

Anuratana Tejavej 2010: Taxonomic Review of the Cyprinid Fish Genus *Barilius* Hamilton, 1822 from Indochina (Cypriniformes: Cyprinidae). Master of Science (Fisheries Science), Major Field: Fisheries Science, Department of Fishery Biology. Thesis Advisor: Assistant Professor Prachya Musikasinthorn, Ph.D. 136 pages.

The cyprinid fish of the genus *Barilius* (Cypriniformes: Cyprinidae) are widely distributed in running waters from the Indian Subcontinent to mainland Southeast Asia and Borneo. The genus is characterized by elongate, compressed body with round belly, vertical bars on the body side, 9-17 total anal fin rays, lateral line along the lower part of the body, dorsal profile less convex than ventral profile, and absence of danioin notch. With 16 nominal species in Indochina taxonomic status of *Barilius* species in the region was problematic. Based on 511 specimens collected from the Ayeyarwaddy, Salween, Chao Phraya, Maeklong, middle Mekong, Bangpakong, Tapi basins, Malay Peninsula, and Rakhine States (Myanmar) including type materials of the nominal species, a taxonomic review of Indochinese *Barilius* has been conducted. As a result, 6 species are recognized from this study. *B. bernaiziki* was found in stream and rivers from Tavoy, Myanmar to Ranong Province, southwestern Thailand. *B. dogarsinghi* was found in the Ayeyarwaddy basin. *B. koratensis* was widespread in the Chao Phraya, Mekong, Maeklong, Bangpakong, and down to Tapi basins. *B. pulchellus* was found only in the Chao Phraya and Mekong basins. *B. ornatus* is widespread in the Ayeyarwaddy, Salween, Maeklong basins and the Maetaeng River (the upper Chao Phraya basin). *B. sp.* (an undescribed species) was found only in streams in western Rakhine States, Myanmar. *Barilius huahinensis*, *B. nanensis*, and *Danio ponticulus* were treated as junior synonyms of *B. koratensis*, while *Barilius barnoides*, *B. infrafasciatus*, *B. caudiocellatus*, and *Danio monshiensis* were treated as junior synonyms of *B. ornatus*, and *B. buddhae*, *B. pellegrini*, *Paradaniops macropterus*, and *Daniops nammuensis* were treated as junior synonyms of *B. pulchellus*.

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