A NEW SPECIES OF THE GENUS *BATASIO* BLYTH (SILURIFORMES: BAGRIDAE) FROM SHARAVATI RIVER, UTTARA KANNADA, KARNATAKA

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Abstract

*Batasio sharavatiensis* a new bagrid catfish is described from the River Sharavati, Uttara Kannada District, Karnataka, India. It differs from all the known species of the genus in having a plain body without any bands or bars, spots or stripes and also in having a long adipose dorsal fin almost adnate with the caudal fin but separated by a indistinct notch.

Keywords

*Batasio sharavatiensis* sp. novo, Karnataka, new species, River Sharavati

Abbreviations

CES - Center for Ecological Sciences, Bangalore
IISc - Indian Institute of Science, Bangalore
ZSI/SRS - Zoological Survey of India, Southern Regional Station, Chennai
ZSI - Zoological Survey of India, Kolkata

Introduction

The Western Ghats of India is one of the 18 hotspots of biodiversity and it harbours a number of endemic taxa of fauna and flora. The ichthyology of southwestern India and in particular streams of Uttara Kannada, Karnataka is very poorly known. The only work worthy of mention is of Jerdon (1844).

Four specimens of a bagrid catfish were collected from Sharavati river at Joginmatha, one kilometer upstream of Jog Falls (14°14'N and 74°49'E, 476m) (Fig. 1) during an ichthyological survey of Uttara Kannada District, by the first author. These differ from all the known eight species of *Batasio* by an unique combination of characters and as such these are described as belonging to a new species.

Counts and measurements are those used by Jayaram (1999).

*Batasio sharavatiensis* sp. nov.

(Figs. 2-4)

Holotype: Female, 8.iii.1998, River Sharavati (14°14'N, 74°49'E), Joginmatha, Uttara Kannada, Karnataka, coll. Anuradha Bhatt, ZSI/SRS F 6419, 99.0mm SL.


Material examined

*Batario travancoria* Hora & Law, ZSI F 13449/1, 56.5mm SL, Peruntenaruvi, a tributary of the Pamba River at Edakadathy; two ex., 59.0 and 65.0mm SL, Kolathupuzha, a tributary of the Kallada river; one ex., 74.0mm SL, Chittar River, Palode; one ex., 79.0mm SL, Kallada River, four miles east of Thenmalai, ZSI/
SRS F 3436; one ex., 65.0mm SL, Deviyar River at Mannambandam, Kottayam District, Kerala, coll. Erick Ahlander and Suzanne Wejland.

Distribution
India: River Sharavati, Uttara Kannada District, Karnataka.

Etymology
Named after Sharavati River.

Diagnosis
*Batasio sharavatiensis* sp. nov. is differentiated from all the so-far known eight species of *Batasio* by its plain colourless body, without any bars or bands, spots or stripes and the long adipose dorsal fin almost confluent with the caudal but for a narrow notch.

Description
Morphometric data are shown in Table 1. Body laterally compressed. Head globular, rounded anteriorly. Dorsal profile arched, rising deeply up to base of dorsal fin. Dorsal fin with one smooth spine and 7(3) and 8(1) branched rays. Pectoral fins with one spine serrated along inner edge with 11(3) and 12(1) antrorse teeth. Pelvic fins with one simple and five branched rays. Anal fin with three simple, 14 branched (2) and four simple and 12(2) branched rays. Caudal fin 8+7(2) and 7+8(2) rays. Gill rakers on the first gill arch 3+5(1). Occipital process short 1.0 or 1.5 times in its length and not reaching basal bone of dorsal fin. Median longitudinal groove inconspicuous, covered with thick skin. Barbels four pairs, all shorter than head, not very fleshy, not annulated; outer and inner mandibular barbels inserted horizontally at same level.

Colouration: When live, ash gray all over, ventral side lighter
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than dorsal. In formalin preserved specimens adipose dorsal fin and upper side of body darker than ventral side. Body plain without any bars or bands, spots or stripes.

Discussion
The new species has been collected from a poorly explored area in respect of its rich fauna. The only other species which is close to it is Batasio travancoria Hora & Law described from river Chittar, Kallada and Pamba in southern Kerala. This species has not been so far reported from any other locality outside of Kerala or elsewhere in the Western Ghats (Jayaram, 1999). Easa and Shaji (1997) considered it as very rare. The only recent records are of Devi et al. (1996), Shaji & Easa (1996-1997, 1998). The new species is unique in the sense that of all the eight species known so far of this genus this is the only one with a plain body without any colour markings. The closest ally is Batasio travancoria which has a lateral stripe along the lateral line, a faint shoulder spot, a shorter adipose dorsal fin separated from the caudal fin by a distinct gap, a short anal fin with 12-15 (vs 15-18 rays), caudal fin with 18-19 (vs 15 rays). The eye diameter is 32.2-36.8% in head length (vs 17.2-18.7). Also the caudal peduncle is shorter in the new species than in B. travancoria 17.4-18.3% in SL (vs 11.1-13.5).

Ng and Kottelat (2001) in their review of the genus Batasio from Indo-china recognized four species: B. battasio (Hamilton – Buchanan, 1822), B. tengana (Hamilton-Buchanan, 1822), B.
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travancoria Hora & Law, 1941 and B. pakistanicus Mirza & Jafn, 1989. Mo (1991) considered Chandramara chandramara (Hamilton-Buchanan) as a synonym of Batasio rama Bleeker, but Ng and Kottelat (2001) thought otherwise. These authors after examining specimens of Batasio from Indo-china (as defined by Kottelat, 1990) opined that four species B. affinis Blyth, B. dayi Vinciguerra, B. havmoller (Smith) and B. tigrinus are the only valid ones found outside India. The last three species have been resurrected from the synonymy of B. tengana. All these four species are with bars or bands, spots or stripes and are not plain-bodied as B. sharavatensis sp. nov. B. pakistanicus, whose generic affinity has been doubted, has a black humeral spot with a dark streak on the dorsum. The remaining two Indian species B. tengana and B. batasio differ from the new species on the shape of the adipose fin and colouration. The latter species has a dark stripe along the lateral line and another above. B. tengana has five broad bands descending from the dorsal surface to the lateral line. However, the photo of the example UMMZ 209009 published by Ng and Kottelat (2001: p. 505, fig. 7) is without any band, but the humeral spot is distinct. The colour might have faded due to long preservation.

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