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*A JOURNAL ON ZOOLOGY
OF THE INDO-AUSTRALIAN ARCHIPELAGO*

Vol. 48, no. 1, pp. 1–80

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UDC: 595.79(594)

Danu Dwi Sutanto

To the knowledge of the velvet ant genus *Bischoffitilla* Lelej (Hymenoptera: Mutillidae) in Indonesia

TREUBIA, June 2021, Vol. 48, No. 1, pp. 1–12.

Seven species of the genus *Bischoffitilla* Lelej were previously known from Indonesia. *Bischoffitilla selangorensis* (Pagden, 1934) is newly recorded from Indonesia. *Bischoffitilla palaca* (Cameron, 1902) is newly recorded from Java, and *B. saffica* (Zavattari, 1914) from Sumatra. Keys to the Indonesian species of *Bischoffitilla* are given.

(Danu Dwi Sutanto, Kevin A. Williams, Hari Nugroho, and Arkady S. Lelej)

Keywords: Java, mutillid wasps, Myrmillinae, Sumatra, Wallace

UDC: 595.725(594)

Philip Edward Bragg

Records of praying mantids (Insecta: Mantodea) from two areas of Central Kalimantan, and notes on Bornean *Odontomantis* and *Hierodula*

TREUBIA, June 2021, Vol. 48, No. 1, pp. 13–36.

Results are presented for a collection of praying mantids from two different habitats in Kalimantan Tengah: an area of peat-swamp forest and an area of hill forest. Forty-one specimens are recorded, representing 20 species; this is the first such collection to be recorded from Kalimantan after more than 70 years. Photographs are included for a number of species, concentrating on species which have not previously been illustrated. Some issues with the Bornean *Odontomantis* are highlighted and a key to Bornean species is provided. The status of *O. micantula* Beier, 1937 is clarified, the syntypes are located, and the species is illustrated; the synonymy of *O. planiceps* and *O. javana* is questioned. Some historical issues relating to Bornean members of *Hierodula* are reviewed; the synonymy of *H. athene* Rehn, 1909 and *H. hybrida* Burmeister, 1838 and *H. venosa* (Olivier, 1792) is considered doubtful. Issues with identification of *H. venosa* and *H. vitrea* (Stoll, 1813) leave their presence in Borneo questionable.

(Philip Edward Bragg)

Keywords: Borneo, Central Kalimantan. *Hierodula*, Mantodea, *Odontomantis*

UDC: 595.734(594.81)

Thomas Kaltenbach

Discovery of a new mayfly species (Ephemeroptera, Baetidae) near Cenderawasih University campus in Papua, Indonesia

TREUBIA, June 2021, Vol. 48, No. 1, pp. 37–54.

Material collected just behind the Cenderawasih University campus in Jayapura, Papua Province, Indonesia, revealed a new species of the *Labiobaetis claudiae* group, which is here described and illustrated based on larvae, subimago, male and female imagos. The total number of *Labiobaetis* species on the island New Guinea increased to 33, the total number for Indonesia increased to 26, and the total number of *Labiobaetis* species worldwide is augmented to 147. A key to the larvae of the *L. claudiae* group is provided. The interspecific K2P distances between species of the *L. claudiae* group are between 20% and 23%.

(Thomas Kaltenbach, Suriani Surbakti,
Jean-Luc Gattolliat, Michel Sartori,
and Michael Balke)

Keywords: Integrative taxonomy, New Guinea, species discovery

UDC: 595.789(594.31)

Djunijanti Peggie

Assessing in-situ semi-natural butterfly breeding approach of *Ornithoptera croesus* (Papilionidae) on Bacan Island, Maluku Utara, Indonesia

TREUBIA, June 2021, Vol. 48, No. 1, pp. 55–68.

Indonesia is rich in endemic species of flora and fauna. One of them is *Ornithoptera croesus* butterfly, which is endemic to North Maluku. Habitat degradation and trade of this species have caused the populations to decline. To avoid the collection of butterfly specimens from nature and to preserve their habitat and population in nature, a semi-natural butterfly breeding practice at Bacan Island was initiated in 2013. This research was conducted to assess the breeding approach for *O. croesus lydius* using a qualitative descriptive method. The assessment was based on these variables: the specific ecology of the butterfly; the suitability of the breeding site and development model; the utilization of larval host plants and butterfly nectar plants; and the establishment of the birdwing population at the site. The observations and results are presented here. Based on the assessment, the in-situ semi-natural breeding approach is one of the solutions for sustainable use of this protected species.

(Djunijanti Peggie, Duncan Neville,
Sarino, and Sih Kahono)

Keywords: birdwing butterfly, breeding, conservation, *Ornithoptera croesus*, sustainable use

UDC: 595.132:599.323.4(594.1)

Hideo Hasegawa

Larvae and adults of *Ascarops* sp. (Nematoda: Spirocercidae) collected from the stomach of *Maxomys whiteheadi* (Rodentia: Murinae) in Kalimantan, Indonesia

TREUBIA, June 2021, Vol. 48, No. 1, pp. 69–80.

Third-stage larvae and adults of spiruroid nematodes were found from the stomach wall and stomach lumen, respectively, of *Maxomys whiteheadi* (Rodentia: Murinae) captured in Bukit Soeharto, Kalimantan, Indonesia. Close observation using light microscope and scanning electron microscope (SEM) revealed that it belongs to the genus *Ascarops* (Nematoda: Spirocercidae), possibly to *Ascarops strongylina* (Rudolphi, 1819). It is presumed that this species is parasitic in wild boars, *Sus barbatus*, in the forest of Kalimantan, and utilizes the murine as paratenic host, in which it usually remains as third larval stage but can occasionally develop to adult stage.

(Hideo Hasegawa & Kartika Dewi)

Keywords: *Ascarops*, Kalimantan, *Maxomys whiteheadi*, Nematoda