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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 an 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.

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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).

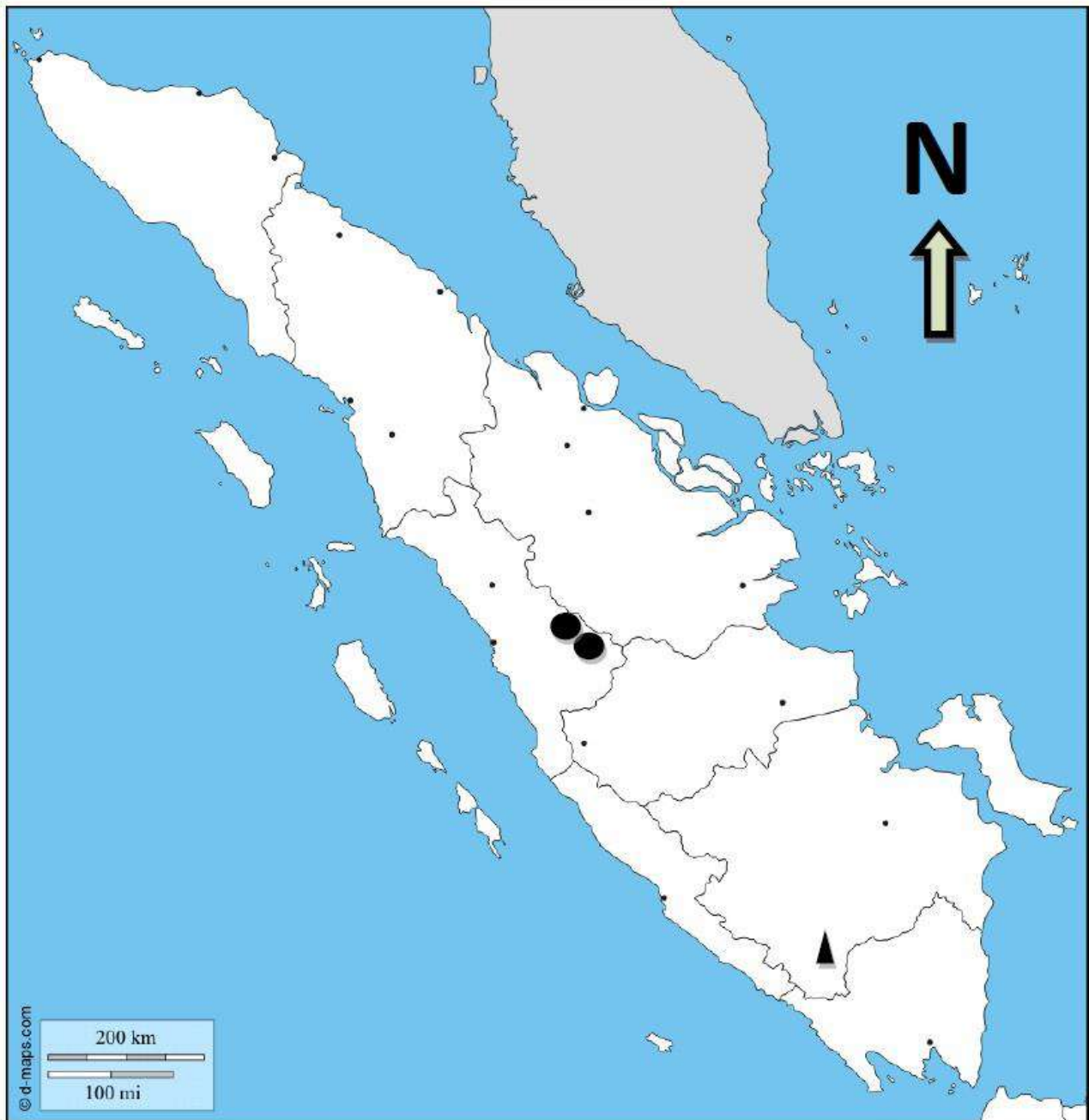


Figure 1. Map showing the known distribution of *R. guttatus* in Sumatra, circle is previous known and triangle is recent distribution record.



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).



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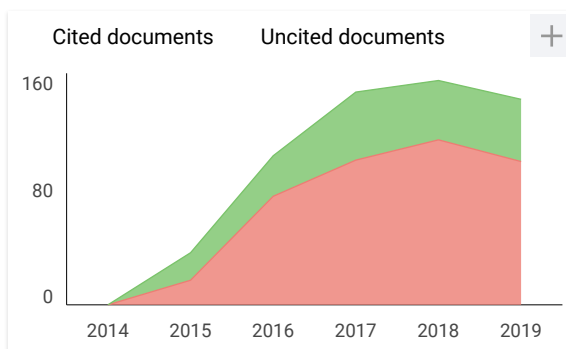
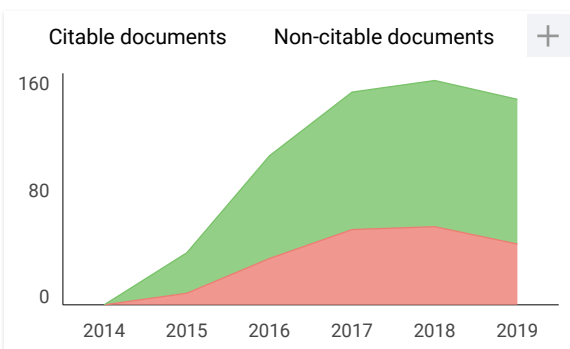
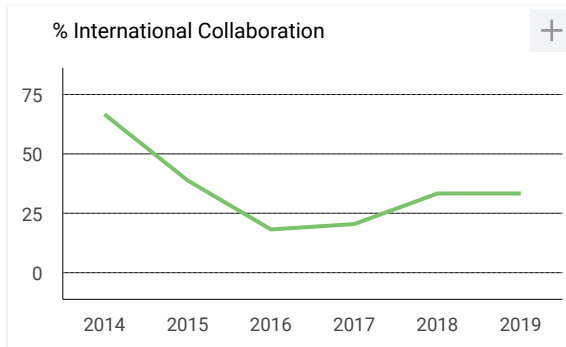
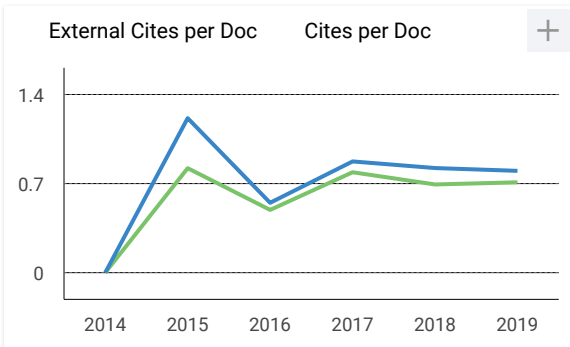
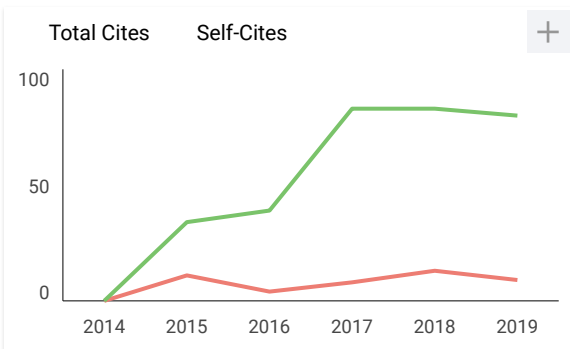
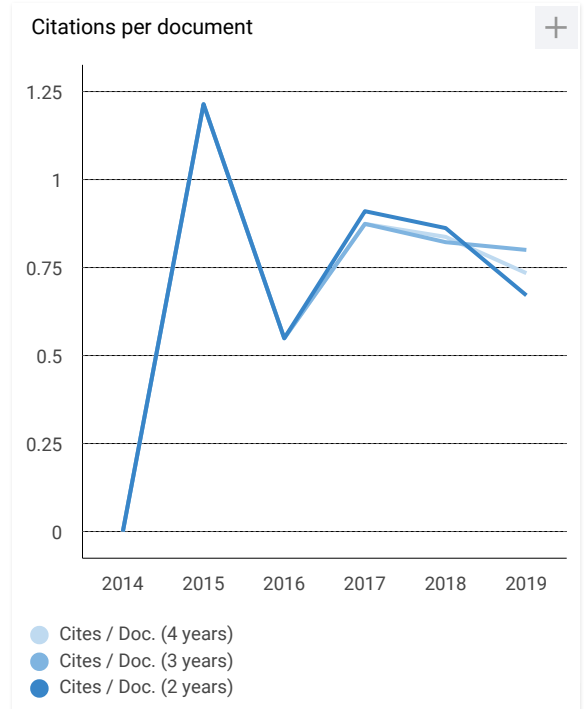
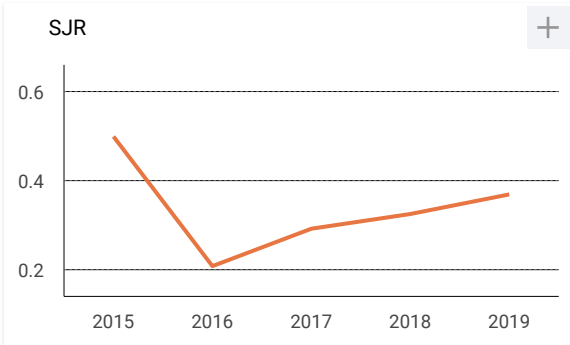
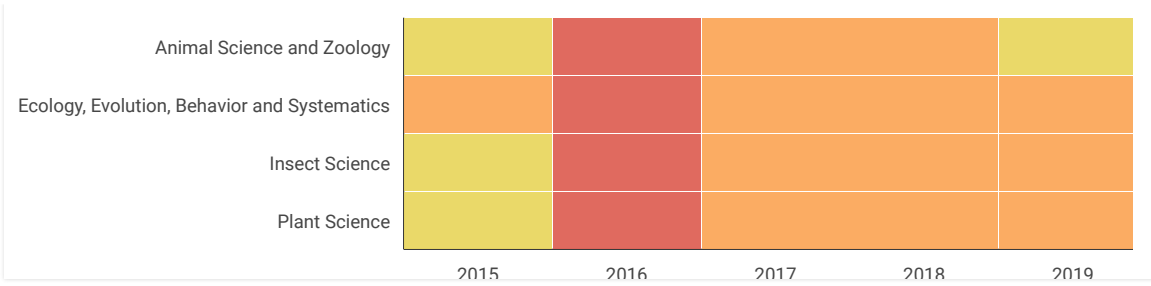


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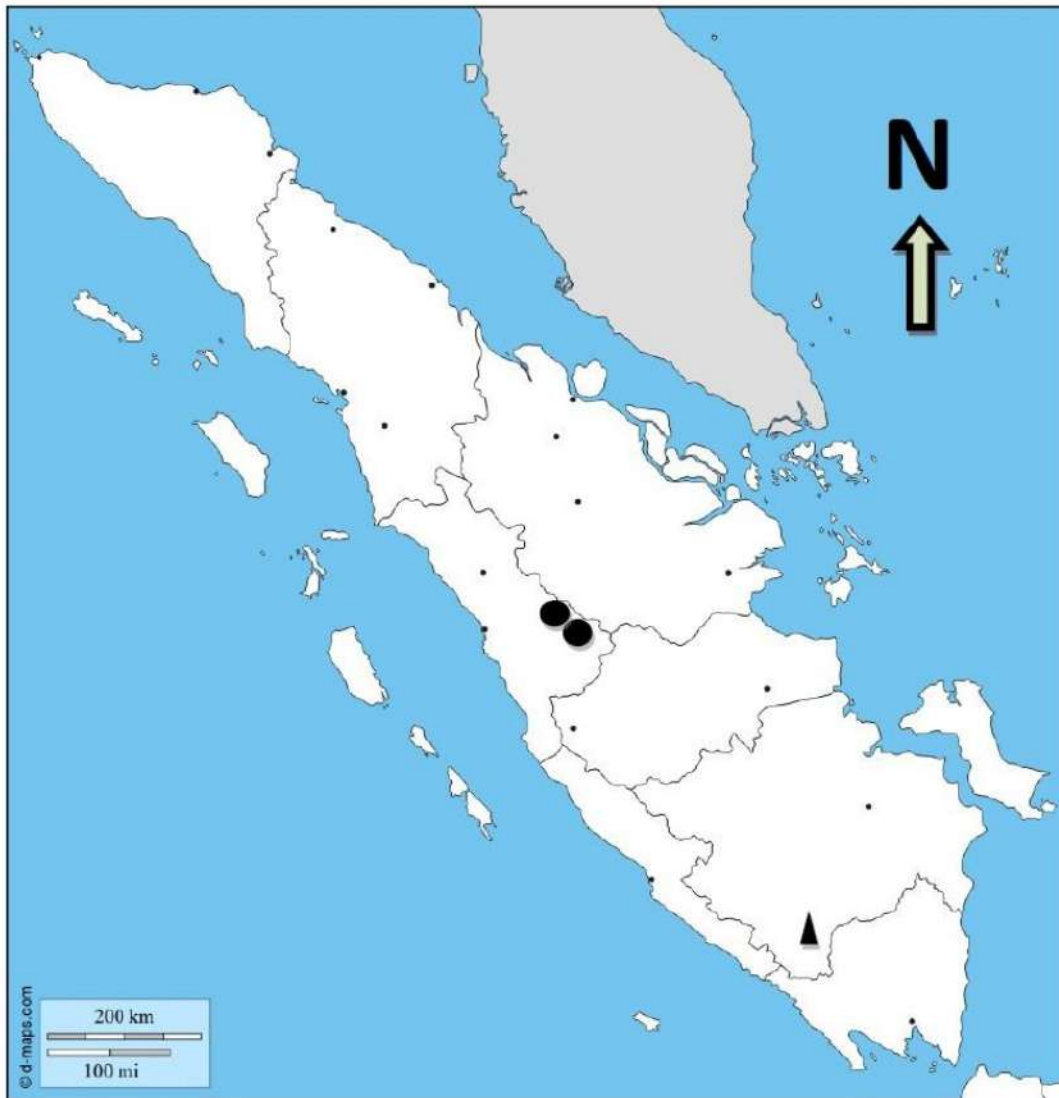


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**FORMAT PENILAIAN (VALIDASI & PEER REVIEW)
LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU *PEER REVIEW*
KARYA ILMIAH : JURNAL ILMIAH**

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

Penulis Artikel Ilmiah : Arum Setiawan

Identitas Jurnal Artikel Ilmiah : a. Nama Jurnal : Ecologica Montenegrina
b. Nomor/Volume/Hal : 1/30/39-44
c. Edisi (bulan/tahun) : Januari/2020
d. Penerbit : Center for Biodiversity of Montenegro
e. Jumlah Halaman : 6

Kategori Publikasi Jurnal Ilmiah : Jurnal Ilmiah Internasional Bereputasi
(beri \surd pada kategori yang tepat) Jurnal Ilmiah Internasional
 Jurnal Ilmiah Nasional Terakreditasi S1, S2
 Jurnal Ilmiah Nasional Terakreditasi S3, S4
 Jurnal Ilmiah Nasional tidak Terakreditasi

I. Hasil Penilaian Validasi :

No.	ASPEK	URAIAN/KOMENTAR PENILAIAN
1.	Indikasi Plagiasi	2 %
2.	Linearitas	Sudah linier dengan bidang biologi konservasi

II. Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Maksimal Jurnal Ilmiah (isikan di kolom yang sesuai)					Nilai Akhir Yang Diperoleh
	Internasional Bereputasi (Maks 40)	Internasional (Maks 20)	Nasional Terakreditasi S1, S2 (Maks 25)	Nasional Terakreditasi S3, S4 (Maks 20)	Nasional tidak Terakreditasi (maks 10)	
Kelengkapan dan Kesesuaian unsur isi jurnal (10%)	4					4
Ruang lingkup dan kedalaman pembahasan (30%)	12					12
Kecukupan dan Kemutakhiran data/informasi dan metodologi (30%)	12					12
Kelengkapan unsur dan kualitas penerbit (30%)	12					12
Total = (100%)	40					40
Kontribusi Pengusul (Penulis Pertama /Anggota Utama)	Penulis Utama (0,6 x 40) = 24					24

KOMENTAR/ULASAN *PEER REVIEW*

• Kelengkapan dan Kesesuaian Unsur:	Paper terkait deskripsi ikan <i>Raiamas guttatus</i> di Sumatera Selatan. Isi paper sudah memenuhi kaidah-kaidah karya ilmiah dan sudah sesuai dengan bidang biologi konservasi
• Ruang Lingkup dan Kedalaman Pembahasan:	Hasil penelitian dibahas secara komprehensif dengan penyampaian pembandingan dari temuan-temuan penelitian lainnya dan teori terkait. Referensi yang diacu dalam pembahasan sudah cukup update untuk bidang kajian ini.
• Kecukupan & Kemutakhiran Data & Metodologi:	Data-data hasil penelitian sudah baik dan didukung peta lokasi sampling dan gambar yang ditampilkan menarik. Data didapatkan dengan menggunakan metode yang sudah standard.
• Kelengkapan Unsur & Kualitas Penerbit:	Penerbit Center for Biodiversity of Montenegro berkualitas baik, tidak termasuk predatory publisher, dan jurnal masuk di Q2.

Surabaya, 15 Mei 2020

Penilai 1

A handwritten signature in black ink, appearing to be 'Hery Purnobasuki', written in a cursive style.

Prof. Hery Purnobasuki, M.Si., Ph.D.

NIP 196705071991021001

Unit Kerja : Jurusan Biologi FST Unair

Bidang Ilmu : Biologi

Jabatan/Pangkat : Guru Besar/ Pembina Utama Madya

FORMAT PENILAIAN (VALIDASI & PEER REVIEW)

LEMBAR

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No.	ASPEK	URAIAN/KOMENTAR PENILAIAN
1.	Indikasi Plagiasi	2 %
2.	Linearitas	V

II. Hasil Penilaian Peer Review :

Komponen Yang Dinilai	Nilai Maksimal Jurnal Ilmiah (isikan di kolom yang sesuai)					Nilai Akhir Yang Diperoleh
	Internasional Bereputasi (Maks 40)	Internasional (Maks 20)	Nasional Terakreditasi S1, S2 (Maks 25)	Nasional Terakreditasi S3, S4 (Maks 20)	Nasional tidak Terakreditasi (maks 10)	
Kelengkapan dan Kesesuaian unsur isi jurnal (10%)	4					3
Ruang lingkup dan kedalaman pembahasan (30%)	12					11
Kecukupan dan Kemutakhiran data/informasi dan metodologi (30%)	12					11
Kelengkapan unsur dan kualitas penerbit (30%)	12					12
Total = (100%)	40					37
Kontribusi Pengusul (Penulis Pertama /Anggota Utama)	Journal Ecologica Montenegrina SJR 0,37. Penulis Utama. Nilai maksimal 92,5%. Nilai Pengusul : $0,6 \times 0,925 \times 40 = 22,2$					
KOMENTAR/ULASAN PEER REVIEW						
• Kelengkapan dan Kesesuaian Unsur:	Tidak semua terpenuhi, tujuan dan kesimpulan tidak jelas.					
• Ruang Lingkup dan Kedalaman Pembahasan:	Masih dalam lingkup bidang biologi. Pembahasan tidak menyeluruh.					
• Kecukupan & Kemutakhiran Data & Metodologi:	Data dianggap cukup dan metode sudah umum dilakukan peneliti.					
• Kelengkapan Unsur & Kualitas Penerbit:	Penerbit memenuhi kriteria baik.					

Yogyakarta, 8 Juni 2020

Penilai 2

tanda tangan

Prof. Dr. Suwarno Hadisusanto

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Bidang Ilmu : Biologi/Ekologi

Jabatan/Pangkat : Guru Besar/ Pembina Utama Madya