

Costa Rica

all taken at  
09° 28' 32.3" N - 82° 46' 58.5" W

p. 1

Tissues

- 1. Norops humilis (tail)
- 2. Lepidoblepharis xanthostigma (tail)
- 3. Dendrobates pumilio (toe)
- 4. " " (toe)
- 5. " auratus (toe)
- 6. Colostethus floater (toe)
- 7. Phyllobates lugubris (toe)
- 8. Sphaenomorphus chevrei (tail)
- 9. Gonatodes sibogularis (tail)
- 10. Dendrobates auratus (toe)
- 11. Gonatodes albobularis ju. (tail)
- 12. Eleutherodactylus megalacephalus (toe)
- 13. Colostethus floater (w)
- 14. Eleutherodactylus cerasinus (Eggs)
- 15. " " (liver) ♀
- 16. " talamancae (liver)
- 17. " gageae (liver)
- 18. " gollmeri (liver)
- 19. " " (liver)
- 20. " sp. (Chickor) "
- 21. Smilisca phaeota (Liver)
- 22. Boa constrictor (Blood) 4.35 kg. <sup>SVL</sup> 1740 <sup>Tail</sup> 810mm
- 23. Clelia clelia (Blood) 1.3 kg. <sup>SVL</sup> 1410 <sup>Tail</sup> 380
- 24. Norops lemurinus ♂ tail
- 26. Norops biporcatus (blood)
- 25. Hydromorphus concolor ♀ (blood)
- 27. Norops lemurinus ♂ (tail)
- 28. Xenodon rhabdocephalus (Liver)
- 29. Norops biporcatus "
- 30. Norops lemurinus "

fissures

31. Sphenomorphus charriei  
 32. Porthidium nasutum  
 33. Oxybelis aeneus  
 34. Idromorphus concolor  
 35. Lachesis stenophrys  
 36. Porthidium nasutum  
 37. Micrurus alleni  
 38. Geophis hoffmani  
 39. Sibon annulata  
 40. Diploglossus bilobatus  
 41. Sphaerodactylus cf. homolepis  
 42. Norops limifrons ♂ (tail)  
 43. Lachesis stenophrys ♀ 11/68 SVL 598 tail 66  
 44. Ameiva festiva (tail, juv.)  
 45. Corytophanes cristatus (tail)  
 46. Nomidactylus frenatus ♀ 6/63 (2SR) 6.0g.  
 47. Diploglossus monodopsis 152/156 (2SR) 18.5g.  
 48. Sibon annulata 215/114, 2.0g.  
 49. Oxybelis brevirostris ♀ (blood)  
 50. Basiliscus vittatus ♂ (Blood) . ♂ 37g, 332/112  
 51. PtychoGLOSSUS plicatilis (tail) ♂ 1.8g; 47/-  
 52. Norops capito (tail)  
 53. Trimetopon stuevini . ♂ 2.1g 180/63  
 54. Oxyrhophus pettolarius ♀ 80g, 720/205

Journal  
Costa Rica trip

- 1-10-08 Toby, Rachel, Mary, Terry and I left Bryan, Texas, on Jan 10, 2008, for Dallas Airport at 9:15am, arrived at Rachel's Father's house at 12:15pm; Van Driver waiting for us; at airport by 1:10pm. Time-wise, the process through customs, security check, tickets, and to waiting at gate 11, took about 1:10 hrs. Plane Late (as usual) Left Airport at 4:40pm; (1 hr late) arr. Mexico city 6:50pm, flight to San Jose to leave at 7:50; actually left at 8:35pm. Arr. San Jose at 11:15pm. David waiting, grabbed van to Dalia's house (35<sup>00</sup>), talked with other crew until 2am.
- 1-11-08 Up at 5:40am, David up to cedula station to renew right to vote card. Leave at 9:00 for EL Limon & to station. 50km W of EL Limon for potty stop. Finally arrived at 1:45 to trailhead. All suitcases, gear, etc., had to be hand-carried for 2hrs to reach top of hill. Lara, Amanda, & John Malone helped Mary get up the hill. We arrived at station 4pm. Mary was helped as much as possible, but she made it! We had ~~bowls~~ bowls with sauce for supper and beans & rice. Sebastian, the manager of the station, gave us a talk about the area, trails, & if he has time, will lead us to the water falls on Sunday. Mary and I stayed in while others helped until 11:30pm. They found Basiliscus plumifrons (7-10), Norops limifrons, E. garciae, E. jicstema, E. telemancas, S. sordida, E. carolinus; Crow went out about 8:30, back at 11:30pm, with 1 Boa, 1 Sibon annulata, 1 M. alleni, 1 B. nasutus, 1 D. bilobatus; E. videns, 1 E. mesolecephalus.

1-12-08. Up at 6:30am, breakfast of Bread + honey; + coffee. Started downhill at 9am; walked back out to road; + back up again, arriving back at 11:48am. Going + coming, we found Nothops, Sphenomorphus 210ft,  $9^{\circ}38'33.1N$ - $82^{\circ}47'06.2W$  Sphaerodactylus, Eleutherodactylus, D. pumilio, P. auratus, Colostethus; N. humilis, Rice, beans, col, + chicken for lunch, took tissues after lunch of 8 species (entered on tissue sheet by #). The Colostethus was a talamancae with full yellow stripe dorsolaterally. The station is  $9^{\circ}38'22.4$ ,  $82^{\circ}46'58.7$ ". 165m., the Road is at 20m; + the tower is 220m. We walked to the Raptor tower above the station this pm. - Mary made it fine!

1-13-08 Up at 6:30am, ready to walk to primary forest by 9am. We walked for 8 hrs; thru rain forest (uncut) to Two water Falls (Kokoli Creek the large one) + Finally back to station at 3:30pm. Some Long Long walk. David Laurencio found a Lachesis stenophrys on ridge line under small rotten log + trash. We captured it and brought it back to camp. I was standing behind David when he saw it after he had tried to turn the small log. We also found an adult ♀ Rhinoclemmys funerea in Kokoli creek we took photos + turned it loose. We found several frogs, and brought them back. Amanda + Chris left at 6pm for Manizillo CR., then fly out on the 17th to USA. This evening another Lachesis stenophrys was found, as well as a Gephyis hoffmani:

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1-14-08 Slept fairly well, with some cramps in my calves. Up at 6:30; pan cakes for breakfast plus coffee. I hope to collect tissues from crickets this morning. It began raining at 7:15 am. Station reading  $09^{\circ} 38' 23.3'' N - 82^{\circ} 46' 58.5'' W$  456 ft., Made photos of Lachesis stenophrys, Sphenomorphus chermiei, Eleutherodactylus megacephalus, Boa constrictor, Gerrhonotus hoffmanni, Dendrobates auratus + Dendrobates pumilio, and Mary holding Boa. about 1:30pm, I made short walk down ridge to where the first drift fence was established. I decided to drop down slope to check it before I returned. In upper left funnel I found a Xenodon rhomboides in funnel - It mimicked a Bothriopsis perfectly. I photed it on return. Terry + Taly found another Oxybelis aeneus. Began raining at 7:10 to 7:40pm.

1-15-08 Up at 6:30am; crew found Clelia clelia + Hydromorphus concolor, Norops limitans, Smilisca phaeota + a few Eleutherodactylus sp. last night; Going to pull tissues this morning. Decided to bleed large snakes + release them. Today bleed from Boa, Clelia, Hydromorphus, and Livers from S. phaeota, E. gullmeri, E. garipae, E. conisus, E. sp., and E. falamanceae, tail from N. Lemurinus, whole of Celestethus; bleed from N. biporcatus. After lab work, we walked past Reptar Tower to ck trail, found ♀ N. biporcatus (Terry), back to eat lunch, worked around station, while Dave + Taly + wives went to Puerto Viejo for day. John Malone left a 3pm to join them (maybe) Mary, Terry, Jacob + I stayed behind. Supper at 7, and still no rain for day. Found N. limitans? this sp. pale to white due to without orange spots

1-15-08 (Cont.) A kinkajou visited our family and Terry took photos of it eating a cocoa fruit (Cacao). We also found a *Thecadactylus rapicauda* in between men + women's potties. Terry's room had a visit from a porcupine about midnite. He took pictures of it in the 3rd floor room. Crew came in from beach about 12:30 am; heard them walking + talking.

1-16-08 The station is named Kéköldi Wak Ka Koneke, a Gribri indian tribe name + Language. David indicated that *Norops limifrons* may not have the orange basal spot in the dewlap as Savage book indicates. My specimen does not have the spot. Mary found a *sphaerodactylus* sp on upper porch, chased it off and guys caught it on ground. Very yellow orange tail + pale stripes on face; scales below tail widely, + a single supracaudal. I now have 43 tissue tubes with about 30 individual species. The crew is planning a night hike to The Falls to look for frogs. It will probably be the last time to visit there. I fell twice today on the wet trail. I am not going tonight. I fell over a root + hurt a thigh muscle, so climbing and going down hill is not easy. When Sebastian arrived, we ate supper while Toby + Dave tried to catch a *Hemidactylus frenatus*. After supper Sebastian + son got into the chase, + finally caught one on bath/toilet house roof. Our sixth species. They decided to put off the evening Falls trip to tomorrow evening. We had a Mexican porcupine in our room this pm. Finally ran it out to our adjoining room. Haven't seen it back since about 4 pm.

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1-17-08 Up at 6:00am; no disturbance at night. Breakfast at hotel at 7am; by 8:30, pulling all drift fences and buckets + spring fences under station. One bucket in upper set below station on right (westside) contained an adult Diploglossus mondropsis. The crew stayed around last night, but worked stream for swabbing chitrid fungus samples from amphibians. S. sordida, S. phoca, C. coracinus, E. tekmanense, + B. marinus. Toby saw a pair of H. valeroi in amplexus. I saw a very large Ameiva sunning by the station looked very much like A. leptophrys but on wrong side of CR. Caught a juv. Ameiva festiva + took tail (#44). Everyone is anticipating the walk to the Falls at 5:30pm. to check on the amphibian fauna. Sebastian is to come in at 4:30pm early supper, + off to Falls. David + I preserved took tissues, of H. frenatus, D. mondropsis, and Sison annulata, after everyone had photographed them. We released the C. cristatus + A. festiva. Sebastian showed up, had supper at 5:30pm, + as group was preparing to leave, a downpour began about 6:00. It is now 8pm, + still raining. The porcupine finally left and jumped in John's room. As I came up stairs to our room, I encountered a Keckia, ran it off the porch on to the bath/potty roof where it jumped to some trees and hid in the canopy of a palm tree. It seems as if the trip to the Falls may not take place for crossing this trip. Evoyam had a bet on as to how many new species would be found. Now we will not determine the total. Tomorrow is the last day at the station. We leave at 8am for San Jose on Saturday.

1-18-08 Up at 6am; we had to chase Kinkajou's out of kitchen + bedrooms last night. The heavy rain from 6-9pm may have brought them to the porches. Mary + I packed bag inside bag to reduce bulk; + leaving some clothes + gear behind. I photoed the Oxybelis brevirostris ♀ (held by David). David + Laura walking down trail to Hobe Creek to send list in to San Jose for export permit. All material is coming back to ZWC from Keköldi Wakka Koneche. Toby + Rachael came in about 12:15 with a Basiliscus vittatus + Norops cupido from nr Bridge over creek at Stan Creek. Also observed N. humilis, N. limifrons, D. pumilio, D. auratus, P. lugubris, etc. Rachael, Tob, + Terry walked ridge towards Raptor tower + Lek site, + she found a small Ptycho glossus plicatilis; No rain tonight, Sebastian treated us to cake + icecream. After I went to bed, but Toby, John, + David went to stream. Along the way (trail) they found Bothriops aspor (S5'); Oxyrhophus pectolatus, and Trimetopon cf. stevini.

1-19-08. Up at 4:40am; got Mary up at 5:15am; packed up suitcases; + started walk downhill with Mary at 6:05. John met us post-walk down; + walked w Mary out to bottom of station grounds. We arrived there at 7:40am. I had Mary change clothes nr log so she could sit down. We left site at 8:30am, stopped for breakfast nr the town of Penhurst. 6<sup>00</sup> for Mary's L; Finally made it to San Jose by 1:15pm. Drove directly to Dalia's house. Had lunch with Dalia, showered, repacked gear; John + Jacob to airport at 2:30pm; Crew to shop; Finally working animals at 6:30pm. Lv at 4:30am for airport!



1-19-08 (cont) worked cwitter until 10pm. Made vials of Oxyrhynchus petolarius + Trimetopon slouini (Lucas). This ended the fissure drive for TSU. In bed by 10:30pm.

1-20-08 Had to get up twice during night. Finally got up at 3:45am. Every one up by 4am, van came at 4:30am; said our goodbyes to Laura + David. At airport by 5:05am; cost 52<sup>00</sup> departure tax. Made it through customs; had quick breakfast at Burgerking. Bought 2 sets earrings, 3 key chains, 1 Apron for 80<sup>00</sup>. Plane is loaded, it appears we are leaving on time. Arrived Mexico City at 10:05am; immigration gave us another run-around even tho we told them we were in transit from CR to USA. Finally settled in for 50min wait in for Dallas flight. As we boarded plane, the immigration people looked through our carry on, + confiscated Mary's water. It is now 2:15pm, & we are approaching the Dallas/Ft. Worth Airport. We just passed the Fed Ex / U.P.S. airport just N. of Ft. Worth.

10-20 Jan 2008  
Kekohi, CR

Number	class	order	family	genus	species
1	Amphibia	Caudata	Plethodontidae	Oedipina	cyclocauda
2	Amphibia	Anura	Bufo	Bufo	coniferus
3	Amphibia	Anura	Bufo	Bufo	marinus
4	Amphibia	Anura	Leptodactylidae	Eleutherodactylus	cerasinus
5	Amphibia	Anura	Leptodactylidae	Eleutherodactylus	diastema
6	Amphibia	Anura	Leptodactylidae	Eleutherodactylus	galgeae
7	Amphibia	Anura	Leptodactylidae	Eleutherodactylus	gollmeri
8	Amphibia	Anura	Leptodactylidae	Eleutherodactylus	megacephalus
9	Amphibia	Anura	Leptodactylidae	Eleutherodactylus	noblei
10	Amphibia	Anura	Leptodactylidae	Eleutherodactylus	polyptychus
11	Amphibia	Anura	Leptodactylidae	Eleutherodactylus	talamancae
12	Amphibia	Anura	Leptodactylidae	Leptadactylus	pentadactylus
13	Amphibia	Anura	Hylidae	Agalychnis	calcarifer
14	Amphibia	Anura	Hylidae	Agalychnis	callidryas
15	Amphibia	Anura	Hylidae	Smilisca	phaeota
16	Amphibia	Anura	Hylidae	Smilisca	sordida
17	Amphibia	Anura	Centrolenidae	Centrolenella	ilex
18	Amphibia	Anura	Centrolenidae	Hyalinobatrachium	valerioi
19	Amphibia	Anura	Dendrobatidae	Colostethus	flotator
20	Amphibia	Anura	Dendrobatidae	Colostethus	talamancae
21	Amphibia	Anura	Dendrobatidae	Dendrobates	auratus
22	Amphibia	Anura	Dendrobatidae	Dendrobates	pumilio
23	Amphibia	Anura	Dendrobatidae	Phyllobates	lugubris
24	Amphibia	Anura	Ranidae	Rana	warschewitschii
25	Reptilia	Testudinata	Emydidae	Rhinoclemmys	funerea
26	Reptilia	Sauria	Corytophanidae	Basiliscus	plumifrons
27	Reptilia	Sauria	Corytophanidae	Basiliscus	vittatus
28	Reptilia	Sauria	Corytophanidae	Corytophanes	cristatus
29	Reptilia	Sauria	Polychrotidae	Norops	biporcatus
30	Reptilia	Sauria	Polychrotidae	Norops	capito
31	Reptilia	Sauria	Polychrotidae	Norops	carpenteri
32	Reptilia	Sauria	Polychrotidae	Norops	humilis
33	Reptilia	Sauria	Polychrotidae	Norops	lemurinus
34	Reptilia	Sauria	Polychrotidae	Norops	limifrons
35	Reptilia	Sauria	Polychrotidae	Norops	oxylophus
36	Reptilia	Sauria	Gekkonidae	Hemidactylus	frenatus
37	Reptilia	Sauria	Gekkonidae	Lepidoblepharis	xanthostigma
38	Reptilia	Sauria	Gekkonidae	Thecodactylus	rapicauda
39	Reptilia	Sauria	Gekkonidae	Gonatodes	albugularis
40	Reptilia	Sauria	Gekkonidae	Sphaerodactylus	homolepis
41	Reptilia	Sauria	Scincidae	Sphenomorphus	cherriei
42	Reptilia	Sauria	Telidae	Ameliva	festiva
43	Reptilia	Sauria	Gymnophthalmidae	Ptychoglossus	plicatus
44	Reptilia	Sauria	Anguillidae	Diploglossus	bilobatus
45	Reptilia	Sauria	Anguillidae	Diploglossus	monotropis
46	Reptilia	Serpentes	Boidae	Boa	constrictor
47	Reptilia	Serpentes	Colubridae	Clelia	clelia
48	Reptilia	Serpentes	Colubridae	Dendrophidion	percarinatum
49	Reptilia	Serpentes	Colubridae	Dipsas	bicolor
50	Reptilia	Serpentes	Colubridae	Geophis	hoffmanni
51	Reptilia	Serpentes	Colubridae	Hydromorphus	concolor
52	Reptilia	Serpentes	Colubridae	Imantodes	cenchoa
53	Reptilia	Serpentes	Colubridae	Oxybelis	aenus
54	Reptilia	Serpentes	Colubridae	Oxybelis	brevirostris
55	Reptilia	Serpentes	Colubridae	Oxyrhopus	petolaris
56	Reptilia	Serpentes	Colubridae	Sibon	annulatus
57	Reptilia	Serpentes	Colubridae	Trimetopon	slevini
58	Reptilia	Serpentes	Colubridae	Xenodon	rabdocephalus
59	Reptilia	Serpentes	Elapidae	Micrurus	alleni
60	Reptilia	Serpentes	Elapidae	Micrurus	mosquitensis
61	Reptilia	Serpentes	Viperidae	Bothriechis	schlegelii
62	Reptilia	Serpentes	Viperidae	Bothrops	asper
63	Reptilia	Serpentes	Viperidae	Lachesis	stenophrys
64	Reptilia	Serpentes	Viperidae	Porthidium	nasutum

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