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A CATALOGUE OF THE FISH, AMPHIBIAN, AND  
REPTILE TYPES IN THE BRIGHAM YOUNG UNIVERSITY  
MUSEUM OF NATURAL HISTORY

Wilmer W. Tanner<sup>1</sup>

Since 1950 there has been a substantial increase in the number of type specimens deposited in the Brigham Young University Vertebrate Collection. These have come not only from recent descriptions of new species and subspecies described from the materials available in the collection but also from outside acquisitions.

This collection was begun in 1925 under the direction of Dr. Vasco M. Tanner, who at that time came to the University as head of the Department of Zoology and Entomology. Although Dr. Tanner is basically an entomologist, he understood the need for research collections and was therefore the initiator and moving force which has resulted in the establishment of research collections in several disciplines of zoology and entomology at the University.

The collection consists mainly of materials from Utah and the adjoining states; however, much material is available from other parts of the United States, the Far East, South Pacific, Mexico,<sup>2</sup> Central America,<sup>2</sup> and Africa.<sup>2</sup>

The types are listed phylogenetically with the citation of the original description following each species name. Each holotype with the original museum and tag number is listed. Paratypes now in the BYU collection are listed; if they originally bear the number of another museum, it is also indicated. Paratypes described from BYU materials will be indicated only in terms of the tag number of such specimens now in the collection. New names proposed by Vasco M. Tanner will show his name as V. Tanner, whereas those proposed by Wilmer W. Tanner will not include an initial.

The following abbreviations are used:

- AMNH—American Museum of Natural History, New York City.  
BYU—Brigham Young University, Provo, Utah.  
CAS—California Academy of Sciences, San Francisco, California.  
CNHM—Chicago Natural History Museum, Chicago, Illinois.  
EHT-HMS—Edward H. Taylor and Hobart M. Smith Private Collection, University of Kansas and University of Illinois, respectively.  
KU—University of Kansas, Lawrence, Kansas.  
MMZ—Michigan Museum of Zoology, University of Michigan, Ann Arbor, Michigan.  
MVZ—Museum of Vertebrate Zoology, University of California, Berkeley.

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<sup>2</sup>Some of the Mexican material is in the private collection of W. W. Tanner. It is included here because it is tagged with BYU museum numbers and is intended to be deposited at BYU in the future.

RCT—Richard C. Taylor, private collection, University of Kansas (E. H. Taylor), Lawrence, Kansas.

SDBSNH—San Diego Society of Natural History, San Diego, California.

UIMNH—University of Illinois Museum of Natural History, Urbana, Illinois.

USNM—United States National Museum, Washington, D.C.

ORDER OSTARIOPHYSI  
SUBORDER CYPRINOIDEA  
Family Catostomidae

*Notolepidomyzon utahensis* V. Tanner, 1932. Copeia 1932(3):135-6.

HOLOTYPE: BYU 1135, Santa Clara Creek, Veyo, Washington County, Utah. V. M. Tanner, collector.

PARATYPES (9): BYU 1134, 1136, 1421, 2302, 2304, 2306, 2347-8, and 2349.

*Notolepidomyzon intermedius* V. Tanner, 1942. Great Basin Nat. 3(2):27-32.

HOLOTYPE: BYU 4252, White River, near the big spring between Lund and Preston, White Pine County, Nevada. G. L. Hendrix, collector.

Family Cyprinidae

*Gila jordani* V. Tanner, 1950. Great Basin Nat. 10(1-4):31-36.

HOLOTYPE: BYU 9959, Crystal Springs, Lincoln County, Nevada. V. M. Tanner, collector.

PARATYPES (5): BYU 8980-1, 9084, 9958, and 9960.

ORDER GYMNOPHIONA  
Family Ichthyophiidae

*Ichthyophis youngorum* Taylor, 1960. Univ. Kansas Sci. Bull. 40: 89-91, figs. 23-27.

HOLOTYPE: EHT-HMS No. 35946, type locality, Doi Suthep, Chiang Mai, Thailand. E. H. Taylor, collector.

PARATYPE: BYU 14637, orig. No. EHT-HMS 35935.

ORDER CAUDATA  
Family Plethodontidae

*Thorius pulmonaris* Taylor, 1940. Univ. Kansas Sci. Bull. 26:411-14.

HOLOTYPE: EHT-HMS 16684, type locality, Cerro San Felipe, about 12 km. N Oaxaca, Oaxaca, Mexico. E. H. Taylor, collector.

PARATYPE (1): BYU 13252, orig. No. EHT-HMS 16713, topotype.

*Bolitoglossa marmorea* Tanner and Brame, 1961. Great Basin Nat. 21(1 & 2): 23-26.

HOLOTYPE: BYU 17704, type locality, Crater of Volcan Baru, Chiriqui Province, Panama. V. J. Tipton, collector.

PARATYPES (11): BYU 17700-3 and 17705-11 topotypes.

- Pseudoeurycea smithi* (Taylor), 1939. Univ. Kansas Sci. Bull. 25: 269-72.  
HOLOTYPE: EHT-HMS 3966, type locality, Cerro de San Luis, 15 mi. NW Oaxaca, Oaxaca. E. H. Taylor, collector.  
PARATYPE (1): BYU 13251, orig. No. EHT-HMS 15637.
- Chiropterotriton arborea* (Taylor), 1941. Herpetologica 2(3):62-65.  
HOLOTYPE: EHT-HMS 16743, type locality, near Tianguistingo, Hidalgo, Mexico. E. H. Taylor, collector.  
PARATYPE: BYU 13253, orig. No. EHT-HMS 16751.
- Chiropterotriton bromeliacia* Schmidt, 1936. Zool. Series Field Mus. Nat. Hist. 20(17):161-3.  
HOLOTYPE: FMNH 21062, type locality, Volcan Tajumulco, at 8,000 ft. on trail above El Porvenir, San Marcos, Guatemala. K. P. Schmidt, collector.  
PARATYPES (2): BYU 15583-4, orig. No. FMNH 20697.
- Chiropterotriton abscondens* Taylor, 1948. Proc. Biol. Soc. Washington 61:177-80.  
HOLOTYPE: RCT 1414, type locality, Isla Bonita, 5,500 ft. Volcan Poas, Caribbean Drainage, Costa Rica. E. H. Taylor, collector.  
PARATYPE (1): BYU 11767, orig. No. RCT 1410.

## Family Bufonidae

- Bufo nayaritensis* Taylor, 1943. Univ. Kansas Sci. Bull. 29:349-351.  
HOLOTYPE: EHT-HMS 397, type locality, Tepic Nayarit, Mexico. E. H. Taylor, collector.  
PARATYPE (1): BYU 14638, orig. No. EHT-HMS 419.

## ORDER SQUAMATA

## SUBORDER SAURIA

## Family Sphaerodactylidae

- Sphaerodactylus decoratus granti* Thomas and Schwartz, 1966. Brigham Young Univ. Sci. Bull. 7(4):10-11.  
HOLOTYPE: BYU 17233, type locality, Banes Oriente Province, Cuba.  
PARATYPES (110): BYU 17192-232, 17234-268, 22889-920 and two untagged specimens now BYU 36413-14.
- Sphaerodactylus torrie spielmani* Grant, 1958. Herpetologica 14(4): 225-27.  
HOLOTYPE: UIMNH 44105, type locality, Guantanamo, Oriente Province, Cuba. Andrew Spielman, collector.  
PARATYPES (2): BYU 17165-6.

## Family Gekkonidae

- Coleonyx variegatus utahensis* Klauber, 1945. Trans. San Diego Soc. Nat. Hist. 10:171-176.  
HOLOTYPE: SDSNH 35792, type locality, Watercress Spring, St.

George, Washington County, Utah. Ross Hardy, collector.

PARATYPES (2): BYU 36411 and 36412, orig. No. Dixie Junior College 788 and 826.

*Phyllodactylus tuberculosus saxatilis* Dixon, 1964. New Mexico State Univ. Sci. Bull. 64-1:31-36.

HOLOTYPE: KU 67514, type locality, 8 mi. NE Villa Union, Sinaloa, Mexico. J. R. Dixon, collector.

PARATYPES (5): BYU 13910-14.

*Phyllodactylus muralis muralis* Taylor, 1940. Univ. Kansas Sci. Bull. 26:543-47.

HOLOTYPE: CNHM 100090, orig. No. EHT-HMS 10902, type locality, near Totolapan, Oaxaca, Mexico. H. M. Smith, collector.

PARATYPE (1): BYH 16551, orig. No. EHT-HMS 10925.

*Pseudogekko shebae* Brown and V. Tanner, 1948. Great Basin Nat. 9(3-4):41-5.

HOLOTYPE: BYU 7002, type locality, lower Lunga River area, Guadalcanal Island. D E. Beck, collector.

#### Family Iguanidae

*Brachylophus brevicephalus* Avery and Tanner, 1970. Great Basin Nat. 30(3):166-172.

HOLOTYPE: BYU 32662, type locality, Nukolofa, Tougatabu Island, Tongan Islands. Bert Nixon, collector.

PARATYPES (8): BYU 23743, 31094-6, 31102, 31955, 32661, and 32663.

*Crotaphytus collaris auriceps* Fitch and Tanner, 1951. Trans. Kansas Acad. Sci. 54:548-59.

HOLOTYPE: KU 29934, type locality, 3½ mi. NNE Dewey, West side of Colorado River, Grand County, Utah. H. S. Fitch, collector.

PARATYPES (10): BYU 476, 551, 1461, 1464-5, 1623, 1625-6, and 10338-9.

*Crotaphytus wislizeni punctatus* Tanner and Banta, 1963. Great Basin Nat. 23(3-4):129-148.

HOLOTYPE: BYU 20928, type locality, Yellow Cat District, approx. 10 mi. S, U. S. Highway 50-B, Grand County, Utah. W. W. Tanner, collector.

PARATYPES (107): BYU 114, 122, 482, 924-8, 8396-7, 9040-1, 11329-30, 11271, 11325, 11347-8, 11363, 11378-81, 11742, 12008, 12186, 12187, 12554, 12558, 12614-17, 12685, 12846, 12853, 12857, 12859-600, 12873, 14912, 14913, 14981, 16497, 16751, 16797-8, 20610, 20920-30, 20931, and 20934-9.

*Sauromalus obesus multiforaminatus* Tanner and Avery, 1964. Herpetologica 20(1):38-42.

HOLOTYPE: BYU 11376, type locality, North Wash., 11 mi. NW Hite, Garfield County, Utah. W. W. Tanner, collector.

PARATYPES (20): BYU 11734-5, 12710, 14879-87, 11259, 2858, 16615, 21507, and 29994.

*Uma paraphygas* Williams, Chrapliwy and Smith, 1959. Trans. Kansas Acad. Sci. 62(2):166-72.

HOLOTYPE: UIMNH 42889, type locality, sand dunes, 0.7 mi. E Carrillo, Chihuahua, Mexico. K. L. Williams and P. S. Chrapliwy, collectors.

PARATYPE (1): BYU 16550, orig. No. UIMNH 42888.

*Sceloporus merriami australis* Williams, Smith and Chrapliwy, 1960. Trans. Illinois State Acad. Sci. 53(1-2):36-45.

HOLOTYPE: UIMNH 43319, type locality, 15.6 mi. E Cuatro Crene-gas, Coahuila, Mexico. P. S. Chrapliwy and K. L. Williams, collectors.

PARATYPE (1): BYU 16552, orig. No. UIMNH 43318.

*Sceloporus spinosus apicalis* Smith and Smith, 1951. Proc. Biol. Soc. Washington 64:101-4.

HOLOTYPE: UIMNH 8864, type locality, 10 mi. SW Miahuallan, Oaxaca, Mexico. W. L. Burger, collector.

PARATYPE (1): BYU 16553, orig. No. UIMNH 8865.

*Sceloporus poinsetti macrolepis* Smith and Chrapliwy, 1958. Herpetologica 13(4):267-71.

HOLOTYPE: UIMNH 35455, type locality, El Salto, Durango. Barden and I. L. Firschein, collectors.

PARATYPES (5): BYU 13855-8 and 13860.

*Sceloporus clarki uriquensis* Tanner and Robison, 1959. Great Basin Nat. 19(4):75-9.

HOLOTYPE: BYU 14311, type locality, Urique, Chihuahua, Mexico. W. W. Tanner and W. G. Robison, collectors.

PARATYPES (2): BYU 14310 and 14312.

*Sceloporus nelsoni barrancorum* Tanner and Robison, 1959 (1960). Great Basin Nat. 19(4):79-82; also see Herpetologica 16:114.

HOLOTYPE: BYU 14316, type locality, Urique Chihuahua, Mexico. W. W. Tanner and W. G. Robison, collectors.

PARATYPES (8): BYU 14315, 14317-8, 14320, and 14322-5.

*Sceloporus magister cephaloflavus* Tanner, 1955. Great Basin Nat. 15(1-4):32-4.

HOLOTYPE: BYU 11270, type locality, approx. 15 mi. NW Hole-in-the-Rock, Kane County, Utah. D E. Beck, collector.

PARATYPES (84): BYU 115, 119, 123, 531, 901-5, 912-16, 929-37, 1780-1, 4183-4, 9769, 11263-4, 11392-8, 11390, 11399-400, 11903, 12007, 12445, 12620, 12680-3, 12712-4, 12845, 12885-6, 12947, 13151, 13153-66, 13174, 13143-4, 13067, 13167-72, 2126-7, 2134-5.

*Uta stansburiana uniformis* Pack and Tanner, 1970. Great Basin Nat. 30(2):71-90.

HOLOTYPE: BYU 10035, type locality, Split Mt., West side of Colorado River, Uintah County, Utah. W. W. Tanner, collector.

PARATYPES (24): BYU 5524-5, 5527, 5529, 8398, 10036-7, 13030-2, 20179, 21231-2, 21235, 21240-1, 21245, 22985-7, and 32328-31.

#### Family Helodermatidae

*Heloderma suspectum cinctum* Bogert and Martin Del Campo, 1956.

American Mus. Nat. Hist. 109(1):46-56.

HOLOTYPE: AMNH 7456, type locality, Las Vegas, Clark County, Nevada. W. H. Rogers, collector.

PARATYPES (2): BYU 10403-4.

#### Family Xantusidae

*Xantusia vigilis utahensis* Tanner, 1957. Herpetologica 13:5-11.

HOLOTYPE: BYU 11733, type locality, approx. 20 mi. NW Hite, North Wash, Garfield County, Utah. W. W. Tanner and W. L. Tanner, collectors.

PARATYPES (7): BYU 11731-32, 12644-7, and 13238.

#### Family Teiidae

*Cnemidophorus sacki neomexicana* Lowe and Zweifel, 1952. Bull. Chicago Acad. Sci. 9(13):229-47.

HOLOTYPE: MVZ 55897, type locality, McDonald Ranch Headquarters, 8.7 mi. W and 22.8 mi. S New Bingham Post Office, Socorro County, New Mexico. C. H. Lowe, Jr., collector.

PARATYPE (1): BYU 13250, orig. No. UIMNH 32561.

#### Family Scincidae

*Ernoia caernleocauda reimschiüsseli* V. Tanner, 1950. Great Basin Nat. 10(1-4):1-30.

HOLOTYPE: BYU 7416, type locality, near Pitu airfield, Morotai Island, South Pacific. E. F. Reimschiüssel, collector.

PARATYPES (93): BYU 7312, 7332-3, 7335-8, 7409-11, 7416-23, 7491-9, 7500-7, 7509-25, 7527, 7550-3, 7556, 7567-70, 7572-3, 7681-2, 7684, 7686-7, 7698-7711, 7725, and 7880.

According to the account in the original description 80 specimens were designated as paratypes. This figure should have been 93, as indicated above.

*Eumeces multilineatus* Tanner, 1957. Great Basin Nat. 17(3-4): 111-17.

HOLOTYPE: BYU 13798, type locality, 3 mi. N Colonia Chuhui-chupa, Chihuahua, Mexico. W. W. Tanner and W. G. Robison, collectors.

PARATYPE (1): BYU 11984.

*Eumeces skiltonianus utahensis* Tanner, 1957. Great Basin Nat. 17(3-4):59-72.

HOLOTYPE: BYU 6945, type locality, edge of Cedar Valley, approx. ½ mi. W of Chimney Rock, Utah County, Utah. W. W. Tanner, collector.

PARATYPES (67): BYU 536-7, 1795-6, 2099, 2217-39, 2292-3, 2780, 2849-50, 6946, 9067, 10402, 11969-70, 12651-9, and 13133-51.

SUBORDER SERPENTES

Family Typhlopidae

*Typhlops becki* V. Tanner, 1948. Great Basin Nat. 9(1-2):1-20.

HOLOTYPE: BYU 7448, type locality, Tenaru River, NE Guadalcanal, Solomon Islands. D E. Beck, collector.

Family Leptolyphlopidae

*Leptotyphlops humilis utahensis* V. Tanner, 1938. Proc. Utah Acad. Sci., Arts, and Letters 15:149-150.

HOLOTYPE: BYU 662, type locality, St. George, Washington County, Utah. V. M. Tanner and A. Paxman, collectors.

PARATYPES (5): BYU 88, 607, 1689, 1831, and 1842.

Family Colubridae

*Thamnophis melanogaster chihuahuensis* Tanner, 1959. Herpetologica 15:166-72.

HOLOTYPE: BYU 14197, type locality, Rio Bavispe below Tres Rios, near Sonora-Chihuahua line. W. W. Tanner and W. G. Robison, Jr., collectors.

PARATYPES (14): BYU 13371, 13373, 13451, 13493, 13496, 13505, 14198-02, and 14208-10.

*Thamnophis eques virgatenuis* Conant, 1963. Copeia 1963(3):473-99.

HOLOTYPE: AMNH 89792, type locality, 6 mi. W El Salto, Durango, Mexico. W. Auffenberg *et al.* collectors.

PARATYPES (34): BYU 13896-7, 13919-20, 14377-80, 14482, 14497-500, 15641-3, 15737-41, 17028-9, 17074-5, and 17087-90.

*Salvadora hexalepis mojavensis* Bogert, 1945. American Mus. Novitates 1285:1-14.

HOLOTYPE: AMNH 63000, type locality, Deadman Point, 11.5 mi. SE Victorville, S end Granite Mts., San Bernardino Co., California.

PARATYPES (3): BYU 1097, 1499, and 2880.

*Lampropeltis doliata taylori* Tanner and Loomis, 1957. Trans. Kansas Acad. Sci. 60(1):12-42.

HOLOTYPE: BYU 10533, type locality, 2 mi. N Alpine, Utah County, Utah. W. W. Tanner, collector.

PARATYPES (24): 163, 334, 336-7, 389, 398, 520, 1505, 2718, 2929-30, 2933, 6023, 8922-3, 11100-4, 11114, and 11116-7.

*Lampropeltis pyromelana woodini* Tanner, 1953. Great Basin Nat. 13(1-2):47-66.

HOLOTYPE: MMZ 69653, type locality, Carr Canyon, Huachuca



Mts., Cochise County, Arizona.

PARATYPE (1): BYU 11293.

*Lampropeltis pyromelana infralabialis* Tanner, 1953. Great Basin Nat. 13:47-66.

HOLOTYPE: BYU 10340, type locality, Mountains 5 mi. E Beaver, Beaver County, Utah. R. Liechty, collector.

PARATYPES (5): BYU 304, 322, 634, 8634, and 11289.

*Conopsis nasus labialis* Tanner, 1961. Herpetologica 17:13-18.

HOLOTYPE: BYU 16858, type locality, 25 mi. SE Creel, Chihuahua, Mexico. W. W. Tanner and W. G. Robison, Jr., collectors.

PARATYPES (13): BYU 14295-8, 16952, 16854-7, and 16859-62.

*Hypsiglena torquata nuchalata* Tanner, 1943. Great Basin Nat. 4(1-2):49-54.

HOLOTYPE: BYU 3008, type locality, Lemon Cave, Tulare County, California. Stanley A. Mulaik, collector.

*Hypsiglena torquata deserticola* Tanner, 1946 (1944). Great Basin Nat. 5(3-4):59-63.

HOLOTYPE: BYU 2836, type locality, 3.6 mi. W Chimney Rock Pass, Utah County, Utah. W. W. Tanner, collector.

PARATYPES (10): BYU 640, 2026-8, 2196, 2709, 3014, 3938, 7937, and 8014.

*Hypsiglena torquata loreala* Tanner, 1946 (1944). Great Basin Nat. 5(3-4):63-5.

HOLOTYPE: BYU 2829, type locality, West edge Castle Dale, Emery County, Utah. V. M. Tanner, collector.

PARATYPE (1): BYU 2192.

*Hypsiglena torquata catalinae* Tanner, 1966. Trans. San Diego Soc. Nat. Hist. 14(15):189-96.

HOLOTYPE: SDSNH 44680, type locality, Santa Catalina Island, Gulf of Calif., Baja Calif., Mexico. G. E. Lindsay, collector.

PARATYPE (1): BYU 23556, orig. No. UCM 25952.

*Tantilla phrenitica* Smith, 1942. Zoologica 27(7):33-42.

HOLOTYPE: USNM 110381, type locality, Cuautlapan, Veracruz, Mexico. E. H. Taylor, collector.

PARATYPE (1): BYU 13254, orig. No. EHT-HMS 23570.

*Tantilla planiceps utahensis* Blanchard, 1938. Field Mus. Nat. Hist. Zool. Ser. 20:372-3.

HOLOTYPE: CAS 55214, type locality, St. George, Washington County, Utah. V. M. Tanner, collector.

PARATYPES (5): BYU 310 (old Ser. 2274), 1240, 1518, 1553, and 1571.

*Crotalus lannomi* Tanner, 1966. Herpetologica 22(4):298-302.

HOLOTYPE: BYU 23800, type locality, 1.8 mi. W pass Puerto Los Mazos or 22 mi. W (by road) Rio Tuxcacuesco, Highway 80, Jalisco, Mexico. J. R. Lannom, Jr., collector.