



First record of *Lobocheilos ixocheilos* Kottelat & Tan, 2008 (Cypriniformes, Cyprinidae) in South Sumatra province, Indonesia

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Abstract

Lobocheilos ixocheilos is only known from 2 major riverine systems in Sumatra and Kalimantan, Indonesia. In Sumatra, it was previously known only from the Batang Hari basin and reported from localities in the provinces of West Sumatra and Jambi. This paper provides the first record of *L. ixocheilos* from the Musi basin in South Sumatra province, thereby extending the distribution of the species approximately 150 km southwest from the previous record.

Key words

Distribution; freshwater; cyprinid; Kerinci Seblat National Park; South Sumatra; first record; Musi basin.

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Introduction

The freshwater fish faunas of East and Southeast Asia are dominated by cyprinids (Rainboth 1991). Cyprinidae is the biggest family of freshwater fish, but the phylogenetic relationships among its higher-level taxa are not yet fully resolved (Wang et al. 2012). Species are being described and genera revised on a broad front (Nelson 2006). *Lobocheilos* is a genus of cyprinid fishes native to the mainland Southeast Asia and the islands of Sumatra, Java, and Borneo (Kottelat and Tan 2008, Ciccotto and Page 2016). Two species of *Lobocheilos*, *Lobocheilos ixocheilos* Kottelat & Tan, 2008 and *L. schwanenfeldii* Bleeker, 1854, are recorded in Sumatra, but little is known about their exact distribution because of systematic confusion and the difficulty to access and sample in their natural habitats (Kottelat and Tan 2008, Kottelat 2013).

Lobocheilos ixocheilos was described in 2008 from the Batang Hari basin (Sumatra) and the Kapuas basin (Kalimantan) (Kottelat and Tan 2008). All subsequent records of *L. ixocheilos* in Sumatra are from localities in the provinces of West Sumatra and Jambi, namely: Kiliran Jao (village along road from Sungai Dareh to Solok, West Sumatra province), Pulau Pujung (Sungai Dareh, West Sumatra province) and Jambi province (without any details) (Kottelat and Tan 2008, Kottelat 2013). In this paper, we report the first record of *L. ixocheilos* in the Musi basin of South Sumatra province, which extends the species distribution 150 km from the previous distribution range.

Methods

A few unpreserved specimens of *Lobocheilos ixocheilos* were obtained from local fishermen during fieldwork



Figure 1. Muara Kulam River of Musi basin, location where *L. ixocheilos* found in South Sumatra province (Photograph by M. Iqbal).

carried out on 19–22 April 2016 in the Muara Kulam River ($02^{\circ}48'10.6''$ S, $102^{\circ}21'11.2''$ E), a tributary of the Lematang drainage in the Musi basin. This river is surrounded by secondary dipterocarp forest with little encroachment and a low intensity of selective illegal logging by local people (Fig. 1). Administratively, the site is located in Muara Kulam village, Rawas Ulu subdistrict, Musi Rawas district, South Sumatra province. The topography is hilly forested at 508 m above sea level. This area is under the management of subsection V or SPTN V (SPTN = Seksi Pengelolaan Taman Nasional Wilayah, or Regional Park Management Section) of Kerinci Seblat National Park (Anonymous 2016). Due to the area being part of a national park, collection of specimens is prohibited, unless special permits are obtained. Unfortunately, as we did not have a permit for collecting specimens during our fieldwork, no voucher specimens were retained.

Results

New records. Indonesia, Sumatra, Musi basin, Muara Kulan River, ($02^{\circ}48'10.6''$ S, $102^{\circ}21'11.2''$ E), Muhammad Iqbal, Arum Setiawan, Ina Aprilia, Muhammad Isa, Indra Yustian, 19 April 2016, photographed, 8 individuals.

Identification. The specimens were identified as *Lobocheilos ixocheilos* based on the possession of diagnostic

morphological characters. Following Kottelat and Tan (2008), the *L. ixocheilos* is distinguished from the other species of *Lobocheilos* of Java, Sumatra, and Borneo by the presence of an obvious, broad, black midlateral stripe, not extending on median caudal rays, and running above the lateral line on the middle half of its length; no black blotch on the end of of caudal peduncle and crescentic marks on scale pockets (apex pointing forwards); 1 pair of barbels, less than eye diameter; pectoral fin reaching to $\frac{3}{4}$ of distance to pelvic-fin origin; pelvic-fin reaching between anus and anal-fin origin; when folded backwards, tip of dorsal fin reaching between vertical through anus to anal-fin origin; and head length less than body depth at dorsal-fin origin. All of these characters were found in specimens of *Lobocheilos* from the Muara Kulam River (Musi basin), South Sumatra province (Figs 2–3). To confirm our identification, we have asked Dr Tan Heok Hui (Lee Kong Chian Natural History Museum, Singapore) expert working on the genus *Lobocheilos* in Southeast Asia, to confirm our identification using photographs, and it was confirmed that the specimens belong to *L. ixocheilos*.

Discussion

Record of *Lobocheilos ixocheilos* in Muara Kulam River of Musi basin is the first record of this species in South Sumatra province. Previous records of *L. ixocheilos* in Sumatra are from localities in the provinces of West Sumatra and Jambi, namely: Kiliran Jao and Pulau Pujung (West Sumatra province) and Jambi province (without any details) (Kottelat and Tan 2008, Kottelat 2013).

The distance between Muara Kulam River of Musi basin with previous localities where *L. ixocheilos* previously found in Sumatra is about 150 and 250 km. Major studies of cyprinid faunas in Southeast Asia have occasionally been confined to single drainage basins (Rainboth 2001). For the example, in Sumatra, a fish fauna survey in Batang Hari basin conducted by Tan and Kottelat (2008) has given better understanding on cyprinid fish diversity in this area, compare to other basins in the island. For a



Figure 2. Specimen of *Lobocheilos ixocheilos* caught on 19 April 2016 from the Musi basin, Muara Kulam River, South Sumatra (Photograph by M. Iqbal).



Figure 3. Close view of head of *Lobocheilos ixocheilos* showing the mouth pattern (Photograph by M. Iqbal).

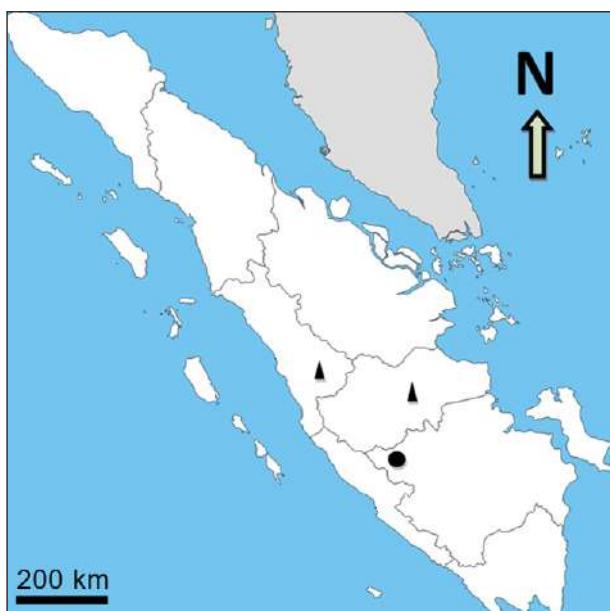


Figure 4. Distribution of *Lobocheilos ixocheilos* in Sumatra. Black triangles are the previous known localities of the species in the Batang Hari basin. Black circle is the recent record from the Musi basin.

little-known species such as *L. ixocheilos*, new records are important contributions for understanding species diversity and biogeography, among other biological topics. As reported in this paper, the new record of *L. ixocheilos* has helped to improve the knowledge of the species as it extends the distribution range of the species further southwest (Fig. 4).

Acknowledgements

We are grateful to GIZ Bioclimate and Department Biology of Sriwijaya University for funding our field work in Muara Kulam River, Kerinci Seblat National Park, South Sumatra Province (under grant FA 83216945). Special thanks to the Kerinci Seblat National Park office region of South Sumatra province and our team for assisting us in the field. We thank Dr Tan Heok Hui (Lee Kong Chian Natural History Museum, Singapore) for helping us to confirm our identification. Finally, we also thank the reviewers who helped to improve this paper.

Authors' Contributions

MI, AS, and IY collected the data and wrote the text, IA and MI2 facilitated field work, and MI made the analysis.

References

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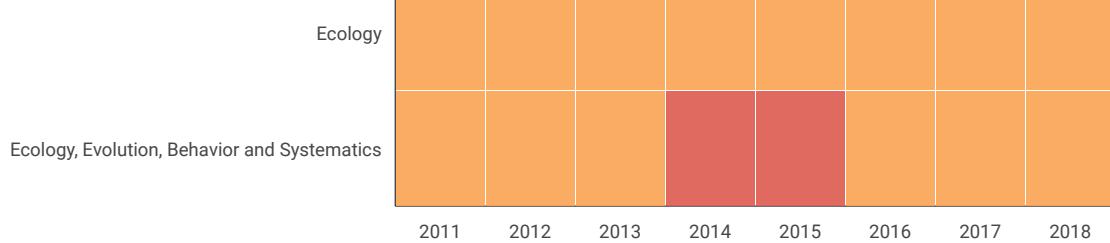
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Subject Area and Category	Agricultural and Biological Sciences Ecology, Evolution, Behavior and Systematics
	Environmental Science Ecology
Publisher	Centro de Referencia em Informacao Ambiental
Publication type	Journals
ISSN	1809127X
Coverage	2010-ongoing
Scope	Check List is a peer-reviewed online journal, devoted to publishing biodiversity data related to species' geographic distribution. Thus, our primary mission is to fill the so-called Wallacean shortfall (Lomolino 2004) and to improve our knowledge of how life is distributed on the planet in order to better preserve it. These data are essential for studies on biogeography and provide a baseline for the conservation of biodiversity. The first step to undertaking effective conservation action is to maintain records of the distribution of species. Therefore, the journal was created from the need to publish basic data on species distribution of any taxon in a timely and open manner, which are often neglected by traditional journals. Check List is a bimonthly peer-reviewed online journal, and will consider for publication: -distribution summaries of a supraspecific taxon in a broad geographic area (e.g., hemisphere, country, biome), as a review of the distribution of a taxon in the given area. -annotated list of species, of a given taxon in a strict geographic area, with comments and illustrations on the identifications, based on original data. -notes on the geographic distribution, reporting new records of one or more species while providing a complete overview on the known distribution of the treated taxa. -book reviews on books related to biodiversity, biogeography, niche modeling, or any associated field that uses species distribution as its primary data source. -opinions on relevant subjects for the journal's mission and scope

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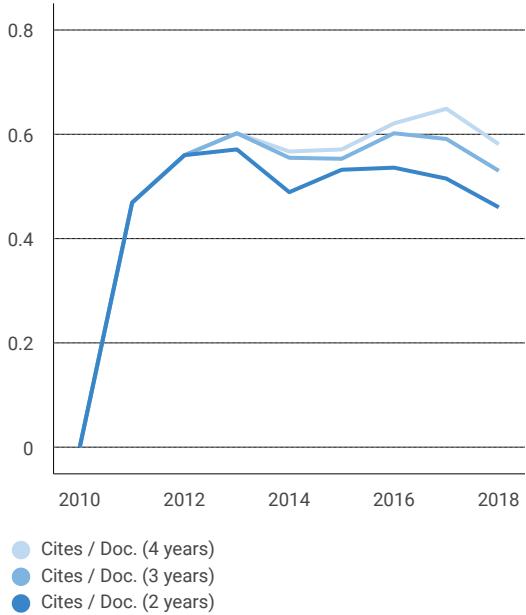
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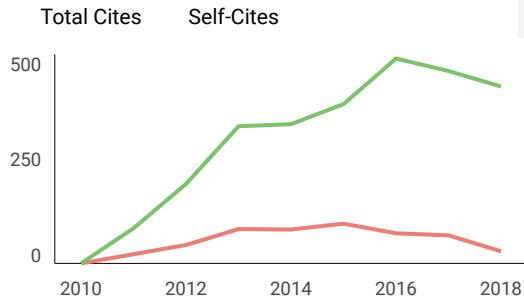


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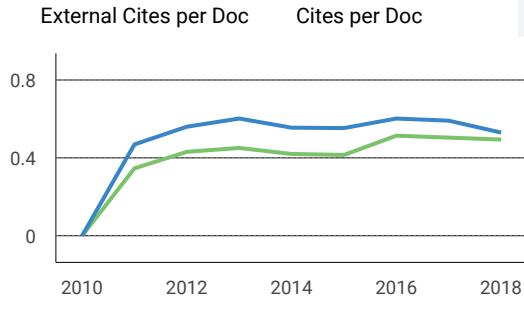
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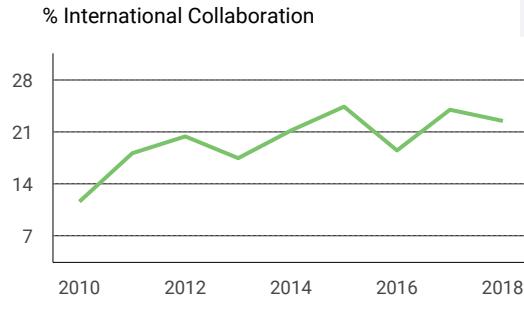


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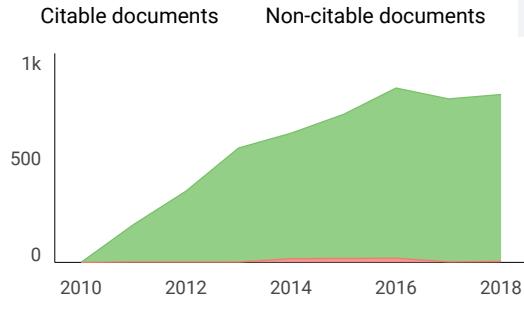


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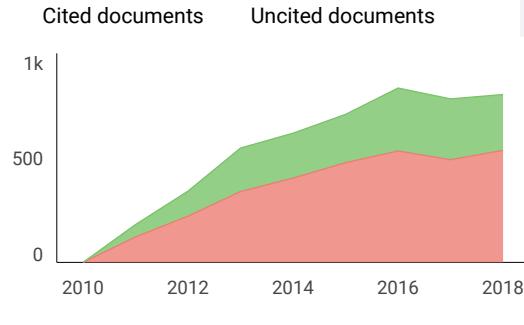
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Notes on Geographic Distribution

First record of the genus *Aulacophilus* Smith, 1869

(Hymenoptera, Crabronidae) in Panama

Yostin J. Añino, Roberto A. Cambra

10.15560/13.6.707

03-11-2017

Unique: 737 | Total: 1236

707-709

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Annotated List of Species

Inventory of medium-sized and large mammals in the wetlands of Laguna de Terminos and Pantanos de Centla, Mexico

Mircea G. Hidalgo-Mihart, Fernando M. Contreras-Moreno, Alejandro Jesús-de la Cruz, Rugieri Juárez-López, Yaribeth Bravata de la Cruz, Luz A. Pérez-Solano, Carolina Hernández-Lara, Diana Friedeberg, Dan Thornton, Juan M. Koller-González

10.15560/13.6.711

03-11-2017

Unique: 1320 | Total: 2161

711-726

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Notes on Geographic Distribution

New state record and range extension of the Big Crested Mastiff Bat, *Promops centralis* Thomas, 1915 (Chiroptera, Molossidae), in Veracruz, Mexico

Christian Tomás Alavez Tadeo, Alvar González Christen, Nallely Verónica Rodríguez Santiago

10.15560/13.6.727

03-11-2017

Unique: 1011 | Total: 1580

727-731

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Notes on Geographic Distribution

First record of the genus *Shargacucullia* G. Ronkay & L. Ronkay, 1992 (Insecta, Lepidoptera, Noctuidae) from the Altai Mountains

Anton Volynkin, Sergey Titov, Matjaž Černila

10.15560/13.6.733

03-11-2017

Unique: 778 | Total: 1283

733-738

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***Pseudephemerum nitidum* (Hedw.) Loeske (Bryophyta) rediscovered in Brazil**

Maria Sulamita Dias da Silva, Denilson Fernandes Peralta

10.15560/13.6.739

03-11-2017

Unique: 757 | Total: 1339

739-742

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New geographical record of the lined rockskipper, *Istiblennius lineatus* (Valenciennes, 1836) from the Iranian coast of the Makran Sea (Teleostei, Blenniidae)

Hamid Reza Mehraban, Hamid Reza Esmaeili

10.15560/13.6.743

03-11-2017

Unique: 696 | Total: 1174

743-746

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First record of *Rhinella poeppigii* (Tschudi, 1845) in Brazil (Anura, Bufonidae)

Nathocley Mendes Venâncio, Marco Antonio de Freitas, Arthur Diesel Abegg, Marcelo Nogueira de Carvalho Kokubum

10.15560/13.6.747

10-11-2017

Unique: 923 | Total: 1504

747-750

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First documented record of the Silvery-cheeked Antshrike *Sakesphorus cristatus* (Wied-Neuwied, 1831) (Passeriformes: Thamnophilidae) for the state of Sergipe, Brazil

Daniela A.O. Guimarães, Juan Ruiz-Esparza, Milena Corbo, Daniela P.B. Ruiz-Esparza

10.15560/13.6.751

10-11-2017

Unique: 684 | Total: 1219

751-754

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Annotated List of Species

An ornithological survey of Vanuatu on the islands of Éfaté, Malakula, Gaua, and Vanua Lava

Michael J. Andersen, Lilly Fatdal, William M. Mauck III, Brian Tilston Smith

10.15560/13.6.755 10-11-2017

Unique: 1177 | Total: 2085 755-782

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Notes on Geographic Distribution

Range extensions of two species of *Odontophorus* (Galliformes, Odontophoridae) in the Eastern Colombian Andes

Gerson Peñuela-Díaz, Berta Helena Calonge-Camargo, Hernán Aristizabal, Juan E. Carvajal-Cogollo

10.15560/13.6.783 17-11-2017

Unique: 1131 | Total: 1814 783-788

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Annotated List of Species

Checklist of aphyllophoroid fungi (Agaricomycetes, Basidiomycota) in boreal forests of the Solovetsky Archipelago (Arkhangelsk Region, European Russia)

Oleg Ezhov, Ivan Zmitrovich, Anna Ruokolainen

10.15560/13.6.789 17-11-2017

Unique: 895 | Total: 1502 789-803

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Note on identity and distribution of *Cynometra iripa* Kostel. and *C. ramiflora* L. (Fabaceae) in the Andaman and Nicobar Islands, India

P. Ragavan, Rana T.S., K. Ravichandran, Jayaraj R.S.C, Sivakumar K, Alok Saxena, Mohan P.M

10.15560/13.6.805 17-11-2017

Unique: 628 | Total: 1107 805-812

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Alsodes vanzolinii (Donoso-Barros, 1974): a new locality in a disturbed habitat for a Critically Endangered species

Soledad Puente-Torres, Matías Barceló, Javier A. Simonetti

10.15560/13.6.813 17-11-2017

Unique: 833 | Total: 1330 813-816

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Dung beetles (Coleoptera, Scarabaeinae) from high-altitude grasslands in São Joaquim National Park, Santa Catarina, southern Brazil

Pedro Giovâni da Silva

10.15560/13.6.817 24-11-2017

Unique: 1002 | Total: 1519 817-830

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First record of *Goniopteris schaffneri* (Fée) Salino & T.E.Almeida, comb. nov. (Thelypteridaceae) and *Marattia laxa* Kunze (Marattiaceae) in the state of Hidalgo, Mexico

Adriana G. Hernández-Álvarez, Arturo Sánchez-González, Yarely Pérez-Atilano

10.15560/13.6.831 24-11-2017

Unique: 634 | Total: 1083 831-835

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New records of *Acritas bilineatus* Sørensen, 1932 (Arachnida, Opiliones, Cosmetidae) in Venezuela

Andrés García, Nestor Sánchez, Antonio De Ascencio Da Silva

10.15560/13.6.837

24-11-2017

Unique: 664 | Total: 1121

837-843

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First record of *Epophthalmia vittata* Burmeister, 1839 (Insecta, Odonata, Anisoptera) from Dhaka, Bangladesh

Gouranga Kumar Biswas, Amit Kumar Neogi, Aaratrik Pal

10.15560/13.6.845

24-11-2017

Unique: 771 | Total: 1272

845-847

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Notes on Geographic Distribution

Six freshwater microturbellarian species (Platyhelminthes) in permanent wetlands of the Coastal Plain of southern Brazil: new records, abundance, and distribution

João A. L. Braccini, Francisco Brusa, Ana M. Leal-Zanchet

10.15560/13.6.849

24-11-2017

Unique: 640 | Total: 1094

849-855

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Notes on Geographic Distribution

New records of pleasing lacewings (Neuroptera, Dilaridae) from São Paulo state, Brazil

Rogéria I.R. Lara, Nelson W. Perioto

10.15560/13.6.857

01-12-2017

Unique: 625 | Total: 1024

857-862

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Notes on Geographic Distribution

New records of *Lepidochelys olivacea* (Eschscholtz, 1829) (Testudines, Cheloniidae) provide evidence that Uruguayan waters are the southernmost

limit of distribution for the species in the western Atlantic Ocean

Daniel González-Paredes, Gabriela Vélez-Rubio, Anelise Torres Hahn, María Noel Caraccio, Andrés Estrades

10.15560/13.6.863

01-12-2017

Unique: 1046 | Total: 1571

863-869

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Notes on Geographic Distribution

Expansion of the southern limit of *Vampyrodes caraccioli* Thomas, 1889 (Chiroptera, Phyllostomidae) and first record for Santa Catarina state, southern Brazil

Sérgio Luiz Althoff, Bianca Tribess, Maria Júlia Reinert, Matheus A. R. Ferreira, Fernando Carvalho

10.15560/13.6.871

01-12-2017

Unique: 773 | Total: 1286

871-877

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List of Species

Floristic survey of the Furnas Gêmeas region, Campos Gerais National Park, Paraná state, southern Brazil

Anna L. P. Andrade, Rosemeri S. Moro, Yoshiko S. Kuniyoshi, Marta R. B. do Carmo

10.15560/13.6.879

01-12-2017

Unique: 1056 | Total: 1636

879-899

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Notes on Geographic Distribution

Initial colonization of Long Island, New York by the eastern coyote, *Canis latrans* (Carnivora, Canidae), including first record of breeding

Christopher Nagy, Mark Weckel, Javier Monzón, Neil Duncan, Michael R. Rosenthal

10.15560/13.6.901

01-12-2017

Unique: 2865 | Total: 4301

901-907

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Notes on Geographic Distribution

Updates on the distribution of the Cantor's Leaf-nosed Bat, *Hipposideros galeritus* Cantor, 1846 (Chiroptera, Hipposideridae): new records from peninsular India

Harpreet Kaur, C. Srinivasulu, T. A. Shah, G. Devender, B. Srinivasulu

10.15560/13.6.909

01-12-2017

Unique: 770 | Total: 1295

909-912

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Notes on Geographic Distribution

Apostolepis multicincta Harvey 1999 (Squamata, Dipsadidae) in Argentina

Freddy Burgos Gallardo, Jorge L. Baldo, Américo Vilte, Gustavo Scrocchi

10.15560/13.6.913

08-12-2017

Unique: 737 | Total: 1210

913-916

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Notes on Geographic Distribution

Tropidophis paucisquamis (Müller in Schenkel, 1901) (Serpentes, Tropidophiidae): first record from Paraná state and southern Brazil

Danilo José Vieira Capela, Sérgio Augusto Abrahão Morato, Julio Cesar Moura-Leite, Fernando do Prado, Gustavo O. Borges, Luiz Henrique Argolo Camilo

10.15560/13.6.917

08-12-2017

Unique: 733 | Total: 1224

917-920

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Notes on Geographic Distribution

Tachyporus nitidulus (Fabricius, 1781) (Coleoptera, Staphylinidae, Tachyporinae): first record from the state of Florida, USA

Alexander B. Orfinger, Sandor L. Kelly

10.15560/13.6.921

08-12-2017

Unique: 639 | Total: 1055

921-923

[HTML](#) [PDF](#)[Notes on Geographic Distribution](#)

New records of *Tamarix ramosissima* Ledeb. (Tamaricaceae) in basins of Western Chaco dry forest, northwestern Argentina

Edgardo Javier Ignacio Pero

10.15560/13.6.925 08-12-2017

Unique: 515 | Total: 873 925-930

[HTML](#) [PDF](#)[Notes on Geographic Distribution](#)

First record of *Lobocheilos ixocheilos* Kottelat & Tan, 2008 (Cypriniformes, Cyprinidae) in South Sumatra province, Indonesia

Muhammad Iqbal, Arum Setiawan, Ina Aprilia, Muhammad Isa, Indra Yustian

10.15560/13.6.931 08-12-2017

Unique: 910 | Total: 1409 931-933

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Non-volant mammals of the Mestre Álvaro Environmental Protection Area, state of Espírito Santo, southeastern Brazil

Edú B. Guerra, Yuri L. R. Leite

10.15560/13.6.935 08-12-2017

Unique: 1218 | Total: 1975 935-943

[HTML](#) [PDF](#)[Notes on Geographic Distribution](#)

First record of *Zoanthus gigantus* Reimer & Tsukahara, 2006 (Anthozoa, Hexacorallia) from Indian waters, South Asia

Sonia Kumari, Pariyappanal Ulahannan Zacharia, Kannanchery Ramanathan Sreenath, Vasant Kripa, Grinson George

10.15560/13.6.945 08-12-2017

Unique: 729 | Total: 1264

945-950

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Range extension and first record of *Coendou speratus* Mendes Pontes et al., 2013 (Rodentia, Erethizontidae) from a cloud forest enclave in northeastern Brazil

Edson S. B. Leal, Felipe F. Gomes-Silva, Rachel M. de Lyra-Neves, Wallce R. Telino-Júnior

10.15560/13.6.951 15-12-2017

Unique: 1102 | Total: 1822 951-957

[HTML](#) [PDF](#)[List of Species](#)

Bryophytes of the cloud forest of Pico do Marumbi State Park, Paraná, Brazil

Emanuelle L. dos Santos, Dimas M. do Carmo, Denilson F. Peralta

10.15560/13.6.959 15-12-2017

Unique: 1402 | Total: 2332 959-986

[HTML](#) [PDF](#)[Notes on Geographic Distribution](#)

***Acrocinus longimanus* (Linnaeus, 1758) (Coleoptera, Cerambycidae): first record from the province of Corrientes, Argentina**

Néstor Gerardo Valle, Mario Luis Chatellenaz, Miryam Damborsky

10.15560/13.6.987 15-12-2017

Unique: 1085 | Total: 1679 987-991

[HTML](#) [PDF](#)[Notes on Geographic Distribution](#)

Direct observation of drifting juvenile seahorse *Hippocampus trimaculatus* (Leach, 1814) beneath the offshore surface at Malacca Strait

Nur Leena Wai Sin Wong, Jun Chin Teh

10.15560/13.6.993 15-12-2017

Unique: 710 | Total: 1169

993-996

[HTML](#) [PDF](#)

Notes on Geographic Distribution

The invasive copepod *Lernaea cyprinacea* Linnaeus, 1758 (Copepoda, Cyclopoida, Lernaeidae): first record for Neuquén River, Patagonia, Argentina

María Agustina Waicheim, Guillermo Blasetti, Pedro Cordero, Carlos A. Rauque, Gustavo P. Viozzi

10.15560/13.6.997

15-12-2017

Unique: 720 | Total: 1174

997-1001

[HTML](#) [PDF](#)

Annotated List of Species

Survey of the vascular plants of Sierra Chica, the untouched area of the Paititi Natural Reserve (southeastern Tandilia mountain range, Buenos Aires province, Argentina)

María L. Echeverría, Sara I. Alonso, Viviana M. Comparatore

10.15560/13.6.1003

15-12-2017

Unique: 1312 | Total: 2302

1003-1036

[HTML](#) [PDF](#)

List of Species

Phytodiversity of Barail Wildlife Sanctuary, Assam, India: field-based observations—I. Trees and lianas

Arpita Bora, Debjyoti Bhattacharyya

10.15560/13.6.1037

15-12-2017

Unique: 1352 | Total: 2297

1037-1053

[HTML](#) [PDF](#)

Notes on Geographic Distribution

First record of *Xylophanes ploetzi* (Möschler, 1876) (Lepidoptera: Sphingidae) from Brazil

Gilcélia M. Lourido, Catarina da S. Motta

10.15560/13.6.1055

15-12-2017

Unique: 767 | Total: 1278

1055-1058

[HTML](#) [PDF](#)

Notes on Geographic Distribution

Morphology and genetics reveal the occurrence of *Girardinus falcatus* (Eigenmann, 1903) (Cyprinodontiformes, Poeciliidae) in eastern Cuba

Sheila Rodríguez-Machado, José L. Ponce de León, Didier Casane, Erik García-Machado

10.15560/13.6.1059

15-12-2017

Unique: 719 | Total: 1156

1059-1065

[HTML](#) [PDF](#)

Notes on Geographic Distribution

First records of *Calidris canutus* Linnaeus, 1758 (Charadriiformes, Scolopacidae) and *Trogon surrucura* Vieillot, 1817 (Trogoniformes, Trogonidae) for Entre Ríos province (Argentina), and noteworthy reports of other birds in protected areas

Juan A. Sarquis, Julián Alonso, Alejandro R. Giraudo, Alfredo Berduc

10.15560/13.6.1067

15-12-2017

Unique: 749 | Total: 1229

1067-1073

[HTML](#) [PDF](#)

List of Species

A checklist of Asteraceae from Pedra do Lagarto, Santa Maria, Rio Grande do Sul, Brazil

Juliana Schaefer, Liliana Essi

10.15560/13.6.1075

15-12-2017

Unique: 1259 | Total: 2005

1075-1090

[HTML](#) [PDF](#)

Notes on Geographic Distribution

First record of the family Parodontidae (Characiformes) from the Paraíba do Sul river basin, southeastern Brazil

Fernando L. K. Salgado, Bianca de F. Terra, Geysa da S. Camilo, F. Gerson Araújo

10.15560/13.6.1091

22-12-2017

Unique: 742 | Total: 1269

1091-1095

[HTML](#) [PDF](#)

Notes on Geographic Distribution

A new southernmost record of *Elaenia chiriquensis* Lawrence, 1865 (Passeriformes, Tyrannidae) in Brazil

João Vitor Perin Andriola, Amanda Perin Marcon

10.15560/13.6.1097

22-12-2017

Unique: 730 | Total: 1265

1097-1110

[HTML](#) [PDF](#)

Annotated List of Species

Checklist of the superfamily Noctuoidea (Insecta, Lepidoptera) from Tamil Nadu, Western Ghats, India

Kuppusamy Sivasankaran, Sekar Anand, Pratheesh Mathew, Savarimuthu Ignacimuthu

10.15560/13.6.1101

22-12-2017

Unique: 1209 | Total: 2025

1101-1120

[HTML](#) [PDF](#)

Notes on Geographic Distribution

Crossocheilus obscurus Tan & Kottelat, 2009 (Teleostei, Cyprinidae): distribution extension and first record for Musi basin, South Sumatra, Indonesia

Muhammad Iqbal, Indra Yustian, Winda Indriati, Doni Setiawan, Arum Setiawan

10.15560/13.6.1121

22-12-2017

Unique: 864 | Total: 1428

1121-1124

[HTML](#) [PDF](#)

Notes on Geographic Distribution

Rediscovery of *Bostryx voithianus* (Pfeiffer, 1847) (Gastropoda, Pulmonata) in northern Chile, with notes on the type locality

Edmundo Martínez de los Ríos

10.15560/13.6.1125

22-12-2017

Unique: 748 | Total: 1310

1125-1129

[HTML](#) [PDF](#)

Notes on Geographic Distribution

Vanilla bahiana Hoehne and *Vanilla pompona* Schiede (Orchidaceae, Vanilloideae): two new records from Maranhão state, Brazil

Alessandro Wagner Coelho Ferreira, Miguel Sena de Oliveira, Eduardo Oliveira Silva, Diego Sousa Campos, Emerson Ricardo Pansarin, Elidio Armando Exposto Guarçoni

10.15560/13.6.1131

22-12-2017

Unique: 1179 | Total: 2018

1131-1137

[HTML](#) [PDF](#)

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First record of *Lobocheilos ixocheilos* Kottelat & Tan, 2008 (Cypriniformes, Cyprinidae) in South Sumatra province, Indonesia

By Arum Setiawan



First record of *Lobocheilos ixocheilos* Kottelat & Tan, 2008 (Cypriniformes, Cyprinidae) in South Sumatra province, Indonesia

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Corresponding author: Muhammad Iqbal, kpbsos26@yahoo.com

Abstract

Lobocheilos ixocheilos is only known from 2 major riverine systems in Sumatra and Kalimantan, Indonesia. In Sumatra, it was previously known only from the Batang Hari basin and reported from localities in the provinces of West Sumatra and Jambi. This paper provides the first record of *L. ixocheilos* from the Musi basin in South Sumatra province, thereby extending the distribution of the species approximately 150 km southwest from the previous record.

Key words

Distribution; freshwater; cyprinid; Kerinci Seblat National Park; South Sumatra; first record; Musi basin.

Academic editor: Melanie Stiassny | Received 27 May 2017 | Accepted 31 October 2017 | Published 8 December 2017

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Introduction

The freshwater fish faunas of East and Southeast Asia are dominated by cyprinids (Rainboth 1991). Cyprinidae is the biggest family of freshwater fish, but the phylogenetic relationships among its higher-level taxa are not yet fully resolved (Wang et al. 2012). Species are being described and genera revised on a broad front (Nelson 2006). *Lobocheilos* is a genus of cyprinid fishes native to the mainland Southeast Asia and the islands of Sumatra, Java, and Borneo (Kottelat and Tan 2008, Cicotto and Page 2016). Two species of *Lobocheilos*, *Lobocheilos ixocheilos* Kottelat & Tan, 2008 and *L. schwanenfeldii* Bleeker, 1854, are recorded in Sumatra, but little is known about their exact distribution because of systematic confusion and the difficulty to access and sample in their natural habitats (Kottelat and Tan 2008, Kottelat 2013).

Lobocheilos ixocheilos was described in 2008 from the Batang Hari basin (Sumatra) and the Kapuas basin (Kalimantan) (Kottelat and Tan 2008). All subsequent records of *L. ixocheilos* in Sumatra are from localities in the provinces of West Sumatra and Jambi, namely: Kiliran Jao (village along road from Sungai Darel to Solok, West Sumatra province), Pulau Pujung (Sungai Darel, West Sumatra province) and Jambi province (without any details) (Kottelat and Tan 2008, Kottelat 2013). In this paper, we report the first record of *L. ixocheilos* in the Musi basin of South Sumatra province, which extends the species distribution 150 km from the previous distribution range.

Methods

A few unpreserved specimens of *Lobocheilos ixocheilos* were obtained from local fishermen during fieldwork



Figure 1. Muara Kulam River of Musi basin, location where *L. ixocheilos* found in South Sumatra province (Photograph by M. Iqbal).

carried out on 19–22 April 2016 in the Muara Kulam River ($02^{\circ}48'10.6''$ S, $102^{\circ}21'11.2''$ E), a tributary of the Lematang drainage in the Musi basin. This river is surrounded by secondary dipterocarp forest with little encroachment and a low intensity of selective illegal logging by local people (Fig. 1). Administratively, the site is located in Muara Kulam village, Rawas Ulu subdistrict, Musi Rawas district, South Sumatra province. The topography is hilly forested at 508 m above sea level. This area is under the management of subsection V or SPTN V (SPTN = Seksi Pengelolaan Taman Nasional Wilayah, or Regional Park Management Section) of Kerinci Seblat National Park (Anonymous 2016). Due to the area being part of a national park, collection of specimens is prohibited, unless special permits are obtained. Unfortunately, as we did not have a permit for collecting specimens during our fieldwork, no voucher specimens were retained.

Results

New records. Indonesia, Sumatra, Musi basin, Muara Kulam River, ($02^{\circ}48'10.6''$ S, $102^{\circ}21'11.2''$ E), Muhammad Iqbal, Arum Setiawan, Ina Aprilia, Muhammad Isa, Indra Yustian, 19 April 2016, photographed, 8 individuals.

Identification. The specimens were identified as *Lobocheilos ixocheilos* based on the possession of diagnostic

morphological characters. Following Kottelat and Tan (2008), the *L. ixocheilos* is distinguished from the other species of *Lobocheilos* of Java, Sumatra, and Borneo by the presence of an obvious, broad, black midlateral stripe, not extending on median caudal rays, and running above the lateral line on the middle half of its length; no black blotch on the end of caudal peduncle and crescentic marks on scale pockets (apex pointing forwards); 1 pair of barbels, less than eye diameter; pectoral fin reaching to $\frac{3}{4}$ of distance to pelvic-fin origin; pelvic-fin reaching between anus and anal-fin origin; when folded backwards, tip of dorsal fin reaching between vertical through anus to anal-fin origin; and head length less than body depth at dorsal-fin origin. All of these characters were found in specimens of *Lobocheilos* from the Muara Kulam River (Musi basin), South Sumatra province (Figs 2–3). To confirm our identification, we have asked Dr Tan Heok Hui (Lee Kong Chian Natural History Museum, Singapore) expert working on the genus *Lobocheilos* in Southeast Asia, to confirm our identification using photographs, and it was confirmed that the specimens belong to *L. ixocheilos*.

Discussion

Record of *Lobocheilos ixocheilos* in Muara Kulam River of Musi basin is the first record of this species in South Sumatra province. Previous records of *L. ixocheilos* in Sumatra are from localities in the provinces of West Sumatra and Jambi, namely: Kiliran Jao and Pulau Pujung (West Sumatra province) and Jambi province (without any details) (Kottelat and Tan 2008, Kottelat 2013).

The distance between Muara Kulam River of Musi basin with previous localities where *L. ixocheilos* previously found in Sumatra is about 150 and 250 km. Major studies of cyprinid faunas in Southeast Asia have occasionally been confined to single drainage basins (Rainboth 2001). For the example, in Sumatra, a fish fauna survey in Batang Hari basin conducted by Tan and Kottelat (2008) has given better understanding on cyprinid fish diversity in this area, compare to other basins in the island. For a



Figure 2. Specimen of *Lobocheilos ixocheilos* caught on 19 April 2016 from the Musi basin, Muara Kulam River, South Sumatra (Photograph by M. Iqbal).



Figure 3. Close view of head of *Lobocheilos ixocheilos* showing the mouth pattern (Photograph by M. Iqbal).

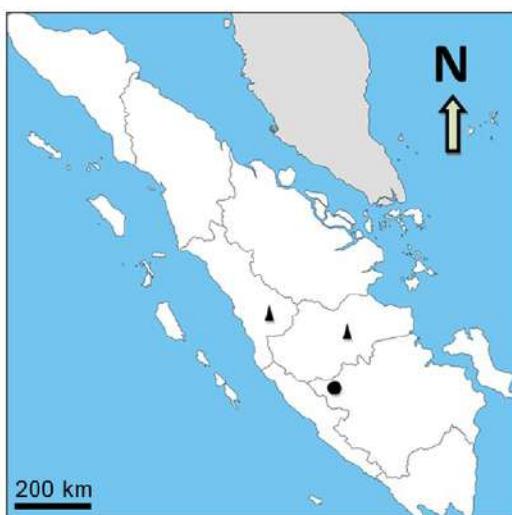


Figure 4. Distribution of *Lobocheilos ixocheilos* in Sumatra. Black triangles are the previous known localities of the species in the Batang Hari basin. Black circle is the recent record from the Musi basin.

little-known species such as *L. ixocheilos*, new records are important contributions for understanding species diversity and biogeography, among other biological topics. As reported in this paper, the new record of *L. ixocheilos* has helped to improve the knowledge of the species as it extends the distribution range of the species further southwest (Fig. 4).

Acknowledgements

We are grateful to GIZ Bioclimate and Department Biology of Sriwijaya University for funding our field work in Muara Kulam River, Kerinci Seblat National Park, South Sumatra Province (under grant FA 83216945). Special thanks to the Kerinci Seblat National Park office region of South Sumatra province and our team for assisting us in the field. We thank Dr Tan Heok Hui (Lee Kong Chian Natural History Museum, Singapore) for helping us to confirm our identification. Finally, we also thank the reviewers who helped to improve this paper.

Authors' Contributions

MI, AS, and IY collected the data and wrote the text, IA and MI2 facilitated field work, and MI made the analysis.

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First record of *Lobocheilos ixocheilos* Kottelat & Tan, 2008 (Cypriniformes, Cyprinidae) in South Sumatra province, Indonesia

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Penulis Artikel Ilmiah	: Arum Setiawan
Identitas Jurnal Artikel Ilmiah	a. Nama Jurnal : Check List b. Nomor/Volume/Hal : 5/13/931-933 c. Edisi (bulan/tahun) : Desember/2017 d. Penerbit : Centro de Referencia em Informacao Ambiental e. Jumlah Halaman 4
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• Kelengkapan dan Kesesuaian Unsur:	Paper terkait deskripsi <i>Lobocheilos ixocheilos</i> di Musi, Sumatera Selatan. Isi paper sudah memenuhi kaidah-kaidah karya ilmiah dan sudah sesuai dengan bidang biologi konservasi
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