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Cover: Fish species recorded in the Goughami-Godavari Estuary, Andhra Pradesh: Lutjanus johnii (top left), Triacanthus biaculeatus (top right), Acentrogobius cyamomus, Elops maccnata, Triptena ushaga, Oxynichirops microlepis. © Paromita Ray.
First report of the mymarid genus *Proarescon* Huber (Hymenoptera: Chalcidoidea: Mymaridae) from India

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Members of the family Mymaridae are called fairyflies and are generally egg parasitoids (except two species) attacking eggs of agriculturally important insects (for details refer Huber (1986) & Huber et al. (2006)). This family is represented by 1,490 described species under 119 genera globally (Noyes 2019) of which only 39 genera and 232 species are known from India (Athithya & Manickavasagam 2022a). Surveys are being conducted across India to locate other mymarid fauna reported elsewhere but not from India. One such survey uncovered *Proarescon primitivus* (Huber) which is being reported here for the first time from India.

Since 2010, we have been conducting surveys specifically for recovering chalcidoid parasitoids from Western Ghats of Kerala state. Parasitoids were collected using yellow pan traps and pitfall traps and mymarids were sorted out and stored in 70% alcohol at -20 °C. Mymarids were subsequently diagnosed after dissection following Noyes (1982) and Huber (2015). After mounting, images of the mounted parts were captured using a DMC 2900 camera linked to a Leica DM750 phase contrast microscope. The united Zip software was used to obtain stacked images which were further processed using Adobe Photoshop version 7.0.

*Proarescon primitivus* (Huber) (Image 1a–d): (Type species: *Borneomymar primitivum* Huber, 2002). Later *primitivum* was transferred from *Borneomymar* to a new genus *Proarescon* by Huber (2017) and the species was named as *P. primitivus*. Members belonging to the genus *Proarescon* (Huber) can be diagnosed using the characters: 1. Funicle 8-segmented; 2. clava entire and gradually narrowing apically to a point (Image 1b); 3. Fore wing microtrichia more densely spaced except for an oval area along posterior margin (Image 1c,d). *Proarescon* is represented only by two species globally (*P. primitivus* and *P. similis* Huber, 2017) of which the species in study belongs to *P. primitivus* that can be diagnosed using the characters: clava 3.3 times as long as wide, with ventral margin almost straight, cubital line in fore wing extending proximally almost to level of proximal macrochaeta (Image 1a).

Material examined: 08.v.2019, two females with Entomology Department, Annamalai University (EDAU/Mym41/2022). One female on slide under five coverslips, another female on slide under two cover slips, labelled, India: Kerala, Western Ghats (10.77N; 77.06E), pitfall trap, forest floor, coll. Prasanth.

Distribution: India (new record); Indonesia (Huber...
First report of mymarid genus Proarescon from India

Athithya & Manickavasagam

2002) and Thailand (Huber 2017).

Recently Athithya & Manickavasagam (2022b) proposed a key to diagnose the generic group initially, followed by diagnosing the particular genus within that generic group to reduce misidentification. In this key, Proarescon fits in Arescon group of genera under couplet 4. Now this genus group is known by two genera (Arescon and Proarescon). However, Proarescon can be differentiated from Arescon as shown in generic diagnosis (in Arescon, funicle 6-segmented, clava entire but not narrowing to a pointed apex and fore wing microtrichia bare to densely setose but without a specific oval area in the posterior margin).

References


Image 1a–d. Proarescon primitivus female: a—Habitus | b—Antenna | c—Fore wing | d—Base of fore wing magnified. © Authors.
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**Article**

Dietary preference of Assamese Macaque Macaca assamensis McClelland, 1840 (Mammalia: Primates: Cercopithecidae) in Dampa Tiger Reserve, India


**Reviews**

Natural history notes on three bat species


The checklist of birds of Rajkot district, Gujarat, India with a note on probable local extinction

– Neel Sureja, Hemanya Radadia, Bhavesh Trivedi, Dhavalkumar Varagiya & Mayundan Gadhavi, Pp. 21508–21528

Alien flora of Uttarakhand, western Himalaya: a comprehensive review

– Shikha Arora, Amit Kumar, Khima Nand Balodi & Kusum Arunchal, Pp. 21529–21552

**Communications**

New records of Nyctalus leisleri (Kuhl, 1817) and Myotis nattereri (Kuhl, 1817) (Mammalia: Chiroptera: Vespertilionidae) from National Park “Smolny” and its surroundings, Republic of Moldova


Avifaunal diversity in unprotected wetlands of Ayodhya District, Uttar Pradesh, India

– Yasmita-Ulman & Manoj Singh, Pp. 21561–21578

Can the Sri Lankan endemic-endangered fish Labeo fisheri (Teleostei: Cyprinidae) adapt to a new habitat?

– Dinelka Thilakarathe & Gayan Hirmuthugoda, Pp. 21579–21587

An overview of the fish diversity and their threats in the Gowthami-Godavari Estuary in Andhra Pradesh, India


DNA barcoding of a lesser-known catfish, Clupisoma bastari (Actinopterygii: Ailiidae) from Vizianagaram, Andhra Pradesh, India

– Ashant Dewan, Bimal Raj Shrestha, Rubina Thapa Magar & Prakash Gaudel, Pp. 21742–21745

New distribution record of Gazalina chrysolopha (Kuhl, 1817) (Mammalia: Chiroptera: Vespertilionidae) from National Park “Smolny” and its surroundings, Republic of Moldova


**Notes**

Opportunistic sighting of a Sperm Whale Physeter macrocephalus Linnaeus, 1758 in Lakshadweep Archipelago


An unusual morph of Naja naja (Linnaeus, 1758) (Serpentes: Elapidae) from Goa, India

– Nitin Sawant, Anruth Singh, Shubham Rane, Sagar Naik & Mayur Gawas, Pp. 21736–21738

Drape Fin Barb Oreichthys crenuchoides (Schäfer, 2009) (Cypriniformes: Cyprinidae) a new fish species report for Nepal

– Tapil Prakash Rai, Pp. 21739–21741

New distribution record of Gasalina chrysolopha Kollar, 1844 (Lepidoptera: Notodontidae) in the Trans-Himalayan region of western Nepal

– Ashant Dewan, Bimal Raj Shrestha, Rubina Thapa Magar & Prakash Gaudel, Pp. 21742–21744

First report of Xanthia (Cirrhia) icteria (Hufnagel, 1766) (Noculidae: Xyleninae) from India

– Neel Sureja, Hemanya Radadia, Bhavesh Trivedi, Dhavalkumar Varagiya & Mayurdan Gadhavi, Pp. 21487–21528

First report of the mymarid genus Proarescon Mymaridae) from India

– Muzafar Riyaz & K. Sivasankaran, Pp. 21745–21748

Short Communications

Conservation status of freshwater fishes reported from Tungabhadra Reservoir, Karnataka, India

– C.M. Nagabhushan, Pp. 21704–21709

Species diversity and distribution of large centipedes (Chilopoda: Scolopendromorpha) from the biosphere reserve of the western Nge An Province, Vietnam

– So N. Le, Thuc H. Nguyen, Thinh T. Do & Binh T.T. Tran, Pp. 21710–21714

Range extension of lesser-known orchids to the Nilgiris of Tamil Nadu, India


**Checklist of the orchids of Nokrek Biosphere Reserve, Meghalaya, India**

– Bikarma Singh & Sneha, Pp. 21600–21695

Morphological assessment and partial genome sequencing inferred from matK and rbcL genes of the plant Taca chandreri


New records of Gazalina chrysolopha (Kuhl, 1817) (Mammalia: Chiroptera: Vespertilionidae) from National Park “Smolny” and its surroundings, Republic of Moldova


A new population record of the Critically Endangered Dipterocarpus boursillonii Brandis from the Anamalai Tiger Reserve, India


A new population record of the Critically Endangered Dipterocarpus bourdillonii Brandis from the Anamalai Tiger Reserve, India