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***Dyscophus* Grandidier, 1872**

Class: [Amphibia](#) > Order: [Anura](#) > Family: [Microhylidae](#) > Subfamily: [Dyscophinae](#) > Genus: *Dyscophus*
3 species

Dyscophus [Grandidier, 1872, Ann. Sci. Nat., Paris, Ser. 5, 15](#): 10. Type species: *Dyscophus insularis* Grandidier, 1872, by monotypy.

Discophus — [Guibé, 1978, Bonn. Zool. Monogr., 11](#): 92. Incorrect subsequent spelling.

English Names

Tomato Frogs ([Frank and Ramus, 1995, Compl. Guide Scient. Common Names Amph. Rept. World: 89](#)).

Distribution

Madagascar.

Comment

See [Guibé, 1978, Bonn. Zool. Monogr., 11: 92-95](#), [Blommers-Schlösser and Blanc, 1991, Faune de Madagascar, 75: 38-46](#), and [Glaw and Vences, 2007, Field Guide Amph. Rept. Madagascar, Ed. 3: 116-117](#), for accounts.

Contained taxa (3 sp.):

[Dyscophus antongilii Grandidier, 1877](#)

[Dyscophus guineti \(Grandidier, 1875\)](#)

[Dyscophus insularis Grandidier, 1872](#)

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Dyscophus antongilii Grandidier, 1877

Class: [Amphibia](#) > Order: [Anura](#) > Family: [Microhylidae](#) > Subfamily: [Dyscophinae](#) > Genus: [Dyscophus](#) > Species: *Dyscophus antongilii*

Dyscophus insularis var. *antongilii* [Grandidier, 1877, Bull. Soc. Philomath., Paris, Ser. 7, 1](#): 41. Holotype: MNHNP 1883.2, according to [Guibé, 1950 "1948", Cat. Types Amph. Mus. Natl. Hist. Nat.](#): 60. Type locality: "baie d'Antongil", Madagascar.

Dyscophus insularis var. *pallidus* [Grandidier, 1877, Bull. Soc. Philomath., Paris, Ser. 7, 1](#): 42. Holotype: MNHNP 1895.293, according to [Guibé, 1950 "1948", Cat. Types Amph. Mus. Natl. Hist. Nat.](#): 60. Type locality: "Andovoranto", Madagascar. Synonymy by [Mocquard, 1895, Bull. Soc. Philomath., Paris, Ser. 8, 7](#): 110.

Dyscophus sanguineus [Boettger, 1880, Zool. Anz., 3](#): 567. Syntypes: SMF (2 specimens); SMF 4280 designated lectotype by [Mertens, 1967, Senckenb. Biol., 48\(A\)](#): 49. Type locality: "Tohizona insulae Madagascar"; given as Foizana [Madagascar] by [Parker, 1934, Monogr. Frogs Fam. Microhylidae](#): 24. Synonymy by [Boulenger, 1882, Zool. Rec., 18](#): 14; [Boulenger, 1882, Cat. Batr. Sal. Coll. Brit. Mus., Ed. 2](#): 180.

Dyscophus antongilii — [Boulenger, 1882, Cat. Batr. Sal. Coll. Brit. Mus., Ed. 2](#): 180.

Dyscophus antongilii* var. *pallidus — [Mocquard, 1895, Bull. Soc. Philomath., Paris, Ser. 8, 7](#): 110.

Discophus antongilii — [Guibé, 1950 "1948", Cat. Types Amph. Mus. Natl. Hist. Nat.](#): 60.

Discophus antongili — [Guibé, 1978, Bonn. Zool. Monogr., 11](#): 93.

English Names

Tomato Frog ([Ananjeva, Borkin, Darevsky, and Orlov, 1988, Dict. Amph. Rept. Five Languages](#): 96; [Frank and Ramus, 1995, Compl. Guide Scient. Common Names Amph. Rept. World](#): 89).

Distribution

Northeastern Madagascar along the coast (Antongila Bay, Ambatovaky, Andivoranto, and near Andasibe), 0-600 m elevation.

Comment

See comment under *Dyscophus guineti*. See brief account by [Glaw and Vences, 2007, Field Guide Amph. Rept. Madagascar, Ed. 3](#): 116-117. See statement of geographic range, habitat, and conservation status in [Stuart, Hoffmann, Chanson, Cox, Berridge, Ramani, and Young, 2008, Threatened Amph. World](#): 626.

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***Dyscophus guineti* (Grandidier, 1875)**

Class: [Amphibia](#) > Order: [Anura](#) > Family: [Microhylidae](#) > Subfamily: [Dyscophinae](#) > Genus: [Dyscophus](#) > Species: *Dyscophus guineti*

Kalula guineti [Grandidier, 1875, Ann. Sci. Nat., Paris, Ser. 6, 2: 1.](#) Syntypes: MNHNP 1895.281-282, according to [Guibé, 1950 "1948", Cat. Types Amph. Mus. Natl. Hist. Nat.: 61.](#) Type locality: "Sambava, côté N.-E. de Madagascar".

Dyscophus guineti — [Günther, 1877, Ann. Mag. Nat. Hist., Ser. 4, 19: 317.](#) [Steindachner, 1882, Sitzungsber. Akad. Wiss. Wien, Phys. Math. Naturwiss. Kl., 85: 191.](#)

Plectropus guineti — [Knauer, 1878, Naturgesch. Lurche: 112.](#)

Discophus guineti — [Guibé, 1978, Bonn. Zool. Monogr., 11](#): 94.

English Names

Sambava Tomato Frog ([Frank and Ramus, 1995, Compl. Guide Scient. Common Names Amph. Rept. World](#): 89).

Distribution

Eastern Madagascar along slow-moving streams in primary forest.

Comment

[Grandidier, 1877, Bull. Soc. Philomath., Paris, Ser. 7, 1](#): 41, and [Boulenger, 1882, Cat. Batr. Sal. Coll. Brit. Mus., Ed. 2](#): 180, considered *Kalula guineti* Grandidier, 1875, to be synonymous with *Dyscophus insularis*. [Chiari, Orozco-terWengel, Vences, Vieites, Sarovy, Randrianirina, Meyer, and Louis, 2006, Conserv. Genetics, 7](#): 473-482, reported that mtDNA did not provide an adequate diagnosis of *Dyscophus guineti* from *Dyscophus antongilii*, although microsatellite data do. See brief account by [Glaw and Vences, 2007, Field Guide Amph. Rept. Madagascar, Ed. 3](#): 116-117.

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Dyscophus insularis Grandidier, 1872

Class: [Amphibia](#) > Order: [Anura](#) > Family: [Microhylidae](#) > Subfamily: [Dyscophinae](#) > Genus: [Dyscophus](#) > Species: *Dyscophus insularis*

Dyscophus insularis [Grandidier, 1872, Ann. Sci. Nat., Paris, Ser. 5, 15](#): 10. Holotype: MNHNP 1883.1, according to [Guibé, 1950 "1948", Cat. Types Amph. Mus. Natl. Hist. Nat.](#): 60. Type locality: "Antsouhy, près de Trabounzy", Madagascar.

Dyscophus grandieri [Boulenger, 1896, Ann. Mag. Nat. Hist., Ser. 6, 17](#): 404. Holotype: BMNH 1892.11.26.29, according to [Parker, 1934, Monogr. Frogs Fam. Microhylidae](#): 25, renumbered as BMNH 1947.2.31.6 according to [Blommers-Schlösser and Blanc, 1991, Faune de Madagascar, 75](#): 44). Type locality: "S.W. Madagascar". Placed in synonymy by [Guibé, 1978, Bonn. Zool. Monogr.](#), 11: 95; [Glaw and Vences, 1992, Fieldguide Amph. Rept. Madagascar](#): 276.

Dyscophus beloensis [Mocquard, 1902, Bull. Soc. Philomath., Paris, Ser. 9, 4](#): 23. Holotype: MNHNP 1899.415, according to [Guibé, 1950 "1948", Cat. Types Amph. Mus. Natl. Hist. Nat.](#): 60. Type locality: "environs de Belo", Madagascar. Placed in synonymy by [Guibé, 1978, Bonn. Zool. Monogr.](#), 11: 95; [Glaw and Vences, 1992, Fieldguide Amph. Rept. Madagascar](#): 276.

Phrynocara quinquelineatum [Boettger, 1913, in Voeltzkow \(ed.\), Reise Ost-Afr., 3\(4\)](#): 283. Syntypes: SMF 1182.1b; SMF 4287 designated lectotype by [Mertens, 1967, Senckenb. Biol.](#), 48(A): 50. Type locality: "West-Madagascar und Tsimanampetso auf der Westseite von Süd-Madagascar" and "Soalala, Mad[agascar]." Placed in synonymy by [Guibé, 1978, Bonn. Zool. Monogr.](#), 11: 95; [Glaw and Vences, 1992, Fieldguide Amph. Rept. Madagascar](#): 279.

Discophys quinquelineatus — [Noble and Parker, 1926, Am. Mus. Novit.](#), 232: 6.

Dyscophus quinquelineatus — [Parker, 1934, Monogr. Frogs Fam. Microhylidae](#): 26.

Discophus insularis — [Guibé, 1950 "1948", Cat. Types Amph. Mus. Natl. Hist. Nat.](#): 60. [Guibé, 1978, Bonn. Zool. Monogr.](#), 11: 95.

English Names

Antsouhy Tomato Frog ([Frank and Ramus, 1995, Compl. Guide Scient. Common Names Amph. Rept. World](#): 89).

Distribution

Western Madagascar in seasonally dry areas.

Comment

See [Vences, Glaw, and Fisher, 2002, Herpetol. Rev.](#), 33: 18-19, for discussion on distribution and natural history. See brief account by [Glaw and Vences, 2007, Field Guide Amph. Rept. Madagascar, Ed. 3](#): 116-117.

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***Scaphiophryne* Boulenger, 1882**

Class: [Amphibia](#) > Order: [Anura](#) > Family: [Microhylidae](#) > Subfamily: [Scaphiophryinae](#) > Genus: *Scaphiophryne*
9 species

Scaphiophryne [Boulenger, 1882, Cat. Batr. Sal. Coll. Brit. Mus., Ed. 2](#): 472. Type species: *Scaphiophryne marmorata* Boulenger, 1882, by monotypy.

Pseudohemisus [Mocquard, 1895, Bull. Soc. Philomath., Paris, Ser. 8, 7](#): 108. Type species: *Hemisus obscurus* Grandidier, 1872, by monotypy. Synonymy by [Blommers-Schlösser and Blanc, 1991, Faune de Madagascar, 75](#): 23, although having the type species as a nomen inquirenda makes this synonymy provisional (DRF).

English Names

Rain Frogs ([Frank and Ramus, 1995, Compl. Guide Scient. Common Names Amph. Rept. World: 114](#)).

Distribution

Madagascar.

Comment

[Blommers-Schlösser and Blanc, 1991, Faune de Madagascar, 75: 21-34](#), provided accounts for the species as understood at the time. [Grosjean, Glos, Teschke, Glaw, and Vences, 2007, Zool. J. Linn. Soc., 151: 555-576](#), recognized two phenotypic groups (subgenera *Scaphiophryne* and *Pseudohemisus*), although whether these groups are diagnosable in a phylogenetic sense is unclear at this time.

Contained taxa (9 sp.):

[Scaphiophryne boribory Vences, Raxworthy, Nussbaum, and Glaw, 2003](#)

[Scaphiophryne brevis \(Boulenger, 1896\)](#)

[Scaphiophryne calcarata \(Mocquard, 1895\)](#)

[Scaphiophryne gottlebei Busse and Böhme, 1992](#)

[Scaphiophryne madagascariensis \(Boulenger, 1882\)](#)

[Scaphiophryne marmorata Boulenger, 1882](#)

[Scaphiophryne matsoko Raselimanana, Raxworthy, Andreone, Glaw, and Vences, 2014](#)

[Scaphiophryne menabensis Glos, Glaw, and Vences, 2005](#)

[Scaphiophryne spinosa Steindachner, 1882](#)

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***Scaphiophryne boribory* Vences, Raxworthy, Nussbaum, and Glaw, 2003**

Class: [Amphibia](#) > Order: [Anura](#) > Family: [Microhylidae](#) > Subfamily: [Scaphiophryinae](#) > Genus: [Scaphiophryne](#) > Species: *Scaphiophryne boribory*

Scaphiophryne boribory [Vences, Raxworthy, Nussbaum, and Glaw, 2003, Herpetol. J., 13](#): 75. Holotype: UMMZ 225614, by original designation. Type locality: "Ampahanana forest, near Fierenana, 18° 29.53' S, 48° 26.68' E, 1000-1200 m altitude", Madagascar.

Scaphiophryne (Scaphiophryne) boribory — [Grosjean, Glos, Teschke, Glaw, and Vences, 2007, Zool. J. Linn. Soc., 151](#): 572.

English Names

None noted.

Distribution

Known only from the Fierenana region of central-eastern Madagascar, ca. 950 m elevation.

Comment

See brief account by [Glaw and Vences, 2007, Field Guide Amph. Rept. Madagascar, Ed. 3](#): 114. See photograph, map, description of geographic range and habitat, and conservation status in [Stuart, Hoffmann, Chanson, Cox, Berridge, Ramani, and Young, 2008, Threatened Amph. World](#): 460.

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***Scaphiophryne brevis* (Boulenger, 1896)**

Class: [Amphibia](#) > Order: [Anura](#) > Family: [Microhylidae](#) > Subfamily: [Scaphiophryinae](#) > Genus: [Scaphiophryne](#) > Species: [Scaphiophryne brevis](#)

Calophrynus brevis [Boulenger, 1896, Ann. Mag. Nat. Hist., Ser. 6, 17: 403](#). Holotype: BMNH 1947.2.7.42, according to [Blommers-Schlösser and Blanc, 1991, Faune de Madagascar, 75: 31](#). Type locality: "S.W. Madagascar".

Pseudohemisus brevis — [Noble and Parker, 1926, Am. Mus. Novit., 232: 19](#).

Scaphiophryne brevis — [Blommers-Schlösser and Blanc, 1991, Faune de Madagascar, 75: 30](#).

Scaphiophryne (Pseudohemisus) brevis — [Grosjean, Glos, Teschke, Glaw, and Vences, 2007, Zool. J. Linn. Soc., 151: 572.](#)

English Names

Brown Rain Frog ([Frank and Ramus, 1995, Compl. Guide Scient. Common Names Amph. Rept. World: 114](#)).

Distribution

Lowlands of southern and southwestern Madagascar.

Comment

Removed from synonymy of *Scaphiophryne calcarata* by [Blommers-Schlösser and Blanc, 1991, Faune de Madagascar, 75: 30](#), where it had been placed by [Guibé, 1978, Bonn. Zool. Monogr., 11: 107](#). See brief account by [Glaw and Vences, 2007, Field Guide Amph. Rept. Madagascar, Ed. 3: 110](#).

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***Scaphiophryne calcarata* (Mocquard, 1895)**

Class: [Amphibia](#) > Order: [Anura](#) > Family: [Microhylidae](#) > Subfamily: [Scaphiophryinae](#) > Genus: [Scaphiophryne](#) > Species: *Scaphiophryne calcarata*

Calophrynus calcaratus [Mocquard, 1895, Bull. Soc. Philomath., Paris, Ser. 8, 7: 108](#). Syntypes: MNHNP 1895.294 (4 specimens), according to [Guibé, 1950 "1948", Cat. Types Amph. Mus. Natl. Hist. Nat.: 47](#). Type locality: "Madagascar".

Pseudohemisus calcaratus — [Noble and Parker, 1926, Am. Mus. Novit., 232: 19](#).

Pseudohemisus longimanus [Angel, 1930, Bull. Mus. Natl. Hist. Nat. Paris, Ser. 2, 2: 72](#). Holotype: MNHNP 1929.236-237, according to [Guibé, 1950 "1948", Cat. Types Amph. Mus. Natl. Hist. Nat.: 47](#). Type locality: Ambongo [Madagascar].

Synonymy by [Blommers-Schlösser and Blanc, 1991, Faune de Madagascar, 75: 27](#).

Pseudohemisus longimanus var. melanopleura [Angel, 1934, Bull. Soc. Zool. France, 59: 171](#). Syntypes: MNHNP 1953.148-149 (2 specimens), by original designation and according to [Guibé, 1950 "1948", Cat. Types Amph. Mus. Natl. Hist. Nat.: 47](#). Type locality: "Antsingy, province du Manabé, alt. 300 mètres (Ouest de Madagascar)".

Pseudohemisus granulatus [Guibé, 1952, Mem. Inst. Sci. Madagascar, Ser. A, 7: 109](#). Holotype: MNHNP 1953.238, by original designation. Type locality: "Grotte d'Andranoboka", Bay Mahajamba, north of Majunga, western Madagascar. Synonymy by [Blommers-Schlösser and Blanc, 1991, Faune de Madagascar, 75: 27](#).

Scaphiophryne calcarata — [Blommers-Schlösser and Blanc, 1991, Faune de Madagascar, 75: 27](#).

Scaphiophryne (Pseudohemisus) calcarata — [Grosjean, Glos, Teschke, Glaw, and Vences, 2007, Zool. J. Linn. Soc., 151: 572](#).

English Names

Mocquard's Rain Frog ([Frank and Ramus, 1995, Compl. Guide Scient. Common Names Amph. Rept. World: 114](#)).

Distribution

Southern and western Madagascar.

Comment

See brief accounts by [Glaw and Vences, 2007, Field Guide Amph. Rept. Madagascar, Ed. 3: 110](#), who suggested that this nominal taxon contained several distinct species.

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***Scaphiophryne gottlebei* Busse and Böhme, 1992**

Class: [Amphibia](#) > Order: [Anura](#) > Family: [Microhylidae](#) > Subfamily: [Scaphiophryinae](#) > Genus: [Scaphiophryne](#) > Species: *Scaphiophryne gottlebei*

***Scaphiophryne gottlebei* Busse and Böhme, 1992, Rev. Fr. Aquar. Herpetol., 19: 60.** Holotype: ZFMK 53543, by original designation. Type locality: "Montagne de l'Isalo: Vallée des Singes, W-Madagascar".

***Scaphiophryne (Scaphiophryne) gottlebei* — [Grosjean, Glos, Teschke, Glaw, and Vences, 2007, Zool. J. Linn. Soc., 151: 572.](#)**

English Names

Red Rain Frog ([Frank and Ramus, 1995, Compl. Guide Scient. Common Names Amph. Rept. World](#): 114).

Distribution

Isalo Massif region often in deep canyons, Fianarantso Province, southern Madagascar, 700-1000 m elevation.

Comment

Reported as a tetraploid species by [Vences, Aprea, Capriglione, Andreone, and Odierna, 2002, Chromosome Res.](#), 10: 127-136. See brief account by [Glaw and Vences, 2007, Field Guide Amph. Rept. Madagascar, Ed. 3](#): 112. See photograph, map, description of geographic range and habitat, and conservation status in [Stuart, Hoffmann, Chanson, Cox, Berridge, Ramani, and Young, 2008, Threatened Amph. World](#): 461.

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***Scaphiophryne madagascariensis* (Boulenger, 1882)**

Class: [Amphibia](#) > Order: [Anura](#) > Family: [Microhylidae](#) > Subfamily: [Scaphiophryinae](#) > Genus: [Scaphiophryne](#) > Species: *Scaphiophryne madagascariensis*

Calophrynus madagascariensis [Boulenger, 1882, Cat. Batr. Sal. Coll. Brit. Mus., Ed. 2](#): 472. Holotype: BMNH, by original designation; BMNH 1947.2.7.41F according to [Blommers-Schlösser and Blanc, 1991, Faune de Madagascar, 75](#): 23. Type locality: "East Betsileo", Madagascar.

Pseudohemisus madagascariensis — [Noble and Parker, 1926, Am. Mus. Novit., 232](#): 19.

Pseudohemisus pustulosus [Angel and Guibé, 1945, Bull. Soc. Zool. France, 70](#): 153. Syntypes: MNHNP 1945.25-28,

according to [Guibé, 1950 "1948", Cat. Types Amph. Mus. Natl. Hist. Nat.:](#) 46. [Blommers-Schlösser and Blanc, 1991, Faune de Madagascar, 75:](#) 25, regarded MNHNP 1945.25 as holotype, a lectotype designation by implication. Type locality: Madagascar. Synonymy by [Vences, Aprea, Capriglione, Andreone, and Odierna, 2002, Chromosome Res., 10:](#) 128.

Scaphiophryne madagascariensis — [Blommers-Schlösser and Blanc, 1991, Faune de Madagascar, 75:](#) 23.

Scaphiophryne pustulosa — [Blommers-Schlösser and Blanc, 1991, Faune de Madagascar, 75:](#) 25.

Scaphiophryne (Scaphiophryne) madagascariensis — [Grosjean, Glos, Teschke, Glaw, and Vences, 2007, Zool. J. Linn. Soc., 151:](#) 572.

English Names

Madagascar Rain Frog (*Scaphiophryne madagascariensis*): [Frank and Ramus, 1995, Compl. Guide Scient. Common Names Amph. Rept. World:](#) 114).

Green Rain Frog (*Scaphiophryne pustulosa* [no longer recognized]): [Frank and Ramus, 1995, Compl. Guide Scient. Common Names Amph. Rept. World:](#) 114).

Distribution

High elevations both in forest and above the tree line on the eastern slopes of mountains in southern Madagascar; Ankaratra Mountains of central Madagascar, 1300-2000 m elevation.

Comment

See brief account by [Glaw and Vences, 2007, Field Guide Amph. Rept. Madagascar, Ed. 3:](#) 112. See statement of geographic range, habitat, and conservation status in [Stuart, Hoffmann, Chanson, Cox, Berridge, Ramani, and Young, 2008, Threatened Amph. World:](#) 627.

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***Scaphiophryne marmorata* Boulenger, 1882**

Class: [Amphibia](#) > Order: [Anura](#) > Family: [Microhylidae](#) > Subfamily: [Scaphiophryinae](#) > Genus: [Scaphiophryne](#) > Species: *Scaphiophryne marmorata*

Scaphiophryne marmorata [Boulenger, 1882, Cat. Batr. Sal. Coll. Brit. Mus., Ed. 2: 472](#). Holotype: BMNH, by original designation; BMNH 1947.2.30.81 according to [Blommers-Schlösser and Blanc, 1991, Faune de Madagascar, 75: 32](#). Type locality: "East Betsileo", Madagascar.

Scaphiophryne (Scaphiophryne) marmorata — [Grosjean, Glos, Teschke, Glaw, and Vences, 2007, Zool. J. Linn. Soc., 151: 572](#).

English Names

Marbled Rain Frog ([Frank and Ramus, 1995, Compl. Guide Scient. Common Names Amph. Rept. World](#): 114).

Distribution

Mid-altitude rainforest in central eastern Madagascar from Zahamena south to the Andasibe area, 100-1000 m elevation.

Comment

[Vences, Aperia, Capriglione, Andreone, and Odierna, 2002, Chromosome Res., 10](#): 127-136, reported an unnamed species, closely similar to *Scaphiophryne marmorata*, and removed *Scaphiophryne spinosa* from synonymy. [Vences, Raxworthy, Nussbaum, and Glaw, 2003, Herpetol. J., 13](#): 70-74, discussed the species and range. See brief account by [Glaw and Vences, 2007, Field Guide Amph. Rept. Madagascar, Ed. 3](#): 114. See photograph, map, description of geographic range and habitat, and conservation status in [Stuart, Hoffmann, Chanson, Cox, Berridge, Ramani, and Young, 2008, Threatened Amph. World](#): 461.

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***Scaphiophryne matsoko* Raselimanana, Raxworthy, Andreone, Glaw, and Vences, 2014**

Class: [Amphibia](#) > Order: [Anura](#) > Family: [Microhylidae](#) > Subfamily: [Scaphiophryinae](#) > Genus: [Scaphiophryne](#) > Species: *Scaphiophryne matsoko*

Scaphiophryne matsoko [Raselimanana, Raxworthy, Andreone, Glaw, and Vences, 2014, Vert. Zool., Dresden, 64](#): 96.
 Holotype: UADBA 29301, by original designation. Type locality: "Special Reserve of Marotondrano, Mandritsara Fivondronana, Mahajanga Province, Madagascar, – 16.285, 48.81500, 850 m above sea level".

Distribution

Known from (1) the type locality, Marotondrano Special Reserve; (2) Ambatovaky Special Reserve; (3) Ankarana River near Antalaha; (4) Tsararano; and (5) Besariaka, all at low to mid-altitudes (70–850 m elevation) in north-eastern Madagascar.

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***Scaphiophryne menabensis* Glos, Glaw, and Vences, 2005**

Class: [Amphibia](#) > Order: [Anura](#) > Family: [Microhylidae](#) > Subfamily: [Scaphiophryinae](#) > Genus: [Scaphiophryne](#) > Species: *Scaphiophryne menabensis*

Scaphiophryne menabensis [Glos, Glaw, and Vences, 2005, Copeia, 2005](#): 253. Holotype: ZSM 186.2003, by original designation. Type locality: "western Madagascar, province of Toliara, district of Morandava, in the Kirindy Forest C.F.P.F. (forest pond CS5), 44° 39' E, 20° 03' S, 18-40 m elevation".

Scaphiophryne (Scaphiophryne) menabensis — [Grosjean, Glos, Teschke, Glaw, and Vences, 2007, Zool. J. Linn. Soc., 151](#): 572.

English Names

None noted.

Distribution

Dry deciduous forest areas of west-central Madagascar

Comment

Confused with *Scaphiophryne marmorata* prior to its description according to the original publication. See brief account by [Glaw and Vences, 2007, Field Guide Amph. Rept. Madagascar, Ed. 3: 112.](#)

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***Scaphiophryne spinosa* Steindachner, 1882**

Class: [Amphibia](#) > Order: [Anura](#) > Family: [Microhylidae](#) > Subfamily: [Scaphiophryinae](#) > Genus: [Scaphiophryne](#) > Species: *Scaphiophryne spinosa*

Scaphiophryne spinosa [Steindachner, 1882, Sitzungsber. Akad. Wiss. Wien, Phys. Math. Naturwiss. Kl., 85](#): 189. Holotype: Originally NHMW, and likely NHMW 3919 according to [Vences, Raxworthy, Nussbaum, and Glaw, 2003, Herpetol. J., 13](#): 75. Type locality: "Foizana auf Madagascar".

Scaphiophryne (Scaphiophryne) spinosa — [Grosjean, Glos, Teschke, Glaw, and Vences, 2007, Zool. J. Linn. Soc., 151](#): 572.

English Names

None noted.

Distribution

Mid-altitude rainforest localities along the eastern coast of Madagascar.

Comment

Removed from the synonymy of *Scaphiophryne marmorata* by [Vences, Aperia, Capriglione, Andreone, and Odierna, 2002, Chromosome Res., 10](#): 128 (who considered it to be the sister taxon of *Scaphiophryne gottlebei* plus *Scaphiophryne calcarata*), where it had been placed by [Boulenger, 1883, Zool. Rec., 19](#): 21, and [Boulenger, 1883, Ann. Mag. Nat. Hist., Ser. 5, 11](#): 17. [Vences, Raxworthy, Nussbaum, and Glaw, 2003, Herpetol. J., 13](#): 74-75 mapped the distribution and discussed the species. See brief account by [Glaw and Vences, 2007, Field Guide Amph. Rept. Madagascar, Ed. 3](#): 114.

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***Telmatobius* Wiegmann, 1834**

Class: [Amphibia](#) > Order: [Anura](#) > Family: [Telmatobiidae](#) > Genus: *Telmatobius*
63 species

Telmatobius [Wiegmann, 1834, in Meyen \(ed.\), Reise in die Erde K. Preuss. Seehandl., 3\(Zool.\): 512](#). Subsequently also published by [Wiegmann, 1834, Nova Acta Phys. Med. Acad. Caesar Leopold Carol., Halle, 17: 262](#). Type species: *Telmatobius peruvianus* Wiegmann, 1834, by monotypy. See comment on date of publication.

Pseudobatrachus [Peters, 1873, Monatsber. Preuss. Akad. Wiss. Berlin, 1873: 414](#). Type species: *Pseudobatrachus jelskii* Peters, 1873, by monotypy. Synonymy by [Boulenger, 1882, Cat. Batr. Sal. Coll. Brit. Mus., Ed. 2: 191](#).

Batrachophrynus [Peters, 1873, Monatsber. Preuss. Akad. Wiss. Berlin, 1873](#): 411. Type species: *Batrachophrynus macrostomus* Peters, 1873, by subsequent designation of [Gorham, 1966, Das Tierreich, 85](#): 33. Synonymy by [Aguilar and Valencia, 2009, Rev. Peruana Biol., 16](#): 46.

Cophaeus [Cope, 1889, Bull. U.S. Natl. Mus., 34](#): 312. Replacement name for *Telmatobius*—Boulenger, 1882.

Lynchophrys [Laurent, 1983, Acta Zool. Lilloana, 37](#): 111. Type species: *Batrachophrynus brachydactylus* Peters, 1873, by original designation. Synonymy by implication of [Sinsch and Juraske, 1995, Alytes, 13](#): 52-66; formal synonymy with *Batrachophrynus* by [Sinsch, Salas, and Canales, 1995, Alytes, 13](#): 38. Synonymy with *Telmatobius* by [Aguilar and Pacheco, 2005, in Lavilla and De la Riva \(eds.\), Monogr. Herpetol., 7](#): 234; by implication.

Nomina inquirenda - Name(s) unassigned to a living or extinct population

Telmatobius laevis [Philippi, 1902, Supl. Batr. Chil. Descr. Hist. Fis. Polit. Chile](#): 43. Syntypes: MNHNC (2 specimens) according to the original publication; one of these now FMNH 9978 (on exchange from MNHNC according to [Schmidt, 1928, Rev. Chilena Hist. Nat., 32](#): 103). Type locality: "Potrero", Chile. [Cei, 1962, Batr. Chile](#): 63, noted that the type locality had not been located with certainty. [Cuevas, 2013, Herpetol. J., 23](#): 145-152, provides illustrations of the syntypes, designated MNHNC 9978 lectotype, and discussed the likelihood that the type locality is Potrero Grand to the west of the city of Santiago, Chile. He noted that the second of the original syntypes is a member of *Alsodes nodosus*. Although he argued that the lectotype is a *Telmatobius*, he did not resolve the assignment of this name to any naturally occurring population. Potrero Spiny-chest Frog ([Frank and Ramus, 1995, Compl. Guide Scient. Common Names Amph. Rept. World](#): 70).

English Names

Water Frogs ([Frank and Ramus, 1995, Compl. Guide Scient. Common Names Amph. Rept. World](#): 84).

Andes Smooth Frogs (*Batrachophrynus* [no longer recognized]: [Frank and Ramus, 1995, Compl. Guide Scient. Common Names Amph. Rept. World](#): 70).

Distribution

Andean South America, Ecuador to Chile and Argentina.

Comment

[de Macedo, 1960, Z. Wiss. Zool., Leipzig, 163](#): 355-396, summarized the known subspecies. [Cei, 1980, Monit. Zool. Ital., N.S., Monogr., 2](#): 234-272, reviewed the Argentinian species and discussed the taxonomic problems. Chilean species reviewed by [Velo, Sallaberry-Ayerza, Navarro, Iturra-Constant, Valencia, Penna, and Diaz, 1982, in Veloso and Bustos \(eds.\), El Ambiente Nat. y Los Pobl. Humanas de los Andes](#): 133-194. [Lavilla and Laurent, 1989 "1988", Alytes, 7](#): 90-96, provide a preliminary key to the species of Catamarca Province, Argentina. [Wiens, 1993, Occas. Pap. Mus. Nat. Hist. Univ. Kansas, 162](#): 1-76, reviewed the species of northern Peru, provided a key to this region, discussed the lack of evidence of monophyly of the genus, and discussed possible relationships with other genera. The name *Telmatobius* was published twice: first in 1834 ([Wiegmann, 1834, in Meyen \(ed.\), Reise in die Erde K. Preuss. Seehandl., 3\(Zool.\)](#)), and then in early 1835 ([Wiegmann, 1834, Nova Acta Phys. Med. Acad. Caesar Leopold Carol., Halle, 17](#): 185-268). For additional discussion see [Lavilla, 1997, Cuad. Herpetol., 11](#): 75-80, [Anonymous, 1910, Cat. Books Mss Maps Brit. Mus., Vol. 3](#), and [Bauer and Adler, 2001, Arch. Nat. Hist., London, 28](#): 313-326. [Vellard, 1992, in Dejoux and Iltis \(eds.\), Lake Titicaca](#): 449-457, summarized his view of the systematics of the *Telmatobius marmoratus* and *Telmatobius culeus* group in the vicinity of Lake Titicaca. But, see [Benavides, 2005, in Lavilla and De la Riva \(eds.\), Monogr. Herpetol., 7](#): 167-185, for a discussion of systematics of Lake Titicaca *Telmatobius*. [Formas, Benavides, and Cuevas, 2003, Herpetologica, 59](#): 253-270, provided a key to the species of Chile and noted that the diagnosis of *Telmatobius* is questionable and the taxon may be paraphyletic. [Aguilar and Pacheco, 2005, Assoc. Herpetol. Esp., Monogr. Herpetol., 7](#): 219-228, discussed phylogeny of *Telmatobius* on the basis of buccopharyngeal characters of the larvae and assuming a close relationship of *Telmatobius* to *Batrachophrynus*. [Lehr, 2005, in Lavilla and De la Riva \(eds.\), Monogr. Herpetol., 7](#): 39-64, discussed the species of Peru. [De la Riva, 2005, in Lavilla and De la Riva \(eds.\), Monogr. Herpetol., 7](#): 65-102, discussed the species of Bolivia. [Formas, Veloso, and Ortiz, 2005, in Lavilla and De la Riva \(eds.\), Monogr. Herpetol., 7](#): 103-114, discussed the species of Chile. [Lavilla and Barrionuevo, 2005, in Lavilla and De la Riva \(eds.\), Monogr. Herpetol., 7](#): 115-165, discussed the species of Argentina. [Formas, Cuevas, and Nuñez, 2006, Herpetologica, 62](#): 180, discussed the monophyly of the group as well as characters supporting this. [Vera Candioti, 2008, Zootaxa, 1938](#): 40-60, compared larval morphology of species in northwestern Argentina. [Barrionuevo and Baldo, 2009, Zootaxa, 2030](#): 1-20, commented on the comparative morphology and color patterns of Argentinian species. Prior to the revision of [Frost, Grant, Faivovich, Bain, Haas, Haddad, de Sá, Channing, Wilkinson, Donnellan, Raxworthy, Campbell, Blotto, Moler, Drewes, Nussbaum, Lynch, Green, and Wheeler, 2006, Bull. Am. Mus. Nat. Hist., 297](#), nominal *Batrachophrynus* was placed in the tribe Telmatobiini of [Lynch, 1971, Misc. Publ. Mus. Nat. Hist. Univ. Kansas, 53](#): 113, but transferred to Calyptocephalellinae by [Burton, 1998, Am. Mus. Novit., 3229](#): 1-13 (who apparently did not realize that the oldest name for this inclusive taxon is *Batrachophrynidae*). [Sinsch and Juraske, 1995, Alytes, 13](#): 52-66, suggested the monophyly of this genus (including *Telmatobius brachydactylus*) with respect to *Telmatobius*, but did not address a possible relationship to calyptocephalellines. [Aguilar and Pacheco, 2005, in Lavilla and De la Riva \(eds.\), Monogr. Herpetol., 7](#): 219-238, suggested that *Batrachophrynus* is the sister taxon of *Telmatobius*, including former *Batrachophrynus brachydactylus*, which they suggested should be transferred into *Telmatobius*. See comment under Calyptocephalellidae and *Telmatobius carrillae*. [Córdova and Descailleaux, 2005, in Lavilla and De la](#)

[Riva \(eds.\), Monogr. Herpetol., 7](#): 187-217, provided karyotypic evidence in support of *Batrachophrynus* being polyphyletic and imbedded within *Telmatobius*. [Aguilar and Valencia, 2009, Rev. Peruana Biol., 16](#): 43-50, provided a phylogenetic analysis of morphology and concluded that *Batrachophrynus* was imbedded within *Telmatobius* and placed *Batrachophrynus* in the synonymy of *Telmatobius*. [De la Riva, García-París, and Parra-Olea, 2010, Syst. Biodiversity, 8](#): 49-61, reported on mtDNA relationships among the species found in Bolivia and suggested a biogeography for these species. [Sinsch and Lehr, 2010, J. Herpetol., 44](#): 495-505, discussed some aspects of the evidence for the synonymy of *Batrachophrynus* with *Telmatobius*. [Pyron and Wiens, 2011, Mol. Phylogenet. Evol., 61](#): 543-583, in their study of Genbank sequences, provided a tree of exemplar species although not bearing on the issue of *Batrachophrynus*. [Aguilar, Catenazzi, Venegas, and Siu-Ting, 2012, Phyllomedusa, 11](#): 37-49, discussed the morphological synapomorphies of the genus. [Sáez, Fibla, Correa-Quezada, Sallaberry-Ayerza, Salinas, Veloso, Mella, Iturra-Constant, and Méndez, 2014, Zool. J. Linn. Soc., 171](#): 769-782, provided a mtDNA tree of populations in Chile and adjacent Bolivia and delimited a new species group, *Telmatobius zapahuirensis* group which includes *Telmatobius chusmisensis*, *Telmatobius vilmaensis*, *Telmatobius dankoi*, and *Telmatobius zapahuirensis*. In addition these authors delimited a large number of unnamed lineages.

Contained taxa (63 sp.):

[Telmatobius arequipensis Vellard, 1955](#)
[Telmatobius atacamensis Gallardo, 1962](#)
[Telmatobius atahualpai Wiens, 1993](#)
[Telmatobius bolivianus Parker, 1940](#)
[Telmatobius brachydactylus \(Peters, 1873\)](#)
[Telmatobius brevipes Vellard, 1951](#)
[Telmatobius brevirostris Vellard, 1955](#)
[Telmatobius carrillae Morales, 1988](#)
[Telmatobius ceiorum Laurent, 1970](#)
[Telmatobius chusmisensis Formas, Cuevas, and Nuñez, 2006](#)
[Telmatobius cirrhacelis Trueb, 1979](#)
[Telmatobius colanensis Wiens, 1993](#)
[Telmatobius contrerasi Cei, 1977](#)
[Telmatobius culeus \(Garman, 1876\)](#)
[Telmatobius dankoi Formas, Northland, Capetillo, Nuñez, Cuevas, and Brieva, 1999](#)
[Telmatobius degener Wiens, 1993](#)
[Telmatobius edaphonastes De la Riva, 1995](#)
[Telmatobius espadai De la Riva, 2005](#)
[Telmatobius fronteriensis Benavides, Ortiz, and Formas, 2002](#)
[Telmatobius gqgas Vellard, 1969](#)
[Telmatobius halli Noble, 1938](#)
[Telmatobius hauthali Koslowsky, 1895](#)
[Telmatobius hintoni Parker, 1940](#)
[Telmatobius hockingi Salas and Sinsch, 1996](#)
[Telmatobius huayra Lavilla and Erqueta-Sandoval, 1995](#)
[Telmatobius hypselocephalus Lavilla and Laurent, 1989](#)
[Telmatobius ignavus Barbour and Noble, 1920](#)
[Telmatobius intermedius Vellard, 1951](#)
[Telmatobius jelskii \(Peters, 1873\)](#)
[Telmatobius laevis Philippi, 1902](#)
[Telmatobius laticeps Laurent, 1977](#)
[Telmatobius latirostris Vellard, 1951](#)
[Telmatobius macrostomus \(Peters, 1873\)](#)
[Telmatobius mantaro Tito, Landauro, Venegas, De la Riva, and Chaparro, 2016](#)
[Telmatobius marmoratus \(Duméril and Bibron, 1841\)](#)
[Telmatobius mayoloi Salas and Sinsch, 1996](#)
[Telmatobius mendelsoni De la Riva, Trueb, and Duellman, 2012](#)
[Telmatobius necopinus Wiens, 1993](#)
[Telmatobius niger Barbour and Noble, 1920](#)
[Telmatobius oxycephalus Vellard, 1946](#)
[Telmatobius pefauri Veloso and Trueb, 1976](#)
[Telmatobius peruvianus Wiegmann, 1834](#)
[Telmatobius philippii Cuevas and Formas, 2002](#)
[Telmatobius pinguculus Lavilla and Laurent, 1989](#)
[Telmatobius pisanoi Laurent, 1977](#)
[Telmatobius platycephalus Lavilla and Laurent, 1989](#)
[Telmatobius punctatus Vellard, 1955](#)
[Telmatobius rimac Schmidt, 1954](#)
[Telmatobius rubigo Barrionuevo and Baldo, 2009](#)
[Telmatobius sanborni Schmidt, 1954](#)
[Telmatobius schreiteri Vellard, 1946](#)
[Telmatobius scrocchii Laurent and Lavilla, 1986](#)
[Telmatobius sibiricus De la Riva and Harvey, 2003](#)

[Telmatobius simonsi Parker, 1940](#)
[Telmatobius stephani Laurent, 1973](#)
[Telmatobius thompsoni Wiens, 1993](#)
[Telmatobius timens De la Riva, Aparicio, and Ríos, 2005](#)
[Telmatobius truebae Wiens, 1993](#)
[Telmatobius vellardi Munsterman and Leviton, 1959](#)
[Telmatobius ventriflavum Catenazzi, Vargas García, and Lehr, 2015](#)
[Telmatobius verrucosus Werner, 1899](#)
[Telmatobius vilamensis Formas, Benavides, and Cuevas, 2003](#)
[Telmatobius yuracare De la Riva, 1994](#)

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***Telmatobius culeus* (Garman, 1876)**

Class: [Amphibia](#) > Order: [Anura](#) > Family: [Telmatobiidae](#) > Genus: [Telmatobius](#) > Species: *Telmatobius culeus*

Cyclorhamphus culeus [Garman, 1876, Bull. Mus. Comp. Zool., 3](#): 276. Syntypes: MCZ 1077-78, 1080, 1088, 1091, 1810-12 (according to [Barbour and Loveridge, 1929, Bull. Mus. Comp. Zool., 69](#): 247-248), UMMZ 48072 (formerly MCZ 1080), UMMZ 50096 (formerly MCZ 1079; [Kluge, 1983, Misc. Publ. Mus. Zool. Univ. Michigan, 166](#): 29), NHMW 22866 (exchanged from MCZ according to [Häupl and Tiedemann, 1978, Kat. Wiss. Samml. Naturhist. Mus. Wien, 2](#): 15, and [Häupl, Tiedemann, and Grillitsch, 1994, Kat. Wiss. Samml. Naturhist. Mus. Wien, 9](#): 20). Type locality: "abundant in the extensive beds of weeds which occur on the bottom of Lake Titicaca . . . Numbers were brought up in the trawl at more than four miles from the shore"; specific type localities given by [Barbour and Loveridge, 1929, Bull. Mus. Comp. Zool., 69](#): 247-248 as "Achegache, Bolivia" (MCZ 1077), "Molino, Peru" (MCZ 1078), "Desaguadero Gulf, Bolivia" (MCZ 1079, lot of 5), "Carapata, Bolivia" (MCZ 1080, lot

of 3), "Puno, Peru" (MCZ 1088), "Puno, Peru" (MCZ 1810-12, lot of 6).

Tematobius culeus — [Barbour and Noble, 1920, Bull. Mus. Comp. Zool., 63](#): 409.

Tematobius escomeli [Angel, 1923, Ann. Sci. Nat., Paris, Ser. 10, 6](#): 108. Holotype: MNHNP 1922. 242, according to [Guibé, 1950 "1948", Cat. Types Amph. Mus. Natl. Hist. Nat.](#): 26. Type locality: "Iac Titicaca (région péruvienne)"; corrected to Lagunilla, Puno, Peru, by [Schmidt, 1954, Fieldiana, Zool., 34](#): 284. Synonymy with *Tematobius culeus* by [Parker, 1940, Trans. Linn. Soc. London, Ser. 3, 1](#): 212.

Tematobius escomeli escomeli — [Parker, 1940, Trans. Linn. Soc. London, Ser. 3, 1](#): 212.

Tematobius culeus albiventris [Parker, 1940, Trans. Linn. Soc. London, Ser. 3, 1](#): 211. Syntypes: BMNH (13 specimens), not traced. Type locality: "Lago Pequeño, collected chiefly around Taquiri Island and near Taraco Point", Lake Titicaca, Peru.

Tematobius escomeli crawfordi [Parker, 1940, Trans. Linn. Soc. London, Ser. 3, 1](#): 212. Syntypes: BMNH (25 specimens), by original designation. Type locality: "Lagunilla Saracocha", Puno, Peru. Synonymy with *Tematobius culeus* by [Benavides, Ortiz, and Sites, 2002, Herpetologica, 58](#): 31.

Tematobius escomeli exsul [Vellard, 1951, Mem. Mus. Hist. Nat. Javier Prado, 1](#): 66. Holotype: MUSM 326; given as MUSM 7678 (renumbered) by [Morales, Carrillo, and Ortega, 1990, Publ. Mus. Hist. Nat. Univ. Nac. Mayor San Marcos, 33](#): 4. Type locality: "pozo de agua junto a las termas de Yura" (= pond near the hot springs at Yura), Arequipa, Peru. Subspecies rejected by [Sinsch, Salas, and Canales, 1995, Alytes, 13](#): 38.

Tematobius albiventris albiventris — [Vellard, 1951, Mem. Mus. Hist. Nat. Javier Prado, 1](#): 56.

Tematobius albiventris parkeri [Vellard, 1951, Mem. Mus. Hist. Nat. Javier Prado, 1](#): 58. Syntypes: MUSM 157 (7 specimens); MUSM 7653 (renumbered) designated lectotype by [Morales, Carrillo, and Ortega, 1990, Publ. Mus. Hist. Nat. Univ. Nac. Mayor San Marcos, 33](#): 3. Type locality: "laguna de Arapa, al norte del lago Titicaca", Peru.

Tematobius albiventris punensis [Vellard, 1951, Mem. Mus. Hist. Nat. Javier Prado, 1](#): 57. Syntypes: MUSM 237 (5 specimens) (Isla Amantani) and 238 (8 specimens) (Bahía de Puno). MUSM 12423 (renumbered) designated lectotype by [Morales, Carrillo, and Ortega, 1990, Publ. Mus. Hist. Nat. Univ. Nac. Mayor San Marcos, 33](#): 3. Type localities: "Isla Amantani, frente a Puno", Puno, Peru and "bahía de Puno", Puno, Peru. Restricted to Isla Amantani, frente a Puno by lectotype designation.

Tematobius culeus exsul — [Vellard, 1953, Mem. Mus. Hist. Nat. Javier Prado, 2](#): 1-53.

Tematobius culeus culeus — [Vellard, 1953, Mem. Mus. Hist. Nat. Javier Prado, 2](#): 1-53.

Tematobius culeus dispar [Vellard, 1953, Mem. Mus. Hist. Nat. Javier Prado, 2](#): 40. Syntypes: MNHNP and MUSM; MNHNP 1957. 854 designated lectotype by [Lavilla, 1988, Alytes, 7](#): 14. Subsequent lectotype designation as MUSM 7772 (renumbered) by [Morales, Carrillo, and Ortega, 1990, Publ. Mus. Hist. Nat. Univ. Nac. Mayor San Marcos, 33](#): 4, is invalid; see comments by [Lavilla, 1997, Cuad. Herpetol., 11](#): 75-80. Type locality: "en la parte inferior del río Coata (o río Juliaca), entre su unión con el río Cabanillas y el lago Titicaca", Peru. Subspecies rejected by [Sinsch, Salas, and Canales, 1995, Alytes, 13](#): 38.

Tematobius culeus escomeli — [Vellard, 1953, Mem. Mus. Hist. Nat. Javier Prado, 2](#): 36. Subspecies rejected by [Sinsch, Sinsch, Salas, and Canales, 1995, Alytes, 13](#): 38.

Tematobius culeus fluviatilis [Vellard, 1953, Mem. Mus. Hist. Nat. Javier Prado, 2](#): 40. Types: (18 specimens) no indication of depository, according to [Lavilla, 1988, Alytes, 7](#): 6-18. [Morales, Carrillo, and Ortega, 1990, Publ. Mus. Hist. Nat. Univ. Nac. Mayor San Marcos, 33](#): 4, regarded the syntypes as being in MUSM and designated MUSM 7755 (renumbered) as lectotype. Type locality: "en la parte inferior del río Coata (o río Juliaca), entre su unión con el río Cabanillas y el lago Titicaca", Peru. Subspecies rejected by [Sinsch, Salas, and Canales, 1995, Alytes, 13](#): 38.

Tematobius culeus lacustris [Vellard, 1953, Mem. Mus. Hist. Nat. Javier Prado, 2](#): 41. Types: (3 specimens), depository not identifiable, according to [Lavilla, 1988, Alytes, 7](#): 6-18. [Morales, Carrillo, and Ortega, 1990, Publ. Mus. Hist. Nat. Univ. Nac. Mayor San Marcos, 33](#): 4, regarded the syntypes as being in MUSM and designated MUSM 7674 (renumbered) as lectotype. Type localities: "la laguna de la hacienda de Checayani, cerca de Azangaro, al norte del Titicaca" and "Umayo, cerca de Silustani", Peru. Subspecies rejected by [Sinsch, Salas, and Canales, 1995, Alytes, 13](#): 38.

Tematobius crawfordi crawfordi — [Vellard, 1953, Mem. Mus. Hist. Nat. Javier Prado, 2](#): 45.

Tematobius crawfordi semipalmatus [Vellard, 1953, Mem. Mus. Hist. Nat. Javier Prado, 2](#): 47. Syntypes: 12 specimens, depository not identifiable, according to [Lavilla, 1988, Alytes, 7](#): 6-18. MUSM considered to be location of syntypes and MUSM 7685 (renumbered) designated lectotype by [Morales, Carrillo, and Ortega, 1990, Publ. Mus. Hist. Nat. Univ. Nac. Mayor San Marcos, 33](#): 4. Type locality: "en pozos honos de agua formados a la salida del lago de Chajchora y unidos al riachuelo que sirve de desaguadero al lago. Chajchora se encuentra a unos 20 km. de distancia de Saracocha y poco mas alto que esta última localidad", Peru. Synonymy with *Tematobius culeus* implied by [Benavides, Ortiz, and Sites, 2002, Herpetologica, 58](#): 31, although this particular taxon was not examined by them.

Tematobius culeus albiventris — [Schmidt, 1954, Fieldiana, Zool., 34](#): 284.

Telmatobius culeus parkeri — [Schmidt, 1954, Fieldiana, Zool., 34: 284.](#) [Vellard, 1992, in Dejoux and Iltis \(eds.\), Lake Titicaca: 453.](#)

Telmatobius culeus punensis — [Schmidt, 1954, Fieldiana, Zool., 34: 284.](#) [Vellard, 1992, in Dejoux and Iltis \(eds.\), Lake Titicaca: 453.](#)

Telmatobius albiventris albiventris — [Vellard, 1960, Mem. Mus. Hist. Nat. Javier Prado, 10: 1-20.](#)

Telmatobius albiventris globulosus [Vellard, 1960, Mem. Mus. Hist. Nat. Javier Prado, 10: 14.](#) Type: MUSM 7747 (formerly 330), according to [Morales, Carrillo, and Ortega, 1990, Publ. Mus. Hist. Nat. Univ. Nac. Mayor San Marcos, 33: 3.](#) Type locality: "las playas de Copani . . . entre 2 y 3 metros de profundidad", Lake Titicaca, Huiñamarca, Peru.

Telmatobius albiventris punensis — [Vellard, 1960, Mem. Mus. Hist. Nat. Javier Prado, 10: 1-20.](#)

Telmatobius culeus albiventris — [Vellard, 1992, in Dejoux and Iltis \(eds.\), Lake Titicaca: 453.](#)

Telmatobius culeus globulosus — [Vellard, 1992, in Dejoux and Iltis \(eds.\), Lake Titicaca: 453.](#)

Telmatobius culeus lacustris — [Vellard, 1992, in Dejoux and Iltis \(eds.\), Lake Titicaca: 453.](#)

Telmatobius culeus crawfordi — [Vellard, 1992, in Dejoux and Iltis \(eds.\), Lake Titicaca: 453.](#)

English Names

Titicaca Water Frog (*Telmatobius culeus*: [Frank and Ramus, 1995, Compl. Guide Scient. Common Names Amph. Rept. World: 84](#)).

Crawford's Water Frog (*Telmatobius crawfordi*: [Frank and Ramus, 1995, Compl. Guide Scient. Common Names Amph. Rept. World: 84](#)).

White Water Frog (*Telmatobius albiventris*: [Frank and Ramus, 1995, Compl. Guide Scient. Common Names Amph. Rept. World: 84](#)).

Distribution

Region in vicinity of Lake Titicaca and Laguna de Arapa, Peru and Bolivia; Lake Umayo, Peru; Lake Chajchora, Peru, ca. 3810 m elevation.

Comment

All six subspecies discussed by [Vellard, 1953, Mem. Mus. Hist. Nat. Javier Prado, 2: 1-53](#), were rejected by [Sinsch, Salas, and Canales, 1995, Alytes, 13: 38](#) (not including former *Telmatobius crawfordi*). See discussion of taxonomic chaos by [De la Riva, Köhler, Lötters, and Reichle, 2000, Rev. Esp. Herpetol., 14: 49](#). Three subspecies of former *Telmatobius crawfordi* discussed by [Vellard, 1953, Mem. Mus. Hist. Nat. Javier Prado, 2: 1-53](#), one of which, *Telmatobius crawfordi microcephalus*, was transferred to *Telmatobius marmoratus*. Former *Telmatobius albiventris* contained four subspecies; see [Vellard, 1951, Mem. Mus. Hist. Nat. Javier Prado, 1: 1-89](#), and [Vellard, 1960, Mem. Mus. Hist. Nat. Javier Prado, 10: 1-20](#). [De la Riva, Köhler, Lötters, and Reichle, 2000, Rev. Esp. Herpetol., 14: 49](#), considered former *Telmatobius albiventris* a synonym of *Telmatobius culeus* following [Vellard, 1992, in Dejoux and Iltis \(eds.\), Lake Titicaca: 449-457](#). See also [Benavides, Ortiz, and Sites, 2002, Herpetologica, 58: 31-55](#). See comments by [Lehr, 2005, in Lavilla and De la Riva \(eds.\), Monogr. Herpetol., 7: 51](#). [Benavides, 2005, in Lavilla and De la Riva \(eds.\), Monogr. Herpetol., 7: 167-185](#), could not distinguish *Telmatobius culeus* from *Telmatobius marmoratus* in the Lake Titicaca drainage on the basis of molecular evidence. [De la Riva, 2005, in Lavilla and De la Riva \(eds.\), Monogr. Herpetol., 7: 71-72](#), provided an account. See photograph, map, description of geographic range and habitat, and conservation status in [Stuart, Hoffmann, Chanson, Cox, Berridge, Ramani, and Young, 2008, Threatened Amph. World: 412](#).

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***Paramesotriton* Chang, 1935**

Class: [Amphibia](#) > Order: [Caudata](#) > Family: [Salamandridae](#) > Subfamily: [Pleurodelinae](#) > Genus: *Paramesotriton*
14 species

Mesotriton [Bourret, 1934, Annexe Bull. Gen. Instr. Publique, Hanoi, 1934](#): 83. Type species: *Mesotriton deloustali* Bourret, 1934, by monotypy. Preoccupied by *Mesotriton* Bolkay, 1927.

Paramesotriton [Chang, 1935, Bull. Mus. Natl. Hist. Nat. Paris, Ser. 2, 7](#): 95. Also published by [Chang, 1935, Bull. Soc. Zool. France, 60](#): 425. Replacement name for *Mesotriton* Bourret, 1934.

Trituroides [Chang, 1935, Bull. Soc. Zool. France, 60](#): 425. Type species: *Cynops chinensis* Gray, 1859, by monotypy.

Synonymy (with *Paramesotriton*) by [Freytag, 1962, Mitt. Zool. Mus. Berlin, 38](#): 451-459.

Allomesotriton [Freytag, 1983, Zool. Abh. Staatl. Mus. Tierkd. Dresden, 39](#): 47. Type species: *Trituroides caudopunctatus* Liu and Hu, 1973, by original designation.

Allomesotriton — [Pang, Jiang, and Hu, 1992, in Jiang \(ed.\), Collect. Pap. Herpetol.](#): 89. Treatment as a subgenus of *Paramesotriton*.

English Names

Warty Newts ([Frank and Ramus, 1995, Compl. Guide Scient. Common Names Amph. Rept. World](#): 35).

Distribution

Northern Vietnam, Laos, and southwestern and southern China.

Comment

See [Freytag, 1962, Mitt. Zool. Mus. Berlin, 38](#): 451. [Pang, Jiang, and Hu, 1992, in Jiang \(ed.\), Collect. Pap. Herpetol.](#): 89-100, reviewed the systematics of the group. [Chan, Zamudio, and Wake, 2001, Copeia, 2001](#): 997-1009, suggested that *Paramesotriton* is the sister taxon of *Pachytriton*. [Thorn and Raffaëlli, 2000, Salamand. Ancien Monde](#): 323-336, also provided accounts. [Fei, Ye, Huang, Jiang, and Xie, 2005, in Fei et al. \(eds.\), Illust. Key Chinese Amph.](#): 44-45, provided a key to the species of China. [Lü, Yuan, Pang, Yang, Yu, McGuire, Xie, and Zhang, 2004, Biochem. Genet.](#), 42: 139-148, provided a phylogenetic analysis based on DNA sequence data. [Weisrock, Papenfuss, Macey, Litvinchuk, Polymeni, Ugurtas, Zhao, Jowkar, and Larson, 2006, Mol. Phylogenet. Evol.](#), 41: 855-857, on the basis of DNA sequence evidence, found *Paramesotriton* to be in a monophyletic group with *Cynops* and *Pachytriton*. [Steinfartz, Vicario, Arntzen, and Caccone, 2007, J. Exp. Zool.](#), 308B: 139-142, found *Paramesotriton* to form the sister taxon of *Pachytriton*, and together imbedded within a paraphyletic *Cynops*. [Wu, Rovito, Papenfuss, and Hanken, 2009, Zootaxa, 2060](#): 59-68, provided a molecular phylogeny of the species in the genus. [Dubois and Raffaëlli, 2009, Alytes, 26](#): 48, partitioned out *Laotriton* to render *Paramesotriton* monophyletic, and recognized two subgenera (*Paramesotriton* and *Allomesotriton*). [Gu, Wang, Chen, Tian, and Li, 2012, Zootaxa, 3150](#): 59-68, found *Paramesotriton* to be monophyletic, the sister taxon of *Laotriton*, and the subgenera to be monophyletic as well. [Yuan, Zhao, Jiang, Hou, He, Murphy, and Che, 2014, Asian Herpetol. Res.](#), 5: 67-79, reported on the molecular phylogenetics of the taxon based on ND2 and its flanking tRNAs as well as providing a key to the species. [Raffaëlli, 2013, Urodeles du Monde, 2nd ed.](#): 158-166, provided brief accounts of the species, range maps, and photographs.

Contained taxa (14 sp.):

[Paramesotriton aurantius Yuan, Wu, Zhou, and Che, 2016](#)

[Paramesotriton caudopunctatus \(Liu and Hu, 1973\)](#)

[Paramesotriton chinensis \(Gray, 1859\)](#)

[Paramesotriton deloustali \(Bourret, 1934\)](#)

[Paramesotriton fuzhongensis Wen, 1989](#)

[Paramesotriton quangxiensis \(Huang, Tang, and Tang, 1983\)](#)

[Paramesotriton hongkongensis \(Myers and Leviton, 1962\)](#)

[Paramesotriton labiatus \(Unterstein, 1930\)](#)

[Paramesotriton longliensis Li, Tian, Gu, and Xiong, 2008](#)

[Paramesotriton maolanensis Gu, Chen, Tian, Li, and Ran, 2012](#)

[Paramesotriton qixilingensis Yan, Zhao, Jiang, Hou, He, Murphy, and Che, 2014](#)

[Paramesotriton wulingensis Wang, Tian, and Gu, 2013](#)

[Paramesotriton yunwuensis Wu, Jiang, and Hanken, 2010](#)

[Paramesotriton zhijinensis Li, Tian, and Gu, 2008](#)

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***Paramesotriton hongkongensis* (Myers and Leviton, 1962)**

Class: [Amphibia](#) > Order: [Caudata](#) > Family: [Salamandridae](#) > Subfamily: [Pleurodelinae](#) > Genus: [Paramesotriton](#) > Species: *Paramesotriton hongkongensis*

Trituroides hongkongensis [Myers and Leviton, 1962, Occas. Pap. Div. Syst. Biol. Stanford Univ., 10](#): 1. Holotype: CAS-SU 6378, by original designation. Type locality: "a mountain stream, on the Peak, Hong Kong Island", China.

Paramesotriton hongkongensis — [Freytag, 1962, Mitt. Zool. Mus. Berlin, 38](#): 451–459; [Fei, Ye, Huang, Jiang, and Xie, 2005, in Fei et al. \(eds.\), Illust. Key Chinese Amph.](#): 45.

Paramesotriton chinensis hongkongensis — [Fei, Ye, and Huang, 1990, Key to Chinese Amph.](#): 61–62; [Ye, Fei, and Hu,](#)

[1993, Rare and Economic Amph. China](#) 90.

Paramesotriton (Paramesotriton) hongkongensis — [Dubois and Raffaëlli, 2009, Alytes, 26](#): 49, 65.

English Names

Hong Kong Warty Newt ([Karsen, Lau, and Bogadek, 1986, Hong Kong Amph. Rept.](#): 15; [Frank and Ramus, 1995, Compl. Guide Scient. Common Names Amph. Rept. World](#): 35; [Fei, 1999, Atlas Amph. China](#): 48).

Hong Kong Newt ([Ananjeva, Borkin, Darevsky, and Orlov, 1988, Dict. Amph. Rept. Five Languages](#): 33; [Thorn and Raffaëlli, 2000, Salamand. Ancien Monde](#): 329).

Distribution

Northern (Huizhou and Logmen) central (Dongguan) and coastal Guangdong adjacent to and including Hongkong, ca. 90–940 m elevation.

Comment

Removed from the synonymy of *Paramesotriton chensis* by [Fei, Ye, Huang, Jiang, and Xie, 2005, in Fei et al. \(eds.\), Illust. Key Chinese Amph.](#): 45, where it had been placed by [Ye, Fei, and Hu, 1993, Rare and Economic Amph. China](#) 90. See account by [Thorn and Raffaëlli, 2000, Salamand. Ancien Monde](#): 329-331. [Fei, Hu, Ye, and Huang, 2006, Fauna Sinica, Amph. 1](#): 306-310, provided an account and range map. See statement of geographic range, habitat, and conservation status (for nominal *Paramesotriton hongkongensis*) in [Stuart, Hoffmann, Chanson, Cox, Berridge, Ramani, and Young, 2008, Threatened Amph. World](#): 642. [Fei, Ye, and Jiang, 2010, Colored Atlas of Chinese Amph.](#): 85, provided a brief account including photographs of specimens and habitat. [Fei, Ye, and Jiang, 2012, Colored Atlas Chinese Amph. Distr.](#): 114-115, provided an account, photographs, and map. [Raffaëlli, 2013, Urodeles du Monde, 2nd ed.](#): 159–160, provided a brief account, range map, and photograph. [Jono, Nishikawa, Ding, and Tang, 2014, Herpetol. Rev., 651](#): 651, provided a range extension to Longyandong Forest Park in Dongguan, Guangdong, China, and briefly discussed the range.

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