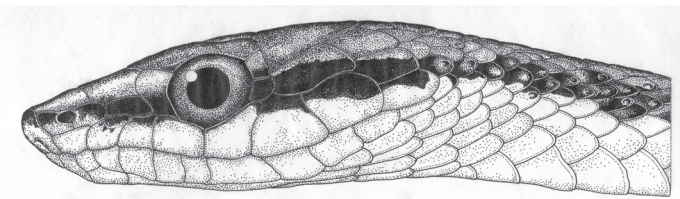


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Leptophis mexicanus (UMRC 85-20; 706 mm SVL). Mexico: Campeche: 2.1 km N Checkubúl. Illustration by Julian C. Lee.

New Frog Records from Laos

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The frog fauna of Laos (Lao People's Democratic Republic) is poorly known relative to that of neighboring Thailand, China, and Vietnam. Bourret's (1942) regional monograph remains the major work on the frog fauna of Laos. Stuart (1999) compiled a list of the frog species and the general regions and habitats in which they were known to occur in the country, and Teynié et al. (2004) reported on a collection from southern Laos. Seven new species of frogs from Laos have been recently described based on new and old collections (Inger and Kottelat 1998; Ohler 2003; Bain and Nguyen 2004; Ohler et al. 2004; Stuart and Heatwole 2004; Stuart and Chan-ard 2005; Stuart et al. 2005).

I conducted herpetological fieldwork throughout Laos between February 1998 and December 2000, and specimens were deposited at the Field Museum of Natural History (FMNH). Herein, country and provincial records of 46 species of frogs are reported. Some of the earlier records were listed in Stuart (1999), but voucher numbers and detailed locality information were not provided. Therefore, those records are presented again here with such information, and identifications are corrected where needed. Records reported by Stuart (1999) are treated here as first country records only if other authors have not reported them since.

FAMILY MEGOPHYRIDAE

Brachytarsophrys intermedia. XE KONG PROVINCE, Kaleum District, Xe Sap National Biodiversity Conservation Area: FMNH 258093–096, 16°04'10"N 106°58'45"E, 1200–1300 m elevation, rocky streams in wet evergreen forest, 07–08 July 1999, B. L. Stuart. Males were calling day and night. Three males (FMNH 258093–094, 258096) were calling from under partly submerged rocks or rock crevices in streams, and one male (FMNH 258095) was floating in a stream pool next to a boulder pile at the base of small cascade. One male (FMNH 258094) was in a rocky stream guarding a large clutch of eggs (FMNH 258902) that were adhered to the underside of a partly submerged 1 x 1 m rock adjacent to the back of the calling male. The eggs were uniformly yellow, without a pigmented hemisphere, and 4.5–5.0 mm in diameter. First country record.

Leptobranchium banae. XE KONG PROVINCE, Kaleum District, Xe Sap National Biodiversity Conservation Area, near Houay Alung Stream: FMNH 258079, 16°00'32"N 106°55'31"E, 920–1000 m elevation, on leaf litter in evergreen forest, 30 June 1999, B. L. Stuart. In life, upper iris light blue, limbs with orange cross-bars, and flank with scattered orange flecking. First country record.

Leptobranchium chapaense. BOLIKHAMXAY PROVINCE, Khamkeut District, Nape border area: FMNH 258065, 258067–

071, wet evergreen forest, 17–19 March 1997, D. Davenport. In life, upper iris light blue. Reported as *L. pullum* in Stuart (1999). Reported from Bokeo Province (Dubois and Ohler 1998). First provincial record.

Leptobranchium smithi. SAYABOURY PROVINCE, Phiang District, west of Mekong River: FMNH 258091–092, 258097, 258101–106, near 18°54'08"N 101°34'30"E, 250–400 m elevation, disturbed evergreen forest, 01 September 1999, M. Baltzer. VIENTIANE PROVINCE, Xanakham District: FMNH 263263, near 18°07'57"N 101°29'30"E, 300–600 m elevation, gallery evergreen mixed with bamboo and deciduous forest, November 2000, T. Hansel. First country record.

Leptolalax bourreti. PHONGSALY PROVINCE, Phongsaly District, Phou Dendin National Biodiversity Conservation Area: FMNH 258052–056, near Nam Ou River, 22°05'38"N 102°12'50"E, 600 m elevation, on leaf of herbaceous plant, dirt bank, or rock near small rocky streams in hill evergreen forest, 07–11 October 1999, B. L. Stuart and H. F. Heatwole; FMNH 258057, near Nam Khang River, near 22°09'04"N 102°12'19"E, 600 m elevation, on leaf of herbaceous plant 3 m from stream in hill evergreen forest, 14 October 1999, B. L. Stuart and H. F. Heatwole; FMNH 258058, 258060, 258066, confluence of Nam Ou and Houay Han Streams, 22°05'31"N 102°06'19"E, 600–800 m elevation, on rocky bank at edge of swift stream in hill evergreen mixed with bamboo forest, 19 October 1999, B. L. Stuart and H. F. Heatwole; FMNH 258059, 258061–064, Houay Han Stream, near Nam Ou River, near 22°05'31"N 102°06'19"E, 600–800 m elevation, on tree root, rocks, or leaf litter on bank of small rocky stream in hill evergreen forest, 19–21 October 1999, B. L. Stuart and H. F. Heatwole. BOLIKHAMXAY PROVINCE, Khamkeut District, Nape border area: FMNH 258035–045, wet evergreen forest, 15–18 March 1997, D. Davenport. Reported as *L. pelodytoides* (part) in Stuart (1999). First country record.

Leptolalax oshanensis. PHONGSALY PROVINCE, Phongsaly District, Phou Dendin National Biodiversity Conservation Area, near confluence of Nam Ou and Nam Sa Rivers: FMNH 258077, near 22°05'31"N 102°06'19"E, 600 m elevation, under leaf litter in hill evergreen forest, 20 October 1999, B. L. Stuart and H. F. Heatwole. BOLIKHAMXAY PROVINCE, Khamkeut District, Nape border area: FMNH 257989–992, wet evergreen forest, 15–19 March 1997, D. Davenport. KHAMMOUAN PROVINCE, Navang: FMNH 257986–988, 26 February 1997, D. Davenport. Reported as *L. pelodytoides* (part) in Stuart (1999). First country record.

Megophrys major. PHONGSALY PROVINCE, Phongsaly District, Phou Dendin National Biodiversity Conservation Area: FMNH 258571–575, near Nam Ou River, 22°05'38"N 102°12'50"E, 600 m elevation, on mid-stream rock and on rocks and branches along bank of small rocky streams in hill evergreen forest, 07–11 October 1999, B. L. Stuart and H. F. Heatwole; FMNH 258576, near Nam Khang River, near 22°09'04"N 102°12'19"E, 600 m elevation, hill evergreen forest, 12 October 1999, B. L. Stuart and H. F. Heatwole; FMNH 258577, Houay Han Stream, near Nam Ou River, near 22°05'31"N 102°06'19"E, on rock next to 3 x 3 m pool at base of 2-m high waterfall in hill evergreen forest, 600–800 m elevation, 19 October 1999, B. L. Stuart and H. F. Heatwole; FMNH 258578, near Houay Aw Stream,

near Nam Ou River, near 22°05'44"N 102°08'10"E, 600–800 m elevation, on sandy bank among boulders 1 m from swift stream in hill evergreen forest, 24 October 1999, B. L. Stuart and H. F. Heatwole. HUAPHAHN PROVINCE, Vieng Tong District, Phou Louey National Biodiversity Conservation Area, Phou Louey Mountain: FMNH 255542, 20°14'N 103°12'E, 1200 m elevation, on rock on bank of swift stream in hill evergreen forest, 03 May 1998, B. L. Stuart. BOLIKHAMXAY PROVINCE, Khamkeut District, Ban Nape border area: FMNH 258539–541, 258543, wet evergreen forest, 17–19 March 1997, D. Davenport. KHAMMOUAN PROVINCE, Nakai District, Nakai-Nam Theun National Biodiversity Conservation Area: FMNH 256440, near Houay Ting Tou Stream, 17°58'N 105°34'E, 700 m elevation, calling from leaf of herbaceous plant 2 m above stream in evergreen forest, 07 November 1998, B. L. Stuart; FMNH 256441, near Houay Duen Stream 17°57'N 105°34'E, 700 m elevation, submerged at rocky bank of stream in evergreen forest, 10 November 1998, B. L. Stuart. XE KONG PROVINCE, Kaleum District, Xe Sap National Biodiversity Conservation Area: FMNH 258545, near Houay Alung Stream, 16°00'32"N 106°55'31"E, 920–1000 m elevation, on leaf litter of forest floor away from water in wet evergreen forest, 30 June 1999, B. L. Stuart; FMNH 258544, 258546, near Houay Batay Stream, 16°01'30"N 106°55'40"E, 780–900 m elevation, on leaf litter bank 5–8 m above small rushing stream in disturbed evergreen forest, 29 June 1999, B. L. Stuart; FMNH 258547–548, near 16°04'10"N 106°58'45"E, 1200 m elevation, under rock ledge and on log next to small rocky stream in wet evergreen forest, 07 July 1999, B. L. Stuart. CHAMPASAK PROVINCE, Pakxong District, Dong Hua Sao National Biodiversity Conservation Area, Bolaven Plateau: FMNH 258549–551, 258553–55, near 15°04'37"N 106°08'15"E, 1000 m elevation, on and under leaf litter in forest away from water, on ground in coffee plantation away from water, and on mid-stream rock of rushing stream in wet evergreen forest with coffee plantation clearings, 11–13 September 1999, B. L. Stuart and H. F. Heatwole; FMNH 258563, 258565–570, near 15°03'55"N 106°13'03"E, 1200 m elevation, on and under leaf litter in forest away from water and on rock bank 1 m from stream in wet evergreen forest, 21–23 September 1999, B. L. Stuart and H. F. Heatwole; FMNH 258556, near 15°02'48"N 106°10'45"E, 400 m elevation, on large boulder 6 m from stream in wet evergreen forest, 18 September 1999, B. L. Stuart and H. F. Heatwole; FMNH 258557–562, near Ban Nongluang Village, near 15°04'07"N 106°12'03"E, 1100 m elevation, 20 September 1999, B. L. Stuart and H. F. Heatwole. Reported as *M. lateralis* in Stuart (1999). First country record.

Megophrys palpebralespinosa. PHONGSALY PROVINCE, Phongsaly District, Phou Dendin National Biodiversity Conservation Area, near Nam Ou River: FMNH 258098–100, 22°05'38"N 102°12'50"E, 600 m elevation, under leaf litter or along rocky streams in hill evergreen forest, 07–09 October 1999, B. L. Stuart and H. F. Heatwole. First country record.

Megophrys parva. PHONGSALY PROVINCE, Phongsaly District, Phou Dendin National Biodiversity Conservation Area, near Houay Aw Stream, tributary of Nam Ou River: FMNH 258578, near 22°05'44"N 102°08'10"E, 600–800 m elevation, on sandy bank among boulders 1 m from swift stream in hill evergreen forest, 24 October 1999, B. L. Stuart and H. F. Heatwole.

HUAPHAHN PROVINCE, Vieng Tong District, Nam Et National Biodiversity Conservation Area, near Houay Louen Stream: FMNH 255543, in leaf litter on stream bank, 30 April 1998, D. Showler. First country record.

Ophryophryne gerti. CHAMPASAK PROVINCE, Pakxong District, Dong Hua Sao National Biodiversity Conservation Area, Bolaven Plateau: FMNH 258564, near 15°03'55"N 106°13'03"E, 1200 m elevation, in shallow water of 1 x 1 m side pool of stream in wet evergreen forest, 22 September 1999, B. L. Stuart and H. F. Heatwole. One paratype from "Huey Sapan, Pak Maat, Mekong, Laos" (Ohler 2003), but this precise locality has not been found (Ohler 2003). First provincial record.

Ophryophryne hansi. BOLIKHAMXAY PROVINCE, Khamkeut District, Nape border area, Nape Stream: FMNH 258001–007, 258072–073, wet evergreen forest, 15–18 March 1997, D. Davenport. KHAMMOUAN PROVINCE, Nakai District, Nakai-Nam Theun National Biodiversity Conservation Area, near Houay Ting Tou Stream: FMNH 256448, 17°57'N 105°34'E, 700 m elevation, on fern growing from rock face 2 m above stream pool in evergreen forest, 09 November 1998, B. L. Stuart. XE KONG PROVINCE, Kaleum District, Xe Sap National Biodiversity Conservation Area: FMNH 258009–010, 258046–051, 16°04'10"N 106°58'45"E, 1100–1300 m elevation, on leaves, logs, rocks, and boulders along small rocky streams and stream pools in wet evergreen forest, 06–09 July 1999, B. L. Stuart; FMNH 258008, near Houay Alung Stream, 16°00'32"N 106°55'31"E, 920–1000 m elevation, on rock ledge 15 cm above small stream in wet evergreen forest, 30 June 1999, B. L. Stuart. Reported as *O. poilani* in Stuart (1999). First country record.

FAMILY BUFONIDAE

Bufo galeatus. KHAMMOUAN PROVINCE, Boualapha District, Hin Nam No National Biodiversity Conservation Area: FMNH 255315, 255322–325, 17°20'N 105°41'E, 500 m elevation, near pools in temporary stream bed in dry evergreen mixed with deciduous forest, 24–25 February 1998, B. L. Stuart. KHAMMOUAN PROVINCE, Nakai District, Nakai-Nam Theun National Biodiversity Conservation Area, near Houay Dreng Stream: FMNH 256442–445, 17°50'N 105°35'E, 600 m elevation, near side pools of stream in wet evergreen forest, 03 December 1998, B. L. Stuart. First country record.

Bufo macrotis. VIENTIANE MUNICIPALITY, Vientiane: FMNH 257916–917, 17°58'41"N 102°39'16"E, 190 m elevation, on road at night during rain, 09 June 1999, B. L. Stuart. CHAMPASAK PROVINCE, Mounlapamok District, Dong Khanthung National Biodiversity Conservation Area, near Xe Lepou River: FMNH 255316–320, near Ban Thakang Village, grassland with deciduous dipterocarp forest, 14°07'N 105°40'E, 60 m elevation, on exposed branches and floating sticks in flooded deciduous dipterocarp forest, 06 July 1998, B. L. Stuart; FMNH 255321, 14°07'N 105°29'E, 60 m elevation, on sandy trail in grassland with deciduous dipterocarp forest and dry evergreen forest, 12 July 1998, B. L. Stuart. First country record.

Bufo melanostictus. PHONGSALY PROVINCE, Phongsaly District, Phou Dendin National Biodiversity Conservation Area, near Nam Khang River on Nam Kaw Stream: FMNH 257948–949, near 22°09'39"N 102°11'07"E, 600 m elevation, on pebble bank 3 m

from stream in hill evergreen forest, 15 October 1999, B. L. Stuart and H. F. Heatwole. SAYABOURY PROVINCE, Phiang District, west of Mekong River: FMNH 257945, near 18°54'08"N 101°34'30"E, 250–400 m elevation, disturbed evergreen forest, 01 September 1999, M. Baltzer. BOLIKHAMXAY PROVINCE, Khamkeut District, Lac Xao: FMNH 254555–557, on road at night, near building, and near pond in dry evergreen forest, 01–14 October 1996, D. Davenport and H. F. Heatwole. Reported from throughout Indochina but without specific localities in Laos (Bourret 1942), and in Laos from Vientiane Municipality (Teynié et al. 2004), Khammouan Province (Stuart and Davidson 1999), and Champasak Province (Teynié et al. 2004). First provincial records.

FAMILY MICROHYLIDAE

Kalophrynus interlineatus. KHAMMOUAN PROVINCE, Boualapha District, Hin Nam No National Biodiversity Conservation Area: FMNH 255124, 17°30'N 105°51'E, 200 m elevation, near pool at entrance of limestone cave in dry evergreen mixed with deciduous forest, 15 February 1998, B. L. Stuart. Reported as *K. pleurostigma* in Stuart (1999). Reported from Champasak Province (Teynié et al. 2004). First provincial record.

Kaloula pulchra. VIENTIANE MUNICIPALITY, Vientiane: FMNH 257912, 17°58'24"N 102°36'57"E, 190 m elevation, on road at night during rain, 09 June 1999, B. L. Stuart. BOLIKHAMXAY PROVINCE, Thaphabat District, Phou Khao Khouay National Biodiversity Conservation Area, Houay Kay River near That Xay Waterfall: FMNH 255129, 18°27'N 103°10'E, 300 m elevation, on rock ledge 1 m above ground 2 m from river, 27 June 1998, B. L. Stuart. KHAMMOUAN PROVINCE, Boualapha District, Hin Nam No National Biodiversity Conservation Area: FMNH 255127, 17°34'N 105°50'E, 200 m elevation, on bank of flat stream near limestone karst in dry evergreen mixed with deciduous forest, 10 February 1998, B. L. Stuart. Reported from throughout Indochina but without specific localities in Laos (Bourret 1942), and in Laos from Champasak Province (Teynié et al. 2004). First provincial records.

Microhyla berdmorei. PHONGSALY PROVINCE, Phongsaly District, Phou Dendin National Biodiversity Conservation Area: FMNH 257920–923, near Nam Ou River, near 22°05'38"N 102°12'50"E, 600 m elevation, hill evergreen forest, 09–11 October 1999, B. L. Stuart and H. F. Heatwole; FMNH 257924–926, near Nam Khang River, near 22°09'04"N 102°12'19"E, 600 m elevation, hill evergreen forest, 13–14 October 1999, B. L. Stuart and H. F. Heatwole. BOLIKHAMXAY PROVINCE, Khamkeut District, Lac Xao: FMNH 254602–603, 254606–607, 254610–617, 28 September–29 October 1996, D. Davenport and H. F. Heatwole. KHAMMOUAN PROVINCE, Nakai District, Nakai-Nam Theun National Biodiversity Conservation Area: FMNH 256446, along Houay Ting Tou Stream, 17°58'N 105°34'E, 700 m elevation, on sand bank of stream in disturbed evergreen forest, 08 November 1998, B. L. Stuart; FMNH 256447, along Houay Duen Stream, 17°57'N 105°34'E, 700 m elevation, on rocky bank of stream in evergreen forest, 10 November 1998, B. L. Stuart. SAVANNAKHET PROVINCE, Tapanthong District, Dong Sithovane Production Forest: FMNH 258078, 16°07'41"N 105°54'53"E, on rocky flats near stream pools, 17 January 2000, R. Boonratana. ATTAPEU PROVINCE, Sanamsai District, Ban

Mai Village, Nong Khe Wetlands: FMNH 262656, 14°42'35"N 106°28'00"E, 100 m elevation, along rocky shoreline of marsh in deciduous forest, 17 September 2000, B. L. Stuart. Reported from Champasak Province (Teynié et al. 2004). First provincial records.

Microhyla butleri. HUAPHAHN PROVINCE, Vieng Tong District, Phou Louey National Biodiversity Conservation Area, near Ban Houay Sa abandoned village: FMNH 255072, 20°13'N 103°15'E, 1000 m elevation, under log at edge of 3 x 4 m buffalo wallow ca. 6 m from stream, 25 April 1998, B. L. Stuart. BOLIKHAMXAY PROVINCE, Khamkeut District, Lac Xao: FMNH 254599, on leaf litter of dry evergreen forest, 06 October 1996, D. Davenport. KHAMMOUAN PROVINCE, Nakai District, Phou Hin Poun National Biodiversity Conservation Area: FMNH 255066–071, 255225, 17°51'N 104°52'E, 220 m elevation, on leaf litter of temporary stream bed in dry evergreen mixed with deciduous forest, 17–20 March 1998, B. L. Stuart and T. Chanard. Reported from Champasak Province (Teynié et al. 2004). First provincial records.

Microhyla fissipes. BOLIKHAMXAY PROVINCE, Khamkeut District, Lac Xao: FMNH 254587, 254598, dry evergreen forest, 07 October and 13 November 1996, D. Davenport and H. F. Heatwole. CHAMPASAK PROVINCE, Mounlapamok District, Dong Khanthung National Biodiversity Conservation Area, near Ban Thakang Village: FMNH 255130–131, near Ban Thakang village, on Xe Lepou River, 14°07'N 105°40'E, 60 m elevation, at edge of 2 x 3 m puddle in grassland with deciduous dipterocarp forest, 06 July 1998, B. L. Stuart. Recently resurrected from the synonymy of *M. ornata* by Matsui et al. (2005). Reported as *M. ornata* from “Tra-ninh (Xieng-khouang)” in Xieng Khouang Province (Bourret 1942), Vientiane (Bourret 1942), and Khammouan Province (Stuart and Davidson 1999). First provincial records.

Microhyla heymonsi. HUAPHAHN PROVINCE, Vieng Tong District, Phou Louey National Biodiversity Conservation Area: FMNH 255085–086, near Ban Houay Sa abandoned village, 20°13'N 103°15'E, 1000 m elevation, under log at edge of 3 x 4 m buffalo wallow approximately 6 m from stream, 25 April 1998, B. L. Stuart; FMNH 255087, near Nam Pong River, 20°14'N 103°16'E, 985 m elevation, in marsh in clearing of hill evergreen forest, 28 April 1998, B. L. Stuart. SAYABOURY PROVINCE, Phiang District, west of Mekong River: FMNH 257985, near 18°54'08"N 101°34'30"E, 250–400 m elevation, near village in disturbed evergreen forest, 01 September 1999, M. Baltzer. BOLIKHAMXAY PROVINCE, Khamkeut District, Nape border area: FMNH 257974–983, wet evergreen forest, 15–19 March 1997, D. Davenport. KHAMMOUAN PROVINCE, Boualapha District, Hin Nam No National Biodiversity Conservation Area: FMNH 255076–081, near Ban Dou Village, 17°31'N 105°49'E, 200 m elevation, on leaf litter in dry stream bed in dry evergreen mixed with deciduous forest, 09 February 1998, B. L. Stuart. CHAMPASAK PROVINCE, Pakxong District, Dong Hua Sao National Biodiversity Conservation Area, Bolaven Plateau: FMNH 257984, near 15°03'55"N 106°13'03"E, 1200 m elevation, under leaf litter in wet evergreen forest, 25 September 1999, B. L. Stuart and H. F. Heatwole. CHAMPASAK PROVINCE, Mounlapamok District, Dong Khanthung National Biodiversity Conservation Area: FMNH 255074–075, near Houay Khiem Stream, 14°08'N 105°22'E, 60 m elevation, on sandy road through grassland with deciduous diptero-

carp forest, 20–21 July 1998, B. L. Stuart. First country record.

Microhyla pulchra. KHAMMOUAN PROVINCE, Yommalat District, Bang Vieng Village: FMNH 255090-093, 17°20'N 104°57'E, 200 m elevation, under dry mud of buffalo wallow, 31 March 1998, B. L. Stuart. KHAMMOUAN PROVINCE, Boualapha District, Hin Nam No National Biodiversity Conservation Area: FMNH 255089, 17°34'N 105°50'E, 200 m elevation, on bank of wide stream in dry evergreen mixed with deciduous forest, 10 February 1998, B. L. Stuart. SAVANNAKHET PROVINCE, Tapanthong District, Dong Sithovane Production Forest: FMNH 257998–999, 16°02'05"N 105°43'22"E, near dirt road, 16 January 2000, R. Boonratana; FMNH 258000, 16°07'40"N 105°54'53"E, on rocky flats near stream pools, 17 January 2000, R. Boonratana. CHAMPASAK PROVINCE, Mounlapamok District, Dong Khanthung National Biodiversity Conservation Area: FMNH 255094–096, 14°09'N 105°39'E, 100 m elevation, on grassy bank of 3 x 10 m buffalo wallow in grassland with deciduous dipterocarp forest, 08 July 1998, B. L. Stuart. CHAMPASAK PROVINCE, Khong District, Ban Sonlavieng Village: FMNH 257993–996, 14°01'56"N 105°54'15"E, 100 m elevation, in rice paddy, 26 January 2000, B. Phommachat. Reported from “N.-Laos: Saneua (Muong-het)” in Huaphanh Province (Bourret 1942). First provincial records.

Micryletta inornata. BOLIKHAMXAY PROVINCE, Khamkeut District, Lac Xao: FMNH 254600–601, dry evergreen forest, 02 October and 10 November 1996, D. Davenport and H. F. Heatwole. KHAMMOUAN PROVINCE, Boualapha District, Hin Nam No National Biodiversity Conservation Area: FMNH 255120, Phou Khaonok Mountain, 17°23'N 105°45'E, 545 m elevation, on leaf litter in dry evergreen mixed with deciduous forest, 21 February 1998, B. L. Stuart; FMNH 255121, 17°17'N 105°41'E, 240 m elevation, on leaf litter among limestone boulders in dry evergreen mixed with deciduous forest, 27 February 1998, B. L. Stuart; FMNH 255122, 17°20'N 105°41'E, 500 m elevation, on leaf litter at base of tree in dry evergreen mixed with deciduous forest, 26 February 1998, B. L. Stuart; FMNH 255221, 17°30'N 105°51'E, 200 m elevation, under log in deciduous forest, 16 February 1998, B. L. Stuart. KHAMMOUAN PROVINCE, Nakai District, Phou Hin Poun National Biodiversity Conservation Area: FMNH 255123, 17°51'N 104°52'E, 220 m elevation, on leaf litter of temporary stream bed in dry evergreen mixed with deciduous forest, 17 March 1998, B. L. Stuart and T. Chanard. Reported as *Microhyla inornata* in Stuart (1999). First country record.

FAMILY RANIDAE

Amolops cremnobatus. VIENTIANE MUNICIPALITY, Kasi District, east of Mekong River, near Ban Namon Village: FMNH 258376–377, 19°04'39"N 102°08'44"E, 200–300 m elevation, M. Baltzer, 01 September 1999. BOLIKHAMXAY PROVINCE, Khamkeut District, Ban Nape border area: FMNH 258367–375, on vertical moss-covered rocks in splash zone of large waterfall in wet evergreen forest, 19–20 March 1997, D. Davenport. The type locality is in Khammouan Province (Inger and Kottelat 1998). First provincial records.

Huia nasica. HUAPHAHN PROVINCE, Vieng Tong District, Phou Louey National Biodiversity Conservation Area, Phou Louey Mountain: FMNH 255399, 20°14'N 103°12'E, 1200 m elevation,

on rocky bank of stream in hill evergreen forest, 03 May 1998, B. L. Stuart. BOLIKHAMXAY PROVINCE, Khamkeut District, Ban Nape border area: FMNH 258221, wet evergreen forest, 17 March 1997, D. Davenport. KHAMMOUAN PROVINCE, Nakai District, Nakai-Nam Theun National Biodiversity Conservation Area: FMNH 256470–471, 256491, along Houay Dreng Stream, 17°50'N 105°35'E, 600 m elevation, along small rocky stream in wet evergreen forest, 01–02 December 1998, B. L. Stuart; FMNH 256472–478, 17°58'N 105°34'E, 700 m elevation, on rocks and vegetation along cascading stream in evergreen forest, 06–07 November 1998, B. L. Stuart. FMNH 256470 and 256491 were in amplexus at the bottom of a stream pool under 75 cm of water. The Huaphahn specimen was reported as *Rana montivaga* in Stuart (1999). First country record.

Hoplobatrachus rugulosus. CHAMPASAK PROVINCE, Mounlapamok District, Dong Khanthung National Biodiversity Conservation Area: FMNH 255191, 255200, near Houay Khiem stream, 14°08'N 105°22'E, 60–100 m elevation, on bank of stream and on road in mosaic of dry evergreen forest and grassland with deciduous dipterocarp forest, 19–20 July 1998, B. L. Stuart; FMNH 255192, near Ban Nong Som Hong Village, 105°40'E 14°17'E, 100 m elevation, on sandy road away from water, 25 July 1998, B. L. Stuart; FMNH 255193–194, near Ban Thakang Village on Xe Lapou River, 14°07'N 105° 40'E, 60 m elevation, in road puddle in grassland with deciduous dipterocarp forest, 06 July 1998, B. L. Stuart; FMNH 255197–199, 14°07'N 105°29'E, 60 m elevation, in puddle in grassy area and on mud bank of pond in mosaic of dry evergreen forest and grassland with deciduous dipterocarp forest, 11–13 July 1998, B. L. Stuart. CHAMPASAK PROVINCE, Khong District, Ban Sonlavieng Village: FMNH 258192–193, 14°01'56"N 105°54' 15"E, 100 m elevation, in rice paddy, 18 July 1999, B. L. Stuart. Reported from throughout Indochina at low elevations but without specific localities in Laos (Bourret 1942), and in Laos from Khammouan Province (Stuart and Davidson 1999). First provincial record.

Limnectes gyldenstolpei. VIENTIANE PROVINCE, Xanakhm District: FMNH 261874–877, near 18°07'57"N 101°29'30"E, 300–600 m elevation, gallery evergreen mixed with bamboo and deciduous forest, November 2000, T. Hansel. Reported from “Muang Liep, Huey Kan Luang and Pon Pissay in French Laos on the Upper Mekong” (Smith 1922; as *Rana pileata*). Muang Liep is in Sayaboury Province, but I have not found the other localities. First provincial record.

Occidozyga lima. BOLIKHAMXAY PROVINCE, Khamkeut District, Lac Xao, near Lake Nam Bua: FMNH 254657, in grassy puddle at edge of dry evergreen forest, 14 October 1996, D. Davenport and H. F. Heatwole. KHAMMOUAN PROVINCE, Yommalat District, Bang Vieng Village: FMNH 255138, 17°20'N 104°57'E, 200 m elevation, on bank of small stream through rice paddy, 30 March 1998, B. L. Stuart. CHAMPASAK PROVINCE, Mounlapamok District, Dong Khanthung National Biodiversity Conservation Area: FMNH 255136, near Houay Khiem Stream, 14°08'N 105°22'E, 60 m elevation, in flooded grassland with deciduous dipterocarp forest, 20 July 1998, B. L. Stuart; FMNH 255137, near Nong Tum Pond, 14°16'N 105°20'E, 100 m elevation, in 10 x 10 m pond in grassland with deciduous dipterocarp forest, 24 July 1998, B. L. Stuart; FMNH 255139, 14°07'N

105°29'E, 60 m elevation, at edge of 20 x 20 m pond in dry evergreen forest, 11 July 1998, B. L. Stuart. CHAMPASAK PROVINCE, Khong District, Ban Sonlavieng Village: FMNH 258392–408, 14°01'56"N 105°54'15"E, 100 m elevation, in rice paddy, 18 July 1999 and 26 January 2000, B. L. Stuart and B. Phommachat. Reported from “Haut-Laos: Muong Ouneua” in Phongsaly Province (Bourret 1942). First provincial records.

Occidozyga martensii. VIENTIANE PROVINCE, Xanakhm District: FMNH 261826, near 18°07'57"N 101°29'30"E, 300–600 m elevation, November 2000, T. Hansel. BOLIKHAMXAY PROVINCE, Khamkeut District, Lac Xao: FMNH 254670, 254681, on path through dipterocarp forest and in elephant footprint in dry evergreen forest, 08 and 29 October 1996, D. Davenport and H. F. Heatwole. ATTAPEU PROVINCE, Sanamsai District, Ban Mai Village, Nong Khe Wetlands: FMNH 261823–825, 14°42'35"N 106°28'00"E, 100 m elevation, along rocky shoreline of marsh in deciduous forest, 17 September 2000, B. L. Stuart. Reported from Khammouan Province (Stuart and Davidson 1999) and Champasak Province (Teynié et al. 2004; as *Phrynoglossus martensii*). First provincial records.

Rana attigua. CHAMPASAK PROVINCE, Pakxong District, Dong Hua Sao National Biodiversity Conservation Area, Bolaven Plateau: FMNH 258251, 258348–349, near 15°04'37"N 106°08'15"E, 1000 m elevation, on vegetation along stream in wet evergreen forest or on ground in coffee plantation away from water in wet evergreen forest with coffee plantation clearings, 10–13 September 1999, B. L. Stuart and H. F. Heatwole; FMNH 258253–257, 258350, Ban Nongluang Village, near 15°04'07"N 106°12'03"E, 1100 m elevation, 20 September 1999, B. L. Stuart and H. F. Heatwole; FMNH 258264–265, 258258, near 15°03'55"N 106°13'03"E, 1200 m elevation, under leaf litter in wet evergreen forest, 21–23 September 1999, B. L. Stuart and H. F. Heatwole. XE KONG PROVINCE, Kaleum District, Xe Sap National Biodiversity Conservation Area: FMNH 258247, along Houay Alung Stream, 16°00'32"N 106°55'31"E, 920–1000 m elevation, on herbaceous leaf above side pool of large rushing stream in evergreen forest, 30 June 1999, B. L. Stuart; FMNH 258248, near 16°04'10"N 106°58'45"E, 1100–1280 m elevation, on rock 15 cm from small stream in wet evergreen forest, 06 July 1999, B. L. Stuart. First country record.

Rana chapaensis. XIENG KHOUANG PROVINCE, Pek District, Phonsavan Market: FMNH 256531–532, offered for sale alive in food market (probably collected nearby), 12 February 1999, B. L. Stuart. SALAVAN PROVINCE, Samoy District, Xe Sap National Biodiversity Conservation Area, near Ban Bee Hi Village: FMNH 262576–577, 16°08'46"N 106°56'50"E, 1220 m elevation, slow-moving muddy stream with palm trees, 04 March 1999, T. Chanard. First country record.

Rana daorum. HUAPHAHN PROVINCE, Vieng Tong District, Phou Louey National Biodiversity Conservation Area, Phou Louey Mountain: FMNH 255353–355, 20°14'N 103°12'E, 1200 m elevation, along small rocky stream in hill evergreen forest, 02–03 May 1998, B. L. Stuart. First country record.

Rana johnsi. BOLIKHAMXAY PROVINCE, Khamkeut District, Ban Nape border area: FMNH 258278, wet evergreen forest, 19 March 1997, D. Davenport; FMNH 254701–702, floodplain of

Nam Pheo River, 8 km NE of Nape, 2 km SW of Vietnam border, under stones on river floodplain through wet evergreen forest, 13 November 1996, D. Davenport and H. F. Heatwole. KHAMMOUAN PROVINCE, Nakai District, Nakai-Nam Theun National Biodiversity Conservation Area: FMNH 256511, along Houay Duen Stream, 17°57'N 105°34'E, 700 m elevation, on blade of plant 25 cm above rocky stream bank, 1 m from water, 10 November 1998, B. L. Stuart; FMNH 256512–515, along Houay Mae Stream, 17°57'N 105°35'E, 600 m elevation, on stream bank in degraded evergreen forest, 14 November 1998, B. L. Stuart; FMNH 256516, along Houay Dreng Stream, 17°50'N 105°35'E, 600 m elevation, wet evergreen forest 100 m from stream, 03 December 1998, B. L. Stuart. KHAMMOUAN PROVINCE, Boualapha District, Hin Nam No National Biodiversity Conservation Area: FMNH 255402, 17°20'N 105°41'E, 500 m elevation, on leaf litter near pool in temporary stream bed in dry evergreen mixed with deciduous forest, 25 February 1998, B. L. Stuart. First country record.

Rana lateralis. BOLIKHAMXAY PROVINCE, Khamkeut District, Lac Xao: FMNH 254713, on leaf litter in dry evergreen forest, 04 October 1996, D. Davenport and H. F. Heatwole. CHAMPASAK PROVINCE, Mounlapamok District, Dong Khanthung National Biodiversity Conservation Area: FMNH 255345–346, 14°09'N 105°39'E, 100 m elevation, away from water in grassland with deciduous dipterocarp forest, 08 July 1998, B. L. Stuart; FMNH 255403, near Houay Khiem Stream, 14°08'N 105°22'E, 60 m elevation, 100 m from pond on sandy road through grassland with deciduous dipterocarp forest, 21 July 1998, B. L. Stuart. First country record.

Rana maosonensis. BOLIKHAMXAY PROVINCE, Khamkeut District, Ban Nape border area: FMNH 258474–483, wet evergreen forest, 14–19 March 1997, D. Davenport. KHAMMOUAN PROVINCE, Nakai District, Nakai-Nam Theun National Biodiversity Conservation Area: FMNH 256517–518, along Houay Dreng Stream, 17°50'N 105°35'E, 600 m elevation, on rocky bank of stream in wet evergreen forest, 01 December 1998, B. L. Stuart; FMNH 256519–522, along Houay Ting Tou Stream, 17°58'N 105°34'E, 700 m elevation, on rocky or sandy bank of stream in evergreen forest, 06–09 November 1998, B. L. Stuart; FMNH 256523, along Houay Mae Stream, 17°57'N 105°35'E, 600 m elevation, on herbaceous leaf 0.5 m over stream in degraded evergreen forest, 14 November 1998, B. L. Stuart; FMNH 256524, along Houay Balong Stream, 17°56'N 105°34'E, 600 m elevation, on leaf litter at edge of dry stream bed in evergreen forest, 16 November 1998, B. L. Stuart. First country record.

Rana taipehensis. KHAMMOUAN PROVINCE, Nakai District, Phou Hin Poun National Biodiversity Conservation Area: FMNH 255205, 17°51'N 104°52'E, 220 m elevation, on mud bank of small pond in grassy marsh, 19 March 1998, B. L. Stuart and T. Charard. Reported from Champasak Province (Teynié et al. 2004). First provincial record.

FAMILY RHACOPHORIDAE

Chirixalus doriae. HUAPHAHN PROVINCE, Vieng Tong District, Phou Louey National Biodiversity Conservation Area, near Nam Pong River: FMNH 255213–216, 20°14'N 103°16'E, 985 m elevation, calling from blades of grass above marsh fed by small

stream in clearing of hill evergreen forest, 28 April 1998, B. L. Stuart. SAYABOURY PROVINCE, Phiang District, west of Mekong River: FMNH 257937, near 18°54'08"N 101°34'30"E, 250–400 m elevation, disturbed evergreen forest, 01 September 1999, M. Baltzer. Reported from Champasak Province (Teynié et al. 2004). First provincial record.

Chirixalus nongkhorensis. VIENTIANE PROVINCE, Phou Panang Hill Range: FMNH 263102–107, near 18°04'19"N 102°26'46"E, 300 m elevation, in bamboo near large puddle in trail through disturbed forest mixed with scrub and bamboo, 12 September 2000, B. L. Stuart and T. Hansel. VIENTIANE MUNICIPALITY, near Ban Danxang Village: FMNH 257892–894, 257898, 18°05'27"N 102°40'02"E, 190 m elevation, on vegetation above grassy marsh next to road, 13 June 1999, B. L. Stuart and D. Davenport. Reported from Champasak Province (Teynié et al. 2004). First provincial record.

Chirixalus vittatus. VIENTIANE MUNICIPALITY, near Ban Danxang Village: FMNH 257895–897, 18°05'27"N 102°40'02"E, 190 m elevation, on vegetation above grassy marsh next to road, 13 June 1999, B. L. Stuart and D. Davenport. HUAPHAHN PROVINCE, Vieng Tong District, Phou Louey National Biodiversity Conservation Area, near Nam Pong River: FMNH 255217, 20°14'N 103°16'E, 985 m elevation, calling from blade of grass above marsh fed by small stream in clearing of hill evergreen forest, 28 April 1998, B. L. Stuart. First country record.

Philautus parvulus. XE KONG PROVINCE, Kaleum District, Xe Sap National Biodiversity Conservation Area: FMNH 257938–941, near 16°04'10"N 106°58'45"E, 1200–1300 m elevation, calling from leaves of herbaceous plants or tree trunk 1–2.5 m above ground in wet evergreen forest, 07–08 July 1999, B. L. Stuart. First country record.

Rhacophorus bipunctatus. SAYABOURY PROVINCE, Phiang District, west of Mekong River: FMNH 257899, near 18°54'08"N 101°34'30"E, 250–400 m elevation, disturbed evergreen forest, 01 September 1999, M. Baltzer. First country record.

Rhacophorus calcaneus. XE KONG PROVINCE, Kaleum District, Xe Sap National Biodiversity Conservation Area: FMNH 257905–907, 257932–933, near 16°04'10"N 106°58'45"E, 1200–1300 m elevation, on leaves and branches of bushes and tree over rocky streams in wet evergreen forest, 08 July 1999, B. L. Stuart. First country record.

Rhacophorus dennysi. KHAMMOUAN PROVINCE, Nakai District, Nakai-Nam Theun National Biodiversity Conservation Area, Houay Mae Stream: FMNH 256449–450, 17°57'N 105°35'E, 600 m elevation, on herbaceous plants over stream in degraded evergreen forest, 13–14 November 1998, B. L. Stuart. Reported as *Polypedates feae* in Stuart (1999). First country record.

Rhacophorus feae. PHONGSALY PROVINCE, Phongsaly District, Phou Dendin National Biodiversity Conservation Area, Nam Sa Stream, near confluence of Nam Ou and Nam Sa Rivers: FMNH 257910, near 22°05'31"N 102°06'19"E, 600 m elevation, on 30 cm diameter mid-stream rock in 2 m wide swift rocky stream in hill evergreen forest, 20 October 1999, B. L. Stuart and H. F. Heatwole. First country record.

Rhacophorus orlovi. KHAMMOUAN PROVINCE, Nakai Dis-

trict, Nakai-Nam Theun National Biodiversity Conservation Area: FMNH 256455–457, along Houay Dreng Stream, 17°50'N 105°35'E, 600 m elevation, on rock and vegetation near stream in wet evergreen forest, 01–02 December 1998, B. L. Stuart; FMNH 256458, along Houay Ting Tou Stream, 17°58'N 105°34'E, 700 m elevation, on tree twig 5 m above waterfall in evergreen forest, 06 November 1998, B. L. Stuart; FMNH 256459–461, along Houay Deun Stream, 17°57'N 105°34'E, 700 m elevation, on vegetation in evergreen forest, 11–12 November 1998, B. L. Stuart; FMNH 256462–465, along Houay Dreng Stream, 17°50'N 105°35'E, 600 m elevation, on rock face or vegetation along stream in wet evergreen forest, 03–05 December 1998, B. L. Stuart. Reported as *R. calcaneus* in Stuart (1999). First country record.

Rhacophorus reinwardtii. HUAPHAHN PROVINCE, Vieng Tong District, Phou Louey National Biodiversity Conservation Area, near Nam Pong River: FMNH 255305, 20°14'N 103°16'E, 985 m elevation, on branch 3 m above marsh fed by small stream in clearing of hill evergreen forest, 27 April 1998, B. L. Stuart. SAYABOURY PROVINCE, Phiang District, west of Mekong River: FMNH 257901, near 18°54'08"N 101°34'30"E, 250–400 m elevation, disturbed evergreen forest, 01 September 1999, M. Baltzer. KHAMMOUAN PROVINCE, Boualapha District, Hin Nam No National Biodiversity Conservation Area, Phou Khaonok Mountain: FMNH 255304, 17°23'N 105°45'E, 545 m elevation, in puddle on forest floor in dry evergreen mixed with deciduous forest, 19 February 1998, B. L. Stuart. First country record.

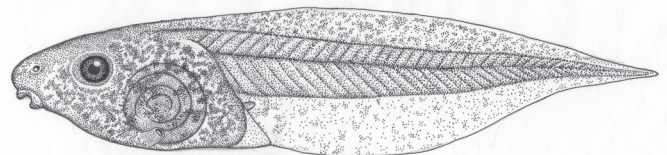
Theloderma asperum. VIENTIANE PROVINCE, Xanakham District: FMNH 261897, near 18°07'57"N 101°29'30"E, 300–600 m elevation, November 2000, T. Hansel. KHAMMOUAN PROVINCE, Boualapha District, Hin Nam No National Biodiversity Conservation Area: FMNH 255379, 17°20'N 105°41'E, 500 m elevation, on leaf 25 cm above ground along temporary stream bed in dry evergreen mixed with deciduous forest, 23 February 1998, B. L. Stuart. Reported as *Philautus asperrimus* in Stuart (1999). First country record.

Acknowledgments.—The opportunity to work in Laos was made possible by the Wildlife Conservation Society / Division of Forest Resource Conservation Cooperative Program. The Ministry of Agriculture and Forestry, Vientiane, permitted export of specimens to the Field Museum. M. Hedemark, A. Johnson, W. Robichaud, and T. Hansel greatly facilitated work in Laos. H. F. Heatwole and B. Thaovanseng assisted with fieldwork. M. Baltzer, R. Boonratana, T. Chan-ard, D. Davenport, T. Hansel, H. F. Heatwole, B. Phommachat, and D. Showler collected specimens and donated them to the author or the Field Museum. H. Voris, A. Resetar, J. Ladonski, and J. Mui facilitated examining specimens at the Field Museum. Collecting and handling of specimens in the field was in accordance with The Institutional Animal Care and Use Committee of the Field Museum (protocol no. FMNH 02-3). R. Inger shared his taxonomic opinions and critically reviewed this manuscript. Financial support was provided by The John D. and Catherine T. MacArthur Foundation, the National Geographic Society (grant no. 6247-98 with H. Heatwole), and the Wildlife Conservation Society.

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Agalychnis callidryas tadpole (KU 60006; 29 mm TL). Guatemala: El Petén: Toocog. Illustration by Julian C. Lee.