

The burmese trout *Raiamas guttatus*
(Day, 1870) (Cypriniformes: Cyprinidae) in
South Sumatra revealed its southernmost
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The burmese trout *Raiamas guttatus* (Day, 1870) (Cypriniformes: Cyprinidae) in South Sumatra revealed its southernmost record of its distributional range

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Abstract

One specimen of Burmese Trout *Raiamas guttatus* (Day, 1870) was caught on 17 February 2018 in the Blungun River, South Sumatra Province, Indonesia. This specimen revealed a southernmost record of *R. guttatus* in its distributional range.

Key words: Cyprinidae, *Raiamas guttatus*, Indonesia, freshwater, river, distribution.

Introduction

Raiamas is one of the smallest genera of Cyprinidae that represent the largest freshwater teleost family in the world (Manda *et al.* 2018). Presently, the genus *Raiamas* contains 16 valid species, two from Asia and 14 from Africa (Liao *et al.* 2012; Manda *et al.* 2018). Individuals of the Burmese Trout *Raiamas guttatus* (Day, 1870) occur on Southeast Asia mainland from Myanmar, Laos, Thailand, Vietnam and Malay Peninsula (Rainboth 1996; Froese & Pauly 2019). This species prefers gravel substrate in clear, swift, small streams up to rapidly flowing stretches of large rivers (Rainboth 1996). Adult usually in clear water with moderate to swift current; juveniles in quiet pool further downstream (Kottelat 2001).

Raiamas guttatus is a rarely seen fish, but usually taken in markets (Rainboth 1996; Froese & Pauly 2019). Due to this reason, it is not a surprise if *R. guttatus* has overlooked along its geographical distribution range. In Indonesia, the presence of *R. guttatus* has been reported for the first time from Sumatra by Tan & Kottelat (2009). The present record is considered the 2nd appearance for this species from Indonesia. The present record *R. guttatus* in Blungun River represents the southernmost record of this species in its known distributional range.

Materials and Methods

Blungun river, where the fish specimen was collected, is located at an isolated hilly forest in South Sumatra province (Figure 1 & 2). One specimen of *R. guttatus* (Figures 3-5) was collected using hook line on 17 February 2018. This specimen was preserved in 90% alcohol and deposited at the collection of the Zoology Museum of Biology Department, Sriwijaya University, South Sumatra (Muszoo/Icth/Deposit/Coll.01.17022018). Diagnostic meristic and morphometrics were documented (shown in Table 1).

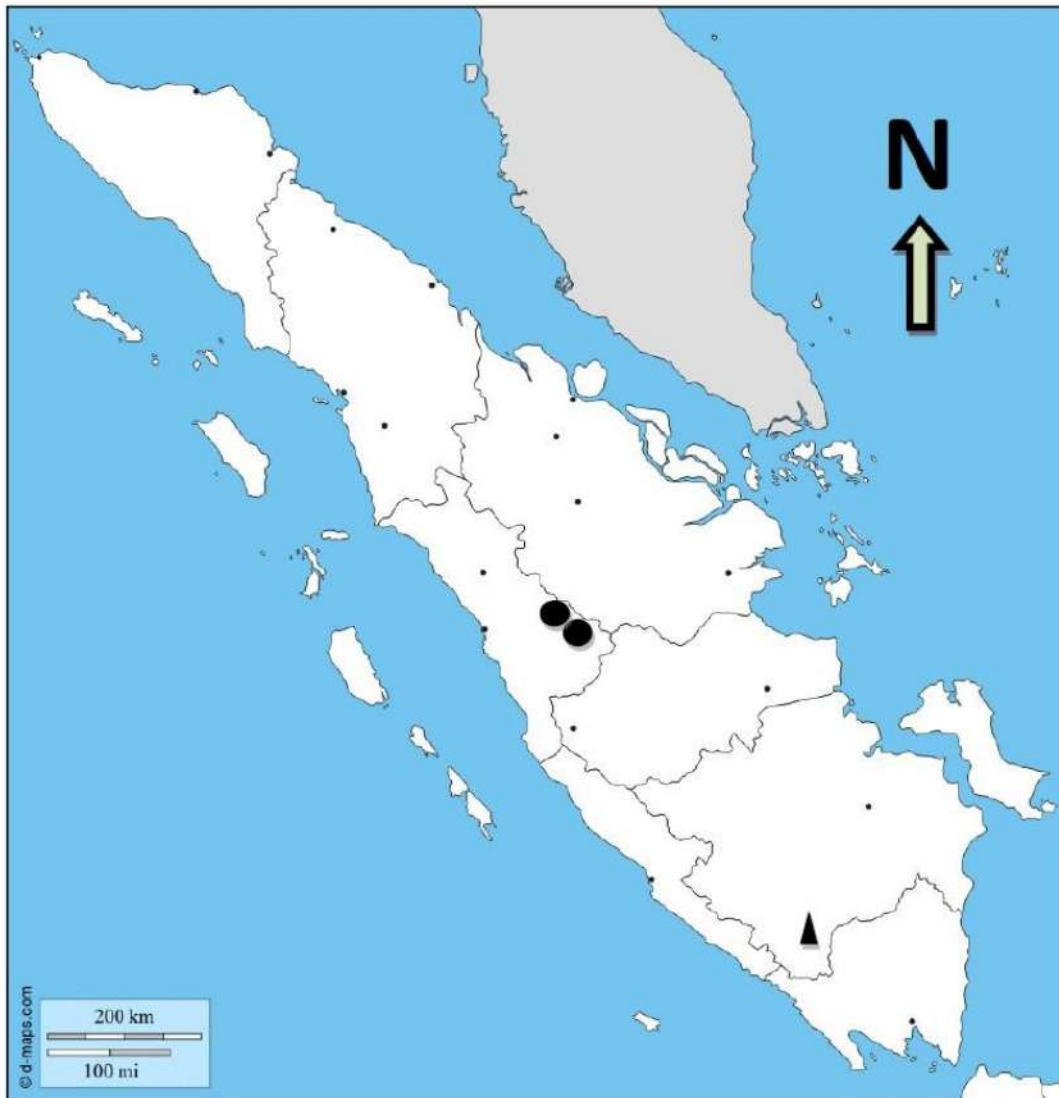


Figure 1. Map showing the known distribution of *R. guttatus* in Sumatra, circle is previous known and triangle is recent distribution record.



Figure 2. Blungun River, location where *R. guttatus* found in South Sumatra Province (Photo: Muhammad Iqbal).



Figure 3. *Raiamas guttatus*, Blungun River, South Sumatra Province (Photo: Muhammad Iqbal).



Figure 4. Head pattern of *R. guttatus* showing large mouth and jaw extending backwards far behind eye (Photo: Muhammad Iqbal).



Figure 5. Spots in body of live individual of the *R. guttatus* (Photo: Muhammad Iqbal).

Results and Discussions

The specimen of *R. guttatus* showed the following set of characters: mouth large, jaw extending backwards far behind eye; and body with spots that are slightly larger than a single scale (particularly when a live) (Figs. 3-5). These characters are fitted well with description of *R. guttatus* given by Rainboth (1996) and Kottelat (2001).

Raiamas guttatus has been record in Sumatra, Kiliran Jao and Sungai Dareh (Tan & Kottelat 2009). Both sites are located in West Sumatra Province, central Sumatra (00° N). The present record of *R. guttatus* in Blungun River of South Sumatra Province revealed southernmost record of this species in its distributional range. This record is about 400 km distance from previous known records in Sumatra.

Table 1. Comparison of meristic characters of *Raiamas guttatus* found in Blungun River, South Sumatra.

Character	Meristic
Number of specimen	1
Dorsal fin	II, 6
Anal fin	III, 9
Pectoral fin	I, 12
Lateral line scales	48+3
Predorsal scales	28
Character	Morphometric (cm)
Total length	16.8
Standard length	13
Head length	3.4
Body depth	2.7
Snout length	0.9
Eye diameter	0.7

As unusual fish species found in markets, *R. guttatus* must be one most rarely species in Sumatra. Our finding of a specimen of *R. guttatus* on South Sumatra is part of a spate of new distribution records of rarely freshwater species of Cyprinid in Sumatra. This appears most likely to relate to rapidly increasing interest in fishes among local researchers and ichthyologists on the island, as well as easier access to references and internet (Iqbal & Yustian 2016; Iqbal et al. 2017a, b; Iqbal et al. 2018a, b). Further ichthyological exploration in Sumatra might revealed more species both new to science and as a new record for Indonesia.

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