

Another new *Cyrtodactylus* (squamata: Gekkonidae) from Phong Nha - Ke Bang National Park, central Truong Son, Vietnam

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Abstract: A new species of *Cyrtodactylus* is described from the Truong Son (Annamite mountain range) of Quang Binh Province in central Vietnam. It is characterized by 3-5 transversal dorsal bands between the limb insertions, a neckband reaching the posterior margin of eye, 19-20 irregular longitudinal rows of dorsal tubercles, forelimbs with tubercles, 47-50 longitudinal rows of ventrals at midbody, 9-11 precloacal pores in an angular series in males and 16-27 enlarged precloacal scales in both sexes, 20-23 lamellae below the 4th toe, a segmented tail, and lacking of a distinct ventrolateral fold, a precloacal groove and femoral pores, as well as transversally enlarged subcaudal plates. The new species is known only from the karst forests of Phong Nha - Ke Bang National Park. Preliminary data on its natural history are provided. Copyright © 2007 Magnolia Press.

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References:

- Bain, R.H., Lathrop, A., Murphy, R.W., Orlov, N.L., Thu Cue, H., Cryptic species of a cascade frog from Southeast Asia: Taxonomic revisions and descriptions of six new species (2003) *American Museum Novitates*, 3417, pp. 1-60
- Bain, R.H., Quang Truong, N., Three new species of narrow-mouth frogs (genus: *Microhyla*) from Indochina, with comments on *Microhyla annamensis* and *Microhyla palmipes* (2004) *Copeia*, 2004, pp. 507-524
- Bain, R.H., Stuart, B.L., Orlov, N.L., Three new Indochinese species of cascade frogs (Amphibia: Ranidae) allied to *Rana archotaphus* (2006) *Copeia*, 2006, pp. 43-59
- Batuwita, S., Bahir, M.M., Description of five new species of *Cyrtodactylus* (Reptilia: Gekkonidae) from Sri Lanka (2005) *Raffles Bulletin of Zoology*, 2005 (12), pp. 351-380
- Brown, W.C. & Parker, F. (1973) A new species of *Cyrtodactylus* (Gekkonidae) from New Guinea with key to the species from the island. *Brevioria*, Cambridge Mass., 417, 1-7
- Chan - Ard, T., Grossmann, W., Gumprecht, A., Schulz, K.D., Amphibians and reptiles of peninsular Malaysia and Thailand (1999) *Wuerselen*, pp. 1-240. , Bushmaster Publications
- Darevsky, I.S., Helfenberger, N., Orlov, N., Shah, K., Two new species of the genus *Gonydactylus* (Sauria:Gekkonidae) from eastern Nepal (1997) *Russian Journal of Herpetology*, 4, pp. 89-93
- Darevsky, I.S., Orlov, N.L., New species of limb-reduced lygosomine skink genus *Leptoseps* Greer, 1997 (Sauria, Scincidae) from Vietnam (2005) *Russian Journal of Herpetology*, 12, pp. 65-68
- Das, I., A new species of *Cyrtodactylus* from the Nicobar Islands, India (1997) *Journal of Herpetology*, 31, pp. 375-382. , Athens
- David, P., Teynié, A., Ohler, A., A New Species of *Cyrtodactylus* Gray 1827 (Reptilia: Squamata: Gekkonidae) from Southern Laos (2004) *The Raffles Bulletin of Zoology*, 2004 (52), pp. 621-627
- Dring, J.C.M., Amphibians and reptiles from northern Trengganu, Malaysia, with descriptions of two new geckos: *Cnemaspis* and *Cyrtodactylus*. *Bulletin of British (1979) Museum*, 34 (5), pp. 181-241
- Grismer, L.L., New Species of Bent-Toed Gecko (*Cyrtodactylus* Gray 1827) from Pulau Aur, Johor, West Malaysia (2005) *Journal of Herpetology*, 39, pp. 424-432
- Grismer, L.L., Ming Leong, T., New Species of *Cyrtodactylus* (Squamata: Gekkonidae) from Southern Peninsular Malaysia (2005) *Journal of Herpetology*, 39, pp. 584-591
- Hikida, T., Borneo gekkonid lizards of the genus *Cyrtodactylus* (Lacertilia: Gekkonidae) with descriptions of three new species (1990) *Japanese Journal of Herpetology*, 13 (3), pp. 91-107
- King, W., A new gekkonid lizard of the genus *Cyrtodactylus* from the Philippine Islands (1962) *Fieldiana, Zoology*, 44, pp. 117-120
- Kluge, A.G., *Gekkotan Lizard Taxonomy* (2001) *Hamadryad*, 26, pp. 1-209
- Kraus, F., Allison, A., A new species of *Cyrtodactylus* (Lacertilia: Gekkonidae) from Papua New Guinea (2006) *Zootaxa*, 1247, pp. 59-68
- Ngo Van Tri & Grismer, L. L. (2006) The first record of Cardamom slender-toed gecko - *Cyrtodactylus intermedius* Smith, 1917 in Vietnam. *Proceedings of the 5th Scientific Conference of University of Natural Science, Ho Chi Minh City*, 30 November, 2006, 328
- Orlov, N.L., A new species of the genus *Vibrissaphora* Liu, 1945 (Anura: Megophryidae) from Mount

- Ngoc Linh (Kon Tum province), and analysis of the extent of species overlap in the fauna of amphibians and reptiles of the north-west of Vietnam and central highlands (2005) *Russian Journal of Herpetology*, 12, pp. 17-38
- Orlov, N.L., Ananjeva, N.B., Thu Cue, H., A new cascade frog (Amphibia: Ranidae) from central Vietnam (2006) *Russian Journal of Herpetology*, 13, pp. 155-163
 - Orlov, N.L., Thu Cue, H., Quang Truong, N., A new species of the genus *Philautus* from central Vietnam (Anura: Rhacophoridae) (2004) *Russian Journal of Herpetology*, 11, pp. 51-64
 - Orlov, N.L., Quang Truong, N., Van Sang, N., A new *Acanthosaura* allied to *A. capra* Günther, 1861 (Agamidae, Sauria) from central Vietnam and southern Laos (2006) *Russian Journal of Herpetology*, 13, pp. 61-76
 - Orlov, N.L., Ryabov, S.A., Ngok Thanh, B., Thu Cue, H., A new species of *Trimeresurus* (Ophidia: Viperidae: Crotalinae) from karst region in central Vietnam (2004) *Russian Journal of Herpetology*, 11, pp. 139-149
 - Pauwels, O., Bauer, A., Sumontha, M., Chanhom, L., *Cyrtodactylus thirakhupti* (Squamata: Gekkonidae), a new cave - dwelling gecko from southern Thailand (2004) *Zootaxa*, 772, pp. 1-11
 - Rösler, H., (1995) *Geckos der Welt. Alle Gattungen*, Urania, Leipzig, Jena, Berlin, 256 pp
 - Rösler, H., Ziegler, T., Ngoc Thanh, V., Herrmann, H.-W., Böhme, W., A new lizard of the genus *Gekko* Laurenti, 1768 (Squamata: Sauria: Gekkonidae) from the Phong Nha - Ke Bang National Park, Quang Binh Province, Vietnam (2004) *Bonner Zoologische Beiträge*, 53, pp. 135-148
 - Rooij, de, N., (1915) *The reptiles of the Indo-Australian archipelago. I. Lacertilia, Chelonia, Emydosauria*, Brill, Leiden, 384 pp
 - Schäfer, C. (1991) *Cyrtodactylus papilionoides*. - Amph./Rept. - Kartei, Sauria Supplement, Berlin, 13, 223-224
 - Sharma, R.C. (2002) *Fauna of India and the adjacent country. Reptilia (Sauria) 2. Calcutta Repro Graphics, Kolkata, 430 pp*
 - Smith, M. A. (1973) *The Fauna of British India, Reptile and Amphibia 2 - Sauria*, Reprinted 1973 by Ralph Curtis Books, Florida. 440 pp
 - Stuart, B.L., Bain, R.H., Three new species of spinule-bearing frogs allied to *Rana megatympnum* Bain, Lathrop, Murphy, Orlov and Ho, 2003 from Laos and Vietnam (2005) *Herpetologica*, 61, pp. 478-492
 - Stuart, B.L., Orlov, N.L., Chan-ard, T., A new cascade frog (Amphibia: Ranidae) from Laos and Vietnam (2005) *The Raffles Bulletin of Zoology*, 53, pp. 125-131
 - Taylor, E.H., *New oriental reptiles* (1962) *Kansas University, Scientific Bulletin*, 43, pp. 209-263. , Lawrence
 - Taylor, E.H., *Lizards of Thailand* (1963) *Scientific Bulletin*, 44, pp. 687-1077
 - Taylor, E.H. (1966) *Herpetology of the Philippine islands*. A. Asher & Co, Amsterdam, 269 pp
 - Tillack, F., Ziegler, T., Khac Quyet, L., Eine neue Art der Gattung *Boiga* Fitzinger, 1826 (Serpentes: Colubridae: Colubrinae) aus dem zentralen Vietnam (2004) *Sauria*, 26, pp. 3-12
 - Ulber, T., Grossmann, W., Ein weiterer neuer Gecko aus Zentral-Thailand: *Cyrtodactylus papilionoides* sp. nov. (Reptilia: Sauria: Gekkonidae) (1991) *Sauria*, 13, pp. 13-22
 - Ulber, T., Bemerkungen über cyrtodactyline Geckos aus Thailand nebst Beschreibungen von zwei neuen Arten (Reptilia: Gekkonidae) (1993) *Mitteilungen, aus dem Zoologischen Museum in Berlin*, 69 (2), pp. 187-200
 - Vu Ngoc Thanh, Rösler, H. & T. Ziegler (in press) On the occurrence of the four-striped bent-toed gecko, *Cyrtodactylus quadrivirgatus* Taylor, 1962, in Vietnam. *Hamadryad*, Tamil Nadu
 - Wells, R.W. & Wellington, C. R. (1985) A classification of Amphibian and Reptilia of Australia, *Australian Journal of Herpetology, Supplementary Series*, (1), 1-61
 - Wermuth, H., (1965) *Liste der rezenten Amphibien und Reptilien, Gekkonidae, Pygopodidae, Xantusiidae*, 80, pp. 1-12. , *Das Tierreich*, Berlin, 1-246
 - Youmans, T.M., Grismer, L.L., A new species of *Cyrtodactylus* (Reptilia: Squamata: Gekkonidae) from the Seribu Archipelago, West Malaysia (2006) *Herpetological Natural History*, 10, pp. 61-70
 - Ziegler, T., Herrmann, H.-W., David, P., Orlov, N., Pauwels, O.S.G., *Triceratolepidophis sieversorum*, a new genus and species

- of pitviper (Reptilia: Serpentes: Viperidae: Crotalinae) from Vietnam (2000) *Russian Journal of Herpetology*, 7, pp. 199-214. , Moscow
- Ziegler, T., Herrmann, H.-W., Ngoc Thanh, V., Khac Quyet, L., Tan Hiep, N., Xuan Chinh, C., Minh Thanh, L., Huy Tri, D., The amphibians and reptiles of the Phong Nha - Ke Bang National Park, Quang Binh Province, Vietnam (2004) *Hamadryad*, 28, pp. 19-42
 - Ziegler, T., Khac Quyet, L., A new species of reed snake, *Calamaria* (Squamata: Colubridae), from the central Truong Son (Annamite mountain range), Vietnam (2005) *Zootaxa*, 1042, pp. 27-38
 - Ziegler, T., Khac Quyet, L., A new natricine snake of the genus *Amphiesma* (Squamata: Colubridae: Natricinae) from the central Truong Son, Vietnam (2006) *Zootaxa*, 1225, pp. 39-56
 - Ziegler, T., Ohler, A., Ngoc Thanh, V., Khac Quyet, L., Xuan Thuan, N., Huy Tri, D., Ngoc Thanh, B., Review of the amphibian and reptile diversity of Phong Nha - Ke Bang National Park and adjacent areas, central Truong Son, Vietnam (2005) Programme and Abstracts, 13th Ordinary General Meeting, Societas Europaea Herpetologica (SEH), pp. 120-121. , 27 September-2 October, Bonn, Germany
 - Ziegler, T., Rösler, H., Herrmann, H.-W., Ngoc Thanh, V., *Cyrtodactylus phongnhakebangensis* sp. n., ein neuer Bogenfingergecko aus dem annamitischen Karstwaldmassiv, Vietnam (2002) *Herpetofauna*, Weinstadt, 24, pp. 11-25
 - Ziegler, T., Ngoc Thanh, V., Ngoc Thanh, B., A new water skink of the genus *Tropidophorus* from the Phong Nha - Ke Bang National Park, central Vietnam (Squamata: Sauria: Scincidae) (2005) *Salamandra*, 41, pp. 137-146
 - Ziegler, T., Ngoc Thanh, V., Khac Quyet, L., Quang Truong, N., Hallermann, J., Vu Khoi, L., Mai Hoang, T., Neue Verbreitungsnachweise einiger wenig bekannter vietnamesischer Amphibien und Reptilien (2006) *Sauria*, 28, pp. 29-40