

MISCELLANEOUS PUBLICATIONS
MUSEUM OF ZOOLOGY, UNIVERSITY OF MICHIGAN NO. 166

**Type-Specimens of Amphibians in
the University of Michigan
Museum of Zoology**

by

Arnold G. Kluge
Museum of Zoology
and Division of Biological Sciences
The University of Michigan
Ann Arbor, Michigan 48109

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November 22, 1983

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WILLIAM D. HAMILTON, EDITOR

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INTRODUCTION

The University of Michigan Museum of Zoology amphibian type-collection has more than doubled in size since James A. Peters summarized its holdings in 1952. He recorded a total of 166 species, five Gymnophiona, 50 Caudata, and 111 Anura. As of April 30, 1983 the collection totalled 352 species, 11 Gymnophiona, 89 Caudata, and 252 Anura. Its regional strengths continue to be North America and the New World tropics.

The late Charles F. Walker, Curator of Amphibians and Reptiles in the University of Michigan Museum of Zoology, left a partial manuscript updating and correcting Peters' type-list. Comparison of Peters' and Walker's lists revealed that further additions and emendations needed to be made. Also, I found that more complete data and comments useful to UMMZ curators and monographers could be added to most species accounts. For these reasons I have undertaken the revision, and I present an annotated current list of amphibian types in the Museum of Zoology.* While my account does not resemble Professor Walker's, the impetus for its production was derived from his efforts.

FORMAT

In the list to follow, species have been alphabetically arranged in each genus, and the genera alphabetically within the three amphibian orders. A species' taxonomic status is indicated with an "equals" sign, when different from that in the original description, and the currently recognized taxa are cross-referenced. I have used a standard form of literature citation to reference the original publication; however, the month and day of publication are included, when known, and all text-figures, plates and maps pertaining to the description of the new taxon are cited. Figure references following the plate designation (pl.) are plate-figures, those before it are text-figures. I have only distinguished topotypic materials when they are also allotypes and paratypes. I do not record UMMZ specimens that became types after being exchanged to another institution. The number of specimens immediately follows the UMMZ catalogue number, and subadult-adult morphology can be assumed unless otherwise indicated. A collection abbreviation and associated catalogue number preceded by an equals sign describes a specimen's present repository and number. An abbreviation and number in parentheses, but not preceded by an "equals" sign, describes the specimen's registry as it was used in the description of a new taxon. The type-locality begins with the country of origin, followed by the state (province or department), when given in the original description, and the specific locality. All country names have been translated into their present-day equivalents. The size of the list has forced me to use abbreviations where reasonable. Further, I have occasionally restructured the author's type-locality format in order to make all the accounts presented here more readily comparable. I have taken the liberty of converting all measures to the metric system.

Explicit reference to type-material has not always been a part of the descriptions of new taxa, and seemingly endless disputes over a specimen's type-status are common in the literature on amphibians and reptiles. I have included specimens in this list for which

*The list of reptile-types will be published separately.

there is direct evidence that they were used by the author in describing a new taxon, and that the author considered representative of the new form. I rarely resorted to circumstantial evidence to determine a specimen's type-status. The attribution of paratype is often a particularly difficult one, and I express my strongest doubts in the associated Remarks section.

The collection abbreviations used in the list are those recommended by the Joint Herpetological Resource Committee (Anon., 1980). They are as follows:

AMNH	American Museum of Natural History.
ANSP	Academy of Natural Sciences, Philadelphia.
BMNH	British Museum (Natural History).
CAS	California Academy of Sciences.
CFW	Charles F. Walker, personal collection.
CGC	Chapman Grant, personal collection.
CHINM	Instituto Nacional de Microbiología, Buenos Aires.
CM	Carnegie Museum.
CSNS	Cincinnati Society of Natural History.
DMS	David M. Sever, personal collection.
DSL	David S. Liem, personal collection.
EDB	Edmund D. Brodie, Jr., personal collection.
EHT-HMS	Edward H. Taylor and Hobart M. Smith, personal collection.
FMNH	Field Museum of Natural History.
JAP	James A. Peters, personal collection.
KU	University of Kansas Museum of Natural History.
MCZ	Museum of Comparative Zoology, Harvard University.
MN	Museu Nacional, Rio de Janeiro.
MNHNP	Muséum National d'Histoire Naturelle, Paris.
MVZ	Museum of Vertebrate Zoology, University of California, Berkeley.
NMB	Naturhistorisches Museum, Basel.
OS	Ottys Sanders, personal collection.
RGMC	Musée Royal de l'Afrique Centrale.
SU	Stanford University Natural History Museum (now CAS—SU).
TC	Harold Trapido and Robert Clausen, personal collections.
TCWC	Texas Cooperative Wildlife Collection.
UIMNH	University of Illinois Museum of Natural History.
UMMZ	University of Michigan Museum of Zoology.
UPR	University of Puerto Rico.
USC-CRE	Costa Rica Expeditions; formerly at University of Southern California, now at University of Miami.
USNM	National Museum of Natural History, Washington, D.C.
WCAB	Werner C. A. Bokermann, personal collection.

TYPE-SPECIMENS

GYMNOPHIONA

Afrocaecilia taitana (Loveridge)—see *Boulengerula taitanus* Loveridge

Afrocaecilia uluguruensis (Barbour and Loveridge)—see *Boulengerula uluguruensis* Barbour and Loveridge

Boulengerula taitanus Loveridge = *Afrocaecilia taitana* (Loveridge)

Bull. Mus. Comp. Zool. Harvard, 79(1), Feb., 1935, p. 16.

PARATYPE, 90660 (MCZ 20019-23, untagged duplicate). KENYA: COAST: Mt. Mbololo, Taita Mtns., 1372 m. A. Loveridge, April 14–26, 1934.

Boulengerula uluguruensis Barbour and Loveridge = *Afrocaecilia uluguruensis* (Barbour and Loveridge)

Mem. Mus. Comp. Zool. Harvard, 50(2), Dec., 1928, p. 183.

PARATOPOTYPE, 147024 (MCZ 12365). TANZANIA: Vituri, Uluguru Mtns. Arthur Loveridge, Oct. 27, 1926.

Caecilia abitaguae Dunn

Bull. Mus. Comp. Zool. Harvard, 91(6), Dec., 1942, p. 508.

HOLOTYPE, 89930. ECUADOR: ORIENTE: Abitagua, 1100 m. Sept. 25, 1939.

PARATOPOTYPE, 89929. Data as for holotype, except: May, 1940.

REMARKS.—The type-series was received from W. Clarke-MacIntyre and a field tag and the accession card list him as collector.

Caecilia corpulenta Taylor

The Caecilians of the World, Univ. Kansas Press, Lawrence, 1968, p. 365, figs. 191–92.

HOLOTYPE, 65253. "Río de Pache Porte." W. R. Allen.

REMARKS.—Number 65253 was accessioned between Sept. 22 and Oct. 13, 1922, and the UMMZ catalogue record actually reads "R. de Pache, Porte, W. R. Allen collector, received from C. H. Eigenmann." The locality was deciphered by Alexander G. Ruthven from Allen's field tag as "Río de Pacho Norte" (in correspondence to C. H. Eigenmann, Oct. 13, 1922). Taylor thought the place-name was misinterpreted from a faulty label, which might have read "Río Pachitea (Pasco and Huanuco, Perú or Río Tapiche, Loreto, Perú)." Number 65253 was probably collected between May 9, 1920 and Jan. 2, 1921 on the University of Indiana Centennial Expedition (Eigenmann and Allen, 1942). I believe the place of collection was incorrectly transcribed into the UMMZ catalogue, and should be Perú: Pasco: Río Pichis, Puerto Bermudez, a locality W. R. Allen is known to have visited in July, 1920 (Allen, 1921a,b). I am led to this conclusion by comparing the restricted type-locality to Allen's known collecting stations (Eigenmann and Allen, 1942). Number 65253 also served as a paratype of Dunn's *C. degenerata* (see below).

Caecilia degenerata Dunn

Bull. Mus. Comp. Zool. Harvard, 91(6), Dec., 1942, p. 505.

PARATYPE, 65253. ???Río de Pache, Porte. W. R. Allen.

REMARKS.—This specimen was listed as 65263 by Dunn. He was unable to place the locality, and noted that it was part of Eigenmann's collections. Number 65253 also served as the holotype of Taylor's *C. corpulenta* (see above).

Caecilia dunni Hershkovitz

Occ. Paps. Mus. Zool. Univ. Mich., (370), April 12, 1938, p. 2, 1 fig.

HOLOTYPE, 82901. ECUADOR: NAPO-PASTAZA: nr. Tena, ca. 518 m. Philip Hershkovitz, Dec., 1935.

Caecilia perdita Taylor

The Caecilians of the World, University of Kansas Press, Lawrence, 1968, p. 399, figs. 208–211.

HOLOTYPE, 121036. COLOMBIA: CHOCÓ: Andagoya, Condoto. M. Latham, May, 1957.

PARATOPOTYPE, 121037. Data as for holotype.

REMARKS.—A field tag gives the type-locality as “Andagoya-Condoto area” and Marte Latham as the collector.

Dermophis eburatus Taylor = *Dermophis mexicanus* (Duméril and Bibron)

The Caecilians of the World, University of Kansas Press, Lawrence, 1968, p. 473, fig. 252.

HOLOTYPE, 65674 (MCZ, uncatalogued). NICARAGUA.

Dermophis mexicanus (Duméril and Bibron)—see *Dermophis eburatus* Taylor**Epicrionops petersi petersi** Taylor

The Caecilians of the World, Univ. Kansas Press, Lawrence, 1968, p. 224, figs. 112–16.

PARATOPOTYPES, 163242, (JAP 7100 [USNM 160360]), 163243 (JAP 7101 [USNM 163243]). ECUADOR: MORONA-SANTIAGO: Agua Rica, between Limón and Gualaceo, 1890 m. James A. Peters, Aug. 19, 1962.

REMARKS.—The author (p. 224) claimed that this material was paratopotypic (as listed above), but then went on to state “same collector 1962, 20 km. N of La Bonita, Napo-Pastaza Province, Ecuador, elevation 6248 ft.” *Epicrionops petersi noblei* Taylor has page precedence over *E. petersi petersi* Taylor; however, it was Taylor’s intent (1972) that the name *petersi* should have priority over *noblei*. Number 163242 is now cleared and stained, with the skin and viscera retained in alcohol, and the skeleton recatalogued as 174041.

Scolecormorphus lamottei Nussbaum

Copeia, 1981(2), May 15, 1981, p. 265, figs. 1–2.

PARATOPOTYPES, 174495–96 (MNHNP 1979.7442–43). CAMEROON: Mt. Oku, 2300 m. Maxime Lamotte, Nov., 1975.

REMARKS.—The skull of 174496 has been recatalogued as 174497.

Scolecormorphus uluguruensis Barbour and Loveridge

Mem. Mus. Comp. Zool. Harvard, 50(2), Dec., 1928, p. 180.

PARATYPES, 90661 (2, MCZ 12211, 12215). TANZANIA: Nyingwa, Uluguru Mtns. Arthur Loveridge, Oct. 15 (MCZ 12215) and 19 (MCZ 12211), 1926.

CAUDATA

Ambystoma cingulatum bishopi Goin

Ann. Carnegie Mus., 31(14), Sept. 15, 1950, p. 300, figs. 1–2, pl. 1, figs. 3–5.

PARATYPES, 73989, 77062 (2 larvae), 100695, 100982-83. UNITED STATES: FLORIDA: Jackson; Marianna. Walker and Dury, Feb. 19, 1933 (73989). Nr. Cottondale. A. Carr, April 5, 1934 (77062). Escambia; ca. 8 km. N Pensacola. Harvard Nygren, June 6 and Sept. 10, 1949 (100982-83). GEORGIA: Early; jct. Colquit-Blakely and Hilton-Damascus Rds. ("White's Place"). C. F. Walker, Feb. 3, 1950 (100695).

Ambystoma granulorum Taylor

Univ. Kans. Sci. Bull., 30(1)5, May 15, 1944, p. 57, pl. 8, figs. 1-3.

PARATYPE, 117244 (EHT-HMS 24089). MÉXICO: 16.1 km. W Toluca. E. H. and R. C. Taylor, 1940.

Ambystoma lacustris Taylor and H. M. Smith

Proc. U.S. Natl. Mus., 95(3185), 1945, p. 532, pl. 18, figs. 1-2.

PARATOPOTYPE, 117246 (larva, EHT-HMS 22905). MÉXICO: Lake Zumpango. E. H. Taylor and H. M. Smith, Sept. 6, 1939.

Ambystoma macrodactylum krausei (W. Peters)—see *Ambystoma stejnegeri* Ruthven

Ambystoma subsalsum Taylor

Copeia, 1943(3), Oct. 15, 1943, p. 152, figs. 1-3.

PARATOPOTYPE, 117245 (larva, EHT-HMS 28382). MÉXICO: PUEBLA: Lake Alchichica. Dyfrig McH. Forbes and Edward H. Taylor, Aug. 14-15, 1942.

REMARKS.—Number 117245 is also a paratopotype of *Ambystoma taylori*.

Ambystoma stejnegeri Ruthven = *Ambystoma macrodactylum krausei* (W. Peters)

Proc. U.S. Natl. Mus., 41(1874), June 22, 1912, p. 517.

PARATOPOTYPES, 41971-72. UNITED STATES: IOWA: Davis; Bloomfield. George H. Berry, July 27, 1906.

REMARKS.—Ferguson (1963) claimed the specimens were mislabeled as to geographic origin.

Ambystoma taylori Brandon, Maruska, and Rumph

Bull. So. Calif. Acad. Sci., 80(3), 1981, p. 116, figs. 2-5.

PARATOPOTYPE, 117245 (larva, EHT-HMS 28382). MÉXICO: PUEBLA: Laguna Alchichica, ca. 24 km. SW Perote. Dyfrig McH. Forbes and Edward H. Taylor, Aug. 14-15, 1942.

REMARKS.—Number 117245 is also a paratopotype of *Ambystoma subsalsum*.

Ambystoma tigrinum diaboli Dunn

Copeia, 1940(3), Nov. 14, 1940, p. 160.

HOLOTYPE, 50156. UNITED STATES: NORTH DAKOTA: Devil's Lake. M. Brannon.

PARATOPOTYPE, 50157. Data as for holotype.

REMARKS.—The author did not explicitly designate paratypes, although he acknowledged examining 69 adults and 20 larvae of his new species. Some investigators may not consider 50157 a paratype.

Batrachuperus karlschmidti Liu

Fieldiana, Zool. Mem., 2, June 15, 1950, p. 87.

PARATYPE, 92418 (USNM 107354). CHINA: SIKANG: Jedo. D. C. Graham.

REMARKS.—This specimen was listed erroneously as 92318 by Liu (1950:89).

Bolitoglossa cuchumatana (Stuart)—see *Oedipus cuchumatanus* Stuart

Bolitoglossa dunni (K. P. Schmidt)—see *Oedipus dunni* K. P. Schmidt

Bolitoglossa engelhardti (K. P. Schmidt)—see *Oedipus engelhardti* K. P. Schmidt

Bolitoglossa epimela Wake and Brame

Rev. Biol. Trop., 11(1), 1963, p. 63, figs. 1–2.

HOLOTYPE, 119695. COSTA RICA: CARTAGO: Turrialba-Peralta Rd., 10 km. NE Río Reventazón bridge (ca. 11.3 km. ENE Turrialba), ca. 915 m. Priscilla and Andrew Starrett, July 29, 1957.

PARATOPOTYPES, 119696, 123661–64. Data as for holotype, except: Priscilla and Andrew Starrett, and Thomas M. Uzzell, Jr., Aug. 3 (119696).

REMARKS.—The UMMZ catalogue lists Uzzell as one of the collectors of 119695 and 123661–64.

Bolitoglossa flavimembris (K. P. Schmidt)—see *Oedipus flavimembris* K. P. Schmidt

Bolitoglossa franklini franklini (K. P. Schmidt)—see *Oedipus franklini* K. P. Schmidt

Bolitoglossa franklini nigroflavescens Taylor—see *Bolitoglossa nigroflavescens* Taylor

Bolitoglossa galaenae Taylor = *Pseudoeurycea galaenae* (Taylor)

Proc. Biol. Soc. Wash., 54, July 31, 1941, p. 83.

PARATYPE, 92423 (USNM 110650). MÉXICO: NUEVO LEÓN: 24 km. W Galeana, 1585 m. Hobart M. Smith, Oct. 13–14, 1939.

REMARKS.—Taylor (1944) emended the name to *P. galeanae*.

Bolitoglossa hartwegi Wake and Brame

Los Angeles Nat. Hist. Mus. Contr. Sci., (175), June 30, 1969, p. 10, figs. 1–13, 15–16.

HOLOTYPE, 121557. MÉXICO: CHIAPAS: 7.2 km. W San Cristobal de Las Casas, ca. 2134 m. Floyd L. Downs, June 30, 1960.

Bolitoglossa helmrichi (K. P. Schmidt)—see *Oedipus helmrichi* K. P. Schmidt

Bolitoglossa lincolni (Stuart)—see *Oedipus lincolni* Stuart and *Bolitoglossa resplendens* McCoy and Walker

Bolitoglossa morio (Cope)—see *Magnadigita omniunsanctorum* Stuart

Bolitoglossa nigroflavescens Taylor = *Bolitoglossa franklini nigroflavescens* Taylor

- Univ. Kans. Sci. Bull., 27(1)8, Nov. 1 (Dec. 15), 1941, p. 150, pl. 8, pl. 9, figs. 9-10.
- PARATOPOTYPES, 92419-20 (USNM 111160, 111186). MÉXICO: CHIAPAS: Cerro Ovando, 1524-1828 m. Dr. and Mrs. Hobart M. Smith, April 16, 1940.
- Bolitoglossa nigromaculata** Taylor = *Pseudoeurycea nigromaculata* (Taylor)
Univ. Kans. Sci. Bull., 27(1)8, Nov. 1 (Dec. 15), 1941, p. 141, fig. 1A-B, pl. 9, figs. 5-6.
- PARATOPOTYPE, 92422 (USNM 110632). MÉXICO: VERACRUZ: Cuautlan. H. M. Smith, Jan.-Feb., 1940.
- Bolitoglossa occidentalis** Taylor
Univ. Kans. Sci. Bull., 27(1)8, Nov. 1 (Dec. 15), 1941, p. 145, fig. 1C, pl. 9, figs. 1-2.
- PARATOPOTYPE, 92421 (USNM 111068). MÉXICO: CHIAPAS: La Esperanza, 152.4 m. Dr. and Mrs. Hobart M. Smith, April 28, 1940.
- Bolitoglossa odonnelli** (Stuart)—see *Oedipus odonnelli* Stuart
- Bolitoglossa resplendens** McCoy and Walker = *Bolitoglossa lincolni* (Stuart)
Occ. Paps. Mus. Zool. Univ. Mich., (649), Sept. 29, 1966, p. 1, figs. 1-3, pl. 1.
- PARATYPES, 118823-24. MÉXICO: CHIAPAS: 13 km. SE San Cristobal de las Casas. A. B. and N. K. Hooper, Aug. 10, 1958.
- Bolitoglossa savagei** Brame and Wake
Los Angeles Nat. Hist. Mus. Contr. Sci., (69), Oct. 11, 1963, p. 31, figs. 13-14, 20B, 23, 25.
- HOLOTYPE, 54595. COLOMBIA: MAGDALENA: Sierra Nevada de Santa Marta, Cerro San Lorenzo, 1400-2100 m. A. G. Ruthven, July 1, 1920.
- PARATOPOTYPES, 45615-20, 45622-26, 45628-30. Data as for holotype, except: July 21 (45615) and 22 (45616-19). A. S. Pearse, July 5 (45622) and 7 (45620). 1615.4 m. A. S. Pearse, July 8 (45623). 1372 m. July 22 (45624-26, 45628-30), 1913.
- PARATYPES, 48195, 48213, 54592-93, 63334, 63335 (24, 2 = USC-CR). Data as for holotype, except: Sierra Nevada de Santa Marta (no specific loc.), July 21, 1913 (48213). San Miguel, Don Diego, 1800-2100 m. M. A. Carriker, April 24, 1914 (48195). La Cumbre, 2140 m. M. A. Carriker, Oct., 1925 (63334). La Popa on Cerro San Lorenzo, 1525 m. M. A. Carriker, no date (63335). Quebrada Viernes Santo, E slope Cerro San Lorenzo, 1500-1800 m. (54592-93). June 13 (54592) and 16 (54593).
- REMARKS.—Only San Lorenzo is given as the specific locality in the catalogue, and Brame and Wake's more exact references come from field notes. According to Ruthven (1922:37), San Lorenzo is a large isolated mountain peak lying to the northwest of the main Sierra Nevada de Santa Marta. The main peak reaches a little over 2740 m., and various amphibian and reptile type-localities include Cerro Quemado, at its western end, and Cincinnati, a large coffee plantation lying on the

western slopes between 914 and 1676 m. Brame and Wake give the year of collection of the holotype as 1913.

Bolitoglossa schizodactyla Wake and Brame

Fieldiana, Zool., 51(1), July 25, 1966, pl. 1, figs. 1-5.

PARATYPES, 124513-15. PANAMÁ: PANAMÁ: 1.6 (124513) and 4.8 (124514-15) km. NW Posado San Antonio, Cerro Campana. R. Dressler, March 19 (124513), and O. J. Sexton, March 20 (124514-15), 1963.

Bolitoglossa sooyorum Vial

Rev. Biol. Trop., 11(1), 1963, p. 89, figs. 1-2.

PARATOPOTYPE, 124517 (USC-CR 2612). COSTA RICA: CARTAGO: 19.2 km. SE El Empalme, Cordillera de Talamanca, Cerro de la Muerte (= Cerro Buena Vista), 2745 m. Lynda W. and James L. Vial, 1963.

Bolitoglossa stuarti Wake and Brame

Los Angeles Nat. Hist. Mus. Contr. Sci., (175), June 30, 1969, p. 22, figs. 1-3, 6-7, 14, 16.

HOLOTYPE, 123203. GUATEMALA: HUEHUETENANGO: 12.6 km. (by rd.) SE Ciudad Cuauhtemoc (El Ocotal), Chiapas, México. T. J. Cohn, Sept., 1961.

Bolitoglossa walkeri Brame and Wake

Los Angeles Nat. Hist. Mus. Contr. Sci., (219), Jan. 26, 1972, p. 18, figs. 5a-b, 6, 8.

HOLOTYPE, 128833. COLOMBIA: VALLE DEL CAUCA: Television Tower Mt., 15 km. WNW Cali and 0.9 km. S El Jordan, 2050 m. Walter Moberly and Kraig K. Alder, July 17, 1965.

Bolitoglossa xolocalcae Taylor = *Dendrotriton xolocalcae* (Taylor)

Univ. Kans. Sci. Bull., 27(1)8, Nov. 1 (Dec. 15), 1941, p. 148, pl. 7, pl. 9, figs. 7-8.

PARATOPOTYPE, 114070 (UIMNH 27205). MÉXICO: CHIAPAS: Cerro Ovando, 2073-2438 m. Dr. and Mrs. Hobart M. Smith, April 16, 1940.

REMARKS.—The date of collection given in the UMMZ catalogue is Oct. 8, 1939.

Chioproteritron arboreus (Taylor)—See *Oedipus multidentata* Taylor

Chioproteritron chondrostea cracens Rabb

Occ. Paps. Mus. Zool. Univ. Mich., (587), June 6, 1958, p. 28, pl. 3, map 1.

HOLOTYPE, 114069. MÉXICO: TAMAULIPAS: ca. 11.3 km. WNW Gómez Farías, "Agua Linda," 1814 m. Paul S. Martin, March 18, 1953.

PARATOPOTYPES, 111320 (43, 1 missing). Data as for holotype.

PARATYPES, 102907 (10), 102908, 105344 (2), 105345 (3), 105346-47, 105348 (2), 105349 (6, 1 missing), 105350, 105351 (2), 105352-53, 105369 (4), 105370 (2), 105371 (9), 105372, 105373 (5), 105374 (8, 1 missing), 105375, 105376 (7), 105379 (3), 109234, 111319 (3).

Data as for holotype, except: "Rancho Viejo," ca. 8 km. W Gómez Farías, ca. 1219 m. (102907) and 1372 m. (102908), July 29–31 (102907) and Aug. 1 (102908), 1950. "Rancho del Cielo," ca. 8 km. NW Gómez Farías, ca. 1067 m., P. S. Martin, C. R. Robins and W. B. Heed, May 24 (105376) and 25 (105369), 16 (105370–71), 17 (105372), 20 (105373), 28 (105374), and 31 (105375), 1949, C. F. Walker and W. B. Heed, Aug. 20 (105344–45, 105348–49), Aug. 27 and Sept. 1 (105351), and W. B. Heed, Aug. 27 (105346), 1950. "Agua de los Indios," ca. 11.3 km. WNW Gómez Farías, ca. 1524 m. C. F. Walker, Sept. 1, 1950 (105347, 105353). Gómez Farías—La Joya de Salas trail, ca. 1585 m. C. F. Walker, Aug. 25, 1950 (105350). "Rancho del Cielo"—"Agua de los Indios" trail. W. B. Heed and C. F. Walker, Aug. 30, 1950 (105352). Gómez Farías—La Joya de Salas trail at Agua Zarca, ca. 1524 m. P. S. Martin, C. R. Robins and W. B. Heed, May 26, 1949 (105379). Ca. 8 km. NW Gómez Farías, "Ranch del Cielo," ca. 1097 m. C. F. Walker, Aug. 20, 1950 (109234). 4 km. NW La Gloria, "La Lagunita," ca. 1890 m. P. S. Martin, June 4, 1953 (111319).

REMARKS.—Number 111319 consists of three specimens, not one as listed by Rabb, and 111320 consisted of 43, not 42. The author used only a general collection station for 105369–76, 105344–53, 105379, and 109234. The paratypes FMNH 73810–11 were originally part of the UMMZ 105344 and 105348 series, respectively, and MCZ 38273–74 were taken from UMMZ 102907.

***Chiropterotriton magnipes* Rabb**

Breviora, Harvard, (235), Nov. 19, 1965. p. 1, figs. 1–2.

PARATOPOTYPE, 125423. MÉXICO: SAN LUIS POTOSÍ: Cueva de Potrerillos, ca. 2 km. WSW Ahuacatlan, ca. 8 km. SW Xilitla, 1100 m. Kraig Adler, July 28, 1964.

PARATYPE, 125179. MÉXICO: QUERÉTARO: Cueva del Madroño, nr. Laguna Colorada, Municipio de Landa de Matamoros. F. Bonet, Jan. 16, 1952.

REMARKS.—The UMMZ catalogue also lists J. Brown and G. Musser as collectors of 125423.

***Chiropterotriton mosaueri* (Woodall)**—See *Oedipus mosaueri* Woodall

***Chiropterotriton prisca* Rabb = *Chiropterotriton priscus* Rabb**

Fieldiana, Zool., 39(3), Sept. 17, 1956, p. 11, fig. 2.

PARATOPOTYPES, 112317–18. MÉXICO: NUEVO LEÓN: nr. Ojo de Agua, Cerro Potosí, ca. 17.7 km. WNW Galeana, 2438 m. E. J. Koestner, Aug. 16, 1938.

PARATYPES, 112316, 112319. Data as for paratopotypes, except: 3658 m. Harry Hoogstraal, July 21 (112319). Ojo de Agua, no elev. Harry Hoogstraal, July 16 (112316).

***Chiropterotriton priscus* Rabb**—see *Chiropterotriton prisca* Rabb

***Cryptobranchus alleganiensis bishopi* Grobman**—see *Cryptobranchus bishopi* Grobman

Cryptobranchus bishopi Grobman = *Cryptobranchus alleganiensis bishopi* Grobman

Occ. Paps. Mus. Zool. Univ. Mich., (470), Jan. 26, 1943, p. 6, map 1.

HOLOTYPE, 68930. UNITED STATES: MISSOURI: Carter; Current River at Big Spring Park. Edwin P. Creaser, Aug. 25, 1930.

PARATOPOTYPES, 68929, 68931-32. Data as for holotype, except: Aug. 17 (68932).

PARATYPES, 68415 (= CHINM), 68897, 68916 (= MCZ 27792). Data as for holotype, except: Greer Spring. B. Marshall, July 23, 1928 (68415). Big Spring Park. E. B. Williamson and N. Shufeldt, June 15-30, 1930 (68897). Granite Quarry nr. Big Spring Park. E. P. Creaser and E. B. Williamson, Aug. 4, 1930 (68916).

REMARKS.—The author stated that 68897 and 68916 were topotypes.

Dendrotriton bromeliacia (K. P. Schmidt)—see *Oedipus bromeliacia* K. P. Schmidt

Dendrotriton xolocalcae (Taylor)—see *Bolitoglossa xolocalcae* Taylor

Desmognathus fuscus imitator Dunn = *Desmognathus imitator* Dunn Copeia, 1927(164), July-Sept., 1927, p. 84.

PARATOPOTYPE, 92409 (USNM 72765). UNITED STATES: NORTH CAROLINA: Great Smoky Mtns., Indian Pass. J. E. Benedict, Jr., June, 1927.

Desmognathus imitator Dunn—see *Desmognathus fuscus imitator* Dunn

Desmognathus quadramaculatus amphileucus Bishop

Occ. Paps. Mus. Zool. Univ. Mich., (451), Nov. 13, 1941, p. 12, pl. 1, fig. 3.

HOLOTYPE, 89767. UNITED STATES: GEORGIA: Habersham; Demorest. M. E. Philips, April, 1926.

Desmognathus santeetlah Tilley

Occ. Paps. Mus. Zool. Univ. Mich., (695), March 26, 1981, p. 3, figs. 1-10.

PARATYPES, 169042-59. UNITED STATES: NORTH CAROLINA: Swain; along Heintooga-Round Bottom Rd., 0.8 km. S trail to Spruce Mtn., Great Smoky Mtns. Natl. Park. S. G. Tilley and M. L. Tilley, Aug. 6, 1968.

Diemictylus viridescens piaropicola Schwartz and Duellman = *Notophthalmus viridescens piaropicola* (Schwartz and Duellman)

Bull. Chicago Acad. Sci., 9(12), Sept. 30, 1952, p. 219, pl. 1, map 1.

HOLOTYPE, 106333. UNITED STATES: FLORIDA: Collier; 8.4 km. E Monroe Station. Albert Schwartz, L. Neil Bell, and Thomas M. Raymond, April 18, 1952.

PARATOPOTYPES, 106334-51, 106352 (= MCZ 27793). Data as for holotype.

Eurycea aquatica Rose and Bush

Tulane Studies Zool., 10(2), May 3, 1963, p. 121, figs. 1-5.

PARATOPOTYPES, 123349-50. UNITED STATES: ALABAMA: Jefferson; 3.2 km. W Bessemer, along Co. Highway 20. F. L. Rose, F. M. Bush, and J. Jackson, Oct. 6, 1962.

Eurycea bislineata major Trapido and Clausen

Copeia, 1938(3), Sept. 24, 1938, p. 118.

PARATYPES, 85528-29. CANADA: QUEBEC: Lake St. John; along Ouatouchouan River at Val Jalbert (85528), and Bonaventure; 8 km. S Matapedia, on Restigouche River (85529). R. T. Clausen and H. Trapido, Sept. 14 (85529) and 17 (85528), 1937.

REMARKS.—Numbers 85528-29 were received from H. Trapido as paratypes. Presumably, they originally bore the published numbers TC 339 and TC 336, respectively.

Eurycea griseogaster Moore and Hughes = *Eurycea multiplicata griseogaster* Moore and Hughes

Copeia, 1941(3), Sept. 30, 1941, p. 139, figs. 1-2.

PARATYPES, 89427-34, 89435 (= MCZ 25534). UNITED STATES: OKLAHOMA: Sequoyah; Swimmer's Creek, nr. jct. Illinois River, ca. 16 km. NE Gore. George A. Moore and Aaron Seamster, April 11, 1941.

REMARKS.—Number 89435 consists of only one specimen, not two as claimed by Barbour and Loveridge (1946).

Eurycea junaluska Sever, Dundee and Sullivan

Herpetologica, 32(1), March, 1976, p. 26, fig. 1.

PARATYPES, 142790 (DMS 2077), 142791 (DMS 2114), 142792-802 (DMS 2128-38). UNITED STATES: NORTH CAROLINA: Graham; Santeetlah Creek at Co. Rte. 1127, 19.2 km. NW Robbinsville. July 17 (142790). Graham Co. Rte. 1134, 11.7 km. SE Tapoco. July 18 (142791). 2.4-11.8 km. SE Tapoco on U.S. Rte. 129 and Graham Co. Rte. 1134. July 20 (142792-802). David M. Sever, 1975.

REMARKS.—Some of 142792-802 are probably paratopotypes.

Eurycea longicauda longicauda (Green)—see *Eurycea longicauda pernix* Mittleman**Eurycea longicauda pernix** Mittleman = *Eurycea longicauda longicauda* (Green)

Proc. New England Zool. Club, 21, Nov. 20, 1942, p. 101, pl. 20.

PARATOPOTYPES, 91381 (5). UNITED STATES: INDIANA: Brown; Jimmie Strahl Creek (trib. Salt Creek), Brown Co. State Park, 4 km. SE Nashville. M. E. and M. B. Mittleman, Aug. 22, 1942.

Eurycea multiplicata griseogaster Moore and Hughes—see *Eurycea griseogaster* Moore and Hughes**Eurycea nana** Bishop

Occ. Paps. Mus. Zool. Univ. Mich., (451), Nov. 13, 1941, p. 6, pl. 1, fig. 1.

HOLOTYPE, 89759. UNITED STATES: TEXAS: Hays; Lake at head of San Marcos River. Charles E. Mohr, June 22, 1938.

ALLOTYPE, 89760. Data as for holotype.

Eurycea quadridigitata (Holbrook)—see *Manculus quadridigitatus paludicolus* Mittleman

Eurycea tynereensis Moore and Hughes

Am. Midl. Nat., 22(3), Nov., 1939, p. 697, figs. 1–2.

SYNTYPES, 85534 (6, 1 = MCZ 25533). UNITED STATES: OKLAHOMA: Adair; Tyner Creek, trib. Barron Fork Creek, 0.8 km. E Proctor. John D. Mizelle and George A. Moore, May 29, 1939.

REMARKS.—Only one specimen was exchanged to the MCZ (MCZ 25533), not three as claimed by Barbour and Loveridge (1946).

Leurognathus marmorata aureata Martof = *Leurognathus marmoratus* Moore

Occ. Paps. Mus. Zool. Univ. Mich., (575), July 18, 1956, p. 2, pls. 1–2, map 1.

HOLOTYPE, 111566. UNITED STATES: GEORGIA: Lumpkin; Jarrard's Creek, 0.3 km. below crossing with U.S. Rte. 19, ca. 14.5 air km. NNE Dahlonega, 472 m. Stephen and Andrew Martof, September 11, 1954.

PARATOPOTYPES, 111567 (20). Data as for holotype, except: Bernard Martof et al.

Leurognathus marmorata melania Martof = *Leurognathus marmoratus* Moore

Occ. Paps. Mus. Zool. Univ. Mich., (575), July 18, 1956, p. 6, pls. 3–4, map 1.

HOLOTYPE, 111564. UNITED STATES: NORTH CAROLINA: Macon; Otter Creek, trib. Nantahala River, 0.8 km. W Tellico Gap, 1097 m. Bernard Martof family, September 4, 1954.

PARATOPOTYPES, 111565 (20). Data as for holotype.

Leurognathus marmorata roborata Martof = *Leurognathus marmoratus* Moore

Occ. Paps. Mus. Zool. Univ. Mich., (575), July 18, 1956, p. 4, pls. 1–2, map 1.

HOLOTYPE, 111568. UNITED STATES: GEORGIA: Rabun; Reed Creek, along Burrell Ford Rd., 0.8 km. from jct. with Glade School Rd., ca. 5.6 km. NW Pine Mt. Community, 716 m. Bernard Martof family, September 18, 1954.

PARATOPOTYPES, 111569 (26). Data as for holotype.

Leurognathus marmoratus Moore—see *Leurognathus marmorata aureata* Martof, *Leurognathus marmorata melania* Martof, and *Leurognathus marmorata roborata* Martof

Magnadigita omniunsanctorum Stuart = *Bolitoglossa morio* (Cope)

Proc. Biol. Soc. Wash., 65, Jan. 29, 1952, p. 4.

HOLOTYPE, 102285. GUATEMALA: HUEHUETENANGO: Todos Santos, ca. 2500 m. Raymond Stadelman, prob. April, 1937.

PARATOPOTYPE, 102286. Data as for holotype.

Manculus quadridigitatus paludicolus Mittleman = *Eurycea quadridigitata* (Holbrook)

Herpetologica, 3(6), July 15, 1947, p. 220, 1 map.

PARATYPES, 75940 (5), 75941 (8, 1 = UIMNH 43487), 93135 (5, 1 = MCZ 27794). UNITED STATES: LOUISIANA: Bienville; Bienville. Charles Walker, Feb. 20, 1934 (75940). Evangeline; 6.4 km. N Turkey Creek. Charles Walker, Feb. 18, 1934 (75941). Rapides; Camp Claiborne, sec. 4, Unit B. H. Harrison, Aug. 31, 1942 (93135).

REMARKS.—The author gave “no definite locality” for 75941 and he was “uncertain” about that for 93135. However, both are well documented in the UMMZ catalogue.

Necturus beyeri Viosca

Copeia, 1937(2), Aug. 18, 1937, p. 123, figs. 2, 7.

PARATOPOTYPE, 81910. UNITED STATES: LOUISIANA: Calcasieu River, nr. Oakdale. Percy Viosca, Jr., 1928.

REMARKS.—Number 81910 was received from the “So. Biol. Supply Co.,” and is presumed to be from the paratypic series referred to by the author.

Necturus maculosus stictus Bishop

Occ. Paps. Mus. Zool. Univ. Mich., (451), Nov. 13, 1941, p. 9, pl. 2, figs. 3–4.

HOLOTYPE, 89765. UNITED STATES: WISCONSIN: Lake Winnebago. J. Pawlack, April 1, 1941.

ALLOTYPE, 89766. Data as for holotype.

Notophthalmus perstriatus (Bishop)—see *Triturus perstriatus* Bishop

Notophthalmus viridescens piaropicola (Schwartz and Duellman)—see *Diemictylus viridescens piaropicola* Schwartz and Duellman

Nototriton nasalis (Dunn)—see *Oedipus nasalis* Dunn

Oedipina poelzi Brame

Los Angeles Nat. Hist. Mus. Contr. Sci., (65), March 18, 1963, p. 7, figs. 1B, 2–3.

PARATOPOTYPE, 123674. COSTA RICA: ALAJUELA-HEREDIA border: stone quarry vic. El Angel Waterfall (former American Cinchona Plantation and Isla Bonita of Taylor, 1952a), 6 km. by rd. S Cariblanco (8 km. N Vara Blanca), along Vara Blanca-Puerto Viejo Rd., 1520 m. Charles F. Walker, William Bussing, and David B. Wake, Aug. 8, 1961.

PARATYPES, 119527–30, 123665–73. COSTA RICA: CARTAGO: Turrialba-Peralta Rd., 10 km. N Río Reventazón. July 29 (119527). ALAJUELA: Volcán Poás, E slope 19 km. N Vara Blanca, ca. 1341 m.

(119528, 123665-66), 21.4 km. N Vara Blanca, 1555 m. (119529, 123667-72), and 26.7 km. N Vara Blanca, ca. 1494 m. (119530, 123673), Aug. 6. Andrew and Priscilla Starrett and Thomas M. Uzzell, Jr., 1957.

Oedipina pseudouniformis Brame

J. Herpetology, 2(1-2), June 26 (July 2), 1968, p. 25, figs. 7, 20-21, 25-29.

PARATYPES, 55738 (2), 119523 (8), 119524 (3), 119525-26. COSTA RICA: LIMÓN: Zent. E. R. Dunn, 1920 (55738). CARTAGO: Turrialba. A. and P. Starrett, and T. M. Uzzell, July 25 (119524) and Aug. 4 (119525), 1957. LIMÓN: Los Diamantes. A. and P. Starrett, and T. M. Uzzell, July 10, 1957 (119526). NICARAGUA: MATAGALPA: Hacienda la Cumplida, 1.5 km. N Matagalpa, 731 m. A. and P. Starrett, and T. M. Uzzell, July 14-15, 1957 (119523).

REMARKS.—The author erroneously listed 119526 as being from Turrialba.

Oedipina taylori Stuart

Proc. Biol. Soc. Wash., 65, Jan. 29, 1952, p. 2.

HOLOTYPE, 102281. GUATEMALA: JUTIAPA: 4 km. E Hacienda La Trinidad (23 km. by air SE Chiquimulilla), ca. 100 m. L. C. Stuart, May 28, 1949.

Oedipus bromeliacia K. P. Schmidt = *Dendrotriton bromeliacia* (K. P. Schmidt)

Fieldiana, Zool., 20(17), Oct. 31, 1936, p. 161, figs. 15-16, 18.

PARATYPES, 80930 (2, FMNH 20657), 115493 (FMNH 20294, in part), 151174 (FMNH 20294, in part). GUATEMALA: SAN MARCOS: Volcán Tajumulco, trail above El Porvenir, 2286 m. (115493, 151174 no elev.). Karl P. Schmidt, Feb. 22 (115493, 151174) and 27 (80930), 1934.

REMARKS.—Number 151174 is now cleared and stained.

Oedipus cuchumatanus Stuart = *Bolitoglossa cuchumatana* (Stuart)

Misc. Publs. Mus. Zool. Univ. Mich., (56), Jan. 30, 1943, p. 14, pl. 1, fig. 2.

HOLOTYPE, 89110. GUATEMALA: EL QUICHÉ: ca. 2 km. N Nebaj. L. C. Stuart, July 12, 1940.

PARATOPOTYPES, 89111-13. Data as for holotype, except: July 22.

Oedipus dunni K. P. Schmidt = *Bolitoglossa dunni* (K. P. Schmidt)

Fieldiana, Zool., 20(322), Dec. 11, 1933, p. 16.

PARATOPOTYPES, 80933 (2, FMNH 4549, 4555). HONDURAS: mtns. W San Pedro, 1372 m. Karl P. Schmidt, May 5, 1923.

Oedipus engelhardti K. P. Schmidt = *Bolitoglossa engelhardti* (K. P. Schmidt)

Fieldiana, Zool., 20(17), Oct. 31, 1936, p. 156, figs. 15-16, 18.

PARATOPOTYPES, 80925 (3, FMNH 20408). GUATEMALA: SOLOLA: S slope Volcán Atitlán, above Olas de Moca, 2134 m. F. J. W. Schmidt, March 9, 1934.

Oedipus flavimembris K. P. Schmidt = *Bolitoglossa flavimembris* (K. P. Schmidt)

Fieldiana, Zool., 20(17), Oct. 31, 1936, p. 158, figs. 15–17.

PARATYPE, 80935 (FMNH 20297). GUATEMALA: SAN MARCOS: Volcán Tajumulco, trail above El Porvenir, 2286 m. Karl P. Schmidt, Feb. 16, 1934.

REMARKS.—FMNH 20297 was not listed by the author as a paratype, however, it was no doubt considered part of the type-series, and it was exchanged to the UMMZ as one of the type-series.

Oedipus franklini K. P. Schmidt = *Bolitoglossa franklini franklini* (K. P. Schmidt)

Fieldiana, Zool., 20(17), Oct. 31, 1936, p. 159, figs. 15–16, 19.

PARATYPES, 80932 (2, FMNH 20390). GUATEMALA: SAN MARCOS: Volcán Tajumulco, trail above El Porvenir, 1981 m. Karl P. Schmidt, March 3, 1934.

Oedipus goebeli K. P. Schmidt = *Pseudoeurycea goebeli* (K. P. Schmidt)

Fieldiana, Zool., 20(17), Oct. 31, 1936, p. 163, figs. 15–17.

PARATOPOTYPES, 80934 (2, FMNH 20301). GUATEMALA: SAN MARCOS: Volcán Tajumulco, trail above El Porvenir, 2438–3048 m. Karl P. Schmidt, Feb. 14, 1934.

Oedipus helmrichi K. P. Schmidt = *Bolitoglossa helmrichi* (K. P. Schmidt)

Fieldiana, Zool., 20(17), Oct. 31, 1936, p. 152, fig. 18.

PARATOPOTYPE, 80929 (FMNH 20727). GUATEMALA: ALTA VERAPAZ: mtns. above Finca Samac, W Cobán, 1524 m. Daniel Clark, March 27, 1934.

Oedipus lincolni Stuart = *Bolitoglossa lincolni* (Stuart)

Misc. Publs. Mus. Zool. Univ. Mich., (56), Jan. 30, 1943, p. 9, pl. 1, fig. 1.

HOLOTYPE, 89107. GUATEMALA: EL QUICHÉ: Salquil Grande, 2450 m. L. C. Stuart, July 19, 1940.

PARATOPOTYPES, 89108–109. Data as for holotype.

Oedipus manni Taylor = *Pseudoeurycea cephalica manni* (Taylor)

Univ. Kans. Sci. Bull., 25(14), June 1, 1938 (July 10, 1939), p. 277, pl. 29, figs. 4–6.

PARATOPOTYPES, 48061–62. MÉXICO: HIDALGO: Guerrero. W. M. Mann.

Oedipus mosaueri Woodall = *Chiropterotriton mosaueri* (Woodall)

Occ. Paps. Mus. Zool. Univ. Mich., (444), July 18, 1941, p. 2.

HOLOTYPE, 88839. MÉXICO: HIDALGO: Durango, 2213 m. Robert Livingston and Harold T. Woodall, June 20, 1937.

PARATOPOTYPES, 88840–42, 88843 (= MCZ 24576). Data as for holotype.

REMARKS.—The author erroneously listed the paratypes as 888390–93. A tag accompanying the type-series gives the date of collection as June 21.

Oedipus multidentata Taylor = *Chiropterotriton arboreus* (Taylor)
Univ. Kans. Sci. Bull., 25(14), June 1, 1938 (July 10, 1939),
p. 289.

PARATYPES, 63946, 63948, 63953. MÉXICO: PUEBLA: Mesa de
Necaxa. H. B. Baker, July 9 (63946), 14 (63948), and 22 (63953),
1927.

REMARKS.—The UMMZ catalogue records do not agree with Taylor's
locality for the paratypes, which was given as El Chico, Hidalgo.

Oedipus nasalis Dunn = *Nototriton nasalis* (Dunn)

Field Mus. Nat. Hist. Zool. Ser., 12(7), May 19, 1924, p. 98.

PARATYPES, 80926 (2, FMNH 4565–66). HONDURAS: mtns. W San
Pedro, 1372 m. K. P. Schmidt and Leon L. Walters, April 1, 1923.

Oedipus odonnelli Stuart = *Bolitoglossa odonnelli* (Stuart)

Misc. Publs. Mus. Zool. Univ. Mich., (56), Jan. 30, 1943, p. 10,
pl. 2, fig. 3.

HOLOTYPE, 89096. GUATEMALA: ALTA VERAPAZ: E hacienda at Fin-
ca Volcán, 1200 m. L. C. Stuart, March 28, 1940.

PARATOPOTYPES, 89097, 89098 (= FMNH 109847), 89099–103, 89104
(= MCZ 25540), 89105 (= USNM 118781). Data as for holotype,
except: March 20 (89101–105).

Oedipus smithi Taylor = *Pseudoeurycea smithi* (Taylor)

Univ. Kans. Sci. Bull., 25(14), June 1, 1938 (July 10, 1939), p. 269,
pl. 25, figs. 5–6.

PARATYPE, 114071 (EHT-HMS 15640 [UIMNH 27222]). MÉXICO:
OAXACA: Cerro San Felipe, 24 km. NW Oaxaca. E. H. Taylor, Aug.
20, 22, 1938.

Plethodon caddoensis Pope and Pope

Bull. Chicago Acad. Sci., 9(8), May 11, 1951, p. 148.

PARATYPE, 82791. UNITED STATES: ARKANSAS: Montgomery; Cad-
do Gap. W. A. Archer, April, 1935.

Plethodon cinereus (Green)—see *Plethodon cinereus polycentratus* Highton
and Grobman, *Plethodon cinereus serratus* Grobman, and *Plethodon hul-*
dae Grobman

Plethodon cinereus polycentratus Highton and Grobman = *Plethodon*
cinereus (Green)

Herpetologica, 12(3), Sept. 1, 1956, p. 185.

PARATYPES, 85574 (= UMMZ 113730), 85575. UNITED STATES:
GEORGIA: Chattooga; 5.6 km. E Summerville (85575). Upson;
13.7 km. S Thomaston, 0.8 km. S Swift Creek (113730). Philip
Marsh, Feb. 24 (113730) and 28 (85575), 1939.

REMARKS.—The authors erroneously gave 88575 as the catalogue
number for one of the paratypes.

Plethodon cinereus serratus Grobman = *Plethodon cinereus* (Green)

Ann. N.Y. Acad. Sci., 45(7), May 9, 1944, p. 306, figs. 2, 6–7, 9.

PARATYPES, 77379 (2), 77804 (5), 77805 (12, 1 = MCZ 27795), 77806

(3), 77807 (3), 83298. UNITED STATES: ARKANSAS: Polk; Rich Mt. Joseph Bailey, April 15 (77379), and D. A. Boyar, A. A. Heinze and L. Hubricht, April 28 (77806), 1935. Garland; 1.1 km. E Garland-Montgomery Co. line. D. A. Boyar, A. A. Heinze and L. Hubricht, April 27, 1935 (77804). Polk; 3.2 (77805) and 4.8 (77807) km. W Acorn. A. A. Heinze and L. Hubricht, April 28, 1935. Montgomery; Caddo Gap. A. Archer, April, 1935 (83298).

REMARKS.—The UMMZ catalogue locality data given above is at variance with some of that presented by Grobman. Number 77807 was given as 77808 by the author.

Plethodon dunnii Bishop—see *Plethodon gordonii* Brodie

Plethodon glutinosus albagula Grobman

Ann. N.Y. Acad. Sci., 45(7), May 9, 1944, p. 283, figs. 1, 3.

PARATYPES, 64052 (5, 1 = MCZ 27796). UNITED STATES: TEXAS: Hays; San Marcos. W. J. Williams, Feb., 1927.

Plethodon gordonii Brodie = *Plethodon dunnii* Bishop

Herpetologica, 26(4), Dec., 1970, p. 497, figs. 13–5, 17.

PARATOPOTYPES, 136260 (6, EDB 3095–3100). UNITED STATES: OREGON: Benton; Dinner Creek, T13S, R7W, Sec. 1, NW¼. E. D. Brodie, Jr. and R. A. Nussbaum, April 9, 1969.

PARATYPES, 136190 (EDB 1081), 136198 (2, EDB 2981–82), 136241 (EDB 527), 136242 (3, EDB 582–84), 136243 (EDB 684), 136246–48 (EDB 747, 759 and 788, respectively), 136252 (EDB 1327), 136253 (20, EDB 1328–47), 136254 (2, EDB 1355, 1357), 136255 (2, EDB 1930–31), 136256 (5, EDB 2306–10), 136258 (13, EDB 3104–106), 136259 (EDB 3094), 136440 (2, EDB 682–83). Data as for paratopotypes, except: 1.6 km. up Rd. 121 off Rock Creek Rd., T12S, R6W, Sec. 19, SW¼. E. D. Brodie, Jr., April 8 (136252–53) and 9 (136190), May 27 (136254), and Oct. 6 (136255), 1967, E. D. Brodie, Jr., March 31, 1968 (136256), E. D. Brodie, Jr., April 8, 1969 (136258). Hyde (Hide) Creek, T13S, R6W, Sec. 6. Oct., 1968 (136198). Oregon State Univ. Herpetology Class, Oct. 26 (136241) and 28 (136242), and Nov. 18 (136247), J. Briggs, J. A. Wiens, and E. D. Brodie, Jr., Nov. 3 (136243), and E. D. Brodie, Jr., Oct. 26 (136248), 1966. 3.2 km. up Mary's Peak Rd. from Hwy. 34. E. D. Brodie, Jr., Nov. 18 (136246), and J. Briggs, J. A. Wiens, and E. D. Brodie, Jr., Nov. 3 (136440), 1966. Wells Creek, 11.3 km. SW Philomath. E. D. Brodie, Jr., April 20, 1969 (136259).

Plethodon huldae Grobman = *Plethodon cinereus* (Green)

Proc. Biol. Soc. Wash., 63, Aug. 23, 1949, p. 136.

PARATYPES, 98748–51. UNITED STATES: VIRGINIA: Madison-Page Co. line; Stony Man Peak trail from Skyland campsite, Shenandoah Natl. Park, 1143 m. H. G. M. Jopson, July 18, 1948.

Plethodon jordani teyahalee Hairston

Copeia, 1950(4), Dec. 22, 1950, p. 269, fig. 1.

HOLOTYPE, 100807. UNITED STATES: NORTH CAROLINA: Graham-Cherokee Co. line; Snowbird Mtns., Teyahalee Bald (= Johanna Bald), 1379 m. Nelson G. Hairston, Aug. 23, 1949.

PARATOPOTYPE, 100808. Data as for holotype.

PARATYPES, 81040 (3), 100809–810. Data as for holotype, except: 1219 m. Joseph Bailey, Aug. 12, 1936 (81040). 1334 m. (100809–810).

Plethodon longicrus Adler and Dennis

Ohio Herp. Soc., Spec. Publ., 4, April 30 (May 7), 1962, p. 1.

ALLOTYPE, 123054. UNITED STATES: NORTH CAROLINA: Rutherford; NE slope Bluerock Mt., below Bat Caves, ca. 1.3 km. ESE Bat Cave (City), ca. 501 m. K. K. Adler, D. M. Dennis and S. G. Tilley, Aug. 28, 1961.

PARATOPOTYPES, 123052–53. Data as for allotype, except: K. K. Adler, D. M. Dennis and C. J. Hirschfeld, Sept. 7–8.

Plethodon neomexicanus Stebbins and Riemer

Copeia, 1950(2), June 30, 1950, p. 73, figs. 1–2, pl. 1, figs. 1–3.

PARATOPOTYPE, 109902 (MVZ 49027). UNITED STATES: NEW MEXICO: Sandoval; 19.3 km. W and 6.4 km. S Los Alamos, ca. 2667 m. Robert C. Stebbins, Aug. 14, 1949.

Plethodon richmondi Netting and Mittleman—see *Plethodon richmondi popei* Highton and Grobman

Ann. Carnegie Mus., 27, Dec. 8, 1938, p. 288, pl. 30, fig. 1.

PARATOPOTYPE, 86162 (CM 14185). UNITED STATES: WEST VIRGINIA: Cabell; Huntington, Ritter Park, 183–214 m. Neil D. Richmond and N. B. Green, Oct. 15, 1938.

Plethodon richmondi popei Highton and Grobman = *Plethodon richmondi* Netting and Mittleman

Herpetologica, 12(3), Sept. 1, 1956, p. 187.

PARATOPOTYPES, 113702–703. UNITED STATES: VIRGINIA: Grayson-Wythe Co. line; Comers Rock. Walter Auffenberg and Arnold B. Grobman.

Plethodon richmondi shenandoah Highton and Worthington = *Plethodon shenandoah* Highton and Worthington

Copeia, 1967(3), Sept. 1, 1967, p. 619, figs. 1–6.

PARATYPES, 126017–18. UNITED STATES: VIRGINIA: Page; Appalachian Trail, 0.9 km. by trail W jct. with Timber Hollow Fire Trail, 0.2 air km. N top Hawksbill Mt. Richard Highton.

Plethodon shenandoah Highton and Worthington—see *Plethodon richmondi shenandoah* Highton and Worthington

Plethodon stormi Highton and Brame

Pilot Register Zool., 20, April 5, 1965, pl. 1, figs. 1–2.

PARATYPE, 125660. UNITED STATES: OREGON: Jackson; 0.5 km. S McKee Bridge. Robert M. Storm, March 22, 1964.

Plethodon welleri Walker

Proc. Jr. Soc. Nat. Sci. Cincinnati, 2, July 31, 1931, p. 48.

PARATOPOTYPES, 71785 (2, CSNS). UNITED STATES: NORTH CAROLINA: Grandfather Mt., nr. Linville, above 1524 m. W. H. Weller and Ralph Dury, Aug. 27, 1930.

REMARKS.—This material was received from the author, and is without reference to the specific CSNS numbers. The collectors are inferred from the original description, given the date of collection.

Pseudobranchius striatus axanthus Netting and Goin

Ann. Carnegie Mus., 29, June 16, 1942, p. 183, pl. 1, figs. 1–2.

PARATOPOTYPES, 100237 (27, CFW 707). UNITED STATES: FLORIDA: Alachua; E Payne's Prairie, jct. Prairie Creek and River Styx. C. J. Goin, Feb. 29, 1940.

PARATYPES, 77150 (6, 1 = USNM 118790), 79594 (3), 84470 (3). Data as for 100237, except: Payne's Prairie, nr. Gainesville. Wesley Clanton, Oct. 4, 1932 (77150), and A. Carr, March 12, 1931 (79594). Gainesville. I. J. Cantrall, Dec. 11, 1938 (84470).

REMARKS.—The UMMZ catalogue lists only five specimens with the number 77150, whereas Netting and Goin recorded having examined six. USNM 118790 (Cochran, 1961) is supposed to have come from the UMMZ, which is consistent with our present holdings of five individuals bearing the number 77150.

Pseudobranchius striatus belli Schwartz

Nat. Hist. Misc., (115), Dec. 19, 1952, p. 1, fig. 1, pl. 1D.

HOLOTYPE, 106000. UNITED STATES: FLORIDA: Dade; 37.2 km. W Miami, Tamiami Trail. Albert Schwartz, Philip C. Porter and L. Neil Bell, May 17, 1952.

PARATOPOTYPES, 106152–67, 106158 (= MCZ 27797). Data as for holotype, except: May 4 (106152–56), and Albert L. Schwartz and G. O'Malley, May 18 (106162–68).

PARATYPE, 106002. Data as for holotype, except: 32.4 km. W Miami. C. Phillips, April 13.

Pseudobranchius striatus spheniscus Goin and Crenshaw

Ann. Carnegie Mus., 31, Nov. 21, 1949, p. 277.

PARATYPES, 99390 (3). UNITED STATES: GEORGIA: Baker; Putney Pond (east edge). John Crenshaw and Geo. B. Rabb, June 9, 1948.

Pseudoeurycea brunnata Bumzahem and H. M. Smith

Herpetologica, 11(1), March 30, 1955, p. 73.

PARATOPOTYPE, 117248 (UIMNH 33718). MÉXICO: CHIAPAS: Región de Soconusco. Eizi Matuda, 1944–49.

Pseudoeurycea cephalica manni (Taylor)—see *Oedipus manni* Taylor**Pseudoeurycea expectata** Stuart

Proc. Biol. Soc. Wash., 67, Aug. 5, 1954, p. 159.

HOLOTYPE, 107999. GUATEMALA: JALAPA: ca. 3 km. W Miramundo (ca. 7 km. by air SE Jalapa), 2525 m. L. C. Stuart, March 21, 1952.

PARATOPOTYPES, 106762 (16). Data as for holotype.

REMARKS.—The UMMZ catalogue gives the specific locality as Soledad, 2525 m. (106762) and Soledad Grande, 2525 m. (107999).

Pseudoeurycea galaenae (Taylor)—see *Bolitoglossa galaenae* Taylor

Pseudoeurycea goebeli (K. P. Schmidt)—see *Oedipus goebeli* K. P. Schmidt

Pseudoeurycea nigromaculata (Taylor)—see *Bolitoglossa nigromaculata* Taylor

Pseudoeurycea scandens Walker

Occ. Paps. Mus. Zool. Univ. Mich., (567), May 4, 1955, p. 1, pl. 1.

HOLOTYPE, 100639. MÉXICO: TAMAULIPAS: cave at "Rancho del Cielo," forested slopes Sierra Madre Oriental, ca. 8 km. NW Gómez Farías, ca. 1067 m. Paul S. Martin, C. Richard Robins, and William B. Heed, March 17, 1949.

PARATOPOTYPES, 98968 (= AMNH 78210), 98969–70, 100638, 100640–41, 100642 (3), 100643, 100644 (5, 1 = FMNH 73803), 100645, 100646, (4, 1 = FMNH 73804), 100648, 100649 (3), 100651, 100652 (2), 100653 (4, 2 = UMMZ 105301–302), 100654 (4), 100655, 100656 (4), 100657 (3, 1 = UIMNH 37294), 100658 (2), 100659 (2). Data as per holotype, except: March 16 (100644–45), 20 (100640, 100648–49), 22 (100651), 28 (100653) and 29 (100652), April 1 (100654), May 24 (100641). Paul S. Martin, April 24 (98968–69) and May 10 (98970), 1948, and May 24 (100656), 25 (100655, 100657), and 26 (100658). Frank Harrison, March 11 (100643), and no date (100642). William B. Heed, July 1 (100659).

PARATYPES, 100647 (2), 100650. Data as for holotype, except: mtn. W "Rancho del Cielo," ca. 1219 m. March 19 (100647) and 21 (100650).

REMARKS.—Only 100638, 100640–41, 100643, and 100658 were recorded as having come from a cave.

Pseudoeurycea smithi (Taylor)—see *Oedipus smithi* Taylor

Pseudotriton montanus diasticus Bishop

Occ. Paps. Mus. Zool. Univ. Mich., (451), Nov. 13, 1941, p. 14, pl. 2, figs. 1–2.

PARATYPES, 75886 (3). UNITED STATES: KENTUCKY: Bell; Middlesboro. Reeve Bailey, April 9, 1934.

Pseudotriton montanus floridanus Netting and Goin

Ann. Carnegie Mus., 29, June 16, 1942, p. 175, pl. 1, fig. 5.

PARATYPES, 56646, 68855, 86419 (2, 1 = USNM 118789). UNITED STATES: FLORIDA: Alachua; J. S. Rogers, April 4, 1922 (56646) and April 10, 1936 (86419). Jackson; Marianna. J. S. Rogers and O. C. Van Hyning, June 12–15, 1930 (68855).

REMARKS.—The UMMZ catalogue lists Gainesville as the specific locality for 86419.

Ranodon olympicus Gaige = *Rhyacotriton olympicus* (Gaige)

Occ. Paps. Mus. Zool. Univ. Mich., (40), May 30, 1917, p. 2, pl. 1.
HOLOTYPE, 48607. UNITED STATES: WASHINGTON: Lake Cushman.
Philip Putnam, April 20, 1916.

PARATOPOTYPES, 48608 (= MCZ 4103), 49945–49. Data as for holotype, except: April 30 (49946–47).

REMARKS.—Peters (1952) claimed that Gaige had actually chosen 48608 as the holotype and that her listing 48607 in the original description was a typographical error. I can find no evidence to support Peters' points. The original catalogue clearly reads "type" for 48607, as does a 3 × 5 card catalogue of type-material in the UMMZ. Furthermore, it seems to have been Gaige's convention to select the first specimen in a catalogued series as the type-specimen. Both 48607 and 48608 (= MCZ 4103) have been compared with the original description, and the former more closely fits the measurements and illustration presented. Lastly, correspondence between Alexander Ruthven and Thomas Barbour indicates that a paratype was exchanged to the MCZ.

Rhyacotriton olympicus (Gaige)—see *Ranodon olympicus* Gaige**Siren intermedia nettingi** Goin

Ann. Carnegie Mus., 29, Sept. 3, 1942, p. 211.

PARATOPOTYPES, 68381 (2), 68382 (2, 1 = USNM 118793). UNITED STATES: ARKANSAS: Lawrence; Imboden. Byron C. Marshall, May 1 (68381) and 3 (68382), 1929.

PARATYPES, 84354–56, 86391. UNITED STATES: ARKANSAS: Greene; nr. Paragould. Malcolm V. Parker, April 19, 1935 (84356). TENNESSEE: Obion; Bayou du Chien, Reelfoot Lake, Walnut Log. Malcolm V. Parker, July 27, 1936 (84354). Shelby; 5.6 km. NE Memphis. Malcolm V. Parker, April 19, 1935 (84355). Davidson; Cumberland River nr. Nashville. E. R. Kuhne (86391).

Taricha granulosa (Skilton)—see *Triturus granulosa twittyi* Bishop**Thorius pulmonaris** Taylor

Univ. Kans. Sci. Bull., 26(12), Oct. 1, 1939 (Nov. 15, 1940), p. 411, figs. 3–4.

PARATOPOTYPE, 117247 (EHT-HMS 16716). MÉXICO: OAXACA: Cerro San Felipe, ca. 12 km. N Oaxaca. Mr. and Mrs. Radclyffe Roberts and Edward H. Taylor, Aug. 22, 1938.

Triturus granulosa twittyi Bishop = *Taricha granulosa* (Skilton)

Occ. Paps. Mus. Zool. Univ. Mich., (451), Nov. 13, 1941, p. 16, pl. 1, figs. 4–5.

HOLOTYPE, 89763. UNITED STATES: CALIFORNIA: Santa Clara; Saratoga. S. C. Bishop, V. C. Twitty, and Margaret Wright, May 20, 1936.

ALLOTYPE, 89764. Data as for holotype.

PARATYPES, 55277–84, 66654 (3), 66655 (4). Data as for holotype, ex-

cept: Bodfish Canyon. June 24, 1928 (66654). Santa Cruz; Corralitos Creek. Aug. 29, 1920 (55277-84). Corralitos Creek, 4.8 km. N Corralitos Creek. May 26, 1928 (66654). Dora L. Dice.

Triturus perstriatus Bishop = *Notophthalmus perstriatus* (Bishop)

Occ. Paps. Mus. Zool. Univ. Mich., (451), Nov. 13, 1941, p. 3, pl. 1, fig. 2.

HOLOTYPE, 89761. UNITED STATES: GEORGIA: Charlton; Dedge Pond, 3.2 km. E Chesser's Id. S. C. Bishop and M. Wright, Feb. 14, 1936.

ALLOTYPE, 89762. Data as for holotype.

PARATYPES, 74434 (5), 74437 (5, 1 = MCZ 25559, 1 = USNM 118791). UNITED STATES: FLORIDA: Leon; Lake Jackson. J. S. Alexander, June 14, 1922 (74434). Alachua; 4.8 km. SW Gainesville. Archie Carr, Jr., Feb. 14, 1933 (74437).

Typhlotriton nereus Bishop = *Typhlotriton spelaeus* Stejneger

Copeia, 1944 (1), April 21, 1944, p. 1, figs. 1-4.

PARATYPES, 77052 (2, 1 = MCZ 27798), 77053 (2), 81481. UNITED STATES: MISSOURI: Jasper; Downer's Cave, Sarcoxie. B. C. Marshall, Oct. 1, 1927 (77052). ARKANSAS: Lawrence; B. C. Marshall, April, 1929 (77053). OKLAHOMA: Adair; 12.9 km. S Kansas. Frank Blair, July 10, 1936 (81481).

REMARKS.—The catalogue gives 8 km. S for 81481.

Typhlotriton spelaeus Stejneger—see *Typhlotriton nereus* Bishop

ANURA

Adenomera bokermanni (Heyer)—see *Leptodactylus bokermanni* Heyer

Adenomera marmorata (Steindachner)—see *Leptodactylus nanus* Müller

Allophryne ruthveni Gaige

Occ. Paps. Mus. Zool. Univ. Mich., (176), Oct. 14, 1926, p. 2, pl. 1.

HOLOTYPE, 63419. GUYANA: Tukeit Hill, below Kaiteur Falls. E. N. Clarke, May, 1924.

Arthroleptis bequaerti Barbour and Loveridge = *Phrynobatrachus bequaerti* (Barbour and Loveridge)

Proc. New England Zoöl. Club, 11, June 29, 1929, p. 25.

PARATYPE, 71406 (MCZ 14754). ZAIRE: swamp on Mt. Vissoke, 2438-2743 m. J. Derscheid, 1927.

Arthroleptis muta (de Witte)—see *Schoutedenella muta* de Witte.

Atelopus arthuri J. Peters

Smithsonian Contr. Zool., (145), 1973, p. 10, fig. 13.

PARATYPE, 131683. ECUADOR: CHIMBORAZO: 15 km. N Pallatanga, rd. to Bucay, 2800 m. J. A. Peters, Feb. 14, 1959.

Atelopus carrikeri Ruthven

Occ. Paps. Mus. Zool. Univ. Mich., (28), May 25, 1916, p. 1, pl. 1.

HOLOTYPE, 48271. COLOMBIA: Páramo de Macostama, headwaters River Macostama, Santa Marta Mtns., 2438–4572 m. M. A. Carriker, April 21, 1914.

PARATOPOTYPES, 48272 (= MCZ 4100), 48273. Data as for holotype.

PARATYPES, 48274–78. COLOMBIA: GUAJIRA: Páramo de Macostama, 457–503 m. to snow line. M. A. Carriker, April 20, 1914 (from field notes).

REMARKS.—The original UMMZ catalogue gives the type-locality as “Don Diego, Santa Marta Mts., Colombia,” which is coastal. The published type-locality should be amended to Department Guajira; Páramo de Macotama [E Arahuaco Indian village Macotama (Carriker *in* Ruthven, 1922)]. “Five adult and five partly grown specimens” were referred to as paratypes, but no catalogue numbers were actually given by Ruthven. Only the seven paratypes were catalogued. I believe some of the specimens, perhaps all three of the missing individuals, were never catalogued in the UMMZ collections. G. A. Boulenger helped Ruthven identify the species, and I suspect two of the missing paratypes are BMNH 1916.2.22.1–2 (A. G. C. Grandison, pers. comm.).

Atelopus certus Barbour—see *Atelopus spurrelli certus* Barbour

Atelopus chiriquiensis Shreve

Occ. Paps. Boston Soc. Nat. Hist., 8, March 31, 1936, p. 269.

PARATYPE, 90656 (MCZ 19971). PANAMÁ: ‘from Mr. Lewis’s place,’ Río Chiriquí, Viejo and branches. S. F. Hildebrand, Feb. 4–6, 1935.

Atelopus cruciger vogli Müller

Zool. Anz., 108(7/8), Nov. 15, 1934, p. 151.

PARATYPE, 92431 (USNM 113267). VENEZUELA: “Las Peñas,” nr. Maracay, 600 m. P. Cornelius Vogely, 1933.

REMARKS.—Numbers 106429–30 may also be paratypes (*fide* C. E. Burt, donor), and they have the following data: “Las Peñas,” nr. Hacienda de la Trinidad, Maracay, 700 m. P. Cornelius Vogely, Spring, 1933. The USNM records bear the same reference to Hacienda de la Trinidad (Cochran, 1961).

Atelopus gracilis Barbour

Bull. Mus. Comp. Zool. Harvard, 46(5), 1905, p. 102.

SYNTYPES, 48072, 50099, 60301 (MCZ 2423). COLOMBIA: Gorgona Id. Wilmot W. Brown, John E. Thayer Expedition, Feb., 1904.

Atelopus mindoensis J. Peters

Smithsonian Contr. Zool., (145), 1973, p. 30, fig. 22.

PARATYPE, 131684. ECUADOR: PICHINCHA: vic. Mindo. M. Olalla, May 24–31, 1959.

Atelopus spurrelli certus Barbour = *Atelopus certus* Barbour

Occ. Paps. Mus. Zool. Univ. Mich., (129), Jan. 25, 1923, p. 12.

SYNTYPES, 60275 (2, MCZ 9248–49). PANAMÁ: stream on Mt. Sapo. T. Barbour and W. S. Brooks, 1922.

Atelopus walkeri Rivero

Carib. J. Sci., 3(2/3), 1963, p. 117, pl. 3, figs. 1-4.

HOLOTYPE, 48007. COLOMBIA: (Sta. Marta region), Don Diego. M. A. Carriker, April 24, 1914.

PARATOPOTYPES, 48006, 48011-12. COLOMBIA: Don Diego, heights E San Miguel, 1829-2134 m. M. A. Carriker, April 24, 1914.

PARATYPES, 54577 (= WCAB), 54580. COLOMBIA, Santa Marta Mtns., San Lorenzo, 2134 m. A. G. Ruthven, June 5, 1920.

REMARKS.—M. A. Carriker's field notes indicate that the holotype also came from heights east of San Miguel, 1829-2134 m. Don Diego was Carriker's lowland headquarters, not the actual place of collection.

Bufo bufo japonicus (Schlegel)—see *Bufo smithi* Stejneger**Bufo chanchanensis** Fowler = *Bufo typhonius chanchanensis* Fowler

Proc. Acad. Nat. Sci. Philad., April, 1913 (1914), p. 155, pl. 5.

PARATOPOTYPE, 52930 (ANSP 18195). ECUADOR: Camp Chiguancay, Chanchán River Valley. S. N. Rhoads, March, 1911.

Bufo dunni Barbour = *Peltophryne longinasa* (Stejneger)

Occ. Paps. Boston Soc. Nat. Hist., 5, Jan. 30, 1926, p. 192, pl. 13, figs. 1-2.

PARATOPOTYPE, 107607 (MCZ 11080). CUBA: Mina Carlota, nr. Cumanayagua, Trinidad Mtns., ca. 366 m. E. R. Dunn, July, 1925.

Bufo exsul Myers

Occ. Paps. Mus. Zool. Univ. Mich., (460), Sept. 16, 1942, p. 3, pls. 1-3.

HOLOTYPE, 83357 (SU 2191). UNITED STATES: CALIFORNIA: Inyo; Deep Springs Valley, Deep Springs. G. F. Ferris, March 24, 1937.

PARATYPES, 77970 (6), 77971-91. Data as for holotype, except: Deep Springs, 12 km. S Deep Springs Ranch. Dr. and Mrs. Carl L. Hubbs, Sept. 4, 1934.

Bufo fowleri Hinckley = *Bufo woodhousii fowleri* Hinckley

Proc. Boston Soc. Nat. Hist., 21(1880-82), 1883, p. 308.

NEOTYPE, 50246 (MCZ 518). UNITED STATES: MASSACHUSETTS: Danvers. S. P. Fowler, 1863.

REMARKS.—Considerable difference of opinion exists as to the authorship of the name *Bufo fowleri* (e.g., see Barbour and Loveridge, 1929; Stejneger and Barbour, 1917, 1933, 1943; Myers, 1931; Nieden, 1923; Wright and Wright, 1949). According to Dexter (1966), F. W. Putnam intended to publish a description of that species, based on material collected by S. P. Fowler, at Danvers, Massachusetts. Putnam was a special assistant to Louis Agassiz at Harvard University when he received 12 males from Fowler, on or before June 5, 1863, as deduced from Putnam's unpublished notes. He is said to have given oral reports on the new toad at subsequent meetings of the Essex Institute, and the Peabody Academy

of Science, Salem (Dexter, 1966; Garman, 1884). Furthermore, Cope (1875) claimed that Putnam had prepared a manuscript describing the new taxon. A description of *B. fowleri* by Putnam does not appear in the Proceedings of the Essex Institute, nor in the Annual Report of the Peabody Academy of Science, the two most likely places of publication, and I conclude that Putnam failed to formally describe *B. fowleri* (ICZN, 1961:arts. 11–12, 50; see also Dexter, 1966; Myers, 1931; José Rosado, pers. comm.). Cope's (1875) listing of "*fowleri*, Putnam, Mss.," as a subspecies of *Bufo lentiginosus*, is not accompanied by a description, and I consider this reference a *nomen nudum*. Hinckley (1883, not 1882 as cited by most authors) was the first to give a description of *B. fowleri*. She provided a detailed account of the mouth parts of *B. fowleri* tadpoles from Milton, Massachusetts and clearly acknowledged Putnam as the author of that species (p. 309). Moreover, she emphasized differences between *B. fowleri* and *B. americanus*, the only two toads known from the state. Thus, according to ICZN (1961: art. 51c), I conclude that the original reference should read *Bufo fowleri* Hinckley (1883:308). Hinckley's paper has one year priority over that of Garman's (1884), wherein a brief diagnosis appeared. The four specimens housed in the Museum of Comparative Zoology (MCZ 518) are almost certainly part of the original series of 12 examined by Putnam since they bear all of the relevant information set forth in his notes of June 5, 1863; however, they can not be considered "cotypes," as reported by Barbour and Loveridge (1929), because adults were not a part of Hinckley's original description. In the absence of tadpole material from Hinckley's (1883) study, *B. fowleri* is without a specimen to serve as namebearer, and I take this opportunity as first revisor to designate UMMZ 50246 as the neotype. This specimen was a member of the MCZ 518 series according to a letter, dated Oct. 1, 1917, from T. Barbour to A. G. Ruthven. USNM 10885–87 also seem to share that origin (Cope, 1889), leaving unaccounted only four of the original series collected by S. P. Fowler.

***Bufo granulosis goeldii* Gallardo**

Bull. Mus. Comp. Zool. Harvard, 134(4), Sept. 30, 1965, p. 111, figs. 1(2), 2(2), maps 1–2.

HOLOTYPE, 64528. BRAZIL: PARÁ: Santarém. C. Linden.

PARATOPOTYPES, 122431–34. Data as for holotype.

***Bufo granulosis lutzi* Gallardo**

Bull. Mus. Comp. Zool. Harvard, 134(4), Sept. 30, 1965, p. 116, figs. 1(8), 2(8), maps 1–3.

HOLOTYPE, 108908. BRAZIL: MINAS GERAIS: Pirapora. J. R. Bailey and A. L. de Carvalho, Feb. 11, 1942.

PARATOPOTYPES, 122426–27. Data as for holotype.

PARATYPE, 108912. BRAZIL: BAHÍA: Barreiras. J. R. Bailey and A. L. de Carvalho, March 14, 1942.

Bufo granulosis minor Gallardo

Bull. Mus. Comp. Zool. Harvard, 134(4), Sept. 30, 1965, p. 113, figs. 1(4), 2(4), maps 1-2.

PARATOPOTYPES, 57592 (15). BOLIVIA: Upper Beni below mouth Mapiri River. N. E. Pearson, Sept. 1921.

Bufo houstonensis Sanders

Herpetologica, 9(1), 1953, p. 27, figs. 1-2.

PARATOPOTYPES, 127825-26 (OS 3013-14). UNITED STATES: TEXAS: Harris; Fairbanks. J. C. Wottring and W. J. Greer, May 18, 1952.

Bufo ibarraii Stuart

Proc. Biol. Soc. Wash., 67, Aug. 5, 1954, p. 162.

HOLOTYPE, 108000. GUATEMALA: JALAPA: oak-pine zone at Aseradero San Lorenzo (ca. 12 km. by air slightly NE Jalapa), 1725 m. L. C. Stuart, June 19, 1952.

PARATOPOTYPES, 106806 (10), 106807 (3). Data as for holotype, except: June 17 (106806) and 18-19 (106807).

Bufo micranotis Loveridge = *Mertensophryne micranotis* (Loveridge)

Proc. Zool. Soc. Lond., July 21, 1925, p. 770, pl. 1, fig. 1.

PARATYPE, 61367. TANZANIA: Uluguru Mtns. A. Loveridge, March 1, 1921.

Bufo minshanicus Stejneger

J. Wash. Acad. Sci., 16(16), Oct. 4, 1926, p. 445.

PARATOPOTYPE, 92509 (USNM 68556). MONGOLIA: KANSU: Choni, Tao River. F. R. Wulsin, Aug. 24-31, 1923.

Bufo periglenes Savage

Rev. Biol. Trop., 14(2), 1966, p. 153, figs. 1-7.

PARATOPOTYPES, 127887-88. COSTA RICA: PUNTARENAS-ALAJUELA border: 3.2 km. ENE Monteverde, 1590 m. J. James, N. Scott, and J. Savage, May 14-15, 1964.

Bufo peripatetes Savage

J. Herpetology, 6(1), March 31, 1972, p. 26, figs. 1-3.

HOLOTYPE, 58430. PANAMÁ: CHIRIQUÍ: Almirante trail above Boquete, 1500 m. H. T. Gaige, March 17, 1923.

Bufo pygmaeus Myers and Carvalho

Zoologica, 37(1), June 30, 1952, p. 1.

PARATOPOTYPES, 104960, 115657 (10, MN 2339). BRAZIL: RIO DE JANEIRO: São João da Barra, mouth Rio Paraíba (right bank). A. L. de Carvalho and L. de Castro Faria, Dec., 1948.

Bufo smithi Stejneger = *Bufo bufo japonicus* (Schlegel)

Bull. U.S. Natl. Mus., 58, July 22, 1907, p. 64.

PARATOPOTYPE, 92508 (USNM 31950). JAPAN: TOZA: Shikoku Id., Kochi. Hugh M. Smith, May 11, 1903.

Bufo tacanensis P. W. Smith

Copeia, 1952(3), p. 176, pl. 1.

HOLOTYPE, 88359. MÉXICO: CHIAPAS: Unión Juárez, Volcán de Tacaná, 1500 m. Pierce Brodtkorb, March 18, 1938.

PARATYPE, 102472. GUATEMALA: QUETZALTENANGO: Granaja Lorena, 1700 m. L. C. Stuart, April 21, 1949.

Bufo taitanus W. Peters—see *Bufo ushoranus* Loveridge**Bufo typhonius chanchanensis** Fowler—see *Bufo chanchanensis* Fowler**Bufo ushoranus** Loveridge = *Bufo taitanus* W. Peters

Occ. Paps. Boston Soc. Nat. Hist., 8, Dec. 30, 1932, p. 45.

PARATYPE, 61393. TANZANIA: Mwanza, Nyambita. Arthur Loveridge, Nov. 10, 1922.

Bufo valliceps wilsoni Baylor and Stuart

Proc. Biol. Soc. Wash., 74, Aug. 11, 1961, p. 195, fig. 2.

HOLOTYPE, 119391. GUATEMALA: HUEHUETENANGO: Jacaltenango (ca. 50 km. by air NW Huehuetenango), ca. 1525 m. L. C. Stuart, June 6, 1955.

PARATOPOTYPES, 119354–90, 119392. Data as for holotype, except: June 7 (119370–78) and 8 (119379–90, 119392).

Bufo woodhousii fowleri Hinckley—see *Bufo fowleri* Hinckley**Bufo woodhousii velatus** Bragg and Sanders

Wasmann J. Biol., 9(3), Feb. 5, 1952, p. 366, figs. 1–4.

PARATOPOTYPE, 127828 (OS 1854). UNITED STATES: TEXAS: Anderson; Elkhart. Ottys Sanders and Ruth Maxwell, March 8, 1951.

Centrolenella megacheira Lynch and Duellman*

Occ. Paps. Mus. Nat. Hist. Univ. Kansas, (16), Sept. 7, 1973, p. 36, fig. 9, pl. 2A.

PARATOPOTYPES, 131668 (3). ECUADOR: NAPO: 16.5 km. NNE Santa Rosa on Quito-Lago Agrio Rd., 1700 m. Joseph T. Collins and William E. Duellman, Oct. 17–19, 1971.

Centrolenella midas Lynch and Duellman

Occ. Paps. Mus. Nat. Hist. Univ. Kansas, (16), Sept. 7, 1973, p. 38, fig. 9, pl. 1D.

PARATYPE, 129314. ECUADOR: NAPO: Lago Agrio, 330 m. Charles F. Walker, May 6, 1969.

Centrolenella munozorum Lynch and Duellman

Occ. Paps. Mus. Nat. Hist. Univ. Kansas, (16), Sept. 7, 1973, p. 40, figs. 1E, 3D, 10, pl. 1B.

PARATYPE, 129313. ECUADOR: NAPO: Lago Agrio, 14 km. E Santa Cecilia, 330 m. Charles F. Walker, May 6, 1969.

* Lynch's (1981) proposal that *Centrolenella* Noble become a subjective synonym of *Hyalopsis* Werner is being considered by the ICZN (1961).

Chiasmocleis anatipes Walker and Duellman

Occ. Paps. Mus. Nat. Hist. Univ. Kansas, (26), June 17, 1974, p. 1, figs. 1-3.

PARATOPOTYPE, 132897. ECUADOR: NAPO: Santa Cecilia, 340 m. Martha L. Crump, April 19, 1973.

Chiasmocleis boliviana Parker = *Hamptophryne boliviana* (Parker)

Occ. Paps. Mus. Zool. Univ. Mich., (187), Dec. 2, 1927, p. 3, pl. 1, fig. 5.

PARATYPES, 63966 (2). BOLIVIA: SANTA CRUZ: Buena Vista. José Steinbach.

Chirixalus hansenae (Cochran)—see *Philautus hansenae* Cochran**Chirixalus nongkhorensis** (Cochran)—see *Philautus nongkhorensis* Cochran**Colostethus bromelicola** (Test)—see *Phyllobates bromelicola* Test**Colostethus inguinalis** (Cope)—see *Hyloxalus panamansis* Dunn**Colostethus neblina** (Test)—see *Prostherapis neblina* Test**Colostethus nubicola** (Dunn)—see *Phyllobates flotator* Dunn and *Phyllobates nubicola* Dunn**Colostethus trinitatis** (Garman)—see *Phyllobates trinitatis* Garman**Craspedoglossa sanctae-catharinae** Müller = *Zachaenus sanctaecatharinae* (Müller)

Blatter für Aquarien- und Terrarienkunde, 33(11), June 15, 1922, p. 168, figs. 1-3.

SYNTYPES, 58522, (3 eggs), 58526 (2). BRAZIL: Santa Catharina, Rio Humboldt.

REMARKS.—According to the UMMZ catalogue, no collector was given for 58522 and only 1918 for date of collection; however, tags accompanying the eggs list W. Ehrhardt and "20/1/16" as the collector and date of collection. Both the adults (58526) and eggs (58522) were received from Karl Fritsche, and were used by Müller in the original description.

Cryptobatrachus boulengeri Ruthven

Occ. Paps. Mus. Zool. Univ. Mich., (33), Dec. 16, 1916, p. 2, pl. 1.

HOLOTYPE, 48530. COLOMBIA: Santa Marta Mtns., San Lorenzo, 1372 m. F. M. Gaige, July 3, 1913.

PARATOPOTYPES, 48531, 48532 (4), 48533-35, 48536 (= MCZ 4092), 48537-38. Data as for holotype, except: Bryant Walker Expedition, 1913.

REMARKS.—Fourteen paratypes were acknowledged by Ruthven. Two uncatalogued specimens are now BMNH 1916.4.4.20-21, leaving one specimen from the type-series missing. In addition, the following more specific data are available from the UMMZ catalogue and field notes: 48531 was collected by F. M. Gaige, July 3; 48532 by

A. G. Ruthven, July 5; 48533 by A. G. Ruthven, July 9; 48534 by A. S. Pearse, July 5; 48535 by M. A. Carriker, July 9; 48536 by Mrs. Carriker, July 13; 48537–38 by Mrs. Carriker, July 22. BMNH 1916.4.4.20–21 were collected by Mrs. Carriker, July 21, on the Cincinnati Coffee Plantation.

Cryptobatrachus fuhrmanni orientalis Rivero

Carib. J. Sci., 6(3–4), 1966 (1968), pl. 2, fig. 3.

HOLOTYPE, 74812. COLOMBIA: San Gil. Nicéforo María.

Cyclorhamphus culeus Garman = *Telmatobius culeus* (Garman)

Bull. Mus. Comp. Zool. Harvard, 3(11), Nov. 26, 1875, p. 276, pl. 1.

SYNTYPES, 48074 (MCZ 1080), 50096 (MCZ 1079). BOLIVIA: Carapata. A. Agassiz and S. Garman, 1875 (48074). Lake Titicaca (50096).

Cycloramphus granulosis (A. Lutz)—see *Cyclorhamphus granulosis* A. Lutz

Cyclorhamphus granulosis A. Lutz = *Cycloramphus granulosis* (A. Lutz)

Mem. Inst. Oswaldo Cruz, 22, 1929, p. 13, pl. 3, figs. 3–4.

SYNTYPE, 92446 (USNM 96747). BRAZIL: SÃO PAULO: Bonito, Serra da Bocaina.

Dendrobates boulengeri (Barbour)—see *Prostheraspis femoralis* Barbour

Dendrobates galindoi Trapido = *Dendrobates pumilio* O. Schmidt

Fieldiana, Zool., 34(15), July 24, 1953, p. 182, fig. 36.

PARATOPOTYPE, 120385 (FMNH 71078). PANAMÁ: BOCAS DEL TORO: edge Bastimentos, Bastimentos Id., 6 m. Harold Trapido, Pedro Galindo V., and Wilfred Hils, Nov. 22, 1952.

Dendrobates minutus ventrimaculatus Shreve = *Dendrobates quinquevittatus* Fitzinger

Occ. Paps. Boston Soc. Nat. Hist., 8, July 30, 1935, p. 213.

PARATYPES, 90657 (2, MCZ 19690, untagged duplicates). ECUADOR: along Pastaza River, from Canelos to Marañón River. C. Spencer, Jan., 1931 to Aug. 19, 1932.

Dendrobates pumilio O. Schmidt—see *Dendrobates galindoi* Trapido

Dendrobates quinquevittatus Fitzinger—see *Dendrobates minutus ventrimaculatus* Shreve

Dendrobates zaparo (Silverstone)—see *Phyllobates zaparo* Silverstone

Eleutherodactylus albipes Barbour and Shreve

Bull. Mus. Comp. Zool. Harvard, 80(9), Sept., 1937, p. 383, pl. 4, figs. 1–2.

PARATOPOTYPES, 107602 (2, MCZ 22049, untagged duplicates). CUBA: ORIENTE: Turquino Peak, 1646–1829 m. P. J. Darlington, June, 1936.

Eleutherodactylus alticola Lynn

Herpetologica, 1(3), July 15, 1937, p. 89, fig. 2.

PARATOPOTYPE, 92436 (USNM 102540). JAMAICA: ST. THOMAS: Blue Mt. Peak, 2243 m. W. G. Lynn, July 14, 1936.

Eleutherodactylus andrewsi Lynn

Herpetologica, 1(3), July 15, 1937, p. 88, fig. 1.

PARATYPE, 92442 (USNM 102521). JAMAICA: ST. ANDREW: Clydesdale. W. G. Lynn, June, 1936.

Eleutherodactylus angelicus Savage

Copeia, 1975(2), May 23, 1975, p. 274, fig. 8.

PARATYPES, 122681 (8), 125526 (2), 125532 (3), 129190 (3), 129191, 129196 (2), 129208. COSTA RICA: above Monteverde nr. Continental Divide on Pacific slope, 1500 m. C. F. Walker and Jerry James, May 2, 1968 (129190-91). ALAJUELA: Salto El Angel, S La Cinchona. C. F. Walker and D. Wake, Aug. 8, 1961 (122681). El Angel Falls. W. Y. Brockelman, July 18, 1964 (125532). HEREDIA: San Rafael de Vara Blanca. Herbert Nanne, July 26, 1966 (129208). HEREDIA [= ALAJUELA]; El Angel Falls, 8.7 km. below Vara Blanca. D. J. Futuyma, July 8, 1964 (125526).

REMARKS.—The Salto El Angel [= El Angel Falls, 8.7 km. below Vara Blanca, and El Angel Falls] specimens are probably paratopotypes.

Eleutherodactylus anotis Walker and Test

Occ. Paps. Mus. Zool. Univ. Mich., (561), Feb. 4, 1955, p. 7.

HOLOTYPE, 109876. VENEZUELA: ARAGUA: small stream, Rancho Grande, 1090 m. F. H. and A. Test, Dec. 8, 1951.

PARATOPOTYPES, 109877 (4). Data as for holotype, except: Dec. 28.

Eleutherodactylus anzuetoii Stuart

Proc. Biol. Soc. Wash., 54, Dec. 8, 1941, p. 197.

HOLOTYPE, 89160. GUATEMALA: EL QUICHÉ: 2 km. N Nebaj, ca. 1985 m. L. C. Stuart, July 12, 1940.

PARATOPOTYPE, 89911. Data as for holotype.

PARATYPES, 89912-13. GUATEMALA: ALTA VERAPAZ: cloud forest above Finca Chichén (11 km. [straight line] S and slightly E Cobán), ca. 1600 m. L. C. Stuart, May 17, 1940.

Eleutherodactylus audanti Cochran

Occ. Paps. Boston Soc. Nat. Hist., 8, Nov. 7, 1934, p. 164.

PARATYPES, 92216 (2, USNM 117121, 117127). HAITI: Morne la Visite.

REMARKS.—Exchanged as paratypes by the author, however, not among the type-series referred to by her (Cochran, 1961).

Eleutherodactylus augusti fuscofemora Zweifel = *Hylactophryne augusti fuscofemora* (Zweifel)

Am. Mus. Novit., (1813), Dec. 23, 1956, p. 24, figs. 5C, 6, 11.

PARATOPOTYPE, 120386 (FMNH 48137). MÉXICO: COAHUILA: Sacaton, 8 km. S Cuatro Ciénegas. Edward G. Marsh, Aug. 21, 1939.

Eleutherodactylus bakeri Cochran

Proc. Boston Soc. Nat. Hist., 40(6), Feb., 1935, p. 369.

PARATOPOTYPE, 107606 (MCZ 19845). HAITI: Mt. La Hotte, 1524–2377 m. P. J. Darlington, Oct., 1934.

Eleutherodactylus berkenbuschii (W. Peters)—see *Eleutherodactylus vulcani* Shannon and Werler**Eleutherodactylus boulengeri** Lynch

Occ. Paps. Mus. Zool. Univ. Mich., (697), Oct. 1, 1981, p. 2, figs. 1a–b, 2, 3a–b, 4.

HOLOTYPE, 166565. COLOMBIA: CAUCA: 3 km. by air SW Cerro Munchique, 2520 m. K. K. Adler, C. Elton, F. C. Lehmann, and H. and P. Trapido, July 11, 1965.

PARATOPOTYPES, 166566–71. Data as for holotype.

Eleutherodactylus bransfordii (Cope)—see *Eleutherodactylus persimilis* Barbour**Eleutherodactylus brevifrons** Lynch

Occ. Paps. Mus. Zool. Univ. Mich., (697), Oct. 1, 1981, p. 8, figs. 1c–d, 2, 3c–d, 4.

HOLOTYPE, 166572. COLOMBIA: VALLE DEL CAUCA: 15 km. WNW Cali [= Cerro San Antonio (also known as TV Tower Mtn.)], 2050 m. K. K. Adler and W. Moberly, July 17, 1965.

PARATOPOTYPES, 166573–81. Data as for holotype, except: F. Medem and K. K. Adler (166579–80), and K. K. Adler and W. Moberly (166581), July 18, 1965.

Eleutherodactylus briceni (Boulenger)—see *Hylodes briceni* Boulenger**Eleutherodactylus carmelitae** Ruthven

Misc. Publs. Mus. Zool. Univ. Mich., (8), Sept. 15, 1922, p. 51, pl. 11, fig. 1, pl. 12, fig. 1.

HOLOTYPE, 54528. COLOMBIA: Santa Marta Mtns., San Lorenzo, Quebrada Viernes Santo, 1524 m. Alexander G. Ruthven, July 16, 1920.

PARATOPOTYPE, 54527. Data as for holotype, except: collected June 15.

PARATYPES, 54529 (= MCZ 8979), 54530, 54531 (= NMB 3921), 54532–34. Data as for holotype, except: no elev. (54529), and Quebrada de la Dante (54530–34). A. G. Ruthven, June 20 (54529) and 23 (54530–34).

REMARKS.—Dante is probably Danta. UMMZ records show seven specimens in the paratypic series, although the author mentioned nine. The other two may be UMMZ 51110–11, the only other material identified as this species in our collection. Number 51110 is from Cincinnati, Santa Marta Mtns., collected July 2, 1913 by F. M. Gaige, and 51111 is from San Lorenzo, Santa Marta Mtns., collected by A. G. Ruthven. The two specimens were in the same bottle as the known paratypic series. The holotype was actually collected June 16, not July 16.

Eleutherodactylus caryophyllaceus (Barbour)—see *Syrrhopus caryophyllaceus* Barbour

Eleutherodactylus cochranæ Grant

J. Dept. Agric. Puerto Rico, 16(3), Oct., 1932, p. 325.

HOLOTYPE, 172576. U.S. VIRGIN ISLANDS: St. John Id. Chapman Grant, April 14, 1932.

PARATOPOTYPES, 73477 (105). Data as for holotype, except: April 13–17.

PARATYPES, 73478 (23, 2 missing, 2 = FMNH 109848–49). Data as for holotype, except: Hassel Id., St. Thomas, April 12.

REMARKS.—The holotype was listed by the author as CGC 5659. Upon receipt of the type-series (CGC 5659–763), all previous tags were removed, and then lot-catalogued as UMMZ 73477. I have compared this series to the original description, and I believe that one specimen, recatalogued 172576, best fits the author's description of the holotype. Number 73477 originally consisted of 105 specimens. Upon later inspection, the series was found to consist of 106. The probable source of the 106th specimen is the series 73478 (CGC 5373–95) from which two specimens are missing. Barbour and Loveridge's (1946) claim that the syntypic series resides in the MCZ is erroneous (see also Schwartz and Thomas, 1975).

Eleutherodactylus colostichos La Marca and H. M. Smith

Occ. Paps. Mus. Zool. Univ. Mich., (700), June 10, 1982, p. 2, figs. 1–2.

HOLOTYPE, 173044. VENEZUELA: MÉRIDA: Páramo de Los Conejos, jct. Quebrada Las Gonzáles with trail Manzano Alto-Las Gonzáles, 2.5 hrs. on foot from water pipe line known as "Las Canalejas," Serranía del Norte, 3600 m. Enrique La Marca and Frederic Arp, July 15, 1977.

Eleutherodactylus cooki Grant

J. Dept. Agric. Puerto Rico, 16(2), April, 1932, p. 145.

HOLOTYPE, 73442 (CGC 4108). PUERTO RICO: Pandura Mtns. Chapman Grant, Jan. 24, 1932.

Eleutherodactylus cubanus Barbour—see *Eleutherodactylus parvus* Barbour and Shreve

Eleutherodactylus cundalli Dunn—see *Eleutherodactylus lynni* Goin and Cooper

Eleutherodactylus decoratus purpurus Lynch

Trans. Ill. St. Acad. Sci., 60(3), 1967, p. 301, figs. 2–3.

HOLOTYPE, 102946. MÉXICO: TAMAULIPAS: cave nr. Rancho del Cielo, 5 km. NW Gómez Farías, 1067 m. C. F. Walker, Aug. 19, 1950.

PARATOPOTYPES, 102947 (3), 102948–49. Data as for holotype, except:

C. F. Walker and W. B. Heed, Aug. 28 (102947) and 29 (102948). W. B. Heed, Sept. 2 (102949).

REMARKS.—The author listed the holotype as 102496.

Eleutherodactylus delicatus Ruthven

Occ. Paps. Mus. Zool. Univ. Mich., (43), Sept. 8, 1917, p. 1, pl. 1.
 HOLOTYPE, 50159. COLOMBIA: Santa Marta Mtns., San Lorenzo,
 1524 m. Alexander G. Ruthven, July 21, 1913.
 PARATYPE, 50160. Data as for holotype, except: no elev., July 16.

Eleutherodactylus eneidae Rivero

Breviora, Harvard, (103), April 10, 1959, p. 4, pl.
 PARATOPOTYPE, 118450. PUERTO RICO: Villalba, Doña Juana For-
 ests. J. A. and E. B. Rivero, Aug. 26, 1956.

Eleutherodactylus escoces Savage

Copeia, 1975(2), May 23, 1975, p. 280, fig. 8.
 PARATOPOTYPE, 129175. COSTA RICA: HEREDIA: Volcán Barba nr.
 Rama Sur, Río Las Vueltas, ca. 2000 m. C. F. Walker, May 25,
 1969.
 PARATYPES, 123700 (21), 129914 (2), 129915 (5), 135291 (3), 135339
 (4). COSTA RICA: SAN JOSÉ: Finca La Hondura. 1962 (123700).
 CARTAGO: S slope Volcán Turrialba, ca. 1372 m. (129914), ca.
 1524 m. (129915) and no elev. (135291). A. and P. Starrett, and T.
 M. Uzzell, Jr. (129914–15, 135291) and Jorge Perez, A. and P.
 Starrett, and T. M. Uzzell, Jr. (135339), July 23 (129915, 135291)
 and 25 (129914, 135339), 1957.

Eleutherodactylus etheridgei Schwartz

Am. Mus. Novit., (1873), Feb. 27, 1958, p. 16, fig. 4.
 HOLOTYPE, 110180. CUBA: ORIENTE: U.S. Naval Base, nr. Guantana-
 mo Bay. Thomas M. Uzzell, Jr., Feb. 20, 1954.
 PARATOPOTYPES, 110179 (2, 1 = MCZ 30398), 110180 (= UMMZ
 117998), 115736. Data as for holotype, except: Richard Etheridge,
 Feb. 13 (110179) and Oct. 31 (115738), 1951.

Eleutherodactylus greggi Bumzahn

Copeia, 1955(2), May 20, 1955, p. 118.
 PARATOPOTYPE, 120387 (FMNH 71839). GUATEMALA: Volcán Ta-
 jumulco, nr. San Marcos. Karl P. Schmidt, Feb. 15, 1934.

Eleutherodactylus haitianus Barbour—see *Eleutherodactylus intermedius*
Cochran**Eleutherodactylus insignitus** Ruthven

Occ. Paps. Mus. Zool. Univ. Mich., (34), Jan. 7, 1917, p. 1, 3 figs.,
 pl. 1.
 HOLOTYPE, 48393. COLOMBIA: Santa Marta Mtns., heights E San
 Miguel, 1829–2134 m. M. A. Carriker, April 24, 1914.
 PARATOPOTYPES, 48394, 48396 (= MCZ 4074), 48397–99, 48400
 (missing), 48401 (= FMNH 109850), 48402–403, 48404 (2), 48406
 (2, 1 = NMB 3924), 48407. Data as for holotype, except: April 23
 (48394).
 REMARKS.—According to J. Lynch (pers. comm.), 48396 is *Eleuther-*
odactylus w-nigrum.

Eleutherodactylus intermedius Cochran = *Eleutherodactylus haitianus* Barbour

Bull. U.S. Natl. Mus., 177, 1941, p. 70, fig. 22.

PARATOPOTYPE, 92214 (USNM 107568). REPÚBLICA DOMINICANA: Loma Rucilla, Cordillera Central, 2438–3048 m. P. J. Darlington, June, 1938.

PARATYPE, 92215 (USNM 107577). REPÚBLICA DOMINICANA: Valle Nuevo, SE Constanza, 1829–2438 m. P. J. Darlington, Aug., 1938.

REMARKS.—*E. haitianus* Barbour (1942:179) is a substitute name for *E. intermedius* Cochran, which is preoccupied by *E. intermedius* Barbour and Shreve (1937:384).

Eleutherodactylus karlschmidti Grant

Copeia, 1931(2), July 20, 1931, p. 55, 5 figs.

HOLOTYPE, 73426 (CGC 1483). PUERTO RICO: Luquillo Forest. Chapman Grant, April 11, 1931.

PARATOPOTYPES, 73427 (13, CGC 1484–97). Data as for holotype.

PARATYPES, 73428 (8, CGC 1618–25), 73429 (6, CGC 2558–63), 73430 (24, CGC 2508–532), 73432 (9, CGC 1313–21, 2 = USNM 118647–48). Data as for holotype, except: 10 km. S Canóvanas, April 19 (73428), July 19 (73429–30) and March 21 (73432).

REMARKS.—Grant indicated that he had a series of 60 specimens. A list of his material in the UMMZ shows that the field numbers for these are 1313–30, 1483–510 and 1618–32, for a total of 61 individuals. The number CGC 1483 (of the holotype) is duplicated on a specimen of another taxon.

Eleutherodactylus laticeps (Duméril)—see *Eleutherodactylus stantoni* K. P. Schmidt

Eleutherodactylus lewisi Lynn and Dent = *Eleutherodactylus luteolus* (Gosse)

Herpetologica, 2(4), July 15, 1942, p. 72, 4 figs., 1 pl.

PARATOPOTYPE, 92443 (USNM 115440). JAMAICA: WESTMORELAND: nr. Bush Mt., base Dolphin Head. W. G. Lynn, Aug. 12, 1941.

Eleutherodactylus luteolus (Gosse)—see *Eleutherodactylus lewisi* Lynn and Dent

Eleutherodactylus lynni Goin and Cooper = *Eleutherodactylus cundalli* Dunn

Occ. Paps. Mus. Inst. Jamaica, (4), Aug. 1, 1950, p. 4, 1 pl.

PARATOPOTYPE, 98752. JAMAICA: ST. JAMES: Sweetwater, nr. Horse Guards Rd. Coleman J. Goin and Byrum W. Cooper, July 5, 1948.

Eleutherodactylus megalops Ruthven

Occ. Paps. Mus. Zool. Univ. Mich., (39), May 28, 1917, p. 3, pl. 1, figs. 1–2.

HOLOTYPE, 48444. COLOMBIA: Santa Marta Mtns., San Lorenzo, 1524 m. Alexander G. Ruthven, July 16, 1913.

PARATOPOTYPES, 48445–48, 48449 (= FMNH 109851), 48450–51, 48452 (= MCZ 4755), 48453–55, 48456 (= MCZ 4756), 48457, 48458 (= USNM 64026), 48459–65, 48466 (2, 1 = NMB 3922). Data as for holotype, except: July 7 (48458), 8 (48463), 19 (48456, 48461), 21 (48451, 48462) and 23 (48457). F. M. Gaige, July 5 (48465) and 22 (48452), and A. S. Pearse, July 3 (48459) and 5 (48449, 48455).

REMARKS.—Ruthven referred to 22 paratypes, whereas 23 specimens are designated as paratypes in the UMMZ catalogue. The original field notes of the Bryant Walker Expedition stated that the holotype and topotypes were obtained in the woods south of Cincinnati, a coffee plantation on Cerro San Lorenzo, Departamento de Magdalena. According to the field notes, 48456 came from “below 6,500 ft. [1981 m.]” elevation, and 48457 “ca. 6,000 ft. [1829 m.]” The additional specimens Barbour and Loveridge (1946) listed as paratypes (MCZ 8981-82) are not from the original series.

Eleutherodactylus mexicanus (Brocchi)—see *Microbatrachylus oaxacae* Taylor

Eleutherodactylus milesi K. P. Schmidt

Field Mus. Nat. Hist. Zool. Ser., 20, Dec. 11, 1933, p. 18.

PARATOPOTYPE, 120388 (FMNH 4701). HONDURAS: mtns. W San Pedro, 1372 m. Karl P. Schmidt and Leon L. Walters, March 31, 1923.

Eleutherodactylus octavioi Bokermann

Copeia, 1965(4), Dec. 31, 1965, p. 440, figs. 1–2.

PARATOPOTYPE, 127310 (WACB 14914). BRAZIL: GUANABARA: Rio de Janeiro, Estrada da Cascatinha, Tijuca Mtns., 350 m. O. Oliveira, April, 1964.

REMARKS.—The UMMZ catalogue lists Nov., 1962 as the date of collection.

Eleutherodactylus parvus Barbour and Shreve = *Eleutherodactylus cubanus* Barbour

Bull. Mus. Comp. Zool. Harvard, 80(9), Sept., 1937, p. 386, pl. 2, figs. 3–4.

PARATOPOTYPE, 107604 (MCZ 21956). CUBA: ORIENTE: Cueva del Aura, Turquino Peak, ca. 1067 m. P. J. Darlington, June, 1936.

REMARKS.—*E. parvus* Barbour and Shreve was preoccupied by *E. parvus* (Girard), and the substitute *E. cubanus* was proposed by Barbour (1942).

Eleutherodactylus patriciae Schwartz

Carib. J. Sci., 4(4), Dec., 1964, p. 474, figs. 1–3, 6.

PARATYPES, 124781–99. REPÚBLICA DOMINICANA: LA VEGA: 9 km. NE Valle Nuevo, 2256 m. Patricia A. Heinlein and Ronald F. Klinikowski, July 1, 1963.

Eleutherodactylus persimilis Barbour = *Eleutherodactylus bransfordii* (Cope)

Occ. Paps. Boston Soc. Nat. Hist., 5, Jan. 30, 1926, p. 193, pl. 14.
PARATOPOTYPE, 107601 (MCZ 11610, untagged duplicate). COSTA RICA: Suretka, nr. boundary Bocas del Toro Province, Panamá. E. R. Dunn and Chester B. Duryea, 1923.

Eleutherodactylus pinarensis Dunn

Occ. Paps. Boston Soc. Nat. Hist., 5, July 6, 1926, p. 213.
PARATYPE, 92441 (USNM 26741). CUBA: San Diego de los Baños. W. Palmer and J. H. Riley, April 14–16, 1900.

Eleutherodactylus podiciferus (Cope)—see *Lithodytes podiciferus* Cope

Eleutherodactylus poolei Cochran

Proc. Biol. Soc. Wash., 51, May 19, 1938, p. 93.
PARATOPOTYPE, 92209 (USNM 74003). HAITI: Citadel King Christophe. A. J. Poole, Feb. 14, 1929.

Eleutherodactylus racemus Lynch

Caldasia, 13(61), Aug. 14, 1980, p. 172, figs. 3–4.
PARATYPE, 166584 (CFW 4092). COLOMBIA: VALLE DEL CAUCA: 3.7 km. E Tenerife, 3048 m. A. E. Smalley, June 28, 1965.

Eleutherodactylus reticulatus Walker and Test

Occ. Paps. Mus. Zool. Univ. Mich., (561), Feb. 4, 1955, p. 4.
HOLOTYPE, 109872. VENEZUELA: ARAGUA: slope Pico Periquito, Rancho Grande, ca. 1275 m. F. H. and Avery Test, Jan. 10, 1952.
PARATYPES, 109873–74. Data as for holotype, except: Rancho Grande, ca. 1090 m. Nov. 1, 1951 (109873) and Jan. 15 (109874).
REMARKS.—The elevation listed for the holotype in the UMMZ catalogue is 381 m. Numbers 109873–74 are erroneously listed as paratopotypes in the original publication.

Eleutherodactylus ricordii rogersi Goin

Am. Mus. Novit., (1708), Feb. 19, 1955, p. 1, fig. 1.
PARATOPOTYPE, 110103. BAHAMAS: EXUMA CAYS: Darby Id., lat. 23°50'S, long. 76°11'W. G. B. Rabb, Jan. 18, 1953.
PARATYPES, 110102 (5), 110104 (3), 110105 (2), 110106 (5), 110107 (3). BAHAMAS: EXUMA CAYS; Bell Id., lat. 24°19'S, long. 76°32'W (110102); Long Id., Deadman's Cay Settlement, lat. 23°10'S, long. 75°07'W (110104), and Clarendetown, lat. 23°16'S, long. 74°58'W (110105); San Salvador (Watling Id.), 2.4 km. N Cockburutown, lat. 24°03'S, long. 74°31'W (110106), and Cat Id., Bennett's Harbour, lat. 24°34'S, long. 75°39'W (110107). G. B. Rabb (110104–107), and E. B. Hayden, Jr., and L. Giovannoli (110102), Jan. 14 (110102) and March 10 (110104), 14 (110105), 18 (110106) and 23 (110107), 1953.

Eleutherodactylus sanctaemartae Ruthven—see *Eleutherodactylus sanctaemartae* Ruthven

Eleutherodactylus sanctae-martae Ruthven = *Eleutherodactylus sanctaemartae* Ruthven

Occ. Paps. Mus. Zool. Univ. Mich., (39), May 28, 1917, p. 1, pl. 1, figs. 3–4.

HOLOTYPE, 48605. COLOMBIA: Santa Marta Mtns., San Lorenzo, 1524 m. Alexander G. Ruthven, July 16, 1913.

REMARKS.—The specific locality given in the catalogue is Cincinnati, a place on San Lorenzo (see remarks on *Eleutherodactylus megalops*).

Eleutherodactylus simoterus Lynch

Caldasia, 13(61), Aug. 14, 1980, p. 177, fig. 5.

PARATYPES, 166585–88 (IJ 6205, 6207–209), 166589–90 (IJ 6210–11).

COLOMBIA: CALDAS: 40 (166589–90) and 45 (166585–88) km. NE Manizales, 3520 m. (166589–90) and 3900 m. (166585–88). K. K. Adler and W. R. Moberly, July 28, 1965.

REMARKS.—According to our records, the specimens came from SE Manizales, on the road to Nevado del Ruiz. The “IJ” prefix reported by Lynch refers to the collector’s field series.

Eleutherodactylus stantoni K. P. Schmidt = *Eleutherodactylus laticeps* (Duméril)

Field Mus. Nat. Hist. Zool. Ser., 22(8), Dec. 30, 1941, p. 483.

HOLOTYPE, 80673. BELIZE: Valentin. C. L. Lundell, July 6, 1936.

PARATOPOTYPE, 80672. Data as for holotype.

Eleutherodactylus stenodiscus Walker and Test

Occ. Paps. Mus. Zool. Univ. Mich., (561), Feb. 4, 1955, p. 2.

HOLOTYPE, 109866. VENEZUELA: ARAGUA: Pico Periquito, Rancho Grande. F. H. and Avery Test, Jan. 1, 1952.

PARATOPOTYPES, 109867–69, 109870 (11, 1 = WCAB, 1 missing), 109871 (9, 1 = MN A-2788). Data as for holotype, except: 1090 m. (109868) and no elev. (109867, 109869, 109871). Sept. 27 (109867) and Dec. 18 (109869), 1951, and Jan. 10, 1952 (109871).

REMARKS.—The UMMZ catalogue records the holotype from ca. 1375 m. elevation. Number 109870 (field no. AB 4383) is now cleared and stained and recatalogued as 152559. The missing 109871 could not be located, as expected, in the “B. and A. Lutz” collection, formerly housed in the Instituto Oswaldo Cruz, but now kept in the Museo Nacional (A. Leitão de Carvalho, pers. comm.).

Eleutherodactylus stuarti Lynch

Trans. Kans. Acad. Sci., 70(2), Sept. 22, 1967, p. 180, fig. 1.

HOLOTYPE, 126738. GUATEMALA: HUEHUETENANGO: Paraiso, 13 km. S La Mesilla (Guatemala-México border), 2200 m. L. C. Stuart, June 27, 1966.

PARATYPES, 126455, 126739–40. Data as for holotype, except: Finca El Injerta, ca. 3.2 km. towards [8 km. S] El Reposo. T. G. Betz, May 30, 1965 (126455). Nr. Hoja Blanca, ca. 1970 m. June 29 (126739). Nr. Hoja Blanca, ca. 2150 m. July 1 (126740).

REMARKS.—Hoja Blanca is 4 km. W Aldea Paraiso, whereas Lynch stated that 126739–40 came from Aldea Paraiso. The two published text-figures are reversed.

Eleutherodactylus talamancae Dunn

Occ. Paps. Boston Soc. Nat. Hist., 5, Aug. 18, 1931, p. 385.

PARATYPE, 90653 (MCZ 9975). PANAMA: La Loma. Dunn and Duryea, Aug., 1923.

Eleutherodactylus terraebolivaris Rivero

Bull. Mus. Comp. Zool. Harvard, 126(1), Nov., 1961, p. 58.

PARATYPE, 55545. VENEZUELA: Bejuma. H. B. Baker, Feb. 14, 1920.

REMARKS.—Number 55545 was catalogued as three specimens, however, only one can be located.

Eleutherodactylus turquinensis Barbour and Shreve

Bull. Mus. Comp. Zool. Harvard, 80(9), Sept., 1937, p. 380, pl. 3, fig. 1.

PARATOPOTYPE, 107605 (MCZ 21984, untagged duplicate). CUBA: ORIENTE: nr. Cueva del Aura, Turquino Peak, 457–1219 m. P. J. Darlington, June, 1936.

Eleutherodactylus viridicans Lynch

Occ. Paps. Mus. Zool. Univ. Mich., (678), Aug. 5, 1977, p. 1, figs. 1–2.

HOLOTYPE, 143468. COLOMBIA: CAUCA: 2 km. S Cerro Munchique, alongside rd. from El Tambo to Cordillera Occidental, 2540 m. K. Adler, C. Elton, F. Lehmann, and H. and P. Trapido, July 11, 1965.

PARATYPES, 143469 (5). Data as for holotype, except: Ca. 3 km. by air SW Cerro Munchique, 2520 m.

Eleutherodactylus vulcani Shannon and Werler = *Eleutherodactylus berkenbuschii* (W. Peters)

Trans. Kans. Acad. Sci., 58(3), 1955, p. 379, fig. 5, pl. 3, fig. 2.

PARATYPE, 117249 (UIMNH 35767). MÉXICO: VERACRUZ: slopes Volcán San Martín, 914–1219 m. J. Werler, Feb. 4–19, 1953.

Eleutherodactylus walkeri Lynch

Proc. Biol. Soc. Wash., 87(33), Dec. 31, 1974, p. 381, figs. 1–2.

PARATYPES, 131675 (10). ECUADOR: PICHINCHA: Hacienda Delta, ca. 8 km. SE Santo Domingo de los Colorados. Charles F. Walker, Aug. 11, 1962.

Eleutherodactylus wetmorei Cochran

Proc. Biol. Soc. Wash., 45, Oct. 25, 1932, p. 191.

PARATOPOTYPE, 92210 (USNM 72620). HAITI: Fonds-des-Negres. B. H. Swales and A. Wetmore, April 5, 1927.

Eleutherodactylus xucanebi Stuart

Proc. Biol. Soc. Wash., 54, Dec. 8, 1941, p. 199.

- HOLOTYPE, 89914. GUATEMALA: ALTA VERAPAZ: cloud forest above Finca Volcán (49 km. [straight line] E Cobán), ca. 1300 m. L. C. Stuart, March 25, 1940.
- Elosia magalhaesi** Bokermann = *Hylodes magalhaesi* (Bokermann)
Neotropica, 10(33), Dec. 1, 1964, p. 102, figs. 1–4.
PARATOPOTYPE, 128452 (WCAB 14778). BRAZIL: SÃO PAULO: Campos do Jordão, ca. 1550 m. Jose Carlos Reis de Magalhaes, Feb. 10, 1964.
- Elosia ornata** Bokermann = *Hylodes ornatus* (Bokermann)
Neotropica, 13(42), Dec. 1, 1967, p. 135, figs. 1–2.
PARATOPOTYPE, 128453 (WCAB 19570). BRAZIL: RIO DE JANEIRO: Parque Nacional do Itatiaia, ca. 2250 m. C. A. Campos Seabra, F. M. Oliveira and Werner C. A. Bokermann, Nov. 27, 1964.
REMARKS.—The author incorrectly cited the field number as WCAB 19970.
- Eupemphix maculiventris** A. Lutz = *Physalaemus maculiventris* (A. Lutz)
Compte Rendus Soc. Biol. Paris, 93(21), June 12, 1925, p. 138.
SYNTYPE, 92444 (USNM 96844). BRAZIL: São Paulo: Alto de Serra da Cubatão. Feb., 1923.
- Eupemphix ruthveni** Netting = *Physalaemus pustulosus* (Cope)
Ann. Carnegie Mus., 19(3), Jan. 21, 1930, p. 167, pl. 7, fig. 1.
HOLOTYPE, 45582. COLOMBIA: Fundación. Alexander G. Ruthven, Aug. 16, 1913.
PARATOPOTYPES, 45579 (= USNM 118717), 45580, 48201. Data as for holotype, except: Aug. 13 (45579), F. M. Gage, Aug. 11 (48201) and 16 (45580).
PARATYPES, 45484 (= MCZ 15698), 45485, 45486 (= CM 5455), 45487, 45488 (missing), 45583, 48196, 48200, 54586–88. Data as for holotype, except: Santa Marta Mtns. (48200), Santa Marta (45488), Don Diego (48196), and Santa Marta Mtns., between Mamatoco and La Tigra (45483–86), San Lorenzo, Minca (45487), Bolivar (54586), and Valencia (54587–88). A. S. Pearse (45485) and M. A. Carriker (48196), summer (48200), July 3 (45487), 28 (45583) and 29 (45485), and Aug. 26 (45484, 45486, 45488), 1913, Jan. 26, 1914 (48196), and July 4 (54586), and Aug. 6 (54587) and 8 (54588), 1920.
- Gastrotheca aureomaculata** Cochran and Goin—see *Gastrotheca mertensi* Cochran and Goin
- Gastrotheca boliviana griswoldi** Shreve = *Gastrotheca griswoldi* Shreve
Proc. New England Zool. Club, 18, Sept. 13, 1941, p. 82.
PARATOPOTYPES, 90169 (3, MCZ untagged duplicates). PERÚ: JUNÍN: Maraynioc, ca. 72 km. NE Tarma, 3658 m. J. A. Griswold, Jr., March 6–May 13, 1939.
REMARKS.—The UMMZ catalogue gives the date of collection as Oct.

Gastrotheca excubitor Duellman and Fritts

Occ. Paps. Mus. Nat. Hist. Univ. Kansas, (9), p. 23, fig. 4C–D, 7E–G, 8.

PARATYPE, 131676. PERÚ: CUZCO: crest Abra Acanacu, 3520 m. W. E. Duellman and T. H. Fritts, Jan. 16, 1971.

Gastrotheca griswoldi Shreve—see *Gastrotheca boliviana griswoldi* Shreve**Gastrotheca medemi** Cochran and Goin

Bull. U.S. Natl. Mus., 288, 1970, p. 172, fig. 12.

HOLOTYPE, 123068. COLOMBIA: META: Serranía de La Macarena, Caño Guapayita, 400 m. F. Medem, Jan. 14, 1951.

REMARKS.—The UMMZ catalogue states “ca. 400 m.”

Gastrotheca mertensi Cochran and Goin = *Gastrotheca aureomaculata* Cochran and Goin

Bull. U.S. Natl. Mus., 288, 1970, p. 181, fig. 17.

HOLOTYPE, 121024. COLOMBIA: CAUCA: Moscopán. Marte Latham, April–May, 1957.

PARATOPOTYPES, 121025–30, 121031 (7 yg.). Data as for holotype.

REMARKS.—The 121031 young were considered paratopotypes by Cochran and Goin; however, the UMMZ catalogue refers to their origin as “Luzselva.” According to field notes, Luzselva is at 3048 m., and F. Medem and Carlos F. Lehmann (in litt. to C. F. Walker) claimed that it is “a finca, ca. 2200 m. between Tijeras and Quebradón, Moscopán County [= La Plata Municipio], eastern slope Central Cordillera.” Moscopán, referring to a region of paramo, and Luzselva are in the Department of Huila. The 121031 young were collected April, 1957.

Gastrotheca nicefori Gaige

Occ. Paps. Mus. Zool. Univ. Mich., (263), June 10, 1933, p. 1.

HOLOTYPE, 73242. COLOMBIA: Pensilvania. Nicéforo María.

PARATOPOTYPE, 71218. Data as for holotype.

Gastrotheca ochoai Duellman and Fritts

Occ. Paps. Mus. Nat. Hist. Univ. Kansas, (9), Sept. 25, 1972, p. 27, figs. 4E–F, 5, 10–12.

PARATOPOTYPES, 131688 (9). PERÚ: CUZCO: 10 km. NW Ollantaytambo, 2760 m. Mr. and Mrs. Thomas Fritts and C. F. Walker, Jan. 11, 1970.

REMARKS.—According to the UMMZ catalogue, the place of origin of 131688 is 4 km. NW Cuzco, ca. 3600 m. Moreover, all nine specimens are *Gastrotheca marsupiata*, and it seems that their status as types of *G. ochoai* is only due to a typographical error in the original publication (W. E. Duellman, pers. comm.).

Gastrotheca walkeri Duellman

Occ. Paps. Mus. Zool. Univ. Mich., (690), Feb. 7, 1980, p. 1, fig. 1.

HOLOTYPE, 117177. VENEZUELA: ARAGUA: between Estación Bioló-

gica Rancho Grande and Paso Portachuelo, 1100 m. Harold Heatwole, Aug. 13, 1956.

PARATOPOTYPES, 117178 (21 yg. born to holotype, Sept. 1, 1956).

PARATYPES, 113881–82. VENEZUELA: ARAGUA: Rancho Grande. F. H. Test, Oct. 16 (113881) and Dec. 15 (113882), 1951.

Gastrotheca williamsoni Gaige

Occ. Paps. Mus. Zool. Univ. Mich., (107), Feb. 25, 1922, p. 1.

HOLOTYPE, 55559. VENEZUELA: San Esteban. E. B. Williamson, Feb. 2, 1920.

REMARKS.—The UMMZ catalogue also lists J. Williamson as collector.

Geobatrachus walkeri Ruthven

Occ. Paps. Mus. Zool. Univ. Mich., (20), Dec. 20, 1915, p. 2.

HOLOTYPE, 47785. COLOMBIA: Santa Marta Mtns., San Lorenzo, 2438 m. A. G. Ruthven, July 19, 1913.

PARATOPOTYPES, 47786 (2, 1 = MCZ 3896), 47787, 47788 (3), 47789, 48267, 48268 (AMNH 38765). Data as for holotype, except: F. M. Gaige (47787, 48268), and A. S. Pearse (47788–89), July 5 (47787), 19 (47788) and 23 (47789, 48267–68).

REMARKS.—Field notes indicate that the holotype and 47788 came from the summit of San Lorenzo, 47787 from the forest south of Cincinnati, 47789 from just above timberline, and 48267–68 from just below timberline.

Glauertia russelli Loveridge = *Uperoleia russelli* (Loveridge)

Occ. Paps. Boston Soc. Nat. Hist., 8, Aug. 25, 1933, p. 89.

PARATOPOTYPE, 90652 (MCZ 19429). AUSTRALIA: WESTERN AUSTRALIA: trib. Gascoyne River nr. Landor Station. L. Glauert.

Hampophryne boliviana (Parker)—see *Chiasmocleis boliviana* Parker

Helocaetes feriarum Baird = *Pseudacris triseriata feriarum* (Baird)

Proc. Acad. Nat. Sci. Philad., 7, April, 1854, p. 60.

SYNTYPE, 3857 (USNM 3592). UNITED STATES: PENNSYLVANIA: Carlisle. S. F. Baird.

Hoplophryne uluguruensis Barbour and Loveridge

Mem. Mus. Comp. Zool. Harvard, 50, Dec., 1928, p. 254, pl. 2, figs. 3–5.

PARATYPE, 90650 (MCZ 13812). TANZANIA: Uluguru Mtns., Vituri. Arthur Loveridge, Oct. 28, 1926.

Hyla albofrenata A. Lutz

Compte Rendus Soc. Biol. Paris, 90, 1924, p. 241.

SYNTYPES, 68786 (3, 2 tadpoles). BRAZIL: RIO DE JANEIRO: Rio de Janeiro, Angra dos Reis. A. Lutz, April 24, 1924.

Hyla altae Dunn = *Hyla staufferi altae* Dunn

Occ. Paps. Boston Soc. Nat. Hist., 8, June 7, 1933, p. 61.

PARATYPE, 74445. PANAMÁ: CANAL ZONE: Summit. E. R. and Mrs. Dunn, Aug. 2, 1932.

Hyla anceps A. Lutz

Compte Rendus Sci. Soc. Biol. Paris, 101, 1929, p. 943.

SYNTYPE, 68773. BRAZIL: RIO DE JANEIRO: Estrella, between Rio de Janeiro and Petropolis. A. Lutz, Jan. 3, 1929.

Hyla aurantiaca surda Cochran = *Sphaenorhynchus surdus* (Cochran)

Herpetologica, 8(4), Jan. 30, 1953, p. 112, figs. E–F.

HOLOTYPE, 106736. BRAZIL: PARANÁ: Curitiba. Joseph R. Bailey, Feb. 10, 1941.

PARATOPOTYPES, 104115, 104116 (3, 1 = USNM 132912).

REMARKS.—Number 104115, like the holotype, was found in the “prairie just south of town” [Curitiba], the remaining three paratopotypes were collected “west of town” on Feb. 13.

Hyla baileyi Cochran—see *Hyla goughi baileyi* Cochran**Hyla baumgardneri** Rivero

Bull. Mus. Comp. Zool. Harvard, 126(1), Nov., 1961, p. 123.

PARATYPE, 114317 (UPR 178). VENEZUELA: AMAZONAS: La Culebra, Upper Cunucunuma River, 305 m. Juan A. Rivero, May, 1950.

Hyla becki Loveridge = *Litoria becki* (Loveridge)

Proc. Biol. Soc. Wash., 58, May 7, 1945, p. 55.

PARATOPOTYPE, 107610 (MCZ 25901–909, untagged duplicates).

PAPUA NEW GUINEA: MADANG: Mt. Wilhelm, Bismarck Range, 2286–3048 m. P. J. Darlington, Oct., 1944.

Hyla berthaltutzae Bokermann

Neotropica, 8(27), Dec. 1, 1962, p. 84, figs. 6–10.

PARATYPE, 127313 (WCAB 9098). BRAZIL: SÃO PAULO: Campo Grande, San Andre. Werner C. A. Bokermann, Sept. 9, 1962.

Hyla blairi Fouquette and Pyburn

Herpetologica, 28(2), June, 1972, p. 176, figs. 1–3.

PARATOPOTYPE, 130157. COLOMBIA: VAUPÉS: nr. jct. Río Ariari and Río Guaviare. W. F. Pyburn and J. R. Glidewell, June 29, 1969.

REMARKS.—In this case Vaupés is now Guaviare.

Hyla bogerti Cochran and Goin

Bull. U.S. Natl. Mus., 288, 1970, p. 261, fig. 25.

PARATOPOTYPES, 56508 (39), 60251 (2). COLOMBIA: ANTIOQUIA: Medellín. Nicéforo María.

PARATYPES, 71214 (3), 71215 (2), 78301 (14, 2 = MCZ 21444–45), 90601 (2), 92167. Data as for 56508, except: Andes, 1256 m. (92167), Jericó (71214, 78301, 90601), and San Pedro (71215). Nov., 1938 (90601).

REMARKS.—The locality data for the paratypes and the number of specimens in the series differ substantially from those given by Cochran and Goin. Number 56508 consists of 39 specimens, not 38, 71214 three specimens, not one, 78301 14 specimens, not 17, and 71214 and 78301 are from Jericó, not San Pedro.

Hyla bromeliacia K. P. Schmidt

Field Mus. Nat. Hist. Zool. Ser., 20, Dec. 11, 1933, p. 19.

PARATOPOTYPE, 80917 (FMNH 4719). HONDURAS: W San Pedro, 1372 m. Karl P. Schmidt and Leon L. Walters, March 31, 1923.

Hyla carnifex Duellman

Herpetologica, 25(4), Dec. 16, 1969, p. 242, figs. 1-3.

PARATYPES, 129016 (8). ECUADOR: PICHINCHA: Tandapi (known as Corneja Astorga, lat. 0°24'S, long. 78°51'W), 1400 m. G. R. Smith and R. W. Henderson, July 27, 1968.

Hyla chaneque Duellman

Herpetologica, 17(1), April 15, 1961, p. 1, figs. 1-2

PARATOPOTYPE, 123121 (KU 58443). MÉXICO: CHIAPAS: 6.2 km. S Rayon Mescalapa, ca. 1690 m. John Wellman, Aug. 5. 1960.

Hyla chryses Adler

Occ. Paps. Mus. Zool. Univ. Mich., (642), Dec. 16, 1965, p. 1, fig. 1, pl. 1A.

HOLOTYPE, 125374. MÉXICO: GUERRERO: between "Puerto Chico" and "Asoleadero" [ca. 45 km. by air WNW Chilpancingo], 2540-2600 m. Kraig Adler, June 13-14, 1964.

PARATOPOTYPES, 125372 (= KU 106306), 125373, 125375. Data as for holotype.

REMARKS.—The catalogue lists K. Adler, J. Brown and G. Musser as collectors.

Hyla cinerea Schneider—see *Hyla evittata* Miller**Hyla cruentomma** Duellman

Copeia, 1972(2), June 8, 1972, p. 266, figs. 1-4.

PARATOPOTYPES, 129321 (8). ECUADOR: NAPO: Santa Cecilia. C. F. Walker and T. H. Fritts, May 6-19, 1969.

Hyla cuspidata A. Lutz

Trabalho Inst. Oswaldo Cruz, March 10, 1926, p. 6.

SYNTYPES, 64149 (2, 1 = MCZ 12889). BRAZIL: Rio de Janeiro. A. Lutz.

Hyla evittata Miller = *Hyla cinerea* Schneider

Proc. Biol. Soc. Wash., 13, Sept. 28, 1899, p. 76.

PARATOPOTYPE, 92464 (USNM 45967). UNITED STATES: VIRGINIA: Alexandria; Four Mile Run. E. A. Preble, July, 1898.

Hyla eximia Baird—see *Hyla wrightorum* Taylor**Hyla fuscomarginata** A. Lutz—see *Hyla madeirae* Bokermann and *Hyla parkeri* Gaige**Hyla goughi baileyi** Cochran = *Hyla baileyi* Cochran

Herpetologica, 8(4), Jan. 30, 1953, p. 114, figs. G-H.

HOLOTYPE, 106737. BRAZIL: SÃO PAULO: Fazenda Poco Grande, 8 km. N Juquia. Joseph R. Bailey, Feb. 27-28, 1941.

PARATOPOTYPES, 104119 (7, 1 = USNM 132913), 104127 (9, 2 = USNM 132914–15), 104131 (6, 1 = USNM 132916). Data as for holotype, except: Feb. 26 (104131) and 28 (104127).

Hyla heilprini Noble

Am. Mus. Novit., (61), March 16, 1923, p. 1.

PARATOPOTYPE, 102473 (AMNH 31301). REPÚBLICA DOMINICANA: PACIFICADOR: Lo Bracita. G. K. Noble, Aug. 7, 1922.

REMARKS.—The type-locality is spelled “Lo Bracito” in our catalogue.

Hyla helenae Ruthven

Occ. Paps. Mus. Zool. Univ. Mich., (69), April 25, 1919, p. 10, pl. 1.

HOLOTYPE, 52681. GUYANA: Dunoon. A. G. Ruthven, Aug. 14, 1914.

PARATOPOTYPES, 52682, 52715, 52716 (2), 52717 (3). Data as for holotype, except: July 22 (52682), and Aug. 18 (52715–17).

REMARKS.—Number 52717 was erroneously listed by the author as 52517. All but 52682 are variously developed tadpoles.

Hyla jahni Rivero = *Hyla platydactyla* Boulenger

Bull. Mus. Comp. Zool. Harvard, 126(1), Nov., 1961, p. 113.

HOLOTYPE, 46465. VENEZUELA: Escorial.

PARATOPOTYPES, 105439–40. Data as for holotype.

REMARKS.—Originally, 46465 consisted of two specimens, identified as holotype and paratype by Rivero. The paratype has since been recatalogued as 105439. Number 59016 also consisted of two specimens, one of which is the holotype of *Hyla paramica* Rivero, the other a paratype of *Hyla jahni*, which has since been recatalogued as 105440.

Hyla juanitae Snyder

J. Herpetology, 6(1), March 31, 1972, p. 5, figs. 1–2, pl. 1A–C.

PARATOPOTYPE, 129874. MÉXICO: GUERRERO: 15 km. by rd. NE San Vicente de Benitez (30 km. by air NE Atoyac de Alvarez), on SW approaches of Cerro Teotepec, from small trib. Río Atoyac, 1070 m. D. Snyder, K. Adler, and D. Dennis, Dec. 20, 1969.

Hyla leali Bokermann = *Hyla rossalleni* Goin

Neotropica, 10(31), April 1, 1964, p. 3, figs. 1–3.

PARATOPOTYPE, 127312 (WCAB 10393). BRAZIL: RONDÔNIA: Forte Principe. Werner C. A. Bokermann, Nov., 1962.

Hyla loquax Gage and Stuart

Occ. Paps. Mus. Zool. Univ. Mich., (281), June 9, 1934, p. 1.

HOLOTYPE, 75446. GUATEMALA: EL PETÉN: Ixpuc Aguada, N La Libertad. L. C. Stuart, June 4, 1933.

PARATOPOTYPES, 75442, 75443 (= FMNH 100165), 75444, 75445 (= MCZ 21456), 75447–49, 75450 (= UIMNH 43483), 75451 (= MCZ 19754), 75452. Data as for holotype, except: L. C. Stuart

and C. L. Lundell (75442-45, 75447-52), June 1 (75442-44), 9 (75450), 10 (75451), and 12 (75452).

PARATYPES, 70403, 75441 (= USNM 94100). Data as for holotype, except: Uaxactun (70403), and Chicha Aguada, 3.2 km. SW La Libertad (75441). Josselyn Van Tyne, April 15, 1931 (70403), and April 28, (75441), 1933.

REMARKS.—Both L. C. Stuart and C. L. Lundell should probably be listed as collectors of the holotype because it came from the same series as the paratopotypes (75442-52) which the original publication attributed to them.

Hyla madeirae Bokermann = *Hyla fuscomarginata* A. Lutz

Neotropica, 10(31), April 1, 1964, p. 5, figs. 4-6.

PARATOPOTYPE, 127311, (WCAB 10786). BRAZIL: RONDÔNIA: Puerto Velho. Werner C. A. Bokermann, Nov., 1962.

Hyla marianae Dunn

Proc. Boston Soc. Nat. Hist., 38(4), July, 1926, p. 129, pl. 1, fig. 3, pl. 2, fig. 3.

PARATOPOTYPE, 107608 (MCZ 11276). JAMAICA: CLARENDON: Spaldings, 884 m. E. R. Dunn, Aug., 1925.

Hyla melanomma Taylor

Univ. Kans. Sci. Bull., 26(15), Oct. 1, 1939 (Nov. 15, 1940), p. 508, pl. 57.

PARATOPOTYPE, 114072 (UIMNH 27010). MÉXICO: GUERRERO: 11.3 km. E Chilpancingo (Ciudad Bravos), Chilapa Rd. E. H. Taylor, 1939.

Hyla microcephala sartori H. M. Smith = *Hyla sartori* H. M. Smith

Herpetologica, 7(4), Dec. 31, 1951, p. 186.

PARATYPE, 117250 (UIMNH 20939). MÉXICO: GUERRERO: El Limoncita, nr. La Venta. E. H. Taylor, July 1, 1938.

Hyla nana Boulenger—see *Hyla walfordi* Bokermann

Hyla nana sanborni K. P. Schmidt—see *Hyla sanborni* K. P. Schmidt

Hyla nubicola Duellman

Herpetologica, 19(4), Jan. 15, 1964, p. 225, figs. 1-2.

HOLOTYPE, 118160. MÉXICO: Veracruz: 3 km. SW Huatusco, 1325 m. W. Duellman, Jan. 27, 1958.

PARATOPOTYPE, 115516 (= KU 88031). Data as for holotype, except: A. S. Duellman, Feb. 26, 1956.

PARATYPES, 119211, 123117. Data as for holotype, except: 7 km. NE Huatusco, 1265 m. (119211), and Barranca Metlac, 2 km. W Fortín, 925 m. (123117). J. Wellman (119211), and W. E. Duellman and R. E. Etheridge (123117), Jan. 26 (123117) and July 17 (119211).

REMARKS.—The UMMZ catalogue lists W. E. Duellman and R. E. Etheridge as collectors of the holotype.

Hyla paramica Rivero = *Hyla platydactyla* Boulenger

Bull. Mus. Comp. Zool. Harvard, 126(1), Nov., 1961, p. 112.

HOLOTYPE, 59016. VENEZUELA: Escorial. W. F. H. Rosenberg.

Hyla parkeri Gaige = *Hyla fuscomarginata* A. Lutz

Occ. Paps. Mus. Zool. Univ. Mich., (207), Sept. 28, 1929, p. 1.

HOLOTYPE, 67460. BOLIVIA: SANTA CRUZ: Buenavista. José Steinbach.

PARATOPOTYPES, 67461 (100+, FMNH 27084-85; USNM 84359-60, 101440-41; MCZ 15566-70, 16467-72; NMB 5130; WCAB), 143466 (10 tadpoles). Data as for holotype.

PARATYPES, 67462 (5). BOLIVIA: SANTA CRUZ: Ixiamas. N. Pearson, Dec., 1921.

REMARKS.—The author mentioned 100 paratopotypes, however, the remaining 77 specimens (including the 10 tadpoles), plus the 20 exchanged, total only 97.

Hyla pearsoni Gaige = *Osteocephalus pearsoni* (Gaige)

Occ. Paps. Mus. Zool. Univ. Mich., (207), Sept. 28, 1929, p. 3.

HOLOTYPE, 57548. BOLIVIA: Upper Beni River, below mouth Mapiri River. N. E. Pearson, Sept., 1921.

PARATOPOTYPES, 67463 (= MCZ 15565), 67464-65. Data as for holotype.

PARATYPE, 57533. Data as for holotype, except: Rurrenabaque. Oct.

REMARKS.—The skull of 67465 has been removed and recatalogued 172892.

Hyla pentheter Adler

Occ. Paps. Mus. Zool. Univ. Mich., (642), Dec. 16, 1965, p. 5, fig. 2, pl. 1D-E.

HOLOTYPE, 125381. MÉXICO: OAXACA: ca. 37 km. N San Gabriel Mixtepec [ca. 100 km. by air SSW Oaxaca de Juárez], 1700 m. K. Adler, June 23, 1964.

PARATOPOTYPES, 125377-80. Data as for holotype.

REMARKS.—The UMMZ catalogue lists K. Adler, J. Brown and G. Musser as collectors for the entire type-series.

Hyla picadoi Dunn

Copeia, 1937(3), Nov. 19, 1937, p. 163.

PARATOPOTYPE, 70179. COSTA RICA: Volcán Barba, 2140 m. E. R. Dunn.

Hyla platydactyla Boulenger—see *Hyla jahni* Rivero and *Hyla paramica* Rivero

Hyla punctata (Schneider)—see *Hylella pearsei* Ruthven

Hyla pseudopuma infucata Duellman

Publ. Mus. Nat. Hist. Univ. Kans., 17(13), April 5, 1968, p. 564, fig. 1, pl. 17.

PARATOPOTYPES, 126811-12. PANAMÁ: BOCAS DEL TORO: Río Changuena, 830 m. William E. Duellman, May 22, 1966.

Hyla riveroi Cochran and Goin

Bull. U.S. Natl. Mus., 288, 1970, p. 284, fig. 29.

PARATOPOTYPES, 125428–29. COLOMBIA: AMAZONAS: Leticia. E. R. Allen and J. A. Layne, 1956.

Hyla rossalleni Goin—see *Hyla leali* Bokermann**Hyla sanborni** K. P. Schmidt = *Hyla nana sanborni* K. P. Schmidt

Field Mus. Nat. Hist. Zool. Ser., 29(9), March 15, 1944, p. 155, fig. 20.

PARATOPOTYPES, 80920 (FMNH 9569, 1 = MCZ 25535), 80921 (FMNH 9578). URUGUAY: ROCHA: Hacienda Alvarez, 15 km. NE San Carlos. K. P. Schmidt, Oct. 21, 1926.

PARATYPES, 80922 (FMNH 10341), 80923 (FMNH 10448). Data as for paratopotypes, except: 15 km. N San Vicente de Castillos (80922). TREINTA Y TRES: 8 km. E Treinta y Tres (80923). Colin C. Sanborn (80922–23), Nov. (80922) and Nov. 25–30 (80923).

Hyla sartori H. M. Smith—see *Hyla microcephala sartori* H. M. Smith**Hyla smaragdina** Taylor

Copeia, 1940(1), March 30, 1940, p. 18, fig. 1.

PARATOPOTYPE, 114073 (UIMNH 27000). MÉXICO: MICHOACÁN: 6 km. E Cojumatlán. E. H. Taylor, Sept. 9, 1938.

Hyla staufferi altae Dunn—see *Hyla altae* Dunn**Hyla thorectes** Adler

Occ. Paps. Mus. Zool. Univ. Mich., (642), Dec. 16, 1965, p. 10, figs. 3–4, pl. 1B–C.

HOLOTYPE, 125390. MÉXICO: OAXACA: ca. 37 km. N San Gabriel Mixtepec [ca. 100 km. by air SSW Oaxaca de Juárez], 1700 m. K. Adler, June 23, 1964.

PARATOPOTYPES, 125382–89. Data as for holotype.

REMARKS.—The UMMZ catalogue lists K. Adler, J. Brown and G. Musser as collectors.

Hyla tica Starrett

Bull. So. Calif. Acad. Sci., 65(1), Jan.–March, 1966, p. 23, figs. 4–6.

HOLOTYPE, 122482. COSTA RICA: CARTAGO: Volcán Turrialba, 1372 m. Andrew and Priscilla Starrett and Thomas Uzzell, Jr., July 25, 1957.

PARATOPOTYPES, 118474 (5, 1 missing). Data as for holotype.

PARATYPES, 118475–76. Data as for holotype, except: HEREDIA: San José de la Montaña, 1524 m., July 28 (118475). ALAJUELA: E slope Volcán Poás, 21.4 km. N Vara Blanca, 1372 m., Aug. 5 (118476).

REMARKS.—Starrett listed 118474 as consisting of only four paratypes, even though she gave the correct field series range for six, CD 7612–17. CD 7613 had been recatalogued as 122482, the holotype, and CD 7616, now missing, was cleared and stained.

Hyla tritaeniata Bokermann

Rev. Brasil. Biol., 25(3), Oct., 1965, p. 260, fig. 2.

PARATOPOTYPE, 128445 (WCAB 16266). BRAZIL: MATO GROSSO: São Vicente, Cuiaba. M. Alvarenga, F. M. Oliveira and Werner C. A. Bokermann, Nov. 28, 1963.

Hyla trux Adler and Dennis

Occ. Paps. Mus. Nat. Hist. Univ. Kansas, (7), March 15, 1972, p. 1, fig. 1, pl. 1.

PARATOPOTYPE, 130154. MÉXICO: GUERRERO: 11.4 km. by rd. SW Puerto del Gallo [ca. 35 km. by air NE Atoyac de Alvarez], 1985 m. K. Adler, D. M. Dennis and D. H. Snyder, Dec. 20, 1969.

PARATYPE, 130155. Data as for paratopotype, except: 12 km. SW Puerto del Gallo (11.5 km. by rd. NNE El Paraiso), 1760 m.

Hyla variabilis Boulenger

Ann. Mag. Nat. Hist., (6)17(97), Jan., 1896, p. 20.

SYNTYPES, 46464, 51269, 58908 (10). COLOMBIA: Cali, 975 m. W. F. H. Rosenberg.

Hyla walfordi Bokermann = *Hyla nana* Boulenger

Atas Soc. Biol. Rio de Janeiro, 6(5), 1962, p. 53.

PARATOPOTYPE, 128446 (WCAB 8439). BRAZIL: RONDÔNIA: Forte Principe da Beira. Werner C. A. Bokermann, July, 1962.

REMARKS.—The author listed the date of collection as Aug. 26, 1962.

Hyla walkeri Stuart

Proc. Biol. Soc. Wash., 67, Aug. 5, 1954, p. 165.

HOLOTYPE, 106817. GUATEMALA: JALAPA: Aserradero San Lorenzo (12 km. by air NNE Jalapa), 1725 m. L. C. Stuart, June 18, 1952.

PARATOPOTYPES, 106815–16, 106818–19. Data as for holotype.

Hyla wilderi Dunn

Occ. Paps. Boston Soc. Nat. Hist., 5, June 24, 1925, p. 161.

PARATOPOTYPE, 107609 (MCZ 10575). JAMAICA: SAINT ANN: Moneague, 366 m. Dr. and Mrs. H. H. Wilder, March, 1925.

Hyla wrightorum Taylor = *Hyla eximia* Baird

Univ. Kans. Sci. Bull., 25(19), June 1, 1938 (July 10, 1939), p. 436, pl. 48, fig. 1.

HOLOTYPE, 83074 (UMMZ 79141). UNITED STATES: ARIZONA: Apache; 17.7 km. S Springerville. I. J. Cantrall, Aug. 13, 1935.

PARATOPOTYPES, 79141 (2). Data as for holotype.

PARATYPES, 75734, 79142 (3), 79143 (5, 1 = USNM 118643, 2 = MCZ 25536). UNITED STATES: ARIZONA: Santa Cruz; 2.4 km. NW Miller's Peak, Huachuca Mtns. Berry Campbell, Aug. 16, 1933 (75734). NEW MEXICO: Catron; 41.8 km. N Luna, 2469 m. I. J. Cantrall, July 31, 1935 (79142). David Lee Lake, SW Luna, 2438 m. I. J. Cantrall, Aug. 6, 1935 (79143).

Hyla zeteki Gaige

Occ. Paps. Mus. Zool. Univ. Mich., (207), Sept. 28, 1929, p. 4.

HOLOTYPE, 63875. PANAMÁ: CHIRIQUÍ: Caldera Valley, above Boquete, 1189–1372 m. H. T. Gaige, Feb. 27, 1923.

PARATOPOTYPES, 63876–78, 63879 (4, 1 = USNM 118672), 63880, 63881 (4, 1 = MCZ 15571). Data as for holotype, except: March 3 (63881).

REMARKS.—Number 63880 is now cleared and stained.

Hylactophryne augusti fuscofemora (Zweifel)—see *Eleutherodactylus augusti fuscofemora* Zweifel**Hylella pearsei** Ruthven = *Hyla punctata* (Schneider)

Misc. Publs. Mus. Zool. Univ. Mich., (8), Sept. 15, 1922, p. 57.

HOLOTYPE, 54639. COLOMBIA: Santa Marta Mtns., Fundación. A. S. Pearse, Aug. 11, 1913.

Hylodes briceni Boulenger = *Eleutherodactylus briceni* (Boulenger)

Ann. Mag. Nat. Hist., (7)11(68), May, 1903, p. 481.

SYNTYPE, 46461. VENEZUELA: Mérida, 1600 m. S Briceño.

REMARKS.—UMMZ 51262 is catalogued as a “cotype” but is not likely to be part of the type-series because it was sent to the UMMZ by W. F. H. Rosenburg [sic] and, thus, it probably was not seen by Boulenger.

Hylodes magalhaesi (Bokermann)—see *Elosia magalhaesi* Bokermann**Hylodes ornatus** (Bokermann)—see *Elosia ornata* Bokermann**Hyloxalus panamansis** Dunn = *Colostethus inguinalis* (Cope)

Occ. Paps. Boston Soc. Nat. Hist., 8, June 7, 1933, p. 69.

PARATYPE, 90655 (MCZ 19214). PANAMÁ: PANAMÁ: El Valle de Antón. E. R. Dunn, Aug., 1933.

Hymenochirus boulengeri de Witte

Rev. Zool. Bot. Afr., 19, July 30, 1930, p. 240.

PARATYPE, 90648 (MCZ 14859 [orig. received from RGMC]). ZAIRE: Koteli. Schouteden, Jan., 1925.

REMARKS.—Barbour and Loveridge (1946) listed Bas Uele as the province and the locality as “Koteli, nr. Buta.” de Witte gave “Uele-Itimbiri, Uele-Nepoko” for the administrative division of the Koteli series. The province is Orientale.

Hyperolius cystocandicans Richards and Schiötz

Copeia, 1977(2), May 25, 1977, p. 285, figs. 1–8.

HOLOTYPE, 135194. KENYA: Tigoni, 2200 m. C. M. Richards, April 15, 1973.

PARATOPOTYPES, 135195–208, 135210 (3), 135211–12, 135213 (4). Data as for holotype, except: April 11 (135198–202) and 30 (135203–208), Feb. 1 (135210) and 11 (135211), and March 6 (135212) and 10 (135213).

PARATYPES, 135214 (3), 137245–51, 137252 (13), 137253 (108), 137254 (3), 137275, 137292 (30). Data as for holotype, except: Limuru Rd., nr. Carbacid (137254), 5 km. NE Limuru, 2300 m. (135214), and Brackenhurst Pond, Tigoni (137245–53, 137275, 137292). April 5 (137275), 6 (137245–51), 5–6 and 14 (137252), 6 and 14 (137253), 13 (137254), 20 (135214), and 25 (137292), 1975.

REMARKS.—Paratype 135214 was erroneously listed as 135194 by Richards and Schiotz. Also, 137292 is represented by 30, not 29 specimens as reported in the original publication.

Hyperolius milnei Loveridge = *Hyperolius pusillus* (Cope)

Bull. Mus. Comp. Zool. Harvard, 79(1), Feb., 1935, p. 18.

PARATOPOTYPES, 79903 (2, MCZ 20026–50, untagged duplicates).

KENYA: COAST: Witu. Arthur Loveridge, May 25, 1934.

Hyperolius pusillus (Cope)—see *Hyperolius milnei* Loveridge

Hypopachus aquae Stuart = *Hypopachus barberi* K. P. Schmidt

Proc. Biol. Soc. Wash., 65, Jan. 29, 1952, p. 7.

HOLOTYPE, 102282. GUATEMALA: SACATEPÉQUEZ: Finca San Rafael, outskirts Dueñas, ca. 1475 m. L. C. Stuart, July 21, 1949.

PARATOPOTYPES, 102283 (30, 3 missing, 1 = MN A-2780, 1 = MCZ 27799), 102284. Data as for holotype, except: July 20 (102284).

REMARKS.—Field notes indicate that 102282–83 were collected 1 km. NW “casa grande,” whereas 102284 was obtained 2 km. NW. Stuart erroneously referred to 34 paratypes.

Hypopachus barberi K. P. Schmidt—see *Hypopachus aquae* Stuart and *Hypopachus simus* Stuart

Hypopachus championi Stuart = *Hypopachus inguinalis* Cope

Proc. Biol. Soc. Wash., 53, Feb. 16, 1940, p. 19.

HOLOTYPE, 85533. GUATEMALA: BAJA VERAPAZ: ca. 1 km. S San Gerónimo. L. C. Stuart, July 6, 1938.

PARATOPOTYPES, 84079 (55, 7 missing, 3 = MCZ 25537–39, 1 = UIMNH 43484), 84080 (23), 84081 (40, 2 = MN A-2781), 84082 (35, 1 = CAS 84167, 2 = USNM 118667–68). Data as for holotype, except: July 8 (84080–82).

REMARKS.—Stuart erroneously listed 42 specimens for 84079, 41 for 84081, and 36 for 84082. I suspect the specimens exchanged to CAS and MN came from the 84079 series. The holotype was also most likely to have been recatalogued from 84079, although this can only be inferred from the field notes.

Hypopachus inguinalis Cope—see *Hypopachus championi* Stuart

Hypopachus ovis Taylor = *Hypopachus oxyrhinus* Boulenger

Univ. Kans. Sci. Bull., 26(15), Oct. 1, 1939 (Nov. 15, 1940), p. 520, pl. 63, fig. 5.

PARATOPOTYPE, 117251 (EHT-HMS 1068). MÉXICO: NAYARIT: Tepic. E. H. Taylor, July 31, 1934.

Hypopachus oxyrhinus Boulenger—see *Hypopachus ovis* Taylor

Hypopachus pearsei Ruthven = *Relictivomer pearsei* (Ruthven)

Proc. Biol. Soc. Wash., 27, May 11, 1914, p. 77.

HOLOTYPE, 45571. COLOMBIA: Fundación. Arthur Sperry Pearse, Aug. 13, 1913.

PARATOPOTYPES, 45566 (= MCZ 3727), 45567 (missing), 45568 (= MN A-2778), 45569-70, 45572 (= NMB 3918), 45573, 45574 (= USNM 51215), 45575 (2, 1 = MCZ 6075), 45608. Data as for holotype, except: A. G. Ruthven (45566-70, 45572-75, 45608), Aug. 9 (45566), 11, (45567-69), 15 (45572-74), and 19 (45575).

REMARKS.—There is an untagged specimen in the bottle containing the paratopotypes, which may be the missing 45567.

Hypopachus simus Stuart = *Hypopachus barberi* K. P. Schmidt

Proc. Biol. Soc. Wash., 54, Sept. 30, 1941, p. 125.

HOLOTYPE, 89095. GUATEMALA: EL QUICHÉ: Nebaj, ca. 1990 m. L. C. Stuart, July 11, 1940.

Kaloula borealis (Barbour)—see *Kaloula wolterstorffi* Stejneger

Kaloula wolterstorffi Stejneger = *Kaloula borealis* (Barbour)

J. Wash. Acad. Sci., 15(7), April 4, 1925, p. 151.

HOLOTYPE, 60310. CHINA: KIANGSU: Nanking. N. A. Wood, 1924.

Leptodactylus bokermanni Heyer = *Adenomera bokermanni* (Heyer)

Los Angeles Nat. Hist. Mus. Contr. Sci., (251), Nov. 9, 1973, p. 31, figs. 22-23.

HOLOTYPE, 104257. BRAZIL: PARANÁ: Paranagua, 30 m. J. R. Bailey, Feb. 18, 1941.

PARATYPES, 109990 (2). Data as for holotype, except: MINAS GERAIS: Belo Horizonte. May 2.

Leptodactylus curtus Barbour and Noble = *Leptodactylus labrosus* Espada

Bull. Mus. Comp. Zool. Harvard, 58(8), Jan., 1920, p. 405.

PARATOPOTYPE, 60264 (MCZ 5278). PERÚ: CAJAMARCA: Bellavista. G. K. Noble, 1916.

Leptodactylus labrosus Espada—see *Leptodactylus curtus* Barbour and Noble

Leptodactylus nanus Müller = *Adenomera marmorata* (Steindachner)

Blatter für Aquarien- und Terrarienkunde, 33(11), June 15, 1922, p. 168, figs. 4-6.

SYNTYPE, 58509. BRAZIL: Santa Catharina, Rio Humboldt. Karl Fritsche, 1919.

REMARKS.—Müller stated that his specimens were sent to him for identification by Karl Fritsche. Our specimen came from Fritsche, with a note that it was determined by Müller.

Leptodactylus pentadactylus mattogrossensis K. P. Schmidt and Inger

Fieldiana, Zool., 31(42), Feb. 23, 1951, p. 444.

PARATOPOTYPE, 120393 (FMNH 9185). BRAZIL: MATO GROSSO: Urucum de Corumba. K. P. Schmidt, Aug. 14, 1926.

Leptodactylus validus Garman = *Leptodactylus wagneri* (W. Peters)
Bull. Essex Inst., 19, 1887, p. 14.

SYNTYPES, 55761 (3, MCZ 2185). WEST INDIES: ST. VINCENT: Kingston. Samuel Garman.

Leptodactylus wagneri (W. Peters)—see *Leptodactylus validus* Garman

Limnodytes ulcerosus Boettger = *Mantidactylus ulcerosus* (Boettger)
Zool. Anz., 3(57), June 7, 1880, p. 282.

SYNTYPE, 60296 (MCZ 9335). MADAGASCAR: Nossi-be. A. Stumpf, 1883.

Limnomedusa misionis K. P. Schmidt

Field Mus. Nat. Hist. Zool. Ser., 29(9), March 15, 1944, p. 153.

PARATOPOTYPE, 120389 (FMNH 9409). ARGENTINA: MISIONES: Rio Paranay. Karl P. Schmidt, Sept. 16, 1926.

Lithodytes gaigei Dunn

Occ. Paps. Boston Soc. Nat. Hist. 5, Aug. 18, 1931, p. 387.

PARATYPE, 70169 (field no. 77). PANAMÁ: Barro Colorado Id., Shannon Trail. F. M. Gaige, March 7, 1926.

REMARKS.—Taylor (1952b) suggested the name be emended to *E. gaigeae* based upon speculation as to whom Dunn wished to honor.

Lithodytes podiciferus Cope = *Eleutherodactylus podiciferus* (Cope)

J. Acad. Nat. Sci. Philad., 8(2), 1876, p. 107, pl. 23, fig. 9.

SYNTYPE, 92433 (USNM 30664). COSTA RICA: Pico Blanco, 1524–2134 m. W. M. Gabb.

REMARKS.—The syntype corresponds to Cope's "variety A."

Litoria becki (Loveridge)—see *Hyla becki* Loveridge

Mantidactylus ulcerosus (Boettger)—see *Limnodytes ulcerosus* Boettger

Mertensophryne micranotis (Loveridge)—see *Bufo micranotis* Loveridge

Micrixalus diminutiva Taylor = *Ooeidozyga diminutiva* (Taylor)

Philippine J. Sci., 21(3), Sept., 1922, p. 267, pl. 1, figs. 3–4, pl. 2, figs. 2–3.

PARATYPE, 66695 (MCZ). REPUBLIC OF THE PHILIPPINES: Jolo or Zamboanga. E. H. Taylor, Aug. 11, 1920.

REMARKS.—Number 66695 was received from the MCZ as a paratype, and with the ambiguous locality data. Taylor mentioned only "several cotypes" (= paratypes, since a type was cited) from nr. Pasanaka, Zamboanga, Mindanao. He recognized that his Jolo specimens of the new species had lesser amounts of webbing between the outer toes. Determination of the type-status of 66695 will depend upon the extent of its webbing. According to R. F.

Inger (in litt.) this specimen cannot be identified with *O. diminutiva*.

Microbatrachylus oaxacae Taylor = *Eleutherodactylus mexicanus* (Brocchi)
Univ. Kans. Sci. Bull., 26(15), Oct. 1, 1939 [Nov. 15, 1940],
p. 504.

PARATOPOTYPE, 117253 (EHT-HMS 18203). MÉXICO: OAXACA:
Cerro San Felipe, nr. Oaxaca. E. H. Taylor, Aug. 18–22, 1938.

Microhyla eremita Barbour = *Microhyla ornata* (Duméril and Bibron)
Occ. Paps. Mus. Zool. Univ. Mich., (76), March 1, 1920, p. 3.

PARATYPE, 53103 (2, 1 missing). CHINA: Nanking. Cora D. Reeves,
Summer, 1918.

REMARKS.—Barbour's holotype (MCZ 5114) of *M. eremita* was received from the UMMZ, and he mentioned only one paratype (UMMZ 53103). Number 53103 consisted of two specimens, one now missing. The origin of the extra paratype (MCZ 5115) cited by Barbour and Loveridge (1929) is unclear. It seems likely that at least one of the MCZ specimens is the missing 53103. The original description gave the type-locality as "Nanking."

Microhyla ornata (Duméril and Bibron)—see *Microhyla eremita* Barbour

Ooeidozyga celebensis M. Smith

Proc. Zool. Soc. Lond., April, 1927, p. 204.

PARATOPOTYPES, 90646 (2, MCZ 13492, untagged duplicates). INDONESIA: SOUTH CELEBES: Dijikoro, Mt. Bonthain, ca. 1200 m.
Malcolm Smith, Jan. 15–Feb. 15, 1924.

REMARKS.—These specimens were received from the MCZ; however, their accompanying numbers (8613 and 8678) refer to collector's series (see Barbour and Loveridge, 1929: 310).

Ooeidozyga diminutiva (Taylor)—see *Micrixalus diminutiva* Taylor

Ooeidozyga semipalmata M. Smith

Proc. Zool. Soc. Lond., April, 1927, p. 203.

PARATOPOTYPE, 90647 (MCZ 13512, untagged duplicate). INDONESIA: SOUTH CELEBES: Lowah, 650 m. Malcolm Smith, Jan. 15–Feb. 15, 1924.

REMARKS.—The collector's number is 8770.

Oreolalax schmidti (Liu)—see *Scutigera schmidti* Liu

Osteocephalus pearsoni (Gaige)—see *Hyla pearsoni* Gaige

Paludicola pusilla Ruthven = *Pseudopaludicola pusilla* (Ruthven)

Occ. Paps. Mus. Zool. Univ. Mich., (30), Sept. 20, 1916, p. 1.

HOLOTYPE, 48305. COLOMBIA: Fundación. Alexander G. Ruthven,
Aug. 8, 1913.

PARATOPOTYPES, 48306–9. Data as for holotype, except: Aug. 10
(48308) and 16 (48307, 48309).

Peltophryne longinasa (Stejneger)—see *Bufo dunni* Barbour

Philautus hansenae Cochran = *Chirixalus hansenae* (Cochran)

Proc. Biol. Soc. Wash., 40, Dec. 2, 1927, p. 181.

PARATOPOTYPE, 92469 (USNM 70111). THAILAND: Nong Khor.
Hugh M. Smith.

Philautus nongkhorensis Cochran = *Chirixalus nongkhorensis* (Cochran)

Proc. Biol. Soc. Wash., 40, Dec. 2, 1927, p. 179.

PARATOPOTYPE, 92470 (USNM 70101). THAILAND: Nong Khor.
Hugh M. Smith.

Phrynobatrachus bequaerti (Barbour and Loveridge)—see *Arthroleptis bequaerti* Barbour and Loveridge

Phrynohyas ingens Duellman = *Phrynohyas venulosa* (Laurenti)

Misc. Publs. Mus. Zool. Univ. Mich., (96), Feb. 21, 1956, p. 22, fig. 10, pl. 2, fig. 2, map 1.

HOLOTYPE, 55570. VENEZUELA: ZULIA: La Fría, Pueblo Nuevo. H. B. Baker, April 20, 1920.

PARATOPOTYPES, 55567–69. Data as for holotype.

Phrynohyas venulosa (Laurenti)—see *Phrynohyas ingens* Duellman

Phrynopus peruvianus (Noble)—see *Sminthillus peruvianus* Noble

Phyllobates bromelicola Test = *Colostethus bromelicola* (Test)

Occ. Paps. Mus. Zool. Univ. Mich., (577), July 27, 1956, p. 6.

HOLOTYPE, 113027. VENEZUELA: ARAGUA: Pico Periquito, Rancho Grande, 1375 m. F. H. Test. Jan. 10, 1952.

PARATOPOTYPES, 113028–30. Data as for holotype, except: 1310 m. Sept. 25, 1951.

Phyllobates flotator Dunn = *Colostethus nubicola* (Dunn)

Occ. Paps. Boston Soc. Nat. Hist., 5, Aug. 18, 1931, p. 389.

PARATYPES, 90654 (2, MCZ 10262, untagged duplicates). PANAMÁ: La Loma. Dunn and Duryea, 1923.

Phyllobates nubicola Dunn = *Colostethus nubicola* (Dunn)

Occ. Paps. Mus. Zool. Univ. Mich., (151), July 1, 1924, p. 7, pl. 2, fig. 4a.

HOLOTYPE, 58292. PANAMÁ: CHIRIQUÍ: rain forest above Boquete on trail to Chiriquí Grande, 1372 m. F. M. Gaige, May 15, 1923.

PARATOPOTYPES, 90552 (8, 1 missing). Data as for holotype.

PARATYPES, 58286 (12, 1 missing, 1 = FMNH 109852, 2 = USNM 118674–75), 58289 (7), 58291 (5), 61090 (3 tadpoles, one missing). Data as for holotype, except: 1189 m. (58286), 1372–1676 m. (58289, 58291), and 1250 m. (61090). H. T. Gaige, Feb. 26 (61090) and March 10 (58286).

REMARKS.—Other than the holotype, Dunn listed only 58286 (11), 58289 and 58291 (a total of eight specimens), and five UMMZ specimens without reference to a catalogue number. Numerous discrepancies exist between Dunn's published account and the UMMZ

catalogue. Firstly, no altitudes are given in the catalogue and I presume Dunn obtained the more precise locations from the collectors or their notes. The 90552 series was recatalogued from 58292 (originally a set of nine specimens) after Dunn chose the holotype. He did not mention the paratopotypic material but it seems likely that he included it in his study. The five specimens cited by Dunn, but without reference to a UMMZ catalogue number, almost certainly refer to 90552. Four specimens, UMMZ 100025, recatalogued from UMMZ 58286, were not seen by Dunn as might be expected, and I do not consider them paratypes. His listing 11 specimens for 58286, and eight for 58289 and 58291 can be explained as his having seen only partial series.

Phyllobates trinitatis Garman = *Colostethus trinitatis* (Garman)

Bull. Essex Inst., 19, 1887, p. 13.

SYNTYPE, 47218 (MCZ 2181). TRINIDAD. S. Garman, 1879.

Phyllobates zaparo Silverstone = *Dendrobates zaparo* (Silverstone)

Bull. Nat. Hist. Mus. Los Angeles Co., 27, Nov. 25, 1976, p. 33, frontispiece 1, figs. 1C, 8D, 15.

PARATYPES, 90370, 129358. ECUADOR: NAPO: Río Pucuno, 300 m. W. Clarke-McIntyre, March 18, 1940 (90370). NAPO-PASTAZA: Alpayacu, small stream nr. Mera, 300 m. W. Clarke-McIntyre, March 17, 1940 (129358).

REMARKS.—A note with 129358 states that the elevation is questionable.

Phyllodytes tuberculatus Bokermann

An. Acad. Brasil. Cienc., 38(2), June 30, 1966, p. 339, figs. 2, 4–6, 11–12, 14, 16–17.

PARATOPOTYPE, 128448 (WCAB 31931). BRAZIL: BAHÍA: Maracas, 1350 m. F. M. Oliveira and Werner C. A. Bokermann, Nov., 1965.

Physalaemus centralis Bokermann

Rev. Brasil. Biol., 22(3), Sept., 1962, p. 216, figs. 1–5.

PARATOPOTYPES, 127314 (WCAB 8025), 127315 (WCAB 8115). BRAZIL: MATO GROSSO: Xingu, Rio Coluene. M. Alvarenga and Werner C. A. Bokermann, Nov. 5, 1961.

REMARKS.—The UMMZ catalogue record for 127314–15 lists Posto Coluene, Rio Xingu, as the place of collection, and Werner (sic) as the collector.

Physalaemus cicada Bokermann

Rev. Brasil. Biol., 26(3), Oct., 1966, p. 257, figs. 3, 8–9.

PARATOPOTYPE, 128449 (WCAB 32081). BRAZIL: BAHÍA: Fazenda Cana Brava, 10 km. E Maracas, 1350 m. F. M. Oliveira and Werner C. A. Bokermann, Nov., 1965.

Physalaemus jordanensis Bokermann

Rev. Brasil. Biol., 27(2), Aug., 1967, p. 135, figs. 1–2, 7.

PARATOPOTYPE, 128450 (WCAB 34340). BRAZIL: SÃO PAULO:

Lagoinha da Serra, Campos do Jordão, 1900 m. Jose Carlos Reis de Magalhaes, Carlos Leoncio de Magalhaes and Werner C. A. Bokermann, Jan. 8, 1966.

Physalaemus maculiventris (A. Lutz)—see *Eupemphix maculiventris* A. Lutz

Physalaemus obtectus Bokermann

Physis, 26(71), Sept., 1966, p. 197, figs. 4–6.

PARATOPOTYPE, 128451 (WCAB 20537). BRAZIL: ESPÍRITO SANTO: Refúgio Sooretama, Linhares. C. A. Campos Seabra, F. M. Oliveira, and Werner C. A. Bokermann, Nov., 1964.

Physalaemus pustulosus (Cope)—see *Eupemphix ruthveni* Netting

Pipa parva Ruthven and Gaige

Occ. Paps. Mus. Zool. Univ. Mich., (136), Feb. 10, 1923, p. 1.

HOLOTYPE, 57443. VENEZUELA: Sabana Mendoza. M. A. Carriker, Jr., May 5, 1922.

PARATOPOTYPES, 57444–45, 57446 (missing), 57447, 57448 (= MCZ 9012). Data as for holotype, except: April 28 (57448).

Plectrohyla avia Stuart

Proc. Biol. Soc. Wash., 65, Jan. 29, 1952, p. 6.

HOLOTYPE, 102280. GUATEMALA: QUEZALTENANGO: Granaja Lorena (ca. 10 km. by air NW Colomba), ca. 1750 m. L. C. Stuart, April 21, 1949.

Plectrohyla cotzicensis Stuart = *Plectrohyla glandulosa* (Boulenger)

Proc. Biol. Soc. Wash., 61, March 4, 1948, p. 17.

HOLOTYPE, 95902. GUATEMALA: SAN MARCOS: ca. 2 km. NW Ixchiguán, source of Río Cuilco, slopes Cerro Cotzic, ca. 3500 m. L. C. Stuart, April 23, 1947.

PARATOPOTYPES, 95903–905, 95906 (= FMNH 109854), 95907 (= MCZ 27800). Data as for holotype.

Plectrohyla glandulosa (Boulenger)—see *Plectrohyla cotzicensis* Stuart

Plectrohyla hartwegi Duellman

Publ. Mus. Nat. Hist. Univ. Kans., 17(13), April 5, 1968, p. 576, fig. 2, pl. 19.

HOLOTYPE, 94428. MÉXICO: CHIAPAS: Barrejonel (19 km. W Chicomuselo), 1000 m. Eizi Matuda, June 12, 1941.

Plectrohyla ixil Stuart

Occ. Paps. Mus. Zool. Univ. Mich., (455), Jan. 5, 1942, p. 4.

HOLOTYPE, 89092. GUATEMALA: EL QUICHÉ: Finca San Francisco (ca. 25 km. NE Nebaj), 1175 m. L. C. Stuart, July 31, 1940.

PARATOPOTYPES, 89093–94. Data as for holotype, except: Aug. 2 (89094).

Plectrohyla matudai Hartweg

Occ. Paps. Mus. Zool. Univ. Mich., (437), June 30, 1941, p. 5.

HOLOTYPE, 88863. MÉXICO: CHIAPAS: SOCONUSCO Distr., Mt. Ovando, 1800 m. Norman Hartweg, Aug. 28, 1937.

PARATYPES, 87869–70, 87875, 88864. Data as for holotype, except: 1775 m. (87869–70). Aug. 24 (87869–70) and Sept. 2 (87875).

Plectrohyla quecchi Stuart

Occ. Paps. Mus. Zool. Univ. Mich., (455), Jan. 25, 1942, p. 1.

HOLOTYPE, 89086. GUATEMALA: ALTA VERAPAZ: Barranca Las Palmas, ca. 2 km. N Finca Los Alpes (43 km. ESE Cobán [straight line]), ca. 1015 m. L. C. Stuart, Feb. 10, 1940.

Plectrohyla sagorum Hartweg

Occ. Paps. Mus. Zool. Univ. Mich., (437), June 30, 1941, p. 2, pl. 1, figs. 1–3.

HOLOTYPE, 88862. MÉXICO: CHIAPAS: SOCONUSCO Distr., Mt. Ovando, 1800 m. Norman Hartweg, Aug. 30, 1937.

PARATOPOTYPES, 87873 (3, 1 = MN A-2787). Data as for holotype.

PARATYPES, 87868, 87871 (= WCAB), 87872 (5, 2 missing), 87874 (7, 1 skeleton = UMMZ 153968, 1 = FMNH 109853, 1 = MCZ 24538, 1 = USNM 118659). Data as for holotype, except: 1775 m. (87868, 87871). Aug. 23 (87868), 24 (87871), 28 (87872), and 31 (87874).

REMARKS.—The holotype was recatalogued from the 87873 series. One of the two missing 87872 was not found, as expected, in the "B. and A. Lutz" collection, formerly housed in the Instituto Oswaldo Cruz, but now located in the Museo Nacional (A. Leitão de Carvalho, pers. comm.).

Polypedates owstoni Stejneger = *Rhacophorus schlegelii owstoni* (Stejneger)

Bull. U.S. Natl. Mus., 58, July 22, 1907, p. 149.

PARATOPOTYPE, 92486 (USNM 34331). JAPAN: RIU KIU ARCHIPELAGO: Yaeyama group, Ishigaki shima. Alan Owston, April–June, 1899.

Probreviceps macrodactylus loveridgei Parker

Ann. Mag. Nat. Hist., (10)8(45), Sept., 1931, p. 263.

PARATYPE, 90651 (MCZ 15706). TANZANIA: Uluguru Mtns., Vituri. Arthur Loveridge.

Prostherapis boulengeri Barbour—see *Dendrobates boulengeri* (Barbour) and *Prostheraspis femoralis* Barbour

Prostherapis neblina Test = *Colostethus neblina* (Test)

Occ. Paps. Mus. Zool. Univ. Mich., (577), July 27, 1956, p. 2.

HOLOTYPE, 113001. VENEZUELA: ARAGUA: Portachuelo Pass, Rancho Grande. F. H. Test, Dec. 14, 1951.

PARATOPOTYPES, 113002–3003, 113004 (= KU 154403), 113005–3020, 113021 (5, 1 unrecorded exchange), 113022 (3, 1 unrecorded exchange), 113023 (3), 113024–26. Data as for holotype, except: ca. 1036 m. (113002–3014), 0.8 km. below Pass, N side (113015–17,

113019, 113021–26), and Maracay Rd., ca. km. 21 (113020). Oct. 9 (113002–3004) and 11 (113005), Nov. (113010), 1 (113007), 3 (113006), 5 (113008), 7 (113009) and 22 (113011–14), and Dec. 7 (113018), 11 (113015–17, 113019), 15 (113020), 25 (113021), and 29 (113022), 1951, and Jan. 1 (113025), 2 (113023), 5 (113024), and 13 (113026), 1952.

Prostherapis femoralis Barbour = *Dendrobates boulengeri* (Barbour) and *Prostherapis boulengeri* Barbour

Bull. Mus. Comp. Zool. Harvard, 46(5), June, 1905, p. 101.

SYNTYPE, 48070 (MCZ 2422). COLOMBIA: Gorgona Id. W. W. Brown, June 19–July 2, 1904.

REMARKS.—Barbour's *P. femoralis* is preoccupied by *P. femoralis* Boulenger (1883) and the former was replaced with the name *boulengeri* Barbour (1909).

Pseudacris brimleyi Brandt and Walker

Occ. Paps. Mus. Zool. Univ. Mich., (272), Oct. 31, 1933, p. 2, pl. 1.

HOLOTYPE, 74361. UNITED STATES: NORTH CAROLINA: nr. Washington. George Ross and B. B. Brandt, March 29, 1933.

PARATOPOTYPE, 74362. Data as for holotype, except: B. B. Brandt, Feb. 25.

PARATYPES, 53300, 74363 (2). UNITED STATES: VIRGINIA: Dismal Swamp. F. Blanchard, July 14, 1918 (53300). GEORGIA: Bryan; along Ogeechee River. C. Walker, Feb. 28, 1933 (74363).

REMARKS.—March 24 is given in the UMMZ catalogue as the date of collection of the holotype.

Pseudacris streckeri illinoensis P. W. Smith

Bull. Chicago Acad. Sci., 9(10), Nov. 9, 1951, p. 190, fig. 1, pl. 1.

PARATYPES, 103088 (2). UNITED STATES: ILLINOIS: Cass; 4.8 km. E Beardstown. P. W. and D. M. Smith, March 6, 1951.

REMARKS.—The UMMZ catalogue for 103088 reads Chandlerville, D. A. Langbartel and P. W. Smith, March 29, 1951. The author (pers. comm.) can not explain this discrepancy, but believes the error is in the publication.

Pseudacris triseriata feriarum (Baird)—see *Helocaetes feriarum* Baird

Pseudis fusca Garman = *Pseudis paradoxus fuscus* Garman

Science Observer, 4, April 5, 1883, p. 47.

SYNTYPE, 55743 (MCZ). BRAZIL: Rio Arassuahy.

REMARKS.—Barbour and Loveridge (1929) gave Minas Geraes (= Minas Gerais) as the state, and George Sceva (Thayer Exped. 1864–65) as the collector.

Pseudis paradoxus fuscus Garman—see *Pseudis fusca* Garman

Pseudopaludicola boliviana Parker

Ann. Mag. Nat. Hist., (9)20(118), Oct., 1927, p. 455.

PARATYPES, 63967 (3). BOLIVIA: SANTA CRUZ: Buenavista. José Steinbach.

Pseudopaludicola pusilla (Ruthven)—see *Paludicola pusilla* Ruthven

Pseudophryne blanchardi Loveridge = *Pseudophryne semimarmorata* Lucas

Occ. Paps. Boston Soc. Nat. Hist., 8, Aug. 25, 1933, p. 91.

PARATOPOTYPES, 83365, 83367 (6, 1 = USNM 118771). AUSTRALIA: VICTORIA: Millgrove. F. N. Blanchard, April 1, 1928.

PARATYPES, 83368 (4), 83417. Data as for paratopotypes, except: Healesville (83368). March 23. TASMANIA: Port Arthur. Jan. 30 (83417).

REMARKS.—The paratypic-series was part of the Frank N. Blanchard collection purchased in 1938 by the UMMZ from his widow, Frieda Cobb Blanchard. Their paratype-status is assumed from Loveridge's statement that "twelve other examples with the same history as the type . . . are in the collection of Dr. F. N. Blanchard." Though five of the examples do not bear precisely the same data as the holotype, there are a total of 12. It is therefore assumed that Loveridge was unaware that three different localities were represented by Blanchard's series.

Pseudophryne semimarmorata Lucas—see *Pseudophryne blanchardi* Loveridge.

Ptychohyla ignicolor Duellman

Publ. Mus. Nat. Hist. Univ. Kansas, 13(8), April 27, 1961, p. 352, pl. 25, fig. 1.

HOLOTYPE, 119603. MÉXICO: OAXACA: 6 km. S Vista Hermosa, 1865 m. Thomas E. Moore, March 31, 1959.

PARATYPE, 119602. MÉXICO: OAXACA: Vista Hermosa. William E. Duellman, March 30, 1959.

Ptychohyla schmidtorum Stuart

Proc. Biol. Soc. Wash., 67, Aug. 5, 1954, p. 170.

PARATOPOTYPE, 80918. GUATEMALA: SAN MARCOS: Finca El Porvenir (17 km. by air W San Marcos). K. P. Schmidt, March 2, 1934.

PARATYPES, 105429–30. MÉXICO: CHIAPAS: Finca Irlanda. H. O. Wagner, April, 1950.

Rana areolata capito Le Conte—see *Rana capito stertens* Schwartz and Harrison

Rana areolata sevosa Goin and Netting—see *Rana sevosa* Goin and Netting

Rana blairi Mecham, Littlejohn, Oldham, L. Brown and J. Brown

Occ. Paps. Mus. Texas Tech. Univ., (18), Dec. 19, 1973, p. 3, figs. 1–3.

HOLOTYPE, 131690. UNITED STATES: TEXAS: Lubbock; 1.6 km. E New Deal. Charles Everett, Aug. 6, 1971.

PARATOPOTYPES, 131691–97. Data as for the holotype.

Rana brevipalmata rhoadsi Fowler = *Rana palmipes* Spix

Proc. Acad. Nat. Sci. Philad., April, 1913, p. 166, pl. 9.

PARATOPOTYPE, 52931 (ANSP 18082). ECUADOR: GUAYAS: Bucay. S. N. Rhoads, July, 1911.

Rana capito stertens Schwartz and Harrison = *Rana areolata capito* Le Conte

Proc. Biol. Soc. Wash., 69, Sept. 12, 1956, p. 136.

PARATOPOTYPES, 113415–16. UNITED STATES: SOUTH CAROLINA: Berkeley; 10 km. N Cainhoy. Julian R. Harrison, III, John A. Quinby, and Albert Schwartz, Sept. 4, 1955.

Rana chiricahuensis Platz and Mecham

Copeia, 1979(3), Aug. 1, 1979, p. 383, figs. 1–3.

PARATOPOTYPES, 150049–54, 150187–88. UNITED STATES: ARIZONA: Cochise; Herb Martyr Lake, 6 km. W Portal, Coronado Natl. Forest, 1768 m. J. E. Platz, Sept. 10, 1971.

REMARKS.—The UMMZ catalogue lists J. and A. Platz as the collectors.

Rana halecina sphenoccephala Cope = *Rana utricularia sphenoccephala* Cope

Am. Philos. Soc., 23, 1886, p. 517.

NEOTYPE, 56130. UNITED STATES: FLORIDA: Volusia; Enterprise. J. H. Williamson, April 16, 1921.

REMARKS.—Pace (1974) designated the neotype, however, she incorrectly cited the date (1889) and place of publication.

Rana johni A. P. Blair—see *Rana moorei* A. P. Blair

Rana moorei A. P. Blair = *Rana johni* A. P. Blair

Am. Mus. Novit., (1353), Aug. 18, 1947, p. 5, figs. 1–2, 5.

PARATOPOTYPES, 95353–55 (AMNH 52922–24). MÉXICO: SAN LUIS POTOSÍ: Arroyo Sacahuite at Palictla, 10 km. by rd. N Tamazunchale. A. P. Blair and J. A. Moore, Sept. 9 (95353–54), and A. P. Blair and C. M. Bogert, Sept. 2 (95355), 1946.

REMARKS.—*Rana moorei* A. P. Blair is preoccupied by *Rana moorei* (Taylor), and Blair (1965) proposed the substitute name *Rana johni* for his previously described species.

Rana palmipes Spix—see *Rana brevipalmata rhoadsi* Fowler

Rana pipiens Schreber

Der Naturforscher, 18, 1782, p. 185, pl. 4.

NEOTYPE, 71365, designated by Pace (1974). UNITED STATES: NEW YORK: Tompkins; Fall Creek, Etna. D. Ameel, Nov. 7, 1931.

Rana pretiosa Baird and Girard—see *Rana pretiosa luteiventris* H. B. Thompson

Rana pretiosa luteiventris H. B. Thompson = *Rana pretiosa* Baird and Girard

Proc. Biol. Soc. Wash., 26, March 22, 1913, p. 53, figs. 2–3.

HOLOTYPE, 43037. UNITED STATES: NEVADA: Elko; Anne Creek. Crystal Thompson, July 16, 1912.

PARATOPOTYPES, 42993-94, 42995 (= MCZ), 42997-99, 43000 (= CAS 54767), 43001 (= CAS 54765), 43005 (= CAS 54766), 43006, 43008-3009, 43010 (= MCZ 3898), 43012, 43014, 43018 (= MCZ 3899), 43019-20, 43022-23, 43030 (= MCZ 3900), 43034, 43036. Data as for holotype, except: Crystal and Helen B. Thompson (42997, 42999, 43008, 43020, 43022, 43036), July 15 (43009, 43034) and 18 (42995, 43001, 43005, 43010, 43012, 43014, 43018, 43030), and Helen B. Thompson (43000, 43019), July 12 (43006, 43023).

PARATYPES, 42991-92, 42996, 43002 (= MCZ 11064), 43003-3004, 43007, 43011, 43013, 43015-17, 43021, 43024-29, 43031-33, 43035. Data as for holotype, except: Maggie Canyon. Crystal and Helen Thompson, July 31 (42991, 42996 43002-3003, 43007, 43011, 43013, 43016, 43021, 43024-26, 43029, 43031-33, 43035). Helen B. Thompson, July 30 (43011, 43013, 43024-25 and 43029) and 31 (43035), and Aug. 3 (43026, 43003). A. G. Ruthven, July 20 (43031) and Aug. 1 (43007, 43021). Maggie Creek. Helen B. Thompson, July 11 (43017). Lower Maggie Creek. Helen B. Thompson, July 8 (43015), 11 (43027) and 12 (43028). Humbolt River Valley. Helen B. Thompson (42992) and Fred Gaige (43004), July 8.

REMARKS.—The type-locality is given as Lower Annie Creek in the UMMZ catalogue. Field notes further specify that the type-locality is in the vicinity of Carlin, where Annie Creek is crossed by the Southern Pacific Railroad. The author explicitly referred to all 47 paratypes in the original description as post-metamorphic individuals. The tadpole used in the original description (43073) is therefore not considered a paratype.

Rana pueblae Zweifel

Univ. Calif. Publ. Zool., 54(4), Dec. 6, 1955, p. 253, figs. 20-21, 23-24.

HOLOTYPE, 99474. MÉXICO: PUEBLA: 4.5 km. NE Huauchinango, Río Texcapa. Herndon Dowling, July 31, 1948.

PARATOPOTYPES, 99468, 99469 (= MVZ 60241), 99470-71, 99473 (= MVZ 60240), 99472 (4), 99475, 99476 (= UIMNH 39844). Data as for holotype.

REMARKS.—H. and P. Dowling are given as collectors in the UMMZ catalogue.

Rana sevoa Goin and Netting = *Rana areolata sevo*sa Goin and Netting
Ann. Carnegie Mus., 28(8), Dec. 11, 1940, p. 137, fig. 1, pl. 12, figs. 1-2.

PARATYPES, 71777 (2), 76921 (9, 1 = MCZ 24071). UNITED STATES: MISSISSIPPI: Jackson; Vestry. M. J. Allen, Oct. (71777), and Oct. 18 (76921), 1930.

Rana signata grandocula Taylor—see *Rana yakami* Taylor

Rana utricularia sphenoccephala Cope—see *Rana halecina sphenoccephala* Cope

Rana yakani Taylor = *Rana signata grandocula* Taylor
Philippine J. Sci., 21(3), Sept. 1922, p. 262, pl. 1, fig. 1, pl. 2, fig. 1.
PARATOPOTYPES, 65407 (3, MCZ 14266, untagged duplicates [E. H. Taylor]). REPUBLIC OF THE PHILIPPINES: BASILAN ID.: Abungabung. E. H. Taylor, Oct. 22, 1920.

Relictivomer pearsei (Ruthven)—see *Hypopachus pearsei* Ruthven

Rhacophorus schlegelii owstoni (Stejneger)—see *Polypedates owstoni* Stejneger

Rhampophryne acrolopha Trueb

Los Angeles Nat. Hist. Mus. Contr. Sci., (216), July 8, 1971, p. 18, figs. 3a, 4a, 5a, 6a, 10.

PARATOPOTYPES, 129694—95. PANAMÁ; DARIÉN: Cerro Malí, 1410 m. William E. Duellman, July 12, 1963.

Schoutedenella muta de Witte = *Arthroleptis muta* (de Witte)

Rev. Zool. Bot. Afr., 24(1), Nov. 30, 1933, p. 101.

PARATYPE, 90649 (MCZ 21809 [orig. received from RGMC]). ZAIRE: KATANGA: Kando, nr. Tenke. G. F. de Witte, March 31–April 5, 1931.

Scutiger schmidti Liu = *Oreolalax schmidti* (Liu)

Copeia, 1947(2), June 30, 1947, p. 123, fig. 1.

PARATOPOTYPE, 120390 (FMNH 49402). CHINA: SZECHWAN: Mt. Omei, 2377 m. C. C. Liu, July 6, 1945.

Sminthillus peruvianus Noble = *Phrynopus peruvianus* (Noble)

Am. Mus. Novit., (29), Dec. 30, 1921, p. 1, figs. 1-2.

PARATOPOTYPE, 56621 (AMNH 14529). PERÚ: nr. Juliaca. H. H. Keays.

Sphaenorhynchus bromelicola Bokermann

Rev. Brasil. Biol., 26(1), May, 1966, p. 18, figs. 2-6.

PARATOPOTYPES, 128443-44 (WCAB 30756-57). BRAZIL: BAHÍA: Fazenda Santo Onofre, 10 km. E Maracas. F. M. Oliveira, Sept., 1965.

Sphaenorhynchus surdus (Cochran)—see *Hyla aurantiaca surda* Cochran

Synapturanus mirandaribeiroi Nelson and Lescure

Herpetologica, 31(4), Dec., 1975, p. 394, figs. 5-6.

PARATOPOTYPE, 136147. GUYANA: RUPUNI: Kanashen (a Waiwai Indian villiage and mission) on Upper Essiquibo River. Craig E. Nelson and Gene A. Miller, July 17-30, 1968.

Synapturanus salseri Pyburn

Herpetologica, 31(4), Dec., 1975, p. 440, figs. 1-3.

PARATOPOTYPE, 134290. COLOMBIA: VAUPÉS: Timbo. J. K. Salser, Jr., and William F. Pyburn, March 16, 1974.

REMARKS.—The UMMZ catalogue does not list Pyburn as a collector.

Syncope antenori Walker

Occ. Paps. Mus. Nat. Hist. Univ. Kans., (20), Nov. 13, 1973, p. 3
figs. 1–2.

ALLOTYPE, 131699. ECUADOR: PASTAZA: 9 km. E Puyo. C. F. Walker, Aug. 7, 1962.

PARATYPE, 173666. Data as for allotype.

REMARKS.—Walker examined 13 specimens (p. 4), and he erroneously attributed two of them to 131699 (p. 6). Number 173666, a cleared and stained individual, was used to prepare the illustrations (figs. 1–2), and it was not catalogued at the time of original publication. Field notes accompanying 131699 and 173666 give the place of collection as Veracruz (hamlet 9 km. E Puyo), “CFW, Jorge Almeida and Pancho Urbano,” collectors.

Syrrhophus dennisii Lynch

Publ. Mus. Nat. Hist. Univ. Kans., 20(1), Feb. 20, 1970, p. 27,
fig. 1C., 12, 14.

HOLOTYPE, 101121. MÉXICO: TAMAULIPAS: cave nr. El Pachón,
8 km. N Antiguo Morelos. Paul S. Martin, March 13, 1949.

PARATOPOTYPES, 101122 (10), 101123 (2), 101126, 126993 (12). Data
as for holotype, except: P. S. Martin, C. R. Robins, and W. Heed,
May 19 (101123, 101126).

REMARKS.—C. R. Robins and Paul S. Martin are listed in the UMMZ
catalogue as collectors of the holotype.

Syrrhophus marnocki Cope—see *Syrrhophus gaigeae* K. P. Schmidt and
T. Smith**Syrrhophus modestus pallidus** Duellman = *Syrrhophus pallidus* Duellman

Occ. Paps. Mus. Zool. Univ. Mich., (594), June 6, 1958, p. 5, pl. 3,
map 1.

HOLOTYPE, 115452. MÉXICO: NAYARIT: San Blas, sea level. William
E. and Ann S. Duellman, Aug. 13, 1956.

PARATOPOTYPES, 115453–57. Data as for holotype.

REMARKS.—The UMMZ catalogue gives 3 m. as the elevation.

Syrrhophus pallidus Duellman—see *Syrrhophus modestus pallidus* Duellman**Syrrhophus teretistes** Duellman

Occ. Paps. Mus. Zool. Univ. Mich., (594), June 6, 1958, p. 10, pl. 2,
fig. 2, map 1.

HOLOTYPE, 115451. MÉXICO: NAYARIT: 4.8 km. NW Tepic,
ca. 899 m. William E. Duellman, Aug. 12, 1956.

Syrrhophus verrucipes Cope—see *Tomodactylus macrotympanum* Taylor**Syrrhophus caryophyllaceus** Barbour = *Eleutherodactylus caryophyllaceus*
(Barbour)

Proc. New England Zool. Club, 10, March 2, 1928, p. 28, pl. 2,
fig. 1.

PARATOPOTYPE, 107603 (2, MCZ 13048). PANAMÁ: BOCAS DEL TORO: La Loma on Chiriquicito-Boquete trail. E. R. Dunn and Chester Duryea, summer, 1925.

Syrrhopus gaigeae K. P. Schmidt and T. Smith = *Syrrhopus marnocki* Cope

Field Mus. Nat. Hist. Zool. Ser., 29(5), Feb. 23, 1944, p. 80.

PARATYPES, 66080, 66082, 66083 (= MCZ 27801), 66085–91. UNITED STATES: TEXAS: Brewster; Chisos Mtns., Juniper Canyon. Helen T. Gaige, July 8 (66080), 9 (66082–83), 15 (66085–88), and 20 (66089–91), 1928.

Syrrhopus juninensis Shreve = *Telmatobius juninensis* (Shreve)

J. Wash. Acad. Sci., 28(9), Sept. 15, 1938, p. 406.

PARATOPOTYPE, 90659 (MCZ 22856). PERÚ: JUNÍN: Cascas, nr. Huasahuasi. Warren F. Walker, Jr., Aug. 31, 1936.

REMARKS.—An MCZ label accompanying 90659 gives the year of collection as 1926, whereas Barbour and Loveridge (1946) gave 1937.

Taudactylus eungellensis Liem and Hosmer

Mem. Qd. Mus., 16(3), June 30, 1973, p. 445, figs. 1C, 2D, 3D, 8.

PARATYPES, 131072–73 (DSL 6058, 6073). AUSTRALIA: QUEENSLAND: Finch Hatton Gorge, 60 km. W Mackay. David S. Liem, May 19, 1972.

Taudactylus rheophilus Liem and Hosmer

Mem. Qd. Mus., 16(3), June 30, 1973, p. 450, figs. 1A, 2A, C and E, 3A and E, 4C, 5, pl. 29.

PARATOPOTYPE, 131077 (DSL 5973). AUSTRALIA: QUEENSLAND: Mt. Lewis, 1200 m. D. S. Liem, May 27, 1972.

Telmatobius culeus (Garman)—see *Cyclorhamphus culeus* Garman

Telmatobius jelskii (W. Peters)—see *Telmatobius walkeri* Shreve

Telmatobius juninensis (Shreve)—see *Syrrhopus juninensis* Shreve

Telmatobius marmoratus (Duméril and Bibron)—see *Telmatobius sanborni* K. P. Schmidt

Telmatobius rimac K. P. Schmidt

Fieldiana, Zool., 34(26), July 23, 1954, p. 278.

HOLOTYPE, 55596. PERÚ: Río Rimac, trib. Río Rimac, ca. 3048 m. C. H. Eigenmann and W. R. Allen, Sept. 18, 1918.

Telmatobius sanborni K. P. Schmidt = *Telmatobius marmoratus* (Duméril and Bibron)

Fieldiana, Zool., 34(26), July 23, 1954, p. 280, fig. 46.

PARATOPOTYPE, 120391 (FMNH 67436). PERÚ: Puno, Limbani, ca. 3962 m. Colin Campbell Sanborn, Sept. 26–Oct. 1, 1941.

Telmatobius walkeri Shreve = *Telmatobius jelskii* (W. Peters)

Proc. New England Zool. Club, 18, Sept. 13, 1941, p. 79.

PARATOPOTYPE, 90658 (MCZ 24379, untagged duplicate). PERÚ:

AYACUCHUO: Rapi, 108 km. E Ayacucho. Warren F. Walker, May, 1939.

Tomodactylus dilatatus Davis and Dixon

Herpetologica, 11(2), July 15, 1955, p. 155.

PARATYPES, 112255 (TCWC 10210), 112256 (TCWC 10211), and 112257 (TCWC 10212). MÉXICO: GUERRERO: 3.2 km. SW Omiltemi, 2408 m. (112255), and 6.4 km. W Mazatlán, 2499 m. (112256) and no elev. (112257). T. H. Hamilton (112255), K. L. Dixon (112256), and V. M. Hicks (112257), June 8 (112255), 18 (112256), and 19 (112257), 1953.

Tomodactylus grandis Dixon

Texas J. Sci., 9(4), Dec., 1957, p. 403, figs. 2, 5, map 1.

PARATYPES, 99533 (11, 1 = WCAB). MÉXICO: DISTRITO FEDERAL: 6.4 km. S Villa Alvaro Obregón, 2317 m. H. and P. Dowling, July 14, 1948.

Tomodactylus macrotympanum Taylor = *Syrrophus verrucipes* Cope

Univ. Kans. Sci. Bull., 26(15), Oct. 1, 1939 (Nov. 15, 1940), p. 496, pl. 55, fig. 2.

PARATOPOTYPE, 117252 (EHT-HMS 6827). MÉXICO: HIDALGO: La Placita, 8 km. S Jacala. Edward H. Taylor, July 2, 1936.

Tomodactylus nitidus orarius Dixon

Texas J. Sci., 9(4), Dec., 1957, p. 392, figs. 2, 3, map 1.

HOLOTYPE, 116922. MÉXICO: COLIMA: 7.2 km. SW Tecolapa, 137 m. William E. Duellman and Richard E. Etheridge, Aug. 9, 1956.

PARATOPOTYPES, 114311 (2). Data as for holotype.

PARATYPES, 104394 (2), 104396–97. MÉXICO: MICHOACÁN: 0.8 km. SW La Placita, 23 m. (104394) and no elev. (104397), and 1.6 km. N Póaro, 213 m. (104396). James A. Peters, July 4 (104397) and 7 (104394), and Aug. 11 (104396), 1950.

REMARKS.—The author listed 104394 from 23 m. elevation, whereas the UMMZ catalogue reads "sea level." Also, the paratypes 11165–66 are erroneously attributed to this Museum. Apparently, UMMZ 114312 (2) was overlooked by the author as a paratype, although the UMMZ catalogue lists it as part of the type-series.

Tomodactylus nitidus petersi Duellman—see *Tomodactylus petersi* Duellman

Tomodactylus petersi Duellman = *Tomodactylus nitidus petersi* Duellman

Occ. Paps. Mus. Zool. Univ. Mich., (560), Oct. 22, 1954, p. 5, pl. 2.

HOLOTYPE, 109238. MÉXICO: MICHOACÁN: 0.4 km. E Coalcomán. James A. Peters, July 30, 1950.

PARATOPOTYPES, 104395 (2, 1 = TCWC 11264). Data as for holotype.

PARATYPES, 104393 (3, 2 = TCWC 11262–63), 104394 (2), 104396, 104397, 104633. Data as for holotype, except: Hacienda de La Playa, ca. 793 m. (104393), 0.8 km. SW La Placita, sea level (104394), 1.6 km. N Póaro, 213 m. (104396), 0.8 km. E La Placita,

23 m. (104397), N slope Volcán Jorullo, ca. 914 m. (104633). June 19 (104393, 104633), July 4 (104397) and 7 (104394), and Aug. 11 (104396).

REMARKS.—Numbers 104394 and 104396–97 are also paratypes of *Tomodactylus nitidus orarius*.

Tomodactylus rufescens Duellman and Dixon

Texas J. Sci., 11(1), March, 1959, p. 78, fig. 1.

HOLOTYPE, 118509. MÉXICO: MICHOACÁN: Dos Aguas, 2103 m. William E. Duellman, Jerome B. Tulecke, and John Wellman, June 17, 1958.

PARATOPOTYPES, 118503–508. Data as for holotype.

REMARKS.—The UMMZ catalogue does not list John Wellman as one of the collectors of the type-series.

Tomodactylus syristes Hoyt

J. Ohio Herpet. Soc., 5(1), May 31, 1965 (June 4, 1965), p. 19, fig. 1.

HOLOTYPE, 124004. MÉXICO: OAXACA: 66.7 km. by rd. N Pochutla. Douglas Fraser, Robert Haas and Dale L. Hoyt, June 25, 1962.

PARATOPOTYPES, 125632–33. Data as for holotype.

PARATYPES, 124003, 125631. Data as for holotype, except: 62.5 km. by rd. N Pochutla. Douglas Fraser and Dale L. Hoyt, June 23 (124003, 125631).

Trachycephalus atlas Bokermann

Neotropica, 12(39), Dec. 1, 1966, p. 120, figs. 1–4.

PARATOPOTYPE, 128447 (WCAB 33946). BRAZIL: BAHÍA: Fazenda Santo Onofre, 10 km. E Maracas. F. M. Oliveira and Werner C. A. Bokermann, Nov., 1965.

Uperoleia russelli (Loveridge)—see *Glauertia russelli* Loveridge

Vibrissaphora liui Pope

Copeia, 1947(2), June 30, 1947, p. 110.

PARATOPOTYPE, 120392 (FMNH 24422). CHINA: FUKIEN: San Chiang region, Ch'ungan Hsien. Clifford H. Pope, 1925–1926.

Zachaenus sanctaecatharinae (Müller)—see *Craspedoglossa sanctaecatharinae* Müller

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