE 22977-22949] n2  
(w H. MC Crystal)

5:pm, Left For Houston food site at Hilltop ponds on FM 1441; arriving at Hilltop ponds 6:25pm. Air temperature 17°C + dropping. Sky clear, slight northeast breeze; no toads calling or seen; Acris crepitans on shore.

Drove to cattail pond, behind dam of Lake Bastrop Rana sphenoccephala and Pseudacris triseriata calling at Lake but not at pond. Air temp. 17°C; no toads. Bought batteries + flashlight for Hugh.

Drove to pond at end of Lake site (on H-95); 7:19pm; Air 17.6°C; nothing calling; found 8 Rana catesbeiana and observed Lepomis sp. in pond.

Drove to Sayers road from Bastrop end; From RR tracks to N. H-95 = 8mi - stopped at pond 1, many Gambusia, Notropis, but no frogs. Met wolf hunters at top of first hill; "Sarge Wallace" gave us name of Ranch owner - T. C. Steiner, who lives in Austin; foreman is Pee-wee Gould; Living in first trailer at Zion School junction; owner of fenced Ranch is Henry Bell, lives in Bastrop. Air temp 20.6°C at 8:10pm at hilltop site of wolf hunters camp.

Stopped at successive ponds to Sayers, nothing calling, fish in all ponds. Reach H95 8:33pm; drove to two ponds nr Rendering Plant + junct. H. 2336; Air 17°C; no frogs; drove to Oak Hill Cemetery Pond; 8 Rana catesbeiana, no other frogs, 9:00pm; Air. 17°C;

Drove to Lake Woodrow (Caldwell site) + recorded Rana sphenoccephala; Air 16°C, 10:10pm; no H. toad; Return home by 11:15pm.

20 Feb 1982 Coll. Sta. to Barlog + return Turtles 22976-23147 185

Lv. 5:00pm; arrive Hilltop Pond site 6:50pm; morning drizzle; sunny late afternoon; upon arrival at Hilltop site, low clouds; somewhat foggy in places; roadside slightly wet; Air temp. 15°C; H<sub>2</sub>O temp. 14.5°C; Ph. 6.5±; nothing calling, nothing seen.  
7:15pm. - 7:27pm, Calfill Pond, very little water; nothing calling - 7:43pm; Lake site Lower pond; Ph. 8.0  
Air 14.5°C, H<sub>2</sub>O 16°C; Rana catesbeiana present; nothing calling; 8:00pm, Tank #1; no Frogs, no calls, Ph. 7.5, Air temp. 17°C, H<sub>2</sub>O Temp. 14.5°C. Between 8+8:30, Found Wolf Hunters (S. Wallace, etc.); + Listen for Frogs at Tanks 2+3; no Frogs; 8:40pm, Tank 4, 3 Rana catesbeiana (Cymbusia), unident. small Frog; Ph. 7.5; Air 15°C; H<sub>2</sub>O 14.5°C. no toads; very dark night; Tank 5; nothing; Tank 6, 7+8 Bullfrogs, 1 Pseudacris streckeri sitting on upper middle of dam; nothing calling; Air 15°C; H<sub>2</sub>O 14.5°C; 8:46pm, no toads or calls. OCS ponds 1+2; 6.4h with Bullfrogs; 9:26pm; Air 13°C, H<sub>2</sub>O 15°C; Ph. 6.5; no calls, no toads; OCS ponds 4+5 negative, drove on to Oak Hill Cemetery Pond; 7 Bullfrogs, no calls, no toads; Leaving for Lake Woodrow 9:52pm.  
Arrive Lake Woodrow 11:25pm; Air 15°C, H<sub>2</sub>O 15°C, Rana sphenodcephala, + Pseudacris streckeri; both calling; no Houston toads heard or seen at Thomas site. Left Lake Woodrow 11:40pm for College Station.

27 Feb 1982 Coll. Sta. - Bastrop - Austin: [ MILANCA (Bastrop); 6709-6891 ]  
 Left C.S. 5:45pm; Arrive Hilltop site 7:23pm;  
 Air Temp. 7.5°C, water 11.8°C; nothing calling or  
 seen. Drive through to other sites on dam road  
 and Sayers loop revealed no amphibians calling.  
 Arrived in Austin 10:30pm.

28 Feb. 1982 Austin - C.S.  
 Called Floyd Potter, who informed me that  
 the Houston toad was calling all last week. When  
 I questioned him about the source of his  
 information, he said he received it via  
 Bob Martin, who received it from one of  
 his graduate students. Bob had been in Mexico  
 and had not received the information directly.  
 I personally do not believe the toad has called  
 this year. There has not been enough rain.  
 The Austin area is 2½" below normal of this  
 date. We have had drizzles and light showers,  
 but no moderate rains. We have not heard the  
 toad at known toad sites on drizzle nights  
 when the temperature was optimum for the toad.  
 Returned to C.S., via Martin site 9 + 16, no  
 toads.

1 March 1982 C.S. -  
 Called Bob Martin, Austin (512-471-5302) and  
 discussed the Houston toad. He indicated that  
 Nancy Jacobson (472-1324 home; 471-4431 office)  
 has heard the toad on 18 Jan, and again on Feb.  
 19, 20, 21, 22, 23, 24th; calling + breeding on latter dates,  
 at "four-score pond"; which is 150 yds into the woods.

1 March (cont.) some 0.6 mi SW Gidion Power Plant road, on right side of Hwy 21. He indicated that this is the pond the toads call in every year, & is the first pond that they call in, regardless of rainfall. Nancy indicates that there are over 100 toads there now. Martin indicated that the toads tend to call on any night where the previous night's temperature was not below 56°F; and during the past 24 hrs. He also indicated that the Hilltop Lakes site is the hybrid site of woodhousei x houstonensis and another graduate student is studying that site, but has not seen or heard the toads. Apparently, "Four Score Pond" is the only site where they are now calling.

2 MARCH.

C.S.

Called Nancy Jacobson & set up meeting in Bastrop for March 3, 6:30pm - to visit "Four-Score Pond"; and also visit our sites west of Hwy 21.

Jacobson stated that she had heard Houston toads on 18 Jan, and then marked & Released toads on 20-24 Feb, at 4-Score Pond. She also indicated that they were almost finished breeding by 24 Feb., and no rain had fallen.

Xerobates  
to head

3 MARCH 1982

CS - BASTROP RETURN [miles 23193-23376; 183mi]

Left Spm; arrived Bastrop 6:30pm; met Nancy Jacobson (Martin student), and paid her 20<sup>00</sup> for trip. She guided us to Four-Score-Pond; a small pond 0.6 mi S of The Guideon Power Plant turnoff from Hwy 21. The pond bottom is extremely sandy; pine trees, yaupon, + oaks growing to water's edge, water clear, aquatic vegetation; at 7:03-7:58 pm period, Air temp 22.2°C, H<sub>2</sub>O 17.5°C, Ph. -7.5-8.0; Acris crepitans, Rana catesbeiana, Rana sphenoccephala, and Bufo houstonensis present; only R. sphenoc. + B. houst. calling. Several (10+) male toads around pond; 1 ♀ alone, 1 ♀ in amplexus, and 1 ♀ found hopping toward's pond from 10m. away. Letter very sandy, apparently just came out of daytime retreat; Recorded calls of 3 separate ♂♂ B. houstonensis.

Drove to Liquor Store pond; 8:25pm; Acris crepitans, Rana sphenoccephala, + Rana catesbeiana present; Air temp. 20.8°C, H<sub>2</sub>O 19.5°C; Bufo woodhousei? ♂ on road by pond. Drove Sayers Route; stopping at Tank #1, 8:44pm; 2 Nerodia rhombifera + Rana catesbeiana; Tank #2, 3; 9:05pm; R. catesbeiana, Tank #4, 9:15pm; nothing; Tanks #5, 6, R. catesbeiana, arrived OCS pond #1 9:30pm; Acris crepitans present; H<sub>2</sub>O 16.5°C, Air 20.0°C; OCS ponds 2+4; nothing, Cemetery Pond, 10:00pm; Rana catesbeiana; but nothing calling. — Lake Woodrow, 11:10pm; Air 20.8°C, H<sub>2</sub>O 16.5°C; Rana sphenoccephala + P. triseriata calling; No toads; Arrived Collope Station midnight —

10 MAR 1982 C.S - Bastrop site & return [McCrystal + Dillinger]

Weather overcast for few days, temperature in low 70's, high 50's at night; Lv: 5:15pm; 76°F, Sunny; Arrived Bastrop 6:52; met Bruce Stewart; Drove south Lake Shore Drive, 1.2 km N. Hwy 21, with Stewart; Bufo houstonensis present ± 20♂♂ calling around pond; Acris & Rana also calling; - Ph. 6.5; H<sub>2</sub>O 19.0°C, Air 20.9°C; 8pm; at least two ponds in area. Moved to L-1 pond; only Rana catesbeiana present; 8:48pm, T-1 pond; no frogs; 9:02 at T-2; Full moon, no frogs, winds pick up in speed; T-3, T-4, T-5 all empty; water levels low; 9:30pm. Moved to D-1, no amphibians; bright night, wind still brisk; Air Temp 19.0°C. -

Hilltop ponds 1+2 with loud chorus of Bufo houstonensis; Both ponds; R. sphenocphala also calling. - S<sup>♂♂</sup>, 1♀ found; all unmarked, Time 10:20pm; Ph. 6.5; H<sub>2</sub>O 15.5; Air. 16.5; Heading to Lake Woodrow; 2.7 km N. Hwy 21 on 1441; drain pipe with B. houstonensis calling just west of 1441, in woods. Woodrow at 11:30pm; only few Pseudacris triseriata & R. sphenocphala calling; overcast, windy, no frogs.

13 Mar 1982

CS - Bartrop site + return [23447 - 23650:203mi]

Left 5:00pm; Dixon + McCrystal; via Hwy 21,  
290, 2336 to Fleming's Pond [Oakhill #4].

7:00pm; Ph 6.5, Air 24.0°C, H<sub>2</sub>O 22.2°C; nothing  
calling at 7pm. 7:30pm; *Nerodia erythrogaster* ① +  
*Rana catesbeiana* (not calling) around pond. -

Oakhill pond #1; 7:45pm; *Bufo woodhousei* ♂  
present; *Acris*, *R. sphen.*, *R. cates.*, *N. erythrogaster* ②  
*Nerodia* juv. + adult ♀; ± 600mm; with adult ♂ *Bufo*  
*woodhousei* in stomach; food regurgitated, washed off  
+ still alive; heard *Gastrophryne* sp. (1) call at 7:50pm

Seyers to 95 Run; Tanks 1, 2, 3, 5, 6 empty; Tank 4  
with 5 Bullfrogs (*R. cat.*); Tank 1 with *Lepomis cyanellus*.

8:30pm - Hilltop ponds, 8:45-9:30pm; Air 24.5°C,  
H<sub>2</sub>O 20.5; *Acris*, *Scaphiopus*, *Bufo wood.* x *housteni*?

calling. *N. erythrogaster* in Lake: 2 *Bufo* taken  
for tissues; one with short call 4.5-7 sec; one with 7-10 sec  
call; (smaller of two). Returning to Oakhill pond for  
possible chorus of *B. woodhousei*. 10:30pm; no

chorus; *Nerodia erythrogaster* that sto faced was re-  
captured for weight + measurement. Drove back along  
2336 to 290; to check ponds between 290 +

21. Nothing calling; Drove to Lake Woodrow;  
*P. triseriata* + *R. sphenacophala* calling, no toads;

Air temp 21.5°C; 12:10 am. Arrived back in  
College Station 12:38 am.

Should mention that Oakhill pond #1 also  
contained an egg string of *Bufo woodhousei*  
attached to algal vegetation at P pond.

[SWIFT Comb: 515/000; 8080 Even] 100 of 3/15/82

4 MAR 1982

CS - Bastrop site &amp; return [13792-14005]

McCoy + McCoid - Rained in College Station this PM; 5:20pm Leaving - arrived Hilltop Lake site 7:03pm; Air temp. 24°C; only Acris calling, no toads this pm. L-1 pond 7:35pm; 19 Rana catesbeiana present + small Lepomis sp. Sayer road tanks 1, 2, 3, 5 + 6 were empty; no anurans at all, T-4 contained 1 R. catesbeiana and 1 Nerodia rhombifera. Serge Wallace at his usual camp site, he indicated that it had not rained, only a sprinkle. Nancy Jacobson found 3 Bufo haustonianus at 4-Score Pond, none calling; OHC #8, no anurans calling; heard Acris + Rana across the road in unknown pond site. OHC #2, no Rana's seen; dead calf, partly eaten, near pond. OHC #1 contained Rana catesbeiana + R. sphenoccephala, the latter were calling; 9:10pm; Air temp. 21°C; ground slightly damp. Returned to Hilltop Lake; Acris still calling; heard Bufo woodhousei + Rana sphenoccephala to right side of 1441 (Lake Bastrop side); but too far away to determine specific site. 9:45pm; Drove South Side Lake Shore Road off of Hwy 21; \* nothing at Hoston toad site (0.7mi N. Hwy 21) but Rana sphenoccephala calling; Very dry - Drove to Lake Woodrow; P. triseriata + R. sphenoccephala calling; Air temp 22°C; no toads; 11:28pm. Returned to C.S., 12:40am



15 MAR. 1982

C.S. to Bastrop site [90079-90194]

Left 5:00pm; Arrived 6:30pm at 4-Scare Pond;  
 Nancy Jacobson just going in to study site; will not  
 know results until tomorrow; Set up camp in Bastrop  
 state Park then Drove to L-1; only Rana present  
 7:34pm; Made Sayers run; T-1 contained 2 Rana  
catesbeiana, Air 23.0°C H<sub>2</sub>O 21.2°C; 8pm; Remainder  
 of T-2, 3, 5, 6 empty, T-4 with Rana catesbeiana  
 no calls; AOR Agkistrodon 1.0mi S. Sayers; AOR  
Scaphiopus holbrooki at Sayers; DOR Agkistrodon  
contortrix 1mi N confluence of FM 2336 + 95, on  
 Hwy 95; R. sphenoccephala nearby, DOR; OHC-1  
 contained 16 Rana, 1 cates. + 15 spheno.; Snakes  
 released; Air 23.0°C, H<sub>2</sub>O 22.8°C; 8:40pm; D-1  
 15 R. catesbeiana, 1 Nerodia erytherogaster; Air  
 24.2°C, H<sub>2</sub>O 24.0°C 9pm; Checked OCS 1, 2, 3, 4, 5, 6  
 + 7, contained only R. catesbeiana, nothing calling;  
 Returned to camp via Hilltop Lake site + Hwy 21,  
 nothing calling at Hilltop except Acris crepitans.  
 Arrived camp 10:15pm; Virginia striatula  
 at tent door.

MAR 16, 1982

BASTROP SITE

[90194-90251]

Up 7am; Breakfast in town; walked over Houston  
 Teed prime habitat for 4 hrs; grade exams;  
 Fix tent; go for another 2-3 mi walk. Found  
 pond full of turtles on or near edge of Golf Course,  
Chrysemys scripta holbrooki (2), + Storeria deKayi,  
Rana sphenoccephala dead on park Rd 1.

MAR 16 1982 continued

6:30pm, arrived Bastrop; waited for darkness in DQ; drove to Four Score Pond; Nancy Jacobson there; walked in to find no toads; Nancy said no toads showed up last night as well; misty rain all afternoon + into the evening, but no showers. Air 22.0°C, H<sub>2</sub>O 22.5°C; Ph 8.0; at 7:30pm.

Drove on towards Hilltop Lake site; Bufo haustanensis on road 0.6mi ESE of Lake site; nothing calling at Hilltop; progressively drove to L-1; T-1, 2, 3, 4, 5, 6; Rana catesbeiana in L-1, T-1, T-4, but not calling; Acris crepitans, Rana catesbeiana + R. sphenoccephala Present at Four-Score pond + latter two at OHC 1. Rana catesbeiana in OCS 2; OHC-8; Found AOR Bufo woodhousei 0.6mi S. Sayers; DOR Bufo woodhousei 0.7mi WSW Piney Creek Crossing of FM 1441. Returned to camp via FM 1441 + Hwy 21, still misting at 10pm; no toads calling. Drove Loop inside of Bastrop State Park; (3.5mi); Bufo haustanensis on Park Road 1, at dam of small Lake 0.5mi From "T" of Hdg. + first camp ground. Returned to camp 10:30pm; crashed + Burned for night!

MAR 17, 1982

BASTROP CAMP SITE + TOAD SITES <sup>MILEAGE</sup> [90251-310]

6:30am; - cerec; made 3 1/2 mi walk around Loop of camp sites; Looked at various habitats within park; very little areas for Houston toad, no water or ponds within circle, except for Coppers Creek.

17 MAR 1982 (Continued)

6:30pm; to Four Score pond; 7:05pm; Air temp. 23.0°C H<sub>2</sub>O 23.5°C pH 8.0; Rana catesbeiana, Rana sphenoccephala, Acris crepitans, Bufo houstonensis present, latter three species calling. 1 ♂ Bufo houstonensis calling at "Stake 2"; toes clipped, inner toe of Right Foot. 2nd outer toe of Right hand; called at 7:15 pm, trilled twice + quit.

Drove to Hilltop Lakes, only Acris calling; Made Loop through OCS 1, 2, 3, 4, 5, 6, 7; Rana catesbeiana present in 7, 2 + 1; nothing calling; OHC pond 1 + 8 with R. catesbeiana + R. sphenoccephala present, but no calls; Sayers 1, 2, 3, 4, 5, 6 silent, R. catesbeiana in 1 + 4; L-1 with R. catesbeiana; nothing calling; no rain, warm night; OHC #2 Air 24.2°C, H<sub>2</sub>O 23.6°C; 8:30pm;

Bufo woodhousei present on Hwy 95, 0.5 mi. N. intersection with 1441; checked pond sites inside Bastrop State Park; no toads seen nor heard.

18 MAR. 1982 - Bastrop site - Austin - Bastrop site - call station

ATTENANCE  
90310-  
90459

Up 6:30am; broke camp + drove to TEXAS Parks + Wildlife Headquarters to confer with Bill Brownlee, Floyd Patter, Bruce Thompson, + David Riekind, concerning the Houston Toad work and other matters. Don Henne to call Floyd Patter tomorrow to find appropriate time to come in to Bastrop (when + IF it rains).

Mar. 18, 1982 (CONTINUED)

Arrived M-16 site at 6:30; no water present, drove to M-9, water low; Air 24.0°C, H<sub>2</sub>O 24.0°C; Ph. 8.5, 7:05pm: Acris crepitans, Hyla versicolor, Rana sphenocephala calling; Rana catesbeiana present; no toads; Drove on to M-23; about two to four inches of water left in pond; nothing calling; D-1, only Rana catesbeiana and Acris present; out thru gate 3, + OHC ♀ with R. catesbeiana and Rana sphenocephala present, not calling; OHC ♂ with only Acris calling + Rana catesbeiana present; Sagers T 1, 2, 3, 4, 5, 6 without calling anurans, only 1 + 4 with R. catesbeiana, including L-1; Hilltop Lake site with only Acris calling. No toads seen this pm:

Drove on to Woodrow Lake site; Air temp. 24.5°C; H<sub>2</sub>O 23.8°C, nothing calling; very unusual. Very clear + windy night; dark of moon.

Returned to College Station 11:00pm. Saw two Agkistrodon contortrix on Road from Gate 8 to Gate 3; at Camp Swift.

Mar 19, 1982  
Bastrop site [McCrystal + Johnson] 5:50pm; 85°F; 7:30pm; one Bufo houstonensis calling at NW corner of Hwy 21 + South Lake Park Drive; (Ranch house Pond) none in larger pond 80 m to the NW. 0.7 mi up South Shore Rd, 1 Bufo woodhousci called; also Acris + R. sphenocephala.

MAR 19 (cont)

Liquor Store 1; Found 1 ♀ Bufo woodhousei  
± 10 ft. from Pond; 1 ♀ R. catesbeiana 25°C;  
8:15 pm. wind gusting to 15 mph, partly cloudy,  
some stars visible; "Sayers Run"; Tank 1  
with Rana catesbeiana + 2 juvenile Nerodia  
rhombifera; Tank 2 with 36± Rana  
catesbeiana; 1 Nerodia rhombifera + 1  
Acris; 8:56 pm; 24°C Air; Tanks 3, 4, 5, +  
6 without Anurans; OHC # 3 was quiet;  
nothing heard near Tree Ranch road; OHC 2  
empty; OHC 1 with Nerodia; R. catesbeiana  
+ Rana sphenocephala present, only the  
latter calling; 9:50 pm, Air 21°C;

Old Camp swift sites checked;  
OCS 4 had Acris calling, OCS 5 empty;  
OCS 2 contained numerous Rana  
catesbeiana and Rana sphenocephala  
OCS 1 contained calling Acris.  
OCS 7 contained calling Acris, Rapids  
were present; OCS 6 was Empty.

Hilltop Lakes 1 + 2 contained calling  
Acris; nothing else seen or heard.

Woodrow Lake site completely quiet;  
no pseudis calling, except below dam  
site.

MAR 23, 1982 Col. Sta.

Calls from Floyd Potter,  $\frac{1}{2}$ " rain in Austin; Nancy Jacobson; 0.12" rain [3 cm) soak] at site Mar 22, however, no toads were calling. Rained .11" Col. Sta; last night, but had light rain all day. Plan to go to Bastrop 5:30 pm.

Arrived OHC #3 at 7:18 pm, Mr Flemming (owner) stated that his rain gage measured 1", and others along Sayers indicated 0.8 to 1.5 inches of rain had occurred over the past 24 hrs. OHC-3 temp. 17°C water, 16°C air; overcast, no wind; Bufo woodhousei ♂♂ at pond, no Rana nor Acris seen, Gastrophryne calling. OHC-2 with 14+ R. catesbeiana, OHC-1, 2 R. cates. + many R. sphenoccephala. misting! B. woodhousei ♂ 0.8 mi S. Sayers on road, many ephemeral pools present along road. Tank 6 + 5 empty of anurans; T-4, 1 R. catesbeiana; T-3 with 1 Adult R. catesbeiana, many Rana tadpoles, + crayfish. Tank 1 + 2 with 1 Rana catesbeiana in each; 8:30 pm; Air 15°C.

OCS, L-1, Hilltop Lake sites all without calling anurans; however heard Hyla versicolor calling in trees to the S. side of 1441.

Visited Four-Score Pond; 9:30 pm; Air temp 15.5°C, obvious runoff down drainage system; but failed to reach pond; very sandy + sand absorbed all runoff waters (it has been very dry) Found Acris, R. sphenoccephala, R. catesbeiana along edge of pond.

Bufo houstonensis floating 1 m out from stake-N; not calling, 5th toe, left hind foot clipped, an obvious toad from last year.

Lake Woodrow; a few P. triseriata calling below dam; 10:45 pm; Air 15.5°C. No other anurans present.

29 March 1982 Bastrop site (23874-24056) 182 mi

5:45 pm - arrived Four-Score pond 7:07 pm. Misting rain, has rained & drizzled 27, 28 March; & continuing, but warming some. Winds from SSE & SSW at 15+ mph; Air temp 18.8°C, H<sub>2</sub>O 16°C; Bufo houstonensis calling from Big Fence Pond, Four Score pond; & several sites within hearing distance. Four Score contained Acris, R. catesbeiana, R. sphenocéphala; and toads; one toad with outer toe of LEFT hind foot; examined from sandy creek bed 106 yds E. of Four-Score; also 2♂♂ with 2nd inner toe of LEFT hind foot clipped found between stakes A→B, 4' from A; & L→M; 4' from L; and another ♂ K←L, 3' from L; with 2nd toe outer (front <sup>Right</sup> head) & 3rd toe, hind foot; -

Returned to 1441; saw Houston toads on Hwy 21, dead & alive, & on 1441 at 0.7, 0.8, & 1.6 mi N+W of Hwy 21; however, none calling in hilltop ponds. Checked Dam site pond; nothing; L-1 pond contained calling Gastrophryne, also R. catesbeiana, R. sphenocéphala & B. woodhousei; Air 18.5°C; misting rain; 1♂ 3♀ B. woodhousei at pond; AOR B. woodhousei 0.7 mi NE junction 95, on 1441;

Seyers road; several choruses of A. nuxans along road; mainly P. clarki in roadside rain pools, some ponds before T-1 contained S. holbrooki, Acris crepitans, Hyla versicolor, Pseudacris triseriata, Gastrophryne sp.; Seyers road had Bufo woodhousei at 1.1, 1.4, 2.5, 3.5, 6.2, 7.3 miles, beginning at Hwy 95 nr Bastrop to Seyers. T-1, empty, T-2 empty; T-3; R. catesbeiana, T-4, 5 empty, T-6; R. cates<sup>①</sup>, R. sphen<sup>②</sup>; T-7 had Gastrophryne & Pseudacris calling nearby.

29 MAR. (cont.) AOR. Bufo woodhousei 0.8 mi N junction 2336; on 95; also 0.3 mi S. junction 2336 on 95; also B. woodhousei present on road near OCS 1; OCS 2; latter also contained Rana sp.; H. versicolor + P. triseriata calling near OCS-1; OCS 4 + 5 without anurans; Oak Hill site 1 contained R. cates. + R. spheno. + B. woodhousei at cemetery; Bufo houstonensis calling (12-16 sec. calls) somewhere on or between Watson Ranch + Tree Farm Ranch; to the North of OHC road; + near Flemmings pond.

Bufo woodhousei + S. holbrooki calling 5.5 mi W of 21 on 290; also 5.4 mi; 3.1 mi; 2.4 mi; and 0.9 mi W. of Hwy 21.

Drove to Lake Woodrow site, arriving 12:10 am; found DOR Arizona elegans 2.2 mi N. Hwy 21 on FM 2000; data follows: ♀; LOA/T: 320/38; SR 27-29-19; BB: 45/47; V. 223; C- 47; 8-8, 13-13; 1-1, 2-2; 1+2; 4+5; 1-1; E.; Scaphiopus holbrooki, Rana sp., Hyla cinerea on FM 2000; no Bufo calling or seen at Woodrow; Air 19.2°C, H<sub>2</sub>O 17°C; Mustang rain, 15+ mph wind, R. spheno. + P. triseriata calling. Arrived Coll. Sta 1:20 am.

31 March 1982 Bastrop Site [24066-24256] 190 mi  
Leaving C.S. 5:05 pm, to meet Don Henne in Bastrop to make the Toad run to all localities, except for Camp Swift area. Arrived Bastrop 6:30 pm; Don Henne arrived 6:50 pm; Drove to Four Score pond; Nancy Jacobsen already there; gave her data on marked toads from earlier visits.



31 MARCH CONTINUED - 7:45 pm; 4-score; Air temp. 21°C; Water 24.5°C;

Following anurans present + calling: Acris crepitans, Rana sphenoccephala, Hyla versicolor, Bufo houstonensis, Bufo valliceps; Rana catesbeiana present.

Hilltop Lakes contained calling choruses of Bufo houstonensis, Gastrophryne sp; Acris; Rana spheno.;

8:10 pm; also found DOR B. houstonensis 0.7 mi from

Hwy 21, on FM 1441; L-1 pond with B. woodhousei, Acris,

R. spheno, R. cates., - Gastrophryne; Quarry site

E of Powell Bend contained choruses of Acris,

Hyla versicolor, Pseudacris clerkei, P. streckeri;

Bufo valliceps; Gastrophryne; 0.2 mi from Quarry,

right side of road, driving towards Powell Bend; choruses

of Bufo valliceps, B. woodhousei, Rana sphenoccephala -

Hyla cinerea; Hyla versicolor; Gastrophryne, sp;

Bufo woodhousei ♂♂ on road at 0.6 mi + 0.7 mi from

railroad tracks, towards Powell Bend; also B. valliceps

at 0.8 mi.

Tank-1 empty; Tank-2 with Bufo woodhousei,

Acris, Scaphiopus chorosiz. 9:00 pm; T-3 with

Acris, R. catesbeiana, R. sphenoccephala, Bufo

valliceps, T-4 with Gastrophryne, Bufo valliceps,

Acris; T-5 Rana sphenoccephala; T-6 with

Rana sphenoccephala; Rana catesbeiana 9:15 pm;

DOR Bufo woodhousei 1 mi ssw Snyers;

Drove towards Oak Hill Cemetery Pond;

Bufo woodhousei AOR at junction of

Oak Hill + 2336; Acris, B. woodhousei, Gastrophryne,

Rana calling opposite Cemetery, in open

field with rainpools.

31 MAR. CONTINUED - OHC-1, Air temp. 23°C; Water 26°C; turbid,  
no breeze, half moon, partly cloudy; Recorded calls  
of Gastrophryne olivacea; Acris crepitans, Hyla  
versicolor, Rana sphenoccephala, Bufo valliceps;  
Bufo houstonensis; Bufo woodhousei called, but  
not recorded. Rana catesbeiana present. Nerodia  
erytherogaster present. There were 7 B. houstonensis ad,  
7 B. valliceps ad, + 5 B. woodhousei ad present -  
no ♀♀. This site is the closest to Camp Swift;  
0.6 mi SE of Gate 3. OHC-2 with R. catesbeiana,  
+ OHC-3 with Gastrophryne + Acris.

OCS 4+5 contained B. woodhousei, Acris  
Gastrophryne, R. catesbeiana, + R. sphenoccephala.  
OCS-3; zip; OCS 4+2 with Bufo valliceps  
Bufo woodhousei, Rana catesbeiana and Hyla  
versicolor. OCS 7 - zip; OCS-6 with chorus of  
B. woodhousei, B. valliceps, Gastrophryne.

Returned to junction of 1441 + 21, 11:10pm; dropped  
D. Henne at his car + LEFT for Caldwell site.  
4.1 mi SW junction of 21 + 290; choruses of Bufo  
woodhousei, B. valliceps, B. houstonensis, Rana  
sphenoccephala, Acris; 3.6 mi SW same junction,  
and 2.8 mi SW; choruses of Bufo valliceps,  
Acris, + Gastrophryne. Reached Lake Woodrow  
12:10 am; only R. sphenoccephala + R. catesbeiana  
chorusing. Warm, no wind, partly overcast; Pseu.  
trisariata calling below dam. Terrapene ornata  
on FM 2000, 1.2 mi from Hwy 21. Arrived home  
1:20 pm.

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9 June 1982 Bryan Tx to 51 mi S. Piedras Negras, Coahuila.  
7:30 am; LEFT for Eagle Pass, via Hwys 21, 35, 57.  
Arrived Eagle Pass 1:45 pm; had to wait to buy insurance,  
bought gas; crossed border; paid \$30<sup>00</sup> for insurance,  
0.45 for crossing; 2<sup>00</sup> bills, exchange rate at Dinero  
Cambio 46:1. On way South by 3:30 pm CST; found  
1. Sceloporus olivaceus ♂ 22 mi S. Piedras Negras in  
a grove of oaks. Stopped for evening, 14 mi S.  
Allende, Coahuila. Rob found small ♀ Gopherus  
berlandieri at site, + juv. Leptotyphlops; walked 4 km today;  
Temp 33°C, to 20°C this date.

10 June 1982 14 mi S. Allende, Coa., to Soledad, Nuevo Leon, Mexico  
Up 2, 3, 5 am; No-seems very bad! Morning temp 20°C;  
oakmeal; coffee; packed truck + headed south towards  
Nueva Rosita, Salinas, + Monclova. 5.7 mi S EL Infante  
+ 6.4 mi S. EL Infante, ♂ + ♀ Thamnophis marcianus  
DOR.; 10.7 mi S. EL Infante; S. olivaceus #2, on  
mesquite tree; 13.1 mi N. Nueva Rosita; 10<sup>1</sup>, #3, 11.8 mi N.  
Nueva Rosita, 10<sup>1</sup>, #4; 1 mi N. Nueva Rosita 10<sup>1</sup> ♀ #4, 5.  
Sceloporus olivaceus Mesquite, Acacia; Drove to Monclova,  
turned on Hwy 30 + 6.5 mi from Nadercos (L<sup>2</sup>) or 2.7 mi  
SSE Buena Ventura; S. olivaceus #7, 8, 9 (9 died in sack)  
the 10th caught but escaped when numbering. 1.6 mi W.  
Celemania; S. olivaceus #10, 11, 12, 13, 14, in Acacia  
trees; 1.6 mi E Celemania; S. olivaceus #15, 16, 17, 18, 19.  
2.4 mi E Celemania; S. olivaceus, #20, 21, 22, 23.  
Returned to Monclova 5:30 pm; ice cream, soft drink,  
+ drove to junct. 57/53 + down 53 (SSR) to Soledad.  
pulled off road behind Soledad + found Ciencias.

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10 June 1982 (cont.)

Dipped Fish from Ciénega for Mike; found many Rana  
berlandieri (kept 2); found Thamnophis <sup>♂ 388/91mm</sup> marciensis  
crossing road near water; Toby found Uta stansburiana  
Back to camp by 9:30 pm + in sack. High 34.5°C;  
Low 20.0°C; walked 10.5 km this date.

11 June 1982

Soledad, N.L.; to 6 mi E San Roberto, N.L., Mexico

Up, breakfast + at spring by 7:30 am; took pictures of  
spring for Mike McCaid; caught two Sceloporus <sup>♂♀</sup> undulatus  
at spring (sign says Manantial); 0.6 mi S. Soledad;  
Spring H<sub>2</sub>O 24°C; clear to 6'; no movement noticed;  
2400' elev; drove SE thru Mina gassed in Morelos,  
+ found two S. olivaceus <sup>#24, 25</sup> in palo Verde; Mesquite;  
1700'; 1 mi SE Morelos. junctioned with 53 + bypass  
40 around Monterrey; on bypass 40, 4.4 mi W of  
junction 40/53; found juvenile Gopherus berlandieri <sup>1800</sup>  
(kept). Saw large ♀ crossing road 1 mi NW Mina,  
but left it there; stopped 8.1 mi W junction  
40/53; in field with many mesquite trees; found  
1 Sceloporus olivaceus ♂ #26, + 3 Sceloporus  
cyanogenus, 2150 ft elev; junctioned with Main 40  
+ bypass 40, + returned towards Monterrey to Santa  
Catarina; turned into Huasteca Cañon to 4.3 mi  
south; found large field with oak, Hackberry, Ebony,  
Pecan; Desert willow, Mesquite; [2500 ft elev.] found  
6 Sceloporus olivaceus #27 ♀, #28 ♀, #29 ♂, #30 ♀, #31 ♀, #32 ♂,  
also 3.1 mi S. Santa Catarina, 2400 ft, in Huasteca  
Cañon, 1 ♀ Crotaphytus collaris, 2 Sceloporus  
olivaceus #33 ♀, #34 ♂;

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11 June 1982 Cont.

Returned to Santa Catarina, turned west to Saltillo, took new bypass around Saltillo to east; drove on to Cafe Rancho Viejo at top of pass, for cokes; on to San Roberto junction; + then east for 6 mi to old campsite on left of road by arroyo with piñon pine on East side; immediately turned Yucca Logs + pieces + found 1 Crotalus scutulatus 1 mm; 2 Gyalopion canum 1 mm; 1 mm; 9 Sceloporus cautus; 2 Sceloporus grammicus; 1 Sceloporus jarrovi ♂ in dirt hole in bank of arroyo. Fixed supper, + placed dominos until 9pm; elevation here at 9:30pm reads 6425 ft; walked 11.6 km this date. (Small Gyalopion escaped in night).

12 June 1982

San Roberto camp, N.H., to Linares, N.H., + Santa Rosa Canyon  
5:30am; Low of 10°C; High today of 25°C; Rain at 2:30pm in Sta Rosa Canyon. - At San Roberto Campsite this AM, collected 11 Sceloporus cautus, 2 Sceloporus grammicus; 1 Crotalus scutulatus ♀, 603/30mm; - Drove east on Hwy 58 towards Linares; 0.6 mi E La Primavera, N.H.; 6800 ft Elev; 1 Lampropeltis mexicana ♀; 1 Sceloporus spinosus; 9 Sceloporus parvus. 2.9 mi W junction Hwy 51/58 (51 to Dr. Arroyo); 6000 ft. Elev, around baseball field; 1 Sceloporus jarrovi; 1 Sceloporus cautus (#21); 1 Cnemidophorus gularis ♀ 0.7 mi W Galeana junction on Hwy 58; 5300 ft. Elev; 3 Sceloporus cautus (#22, 23, 24) 2.6 mi E Galeana junction + 2.5 mi W Puerto de los Encinos; 5325 ft; 1 Sceloporus cautus ♀? (#25); [-9.4 mi W. Iturbide]

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5.3 mi W. Turbide; 5800 ft. Hwy 58; Crotalus Lepidus ♂  
<sup>LOA</sup> 385/38mm; passed Turbide (4900 ft. elev.) + on down  
Canyon Sta Rosa; Past Los Piños (3400 ft.) + found  
S. torquatus 1.1 mi E Los Piños; 3200 ft. elev.;  
Stopped 3.8 mi E Los Piños, or 18 mi W. Linares; 2450 ft.  
elev.; found 2 Sceloporus olivaceus (1 dead accidentally)  
1 Bufo marinus; saw Cophosaurus texanus. Began raining  
2:30 pm; drove into Linares + gassed truck; ate  
cabrita; + drove back to above site to spend night.  
walked 14 km this date, also 1 Bufo marinus released.

13 June 1982

Sta. Rosa Canyon, 18 mi W. Linares, NL, to Mamuliguc Pass, NL;  
Dropped to 15°C during night, high yesterday of 28°C, cloudy  
morning, cool; spotty sunlight (occasionally), found 1 Sceloporus  
olivaceus ♀ on mesquite tree (#36); also 1 Cnemidophorus  
gularis ♀; + 1 Cophosaurus texanus ♀. Quit site at 10 am;  
drove towards Linares; found Large ♂ Sceloporus olivaceus  
on Acacia tree on roadside, 7.6 mi W Linares, 1400 ft el.,  
another ♀ Sceloporus olivaceus on trimmed Log at  
junction of Hwys 58 + 7, 3.3 mi W. Linares, 1250 ft. el.;  
continued driving towards Monterrey, bathing in stream  
at 1969 (Dixon-Wright trip); Leeches on me again!!  
Reached Monterrey 2:30 pm; got on wrong road + found  
myself on Hwy 54 to Mer; cut back to Los Angeles road,  
to Santa Rosa; Sta. Rosa cutoff to Hwy 85 at 40 junction.  
Cienega Las Flores for cokes, then to Mamuliguc Pass,  
(old road now closed); took Microondas road to camp  
Rob got one S. cyanocephalus 1.8 mi N. Cienega de las  
Flores; Low of 22°C for 14th; walked 13.2 km today

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13 June 1982 (Cont.)

Went out at 8:30 pm, along cuts of microondas road +  
Found 13 Sceloporus cyanogenys + 1 Bufo punctatus  
saw S. parvus hatching

14 June 1982 Mamulique Pass, NL to 11 mi NE Freer, Texas

6:50 am, broke camp 7:30 am; stopped at bottom of  
Mamulique Pass, 1450 ft; some 20 mi S. of Sabinas  
Hidalgo, in grove of oaks, Mesquite, Acacia + Ebony;  
saw S. variabilis, S. grammicus, C. gularis, E. Tetrapneustes,  
+ caught 2 S. olivaceus (#39, 40) and 1 S. cyanogenys +  
stopped at corner 15.4 mi S. Sabinas Hidalgo + found  
Masticophis taeniatus ruthveni nr. water overflow. 1375 ft;  
Drove to S. Hidalgo, + found S. olivaceus 1.6 mi  
W. of S. Hidalgo on Mesquite tree; (#41); Drove to  
Ojo de Agua (2.6 mi W. S. Hidalgo) + collected 3  
S. olivaceus (#42, 43, 44); saw more but very shy +  
ran up trees. Drove on to Laredo, looking for olivaceus  
but saw only S. cyanogenys (very common). Crossed  
border at 5 PM (DST) + drove on to Freer after  
buying groceries. Stopped ± 11 mi NE Freer at  
roadside park for night. (Ate in Freer for \$11.41).

15 June 1982 11 mi NE Freer to Colleta Station, Texas

On road by 8:30 am; driving 59 to Collet, then 77A, 77  
to La Grange, then 159/290, etc. to Colleta Station. arrived  
Colleta Station 7:30 pm. Walked only 8.5 km this date,  
but drove miles today. We found the following  
lizards today in route from Freer to Col. Sta.;  
Including 1 S. undulatus ♂, 7.3 mi S. Schulenberg, Live oak  
Lavaca Co; Ophedryx aestivus 10.3 mi W. Beeville, Bee Co.  
LOA 500, T: 150 mm ♀

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15 June 1982 (cont.)

The following Sceloporus olivaceus were taken (see #)

(#45) 18.3 mi NE Freer, Duval Co; (#46) 19.5 mi NE  
Freer, McMullen Co; (#47) 22.2 mi NE Freer, McMullen Co;  
(#48) 22.7 mi NE Freer, McMullen Co; (#49) 22.7 mi NE  
Freer; Live Oak Co; (#50) 9.9 mi SW George West; Live  
Oak Co; (#51) 7.8 mi SW George West; Live Oak Co;  
(#52) 1.0 mi NE George West; Live Oak Co; (#53) 11.0 mi  
NE George West; Live Oak Co; (#54) 7.0 mi SW  
Beeville, Bee Co; (#55) 4.3 mi SW Beeville, Bee Co;  
(#56) 11.4 mi SW Goliad, Goliad Co; (#57) 2.8 mi N  
Goliad, Goliad Co; (#58) 8.3 mi S Cuero, DeWitt Co;  
(#59, 60) 4.7 mi S Cuero, DeWitt Co; (#61, 62, 63, 64, 65)  
Cuero, DeWitt Co; total of 21 S. olivaceus today,  
a very warm + windy day. Dropped all specimens  
at office, Rob home, + us to house;



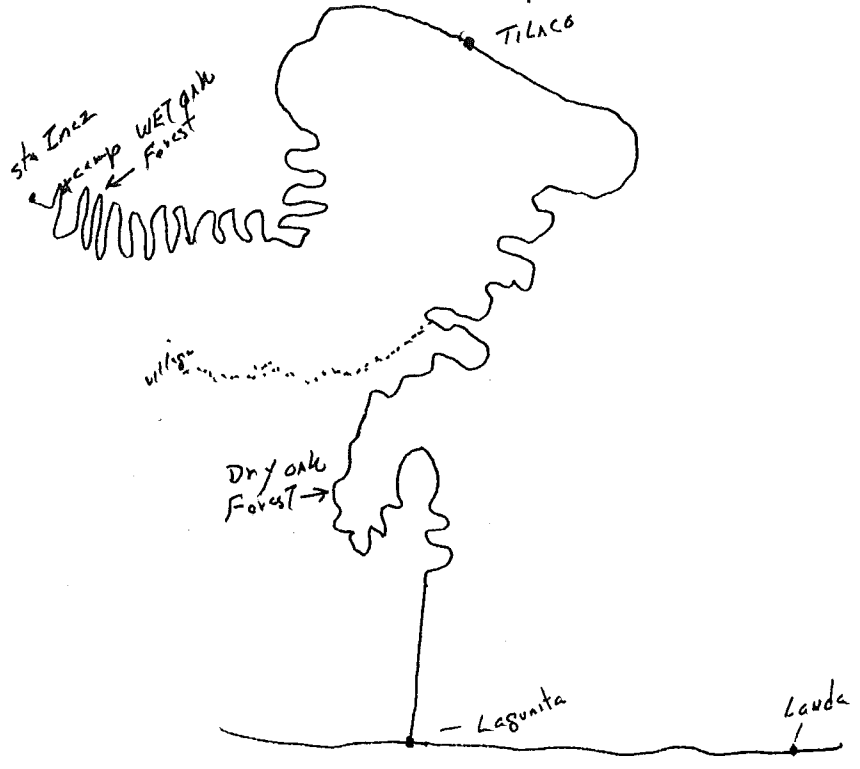
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30 June 1982 College Station, TX - Rancho EL Chorro, Coahuila, Mex:  
Left Col. Sta 8:30 am; arrived San Antonio 12:15 pm;  
Lieb's house; Left 12:30 pm; arrived Laredo 3:30 PM;  
crossed & on road to Satillo by 4:15 pm - Arrived Rancho  
EL Chorro, 6000', just below Hwy 57; (Los Lirios Road)  
8:30 pm. New Loop around satillo begins  $9\frac{1}{2}$  mi E Satillo  
& is  $9\frac{1}{2}$  mi Long, arriving Hwy 57 near Belk Union. Now  
9:30 PM - Bedtime. Drove 537 miles today.

1 July 1982 Rcho. EL Chorro, Coahuila - X-Hda Conca, Queretaro  
Left camp site 8:30 am; arrived Hda. Conca 4:30 pm.  
Some 390 miles today. Alexander Sharpton died last year  
& Eloise has remarried Mario Perez, & they are selling  
the Hda. They expect to be in Dallas in six months at  
3032 Mobella, Dallas, TX 75229. Still have a bad cold,  
not feeling well; drove thru rain all day, mountain roads,  
bad roads, & am some tired. Toby & Carl Lieb out.  
Looking at twilight. Old truck seems to keep running.  
Lieb just came in with an adult Aneides from under  
a stone near where we walked earlier. Also caught Anolis  
sericeus ♀ on tree, but released, time 8:30 pm (DST). Carl  
caught ♀ Elaphe guttata by sawmill wall.

2 July 1982 X-Hda. Conca to 1 mi W. Santa Inez, 4300' Queretaro  
Up at 7:00 am; stayed until 11:15 am, when Schmidly  
arrived. Toby found Aneides papillosus under stone  
by spring, & I photographed it in several poses.  
Drove into Jalpan & ate lunch; Schmidly waited for  
Daniel Navarro & we left for Santa Inez. Drove  
to Lagunita & turned right to Tilaco 10.4 mi;



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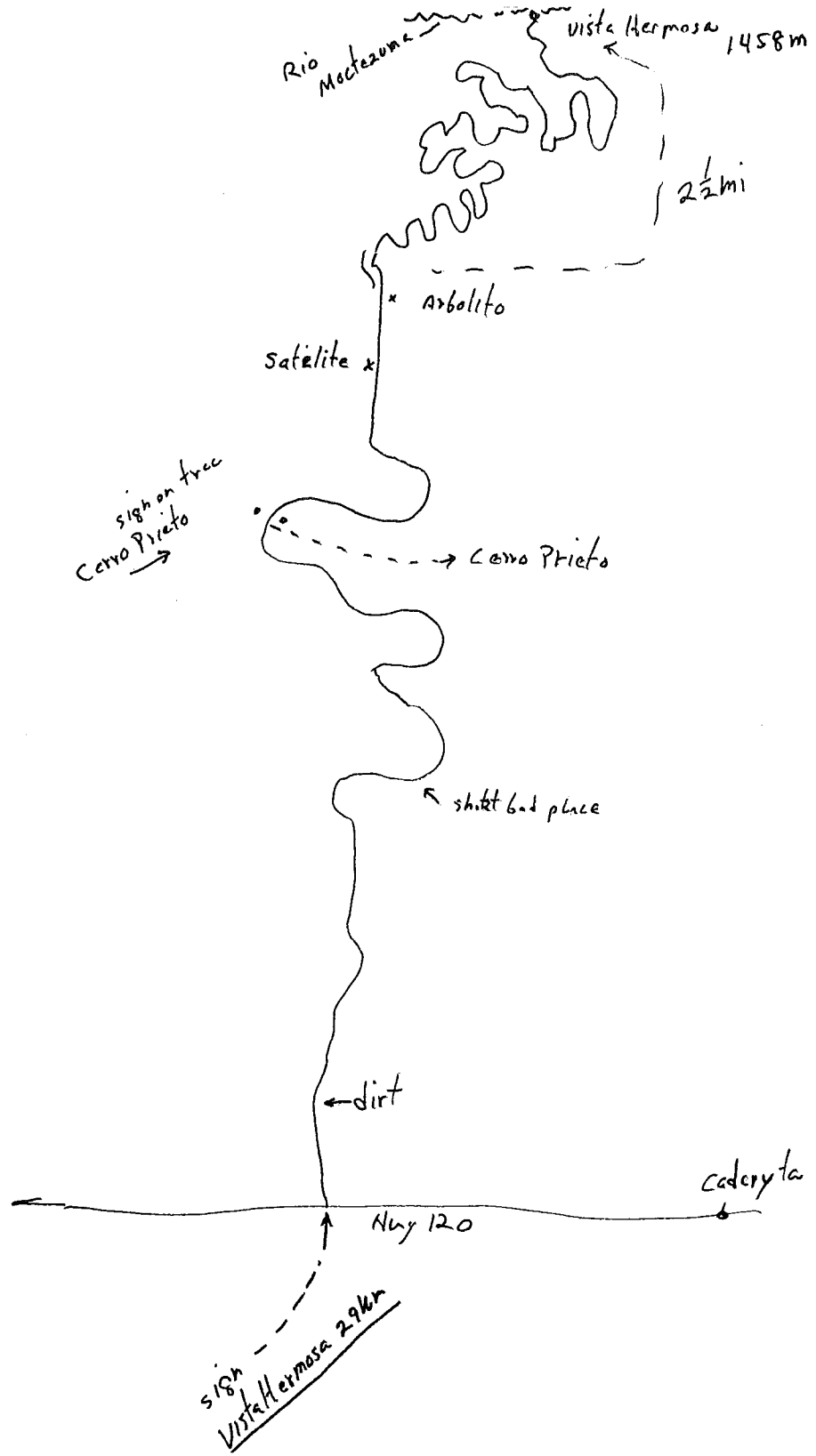
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stopped at top of first pass, 4300'; dry oak forest, 5.9 mi S. Lagunita; where Carl stopped in 1979 + found Anelytropsis + Lepidophyma gaigeae in Dec. We saw S. variabilis only. Drove on to Tilaco + stopped 2 1/2 mi E of Tilaco + waited for Schmidt. He showed up at 4:15 pm, we saw S. variabilis again. Drove on to 5.7 mi E. Tilaco, in wet oak forest (1 mi W. Sta Inez) 4300'. Rained shortly there after + Syrrophus called (Toby caught one) - wet miserable evening; put up tent + in bed by 9:00 pm.

3 July 1982

Ca Sta Inez to Ca. Peña Blanca, Queretaro

Worked area around camp; saw several Lepidophyma gaigeae (Coll. 4); + S. variabilis (Coll. 1). LEFT at 11:30 am for Jalpan (Schmidt with flat to fix). 1 hr from camp to highway. Mostly narrow (1-way); arrived Jalpan 1 pm. cokes + sandwich, on road to Camargo by 1:15 pm. Saw Cnemidophorus below Camargo. Drove to Peña Blanca for coke; then to Peña Miller (road now paved). From Peña Miller returned to wide place in road; ± 4.5 mi E. P. Miller; found B. punctatus (3) Bufo occidentalis (2) + 4 dead; + saw S. exsul, Cnemidophorus, S. spinosus (1). From Peña Miller, we found the following; B. punctatus, 4.9 mi E; 8.0 mi E; 8.7 mi E; B. occidentalis 4.8 mi E.; spent night in gravel pit; found Syrrophus guttulatus at pit on rock 6.8 mi E. Peña Miller. 4200 ft.; Many Mosquitos out; miserable night; slapping bugs all night. - Didn't put up tent but should have.



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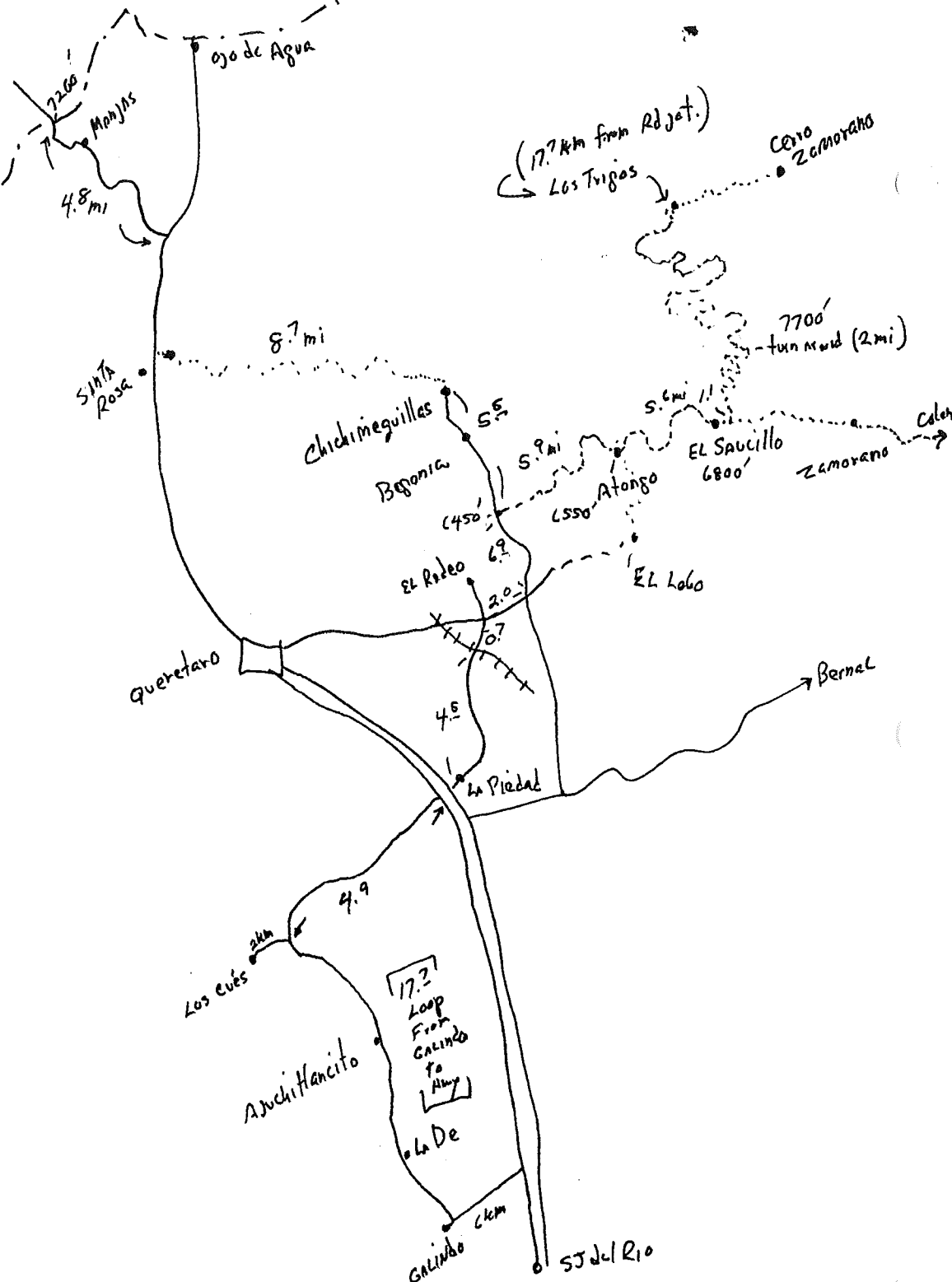
4 July 1982 Up at 7 am; chased Cnemidophorus + Sceloporus, but failed to catch any. Many good sites for S. exsul in clumps of Hectia. Drove on to Vizarion For cokes, then to Vista Hermosa turnoff, 8.2 mi<sup>N</sup> from Cadereyta, 29 km due E, 6700'; at miles E of junction of Vista Hermosa Rd + Hwy 120 - Hypsiglena torquata ① Cnem. rauni ②, 2.2 mi at 6650'; S. spinosus - seen every 100' or so to 3 mi W. of Vista Hermosa; Sceloporus parvus ① 3.8 mi at 6600'; Cnem. rauni ③, S. parvus (NPU) 5.8 mi at 6550'; at Cerro Prieto turnoff; Sceloporus parvus ① 7.7 mi at 6600'; top of hill with granite dome, + strange Yucca. town of Satelite, 12.7 mi E; 6000'; S. spinosus ① 13.9 mi E at 6300'; Arbolito school sign 14.8 mi E; Vista Hermosa at 17.9 mi; 1458 m; 4700'. ate lunch; + returned uphill. Last 2 mi is terrible down hill one-way road to V. Hermosa; which is on banks of Rio Moctezuma; + in thorn, Acacia, tree cactus vegetation; collected Bufo punctatus 15.1 mi E. at 6150'; at top of canyon wall. Returned to main Hwy 120 at 2 pm. Drove to San Juan del Rio (1.3 mi N. Dor Pituophis deppoi), on to turnoff to Amealco; Galindo; 10.5 mi Amealco, 7350 ft; 4 Toluca nasus, 1 Thamnophis eques, 1 Sceloporus torquatus. Drove to Amealco + then to San Idefonso road, where we were stopped by car of Secret Police, who searched our entire truck + gear. They confiscated Toby's pen knife (stole it is a better term) and after searching all suitcases, boxes; + other gear (all the time I'm asking.. what are you searching for?) (with no answers) - They were finally satisfied, smiled, and said goodbye!

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4 July 82 (cont.) We drove out the San Ildefonso road to the hill above town - all pasture - Farm Land; turned around at 7.6 mi, & drove back to La Muralla turnoff & drove down it for 3.2 mi, all pasture - Farm Land with trees along arroyos; returned to Amealco / Ildefonso rd junction & drove to La Piedad rd junc; 11.5 mi. S Amealco; & camped 0.4 mi E. of Hwy on Piedad Rd. at elev. of 8200 ft. During evening, heard Hyla arenicolor (2) & some unknown anuran in arroyo behind camp; also found Toluca nasus (2), & Sceloporus dupesi (5). Carl picked up DOR Thamnophis eques 3.5 mi SE Amealco; on San Ildefonso Rd. Walked to presa during night, but found nothing. Turned in 9:15 pm.

5 July 1982 La Piedad Rd Camp to San Juan Del Rio, Quer. (Motel La Paloma)  
up 9:15 pm. 47°F cool. 'Night somewhat cool.' Quick coffee & oatmeal & then turned rocks - Saw 20+ S. dupesi, retained 2; kept 5 of 6 Toluca nasus; 2 of S. torquatus & 4 S. grammicus, for records only. Back to camp by 10 am. Drove up road to San Jose Itho, 9000', = Continental Divide; some 4.9 mi SE Amealco. Observed S. torquatus at Amealco & North 0.4 mi; 3.2 mi, 5.4 mi, 6.2 mi (at Quiotillas) 7500'; also saw R. pipiens, Hyla arenicolor (kept one); at 6.9 mi N; turn. FF to EL Batán; 7.5 mi N; 7450'; collected 3 Thamnophis eques, 1 Sceloporus multiplicatus; made photos of Barranca at 7350'; 9.2 mi N Amealco; S. torquatus seen 11.6 mi N, 7050', S. spinosus seen at 6950'; 12.4 mi N; Desert vegetation; photos; volcanic rock & fences of same; S. torquatus seen at 12.8 mi N; 6800'; in desert vegetation, Galindo 6500'; 15.9 mi N. Amealco. refrescos for 28p; drove to S.J. del Rio, gased, & to Motel La Paloma (675p) for 4.



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5 July 1982 cont. Walked to town at 5pm; caught opals (5) for 500<sup>00</sup>p.,  
+ 28k of Amethyst for 560<sup>00</sup>p. Ate supper 1421<sup>00</sup>p.  
+ back to motel by 8pm. Caught S. grammicus ♀ on  
tree in motel grounds at 5pm saw ♂ + other ♀♀ too,  
also yg S. torquatus.

6 July 1982 San Juan Del Rio, Quer., - San Luis Potosi, SLP.  
Up 7:30 AM; on road by 9:30 AM; drove to Amealco turn-off,  
then to Galindo; took new road towards Los Cués; (see map  
opposite); stopped at junction to Los Cués + picked up S. spinosus.  
Drove on to Mexico-Queretaro Hwy. junct., on to La Griega,  
to Atongo turn-off; then 12.6 mi of dirt road to Cerro  
Zamorano turn-off + then drove to top of Mesa (2 mi) on  
very rough road. Saw S. spinosus, S. torquatus, Cnem.;  
across most of road from Galindo to La Griega; then  
S. spinosus, Cnem. to turn around at top of mesa. Collected  
at 7700 ft, made pictures; but found 3 Toluca nasus,  
1 Trimorphodon fax; 1 Bufo punctatus; 3 Cnem. raui;  
4 S. spinosus, 1 S. jarrovi; + 2 snake skins. Returned to  
highway to Chihuahimiquillas, then dirt road to Santa Rosa  
junct with main highway from SLP to Queretaro. Saw  
Cnem. + S. spinosus in route. Drove N to S.M. Alameda  
turn-off + drove it to state line, some 4.8 mi + at 7200'.  
Main vegetation at top nr. C. Zamorano (7700') was opuntia,  
Nopal, Teddybear Cholla, Leatherstem; Yucca, Hectia;  
over a granite soil + outcrop. Decided to drive on to  
SLP and motel; arriving there at 7:00 pm.