



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

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Abstract

Crossocheilus obscurus is a little known cyprinid fish which was first described in 2009 in the Batang Hari basin (West Sumatra province, Indonesia), with no additional published information since that time. In April 2016, *C. obscurus* was observed and photographed in the Musi basin (South Sumatra province). The identification of this species confirms its presence in a new river basin, more than 250 km south from its type locality.

Key words

Endemism; freshwater; cyprinid.

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Introduction

The freshwater fish fauna of the Sunda Shelf and its main islands (Sumatra, Java and Borneo) is highly diverse, especially in cyprinids (Darlington 1966, Kottelat 2013). The Cyprinidae is the largest family of freshwater fishes and is found throughout much of the world, with the exception of Madagascar, Australasia, and South America (Brumley 1991, Nelson 2006, Kottelat 2013). *Crossocheilus* is a cyprinid genus that is found throughout the Sundaic and Indochinese regions (Kottelat and Tan 2011, Kottelat 2013). Species of this genus inhabit a variety of habitats from large rivers to headwaters, but they are generally associated with substrate consisting of large stones or rocks, and fast-flowing water (Kottelat and Tan 2011).

There are 12 species of *Crossocheilus* in Southeast Asia (Kottelat 2013). *Crossocheilus obscurus* is 1 of 4 species known to occur in Sumatra (Tan and Kottelat 2009, Kottelat 2013). It is presently known only from its type locality (Kiliran Jao in the Batang Hari basin, West Sumatra; Fig. 1) (Tan and Kottelat 2009). In this paper, we report the presence of *C. obscurus* in the Musi basin (South Sumatra province), which documents an extension of the known distribution range for this species.

Methods

Eight specimens of *Crossocheilus obscurus* were obtained from fishermen during fieldwork on 19–22 April 2016 in the Muara Kulam River (Lematang drainage, Musi

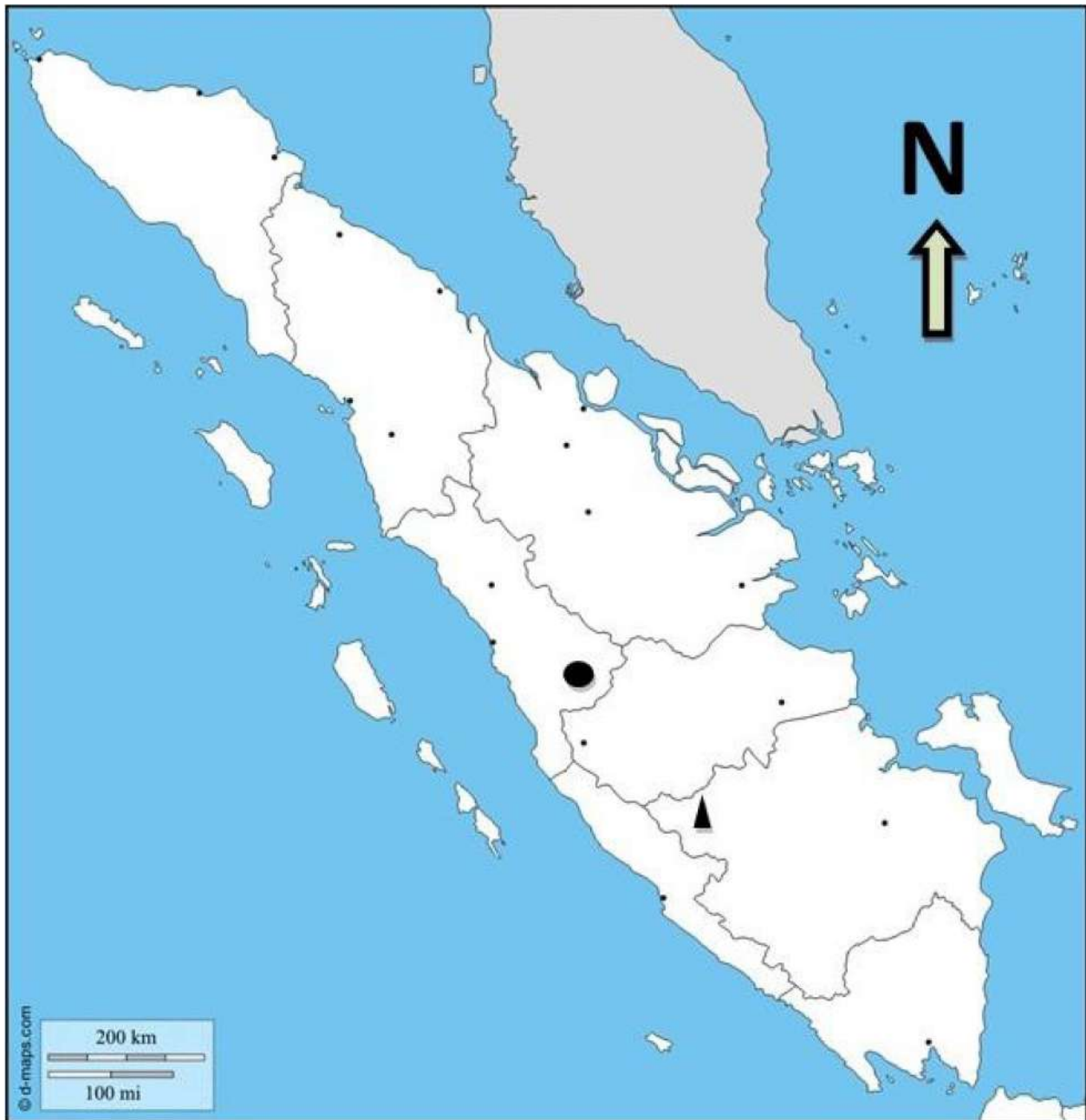


Figure 1. Known distribution of *Crossocheilus obscurus*. Black circle = type locality in the Batang Hari basin (West Sumatra); black triangle = additional locality at the Musi basin (South Sumatra).

basin, 02°48'10.6" S, 102°21'11.2" E). The fishes were documented and photographed, although the specimens were not retained, as we did not have the requisite permit for collecting specimens in the national park.

This river is surrounded by secondary dipterocarp forest. There is little encroachment, except for illegal low intensity selective-logging by local people (Fig. 2). The collection site is at around 500 m elevation, and the surrounding topography is hilly. This area is under management area of Subsection V or SPTN V (SPTN = Seksi Pengelolaan Taman Nasional Wilayah, or Regional Park Management Section) of Kerinci Seblat National Park (Anonymous 2016).



Figure 2. Muara Kulam River (Musi basin, South Sumatra), showing the location where *Crossocheilus obscurus* was collected. Photograph by M. Iqbal.

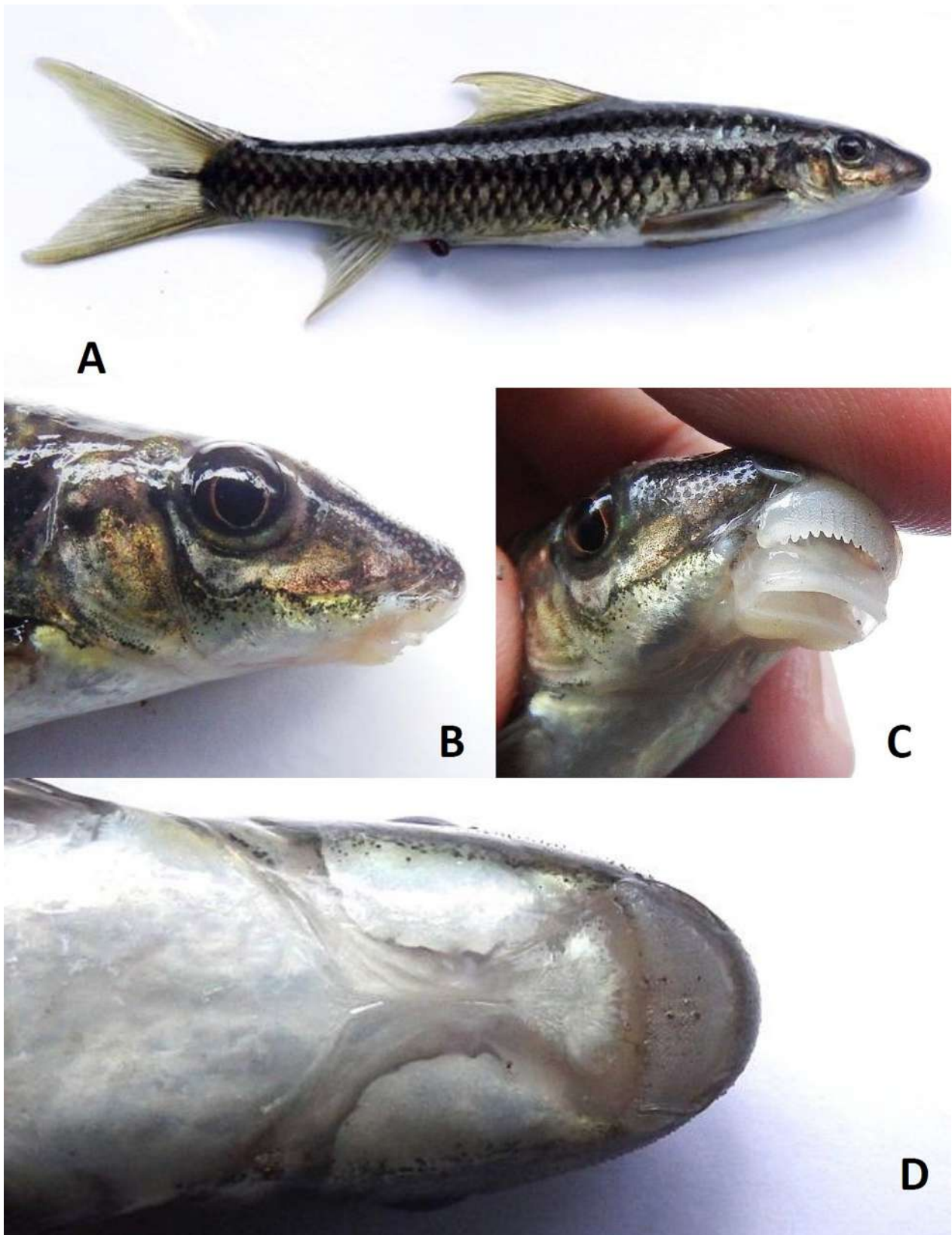


Figure 3. *Crossocheilus obscurus* (13 cm TL), Musi basin, Muara Kulam River, South Sumatra: **A.** lateral view. **B.** lateral view of head. **C.** detail of mouth showing upper lip with few fimbriaes. **D.** ventral view of head. Photographs by M. Iqbal.

Results

New records. Indonesia, Sumatra, Musi basin, Muara Kulam River, (02°48'10.6" S, 102°21'11.2" E), Muhammad Iqbal, Indra Yustian, Winda Indriati, Doni Setiawan, Arum Setiawan, 19 April 2016, photographed, 8 individuals.

Identification. Several specimens collected in the Muara Kulam River (Musi basin) were identified as *Crossocheilus obscurus* (Fig. 3), based on the diagnosis presented by Tan and Kottelat (2009). These features were: size up to at least 142 mm standard length; 1 pair of rostral barbels, no

maxillary barbels; midlateral stripe with edges not sharply contrasted, slightly curved downward, obscured in largest individuals (ca 100–140 mm), continued on median caudal-fin rays, reaching posterior margin; no black mark between anus and anal fin; mouth wide (30–36% of head length); pectoral fin rounded to slightly falcate, reaching halfway to pelvic-fin base; pelvic fin triangular to slightly falcate, and slightly beyond anus; axillary scale present; one pair of rostral barbels (length ca. $\frac{1}{2}$ to $\frac{2}{3}$ of eye diameter); upper lip with 14–18 fimbriae, entirely covered by small papillae; and anterior edge of lower lip with a few large papillae.

Discussion

The discovery of *Crossocheilus obscurus* in the Musi basin is the first record of this species beyond its type locality (Batang Hari basin), and represents a southerly extension of previously known distribution by more than 250 km (Fig. 1). This record is an important contribution to the understanding of island endemism and the little-known biogeography of cyprinids in central and southern Sumatra. This species has not been assessed by IUCN Red List, but it would fit the status of Data Deficient (DD), due to the paucity of information on distribution, population, and potential threats.

Acknowledgements

We thank Tan Heok Hui (Lee Kong Chian Natural History Museum, Singapore) and Maurice Kottelat for helping us to confirm our identification. 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 no. FA no: 83216945). Special thanks to Kerinci Seblat National Park office region of South Sumatra province and our team for assisting us in the

field. We are very grateful to Mat Gilfedder (University of Queensland, Australia) for assistance with the manuscript itself.

Authors' Contributions

MI, IY, and AS collected the data; MI wrote the text; WI and DS facilitated the fieldwork; and all authors revised, corrected, and discussed the manuscript.

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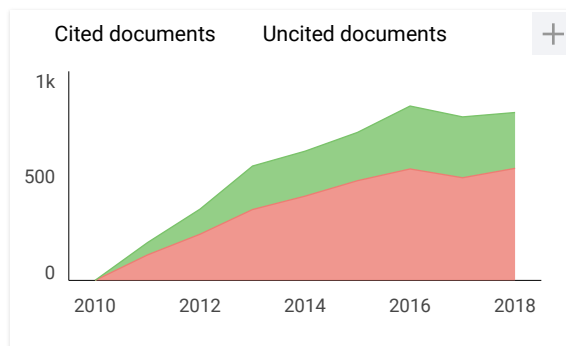
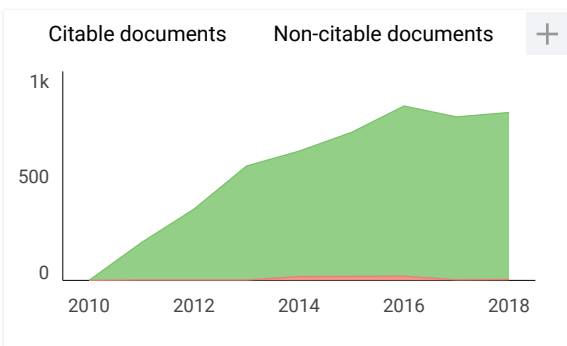
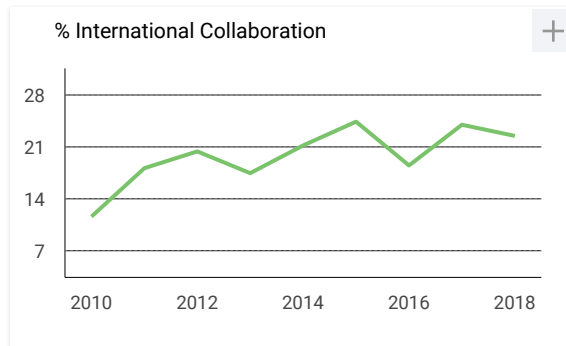
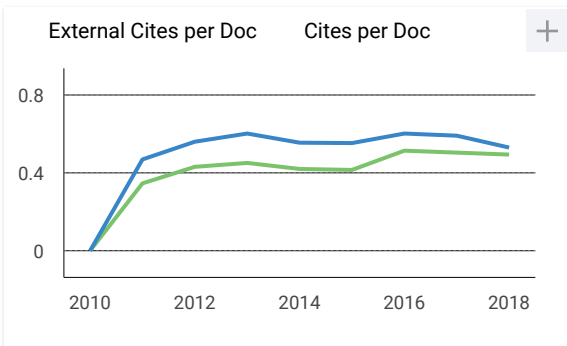
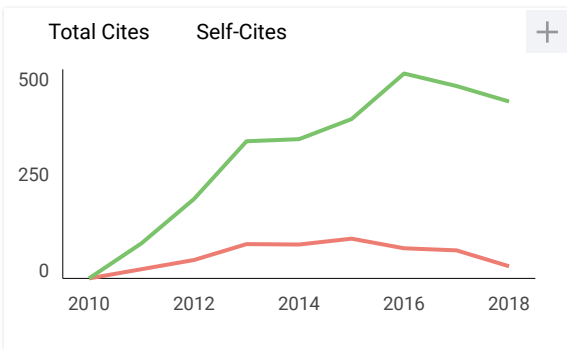
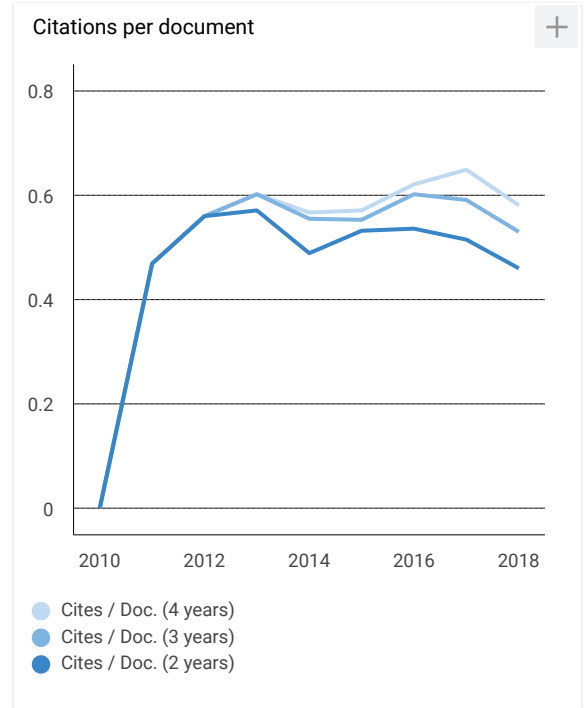
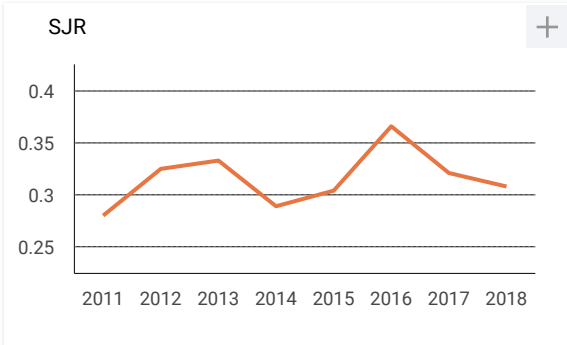
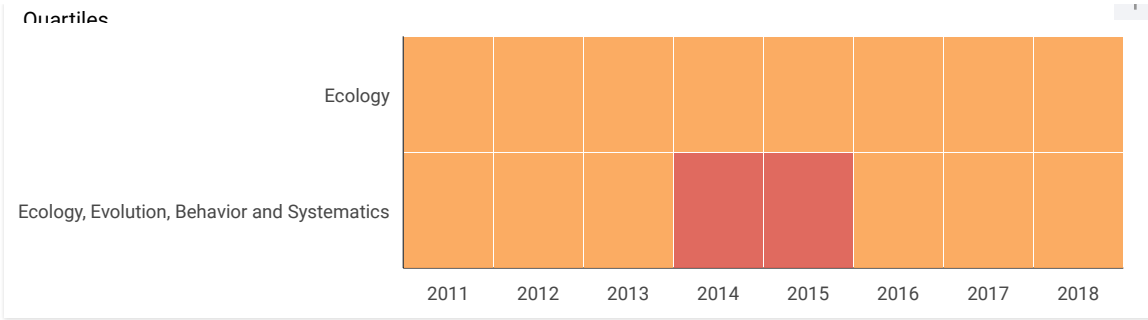
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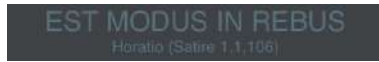


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Notes on Geographic Distribution

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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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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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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Notes on Geographic Distribution

***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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Notes on Geographic Distribution

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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Notes on Geographic Distribution

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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Notes on Geographic Distribution

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 aphyllorphoroid 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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Notes on Geographic Distribution

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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Notes on Geographic Distribution

***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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Annotated List of Species

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

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

Notes on Geographic Distribution

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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Notes on Geographic Distribution

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

Andrés García, Nestor Sánchez, Antonio De Ascencao 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 Kumer Neogi, Aaratrik Pal

10.15560/13.6.845

24-11-2017

Unique: 771 | Total: 1272

845-847

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

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

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

Rogéria I.R. Lara, Nelson W. Periotto

10.15560/13.6.857

01-12-2017

Unique: 625 | Total: 1024

857-862

[HTML](#) [PDF](#)[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 *Vampyroides 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

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

[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 Cezar 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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List of Species

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

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Notes on Geographic Distribution

First record of *Zoanthus giganteus* 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

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

Notes on Geographic Distribution

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, Wallace R. Telino-Júnior

10.15560/13.6.951

15-12-2017

Unique: 1102 | Total: 1822

951-957

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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. Giraudó, 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

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