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Fundación para el
Desarrollo de las Ciencias
Físicas Matemáticas y Naturales

cerro
de la **neblina**

Resultados de la Expedición
1983—1987

CHARLES BREWER - CARIAS
EDITOR
Caracas, 1988

Preliminary Field Report

Herpetology

Jan. - March 1985

Three herpetologists (Roy W. McDiarmid, Rex B. Cocroft, Alfredo Paolillo) worked at Neblina from 25 January to 4 March 1985. Amphibians and reptiles were collected at the Base Camp, Whitewater River, and Loma de las Pinas in the lowlands and at Camps I, II, VII, X and XI on the Cerro. A total of 610 specimens were collected, totaling 127 specimens of reptiles (2 turtles, 1 crocodile, 31 snakes, 92 lizards) of 45 species and 483 specimens of amphibians (all frogs) of 34 species. In general, the collection covered many areas, sampled several species new for the project and added at least 5 new species to the already large list. We estimate that as many as 15 new species of amphibians and reptiles were collected during the total project; this represents about 20% of the total fauna and more than 90% of the highland fauna. This high number of new species (including at least 2 new genera) is truly remarkable.

In addition to adding several species to the Neblina list and capturing many species for the first time in Venezuela, we were able to get considerable information regarding the life history and reproduction of many species of frogs. Tape recordings of 22 species were made, 12 of which are new species or genera; tadpoles of 10 species were collected.

Several of the species collected at high elevations show modified reproductive modes (e.g., direct development in most species of frogs) and one has a highly modified tadpole with a large sucker for living in fast currents. In addition, three species (the new bufonid genus and the two species of the lizard *Riolama*) add considerably to our understanding of the zoogeographic patterns characteristic of Pantepui and tie the eastern

(Roraima, etc.) tepuis with the western ones (Neblina). The first species with Andean affinities was recorded with the capture of *Phenacosaurus*, a lizard known previously only from the Andes and Coastal Range.

Finally, Bill Buck, Tom Givnish and I studied the survival of *Neblinaria* in an extensively burned area near Camp X. Our results clearly indicate that the endemic genus is fire adapted and suggest that fires may be of relatively common occurrence on Neblina.

Roy W. McDiarmid

Rex B. Cocroft

10 March 1985

HERPETOLOGICAL COLLECTIONS - CERRO DE LA NEBLINA

Updated January 1988

Roy W. McDiarmid and Alfredo Paolillo O.

	LOCALITY	AMNH	USNM	UCV	LARVAE/	
					SKELETON	PHOTO
AMPHIBIA		ZC/M1,M2	R1/R2	A,A,A/U,U		
GYMNOPHIONA						
CAECILIIDAE						
Caecilia tentaculata	BC*	/1,				
Osaecilia ? sp a	BC*	/1,				
ANURA						
BUFONIDAE						
Bufo granulosis	PtA	2/				
Bufo guttatus	BC,PC	12/2,1	21/6	,6, / ,6	2 skel.	ZR
Bufo marinus	BC,RP	3/1,2	3/3	,2, / ,3		
Bufo typhonius	BC,PC	25/23,2	38/14	,16,3/,19	dev.ser+sk	ZR
bufonid sp nov	II,VI,VII	1/	1/28			R
CENTROLENIDAE						
Centrolenella sp nov	BC		/4		1 egg,tad	R
Centrolenella sp nov	II,X,XI		/25			R
DENDROBATIDAE						
Tolostethus fuliginosus	BC*	1/				
Colostethus sp a	BC,PC,V	14/25,	37/15	,17,,12	2 tadlots	ZR
Colostethus sp c	PtA		/1			
Dendrobates leucomelas	PtA	/1,				
HYLIDAE						
Hyla boans	SC,SL,RP,BC	3/13,3	3/6	,12,3/,5	tads	R
Hyla crepitans	PtA	1/	/1			
Hyla geographica	BC,BC*	/		,1, /	dev.ser.	Z
Hyla granosa	SC	/3,	/1	,3,,1		
Hyla hobbsi	BC,BC*	/	1/	,4, /		R
Hyla lanciformis	BC	3/1,1	/1	,1,2/		Z
Hyla marmorata	BC		1/			Z
Hyla minuta	BC,SC		/2	,1,,1		R
Hyla parviceps	SOL	/9,		,8, /		
Hyla sarayacuensis	BC		1			R
Hyla sp a	SOL	/4,		,3, /		
Ololygon rostrata	SC,SOL	/2,		,2, /		
Ololygon rubra sp a	SL,PtA	3/1	1/	,1,		Z
Ololygon rubra sp b	SOL	/1,				
Osteocephalus leprieurii	BC	11/1,	8/	,2, /		Z
Osteocephalus taurinus	BC,BC*	41/6,1	27/6	,8,1/,6	1 skel.	ZR
Phyllomedusa bicolor	BC				tads	
Phyllomedusa tomopterna	BC		/1	,,/,2	tads?	
Phyllomedusa vaillanti	BC,BC*	1/1,		,1, /	dev.ser.	Z
Phrynohyas resinifictrix	BC	2	3/		2 ser tad	ZR
Stefania sp nov	BC	4/ ,1	4/1			ZR

hylid sp nov a	I-III,VII,X,XI	6/,1+1me	6/8	,,1/,7	tads	ZR
hylid sp nov b	I,VII,X,XI	1/,1	1/6	,,1/,6	tads	R
hylid sp nov c	V		1/			
LEPTODACTYLIDAE						
Adelophryne sp nov	II,V,VII,XI		2/7			R
Adenomera andreae	SC,BC*,BC,PC	17/16,	15/27	,16, /	1 C&S	ZR
Eleutherodactylus "bromeliad"	II,III,VII	18/ ,6	8/44	,,5/	eggs	ZR
Eleutherodactylus "bromlike"	I,II,X,XI		2/32			R
Eleutherodactylus "stream"	VII,XI	/ ,4	/47	,,3/		
Eleutherodactylus "violet"	VII,XI	/ ,1	1/8			R
Eleutherodactylus "V"	V		1/			
Eleutherodactylus "spiney"	VII	/1,				
Eleutherodactylus zeuctotylus?	BC,BC*,PC	1/3	2/11	,9,/		R
Eleutherodactylus "short toe"	XI		/2			
Leptodactylus knudseni	BC	4/1,		,,,/,2	1 skel	Z
Leptodactylus longirostris	SC,SOL,BC	/6,	/5	,1, /		
Leptodactylus mystaceus	BC,BC*	1/1,	1/8	,1,,/1		R
Leptodactylus ocellatus	PtA		/1			
Leptodactylus riveroi	BC,BC*	27/8,	13/6	,11,,/7	1 skel	ZR
Leptodactylus rugosus	PtA		/4	,/ ,1		
Leptodactylus wagneri	BC	13/ ,	3/12			ZR
Leptodactylus sp a	II		1/			
Lithodytes lineatus	BC	3/ ,		,1, /		Z
leptodactylid sp nov	II	1/ ,	12/2		2 eggs	ZR
Vanzolinius discodactylus	BC	1/ ,		,1,,/		
MICROHYLIDAE						
Adelastes hylonomos	BC	3/ ,	2/1		1 C&S	ZR
Chiasmocleis hudsoni	BC		2/1			ZR
Otophryne robusta	BC		/1			R
Synapturanus salseri	BC	2/1,	1/1	,,/, ,2		ZR
PIPIDAE						
Pipa pipa	BC		1/	,,/, ,1		ZR
RANIDAE						
Rana palmipes	BC,BC*	18/12,1	23/8	,9,1/,7	4tads+1skl	R
REPTILIA						
SAURIA						
GEKKONIDAE						
Gonatodes humeralis	BC,PC	10/8,1	8/8	,7,,/8		ZR
Hemidactylus palaichthus	PtA,SC	4/2,		,2,,/1		Z
Pseudogonatodes sp	BC	1/5,	5/1	,4,,/2,		ZR
Thecadactylus rapicauda	BC	2/ ,1	1/1	,,/,		R
IGUANIDAE						
Anolis auratus	PtA	9/				Z
Anolis chrysolepis planiceps	BC,BC*,PC	8/3,	8/4	,5,,/3		ZR
Anolis fuscoauratus	BC	4/2,1	7/4	,1,,/4		R
Anolis punctatus	BC	1/	1/1			R
Phenacosaurus sp nov	II,III,VII,X	1/ ,1	1/1	,,1/,1		R

<i>Plica plica</i>	BC	1/2,1	2/5	,3,1/,5	R
<i>Plica umbra</i>	BC	1/1,	/1	,2,/,2	
<i>Tropidurus torquatus</i>	PtA	2/	/1		
<i>Uracentron azureum</i>	BC			1	R
<i>Uranoscodon superciliosa</i>	BC,BC*	/2,	2/	,2,/,	ZR
SCINCIDAE					
<i>Mabuya sp</i>	SL,BC,I	8/2,	2/1	,2,/,1	Z
TEIIDAE					
<i>Ameiva ameiva</i>	PtA,BC	6/6,	6/3	,5,/,3	ZR
<i>Arthrosaura reticulata</i>	BC	3/	5/1	,,/,	R
<i>Arthrosaura sp nov</i>	V,XI		1/1		R
<i>Bachia cophias</i>	BC		1/		
<i>Bachia sp nov a</i>	BC		1/		R
<i>Cnemidophorus lemniscatus</i>	PtA	2/			
<i>Kentropyx calcaratus</i>	BC	7/5,1	12/4	,6,/,4	R
<i>Leposoma hexalepis</i>	PtA	5/1		,,/,	Z
<i>Leposoma percarinatum</i>	BC	3/ ,	1/1	,1,/,1	R
<i>Neusticurus medemi</i>	BC	1/	2/	,, /	R
<i>Neusticurus sp nov a</i>	PC	/1		,1, /	
<i>Riolama sp nov a</i>	II	1/	1/		R
<i>Riolama sp nov b</i>	II,VII	2/	5/7		1 C&S ZR
<i>Tretioscincus agilis</i>	BC	3/2,	4/4	,2,/,5	R
AMPHISBAENIA					
AMPHISBAENIDAE					
<i>Amphisbaena fuliginosa</i>	SC		/1		R
SERPENTES					
BOIDAE					
<i>Boa constrictor</i>	SC,BC	/1,7		,,7/	
<i>Corallus caninus</i>	BC			,,/,1	R
<i>Corallus hortulanus</i>	BC,RP	3/1,	4/1	,,/,1	ZR
<i>Epicrates cenchria</i>	BC			,1, /	
<i>Eunectes murinus</i>	BC,BC*	1/3,	/1	,2, /	ZR
COLUBRIDAE					
<i>Atractus torquatus</i>	BC	/1,			
<i>Chironius carinatus</i>	BC		2/		R
<i>Chironius exoletus</i>	BC		1/		
<i>Clelia clelia</i>	SC		/1		R
<i>Dendrophidion dendrophis</i>	PC	/1,			
<i>Dipsas catesbyi</i>	BC		/1		R
<i>Dipsas cf indica</i>	XI		/1		R
<i>Dipsas sp</i>	V		1/		
<i>Drymoluber dichrous</i>	BC	1/			
<i>Helicops sp nov</i>	BC	/1,	/3	,1,/,4	R
<i>Imantodes cenchoa</i>	BC,BC*	1/1,	1/	,, /	Z
<i>Leptodeira annulata</i>	BC	/1,1	/1	,,1/,1	
<i>Leptophis ahaetulla</i>	BC,VII	1/1,	/2	,, /,1	R
<i>Leptophis sp nov</i>	I		1/		R

<i>Oxybelis aeneus</i>	BC		1/			R
<i>Oxyrhopus formosus</i>	BC	/, 1	2/	, , / , 1		ZR
<i>Oxyrhopus melanogenys</i>	BC			, , / , 1		R
<i>Oxyrhopus petola</i>	BC		1/			ZR
<i>Philodryas viridissimus</i>	BC	/1,	1/			R
<i>Tantilla melanocephala</i>	BC	1				Z
<i>Tripanurgos compressus</i>	SC			, 1, /		
<i>Umbrivaga sp</i>	SC		1/			
CROTALIDAE						
<i>Bothrops atrox</i>	SC, BC		2/1	, 1, /		
<i>Bothrops bilineatus</i>	BC		/1			R
<i>Bothrops brazilii</i>	BC		/1	, , / , 1		R
<i>Bothrops castelnaudi</i>	BC	/, 1				
ELAPIDAE						
<i>Micrurus hemprichti</i>	SC		/1			
<i>Micrurus psyches remotus</i>	BC		/1	, , / , 1		R
<i>Micrurus surinamensis natterii</i>	BC	/, 1				
CROCODILIA						
ALLIGATORIDAE						
<i>Paleosuchus trigonatus</i>	BC		1/4,	3/	, 4, /	skull R
TESTUDINES						
CHELIDAE						
<i>Phrynops nasutus</i>	BC		1/			
PELOMEDUSIDAE						
<i>Peltocephalus tracaxa</i>	BC*		/1			
TESTUDINIDAE						
<i>Geochelone denticulata</i>	BC	/, 1	/1	, , / , 1		

Totals: total species = 131; Neblina species = 110; total specimens (excluding tadpoles and skeletons) = 1717

Localities

- BC = Base Camp
- BC* = area from lower Baria to above Base Camp but not immediate vicinity of Base Camp
- PC = Puerto Chimo, mouth of Cañon Grande
- PtA = Puerto Ayacucho
- RP = Rio Pacimoni
- SC = San Carlos de Rio Negro
- SL = Santa Lucia
- Sol = Solano on the Casiquiare
- I-XII = numbers designating camps on Cerro de la Neblina

Photos Z = Zweifel; R = McDiarmid; M = Myers; C = Cole; P = Paolillo