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HOLOTYPES OF RECENT MAMMALS IN TEXAS NATURAL HISTORY COLLECTIONS

DAVID J. SCHMIDLY AND J. KNOX JONES, JR.

Texas has a long history of significant research in systematic mammalogy. There are at least 30 collections of mammals in the state, 18 of which contain more than 1000 specimens (Choate and Genoways, 1975). The purpose of this report is to list the holotypes deposited in these collections. Publication of such lists has been encouraged by the International Council of Museums because they provided a useful point of reference for systematists (Jones and Genoways, 1969).

We located 45 holotypes of mammals in Texas natural history collections as of April 1983, all of which were housed in two institutions—the Texas Cooperative Wildlife Collections at Texas A&M University (hereafter designated TCWC), which has 39 holotypes, and The Museum of Texas Tech University (hereafter designated TTU), which has six holotypes. These specimens represent three insectivores, 25 bats, two edentates, 14 rodents, and one carnivore. As for geographic origin, there are 13 types from Texas, 13 from México, five from Perú, three each from Honduras and Guatemala, two each from El Salvador, Costa Rica, and the Caribbean island of Guadeloupe, and one each from Nicaragua and Ecuador.

Holotypes are listed below under the name by which they were originally described. Condition of specimen and current nomenclatorial status of taxa are mentioned where appropriate. Under each ordinal name, genera are listed in the order used by Honacki

et al. (1982), whereas species and subspecies are arranged alphabetically.

Insectivora

Blarina brevicauda plumbea Davis

J. Mamm., 22:317, 14 August 1941.

Holotype.—Adult female, skin and skull, TCWC 1541, from 0.5 mi. W Marino Mill, Aransas National Wildlife Refuge, Aransas County, Texas; obtained on 31 January 1941 by J. O. Stevenson, original no. X26.

Remarks.—Skin with slippage on belly and left flank. Arranged variously as *Blarina carolinensis plumbea* (Schmidly and Brown, 1979:47) or *Blarina hylophaga plumbea* (George *et al.*, 1981; George *et al.*, 1982).

Scalopus aquaticus cryptus Davis

Amer. Midland Nat., 27:384, March 1942.

Holotype.—Adult male, skin and skull, TCWC 1454, from College Station, Brazos County, Texas; obtained on 23 November 1939 by U. H. Williams, original no. 8.

Remarks.—Left zygomatic arch broken. The exact locality on the specimen tag is given as "Empty lot N. of Sergeant Jeegers, College Sta., Brazos Co." The collector was incorrectly listed as W. C. Parker by Yates and Schmidly (1977:30). See also comments under *S. a. nanus*.

Scalopus aquaticus nanus Davis

Amer. Midland Nat., 27:383, March 1942.

Holotype.—Adult female, skin and skull, TCWC 1785, from 13 mi. E Centerville, Leon County, Texas; obtained on 28 June 1938 by W. C. Parker, original no. 3135 of W. B. Davis.

Remarks.—Right and left upper third molars missing. Considered a synonoym of *Scalopus aquaticus cryptus* by Yates and Schmidly (1977:30). Hall (1981:74), however, recognized *nanus* as valid, with *cryptus* as a synonym, evidently on the basis of page priority, which is not required under the International Rules of Zoological Nomenclature. Reasons for selection of *cryptus* were given by Yates and Schmidly (1977:25).

Chiroptera

Mormoops megalophylla carteri Smith

Misc. Publ. Mus. Nat. Hist., Univ. Kansas, 56:119, 10 March 1972.

Holotype.—Adult male, skin and skull, TCWC 11643, from Gruta Rumichaca, 2 mi. E La Paz, 8700 ft., Carachí, Ecuador; obtained on 5 July 1964 by D. C. Carter, original no. 5142.

Pteronotus davyi incae Smith

Misc. Publ. Mus. Nat. Hist., Univ. Kansas, 56:102, 10 March 1972.

Holotype.—Adult male, skin and skull, TCWC 11638, from 4 mi. W Suyo, 1000 ft., Piura, Perú; obtained on 28 July 1964 by D. C. Carter, original no. 5333.

Remarks.—Left zygomatic arch broken. Collector's original number incorrectly reported as 5313 by Smith (1972).

Anoura brevirostrum Carter

Proc. Biol. Soc. Washington, 81:427, 30 December 1968.

Holotype.—Adult female, skin and skull, TCWC 11882, from 31 km. S Tingo María, 850 m., Huánuco, Perú; obtained on 25 August 1964 by D. C. Carter, original no. 5470.

Remarks.—Regarded as a synonym of *Anoura cultrata* by Nagorsen and Tamsitt (1981).

Artibeus aztecus minor Davis

Southwestern Nat., 14:22, 16 May 1969.

Holotype.—Adult male, skin and skull, TCWC 17507, from San Cristóbal Verapaz, 1380 m., Alta Verapaz, Guatemala; obtained on 28 March 1966 by D. C. Carter, original no. 6771.

Artibeus inopinatus Davis and Carter

Proc. Biol. Soc. Washington, 77:119, 26 June 1964.

Holotype.—Adult female, skin and skull, TCWC 9517, from Choluteca, 10 ft., Choluteca, Honduras; obtained on 1 August 1963 by J. V. Mankins, original no. 4576.

Artibeus jamaicensis paulus Davis

J. Mamm., 51:119, 20 February 1970.

Holotype.—Adult female, skin and skull, TCWC 21953, from 7½ km. WNW La Libertad, 150 m., La Libertad, El Salvador; obtained on 23 June 1967 by R. K. LaVal, original no. 1540.

Artibeus phaeotis palatinus Davis

Southwestern Nat., 14:400, 16 February 1970.

Holotype.—Adult male, skin and skull, TCWC 14392, from 15 km. SW Retalhuleu, 240 ft., Retalhuleu, Guatemala; obtained on 11 November 1965 by W. B. Davis, original no. 6902.

Artibeus toltecus hesperus Davis

Southwestern Nat., 14:25, 16 May 1969.

Holotype.—Adult male, skin and skull, TWC 6499, from Agua del Obispo, 3300 ft., Guerrero, México; obtained on 25 December 1958 by W. B. Davis, original no. 6027.

Chiroderma improvisum Baker and Genoways

Occas. Papers Mus., Texas Tech Univ., 39:1, 16 April 1976.

Holotype.—Adult male, skin and skull, TTU 19900, from 2 km. S and 2 km. E Baie-Mahault, Basse-Terre, Guadeloupe; obtained on 29 July 1974 by J. C. Patton, II, original no. 522, karyotype no. TK 8285.

Remarks.—Live cell lines are frozen in liquid nitrogen at The Museum, Texas Tech University. Baker and Genoways are listed as the collectors in the original description, but their names do not appear on the specimen label.

Glossophaga commissarisi hespera Webster and Jones

Occas. Papers Mus., Texas Tech Univ., 76:2, 29 January 1982.

Holotype.—Adult female, skin and skull, TTU 36223, from Tepehuajes Mine, *ca.* 20 km. N Soyatlán del Oro, Jalisco, México; obtained on 16 January 1964 by Ciro Gonzales-B., original no. 6864 of A. L. Gardner.

Remarks.—Right zygomatic arch broken. This specimen was originally catalogued as no. 4956 in University of Arizona collection. Gonzales-B. was not credited as collector of the holotype in the original description.

Glossophaga soricina alticola Davis

J. Mamm., 25:377, 12 December 1944.

Holotype.—Adult male, skin and skull, TCWC 2911, from 13 km. NE Tlaxcala, 7800 ft., Tlaxcala, México; obtained on 14 July 1942 by H. L. Gilbert, original no. 36.

Remarks.—Both zygomatic arches broken. Regarded as a synonym of *Glossophaga leachii* by Webster and Jones (1980:4).

Glossophaga soricina handleyi Webster and Jones

Occas. Papers Mus., Texas Tech Univ., 71:5, 7 November 1980.

Holotype.—Adult male, skin and skull, TTU 25893, from Colegio Peninsular, Mérida, Yucatán, México; obtained on 1 April 1975 by J. B. Bowles, original no. 2262.

Remarks.—Both zygomatic arches broken.

Rhinophylla fischerae Carter

Proc. Biol. Soc. Washington, 79:235, 1 December 1966.

Holotype.—Adult female, skin and skull, TCWC 12102, from 61 mi. SE Pucallpa, about 500 ft., Loreto, Perú; obtained on 15 August 1964 by D. C. Carter, prepared by R. W. Adams, original number 1221.

Remarks.—Both zygomatic arches broken.

Sturnira luisi Davis

Occas. Papers Mus., Texas Tech Univ., 70:1, 31 October 1980.

Holotype.—Adult male, skin and skull, TCWC 9959, from Cariblanco, 3000 ft., 18 mi. NE Naranjo, Alajuela, Costa Rica; obtained on 11 April 1963 by R. W. Adams, original no. 285.

Remarks.—Type locality incorrectly given as 11 mi. NE Naranjo and the date of collection as 12 April 1963 in the initial description.

Tonatia evotis Davis and Carter

Occas. Papers Mus., Texas Tech Univ., 53:8, 29 September 1978.

Holotype.—Adult female, skin and skull, TCWC 17142, from 25 km. SSW Puerto Barrios, 75 m., Izabal, Guatemala; obtained on 2 March 1966 by D. C. Carter, original no. 6576.

Tonatia silvicola centralis Davis and Carter

Occas. Papers. Mus., Texas Tech Univ., 53:7, 29 September 1978.

Holotype.—Adult female, skin, skull, and body skeleton, TCWC 18774, from El Castillo, 40 m., Río San Juan, Nicaragua; obtained on 15 May 1967 by D. C. Carter, original no. 7813.

Tonatia silvicola occidentalis Davis and Carter

Occas. Papers Mus., Texas Tech Univ., 53:6, 29 September 1978.

Holotype.—Adult female, skin and skull, TCWC 11704, from 4 mi. W Suyo, 1000 ft., Piura, Perú; obtained on 31 July 1964 by D. C. Carter, original no. 5357.

Uroderma bilobatum davisi Baker and McDaniel

Occas. Papers Mus., Texas Tech Univ., 7:1, 3 November 1972.

Holotype.—Adult female, skin, skull, and body skeleton, TTU 12664, from 3 mi. NW La Herradura, La Paz, El Salvador; obtained on 11 July 1971 by W. J. Bleier, original no. 455, karyotype no. TK 1258.

Remarks.—In the original description, the collector is listed as "R. J. Baker and party," but only Bleier's name is entered on the specimen label. Also, the presence of the body skeleton and the karyotype number were not noted. The elevation of the type locality was given as "about 20 meters."

Uroderma bilobatum molaris Davis

J. Mamm., 49:696, 26 November 1968.

Holotype.—Adult male, skin and skull, TCWC 16603, from 16 mi. NW Palenque, 100 ft., Chiapas, México; obtained on 20 February 1965 by D. C. Carter, original no. 5599.

Uroderma magnirostrum Davis

J. Mamm., 49:679, 26 November 1968.

Holotype.—Adult male, skin and skull, TCWC 17189, from 10 km. E San Lorenzo, 25 ft., Valle, Honduras; obtained on 19 November 1966 by W. B. Davis, original no. 7366.

Remarks.—Date of collection incorrectly reported as 18 November 1966 in the original description.

Vampyrops brachycephalus Rouk and Carter

Occas. Papers Mus., Texas Tech Univ. 1:1, 11 February 1972.

Holotype.—Adult male, skin and skull, TCWC 12193, from 3 mi. S Tingo María, 2400 ft., Huánuco, Perú; obtained on 28 August 1964 by D. C. Carter, original no. 5513.

Remarks.—According to Carter and Rouk (1973), *Vampyrops latus* and *V. l. saccharus* of Handley and Ferris (1972) are junior synonyms of *Vampyrops brachycephalus.*

Baeodon meyeri Pine

Southwestern Nat., 11:308, 31 December 1967.

Holotype.—Subadult female, skin and skull, TCWC 11232, from the Río Quezalapam, 2 mi. E Lago Catemaco, *ca.* 610 m., Los Tuxtlas, Veracruz, México; obtained on 3 July 1964 by J. R. Meyer, original no. 670.

Remarks.—This bat has had a confusing taxonomic and nomenclatorial history (Pine, 1967; White, 1969; Pine *et al.*, 1971). Most recently it has been arranged as a synonym of *Bauerus dubiaquercus* by Engstrom and Wilson (1981).

Eptesicus guadeloupensis Genoways and Baker

Occas. Papers Mus., Texas Tech Univ., 34:1, 18 July 1975.

Holotype.—Adult male, skin and skull, TTU 19902, from 2 km. S and 2 km. E Baie-Mahault, Basse-Terre, Guadeloupe; obtained on 29 July 1974 by J. W. Bickham, original no. 74M338, karyotype no. TK 8286.

Remarks.—Baker and Genoways are recorded as the collectors of this specimen in the original description, but this is not noted on the specimen label.

Eptescicus gaumeri carteri Davis

J. Mamm., 46:233, 20 May 1965.

Holotype.—Adult female, skin and skull, TCWC 10099, from Turrialba, 2600 ft., Cartago, Costa Rica; obtained on 21 March 1963 by D. C. Carter, original no. 4762.

Remarks.—Arranged as *Eptesicus furinalis carteri* by Davis (1966:265).

Nycticeius humeralis mexicanus Davis

J. Mamm., 25:380, 12 December 1944.

Holotype.—Adult female, skin and skull, TWCW 2801, from Río Ramos, 1000 ft., 20 km. NW Montemorelos, Nuevo León, México; obtained on 6 June 1942 by W. B. Davis, original no. 3921.

Edentata

Tamandua tetradactyla hesperia Davis

J. Mamm., 36:558, 14 December 1955.

Holotype.—Adult female, tanned (flat) skin and skull, TCWC 5322, from Acahuizotla, 2800 ft., Guerrero, México, obtained in April 1953 by J. Villanueva, original no. (if any) unknown.

Dasypus novemcinctus davisi Russell

Proc. Biol. Soc. Washington, 66:21, 30 March 1953.

Holotype.—Adult male, skin and skull, TCWC 4952, from Huitzilac, 8500 ft., Morelos, México; obtained on 3 August 1949 by W. B. Davis, original no. 4909.

Remarks.—Two upper left cheekteeth missing.

Rodentia

Geomys breviceps brazensis Davis

J. Mamm., 19:489, 14 November 1938.

Holotype.—Adult female, skin and skull, TCWC 537, from 5 mi. E Kurten, Grimes County, Texas; obtained on 20 February 1938 by W. B. Davis, original no. 2957.

Remarks.—Regarded as a synonym of *Geomys bursarius sagittalis* by Honeycutt and Schmidly (1979:43).

Geomys breviceps ludemani Davis

Bull. Texas Agric. Exp. Sta., 590:19, 23 October 1940.

Holotype.—Adult female, skin and skull, TCWC 1135, from 7 mi. SW Fannett, Jefferson County, Texas; obtained on 25 November 1939 by W. B. Davis, original no. 247 of B. E. Ludeman.

Remarks.—Regarded as a synonym of *Geomys bursarius sagittalis* by Honeycutt and Schmidly (1979:43). Although the publica-

tion date on the article containing this description was given as August 1940, it was not officially released for distribution until 23 October 1940 (W. B. Davis, personal communication).

Geomys breviceps pratincolus Davis

Bull. Texas Agric. Exp. Sta., 590:18, 23 October 1940.

Holotype.—Adult female, skin and skull, TCWC 1128, from 2 mi. E Liberty, Liberty County, Texas; obtained on 24 November 1939 by W. B. Davis, original no. 3419.

Remarks.—See account of *G. b. ludemani* for comments on the publication date of the description of this taxon, which was regarded as a synonym of *Geomys bursarius sagittalis* by Honeycutt and Schmidly (1979:43).

Geomys breviceps terricolus Davis

Bull. Texas Agric. Exp. Sta., 590:17, 23 October 1940.

Holotype.—Adult female, skin and skull, TCWC 624, from 1 mi. N Texas City, Galveston County, Texas; obtained on 16 January 1938 by W. B. Davis, original no. 2936.

Remarks.—See account of *G. b. ludemani* for comments on the publication date of the description of this taxon, which was arranged as a synonym of *Geomys bursarius sagittalis* by Honeycutt and Schmidly (1979:43).

Geomys lutescens major Davis

Bull. Texas Agric. Exp. Sta., 590:32, 23 October 1940.

Holotype.—Adult female, skin and skull, TCWC 819, from 8 mi. W Clarendon, Donley County, Texas; obtained on 29 December 1938 by P. V. Jones, original no. 35.

Remarks.—See account of *G. b. ludemani* for comments on the publication date of the description of this taxon, which now is regarded as *Geomys bursarius major* (Honeycutt and Schmidly, 1979:47). Right and left upper molars and right lower molars detached from skull.

Geomys bursarius knoxjonesi Baker and Genoways

Occas. Papers Mus., Texas Tech Univ., 29:1, 25 April 1975.

Holotype.—Adult female, skin, skull, and body skeleton, TTU 19872, from 4.1 mi. N and 5.1 mi. E Kermit, Winkler County, Texas; obtained on 27 January 1974 by S. L. Williams and E. F.

Pemberton, original no. 1303 of Williams, karyotype no. TK 5074.

Remarks.—Pemberton was not acknowledged as one of the collectors in the original description.

Geomys personatus maritimus Davis

Bull. Texas Agric. Exp. Sta., 590:26, 23 October 1940.

Holotype.—Adult female, skin and skull, TCWC 608, from Flour Bluff, 11 mi. SE Corpus Christi, Nueces County, Texas; obtained on 21 April 1938 by W. B. Davis, original no. 3059.

Remarks.—See account of *G. b. ludemani* for comments on the publication date of the description of this taxon. Right lower molars and last upper left molar detached from skull.

Geomys personatus megapotamus Davis

Bull. Texas Agric. Exp. Sta., 590:27, 23 October 1940.

Holotype.—Adult female, skin and skull, TCWC 794, from 4 mi. SE Oilton, Webb County, Texas; obtained on 25 November 1938 by W. B. Davis, original no. 3254.

Remarks.—See account of *G. b. ludemani* for comments on the publication date of the description of this taxon.

Geomys personatus minor Davis

Bull. Texas Agric. Exp. Sta., 590:29, 23 October 1940.

Holotype.—Adult female, skin and skull, TCWC 787, from Carrizo Springs, Dimmit County, Texas; obtained on 24 November 1938 by W. B. Davis, original no. 3239.

Remarks.—Renamed *Geomys personatus streckeri* by Davis (1943) because the name *G. p. minor* was preoccupied by *Geomys minor* Gidley, 1922 (Williams and Genoways, 1981). See account of *G. b. ludemani* for comments on the publication date of the description of this taxon.

Heterogeomys hondurensis Davis

Proc. Biol. Soc. Washington, 79:175, 15 August 1966.

Holotype.—Adult male, skin and skull, TCWC 12570, from 8 mi. W Tela, 10 ft., Atlantida, Honduras; obtained on 17 December 1964 by J. V. Mankins, original no. 4772.

Remarks.—Right upper and left lower molar missing. Arranged as *Orthogeomys hispidus hondurensis* by Hall (1981:511).

Baiomys musculus pallidus Russell

Proc. Biol. Soc. Washington, 65:21, 29 January 1952.

Holotype.—Adult female, skin and skull, TCWC 4501, from 12 km. NW Axochiapan, 3500 ft., Morelos, México; obtained on 28 July 1950 by W. B. Davis, original no. 5112.

Peromyscus leucopus brevicaudus Davis

Occas. Papers Mus. Zool., Louisiana St. Univ., 2:13, 1 February 1939.

Holotype.—Adult male, skin and skull, TCWC 101, from Huntsville, Walker County, Texas; obtained on 7 March 1936 by W. P. Taylor, original no. A 324.

Remarks.—Regarded as inseparable from *Peromyscus leucopus leucopus* by McCarley (1959) and St. Romain (1975).

Reithrodontomys fulvescens tropicalis Davis

J. Mamm., 24:393, 12 December 1944.

Holotype.—Adult male, skin and skull, TCWC 3084, from Boca del Río, 10 ft., 8 km. S Veracruz, Veracruz, México; obtained on 22 July 1942 by D. M. Donaldson, original no. 72.

Sigmodon hispidus obveatus Russell

Proc. Biol. Soc. Washington, 65:81, 25 April 1952.

Holotype.—Adult female, skin and skull, TCWC 4921, from 5 mi. S Alpuyeca, 3700 ft., Morelos, México; obtained on 16 August 1949 by W. T. Smith, original no. 38.

Remarks.—Right zygomatic process cracked.

Carnivora

Jentinkia sumichrasti latrans Davis and Lukens

J. Mamm., 39:353, 20 August 1958.

Holotype.—Adult female, tanned (flat) skin and skull, TCWC 5157, from 2 mi. W Omiltemi, 7900 ft., Guerrero, México; obtained on 12 June 1953 by G. W. Griffith, original no. 231.

Remarks.—Arranged as *Bassariscus s[umichrasti]. latrans* by Goodwin (1969:229).

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REVIEW OF THE LARGE FRUIT-EATING BATS OF THE ARTIBEUS "LITURATUS" COMPLEX (CHIROPTERA: PHYLLOSTOMIDAE) IN MIDDLE AMERICA

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The realization that two size-classes of *Artibeus "lituratus"* occur sympatrically at Santa Barbara, Honduras, prompted this study. At a site seven kilometers north of that town, a field party from the Department of Wildlife and Fisheries Sciences, Texas A&M University, collected 17 males and 24 females in the period from 25 March to 1 April 1969. Among adult females, 15 are large, with the greatest length of the skull (GLS) ranging from 30.7 to 32.0 millimeters (mm.), coupled with a forearm length (FA) varying from 66.5 to 73.7. Nine are small, with the GLS values ranging from 28.2 to 29.0; the FA values, from 62.4 to 68.2. Among adult males, eight are small, with the GLS values ranging from 28.3 to 30.8, coupled with FA values of 63.3 to 68.0. Nine are large, with GLS values varying from 31.0 to 32.0, coupled with FA values of 68.0 to 70.5. A similar situation was found in a sample of 32 individuals from the vicinity of Brus Laguna on the Caribbean coast of Honduras. Of 15 adult females, 11 are large, with GLS values ranging from 30.5 to 32.6, coupled with FA values varying from 67.5 to 74.5. Four are small, with GLS values varying from 29.0 to 30.5, coupled with FA values ranging from 64.3 to 67.8. Of 17 adult males, six are large, with GLS values varying from 31.0 to 32.1, coupled with FA values ranging from 69.4 to 74.0; 11 are small, with GLS values