**Pyrops nishiguroi** n. sp., a new Fulgoridae from Philippines, with some notes on the *Pyrops oculatus* group (Hemiptera: Fulgoromorpha)

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**Keywords:**

Hemiptera; Fulgoromorpha; Fulgoridae; Fulgorinae; Laternariini; *Pyrops*; *Pyrops oculatus*; *Pyrops alboroseus*; *Pyrops sidereus*; taxonomy; new species.

**Abstract.** – A new Fulgoridae, *Pyrops nishiguroi* n. sp., collected in Palawan (Philippines) is described and illustrated. *Pyrops alboroseus* Liang, 1998 stat. nov. is elevated to specific rank. Some new localities are given for *Pyrops oculatus*.


ZooBank: http://zoobank.org/968F668A-58A6-4B0E-8694-8D4C61D366EA

**Introduction**

About hundred species occurring in South-East Asia are known in the genus *Pyrops*. *Pyrops oculatus* is a group of species distributed through in the Malay Peninsula, Indonesia, Borneo and Philippines. It includes many forms listed in the synonymy in Nagai & Porion (1996). One of them, *Pyrops oculatus sidereus*, had been recently elevated to the status of species (Bosuang et al., 2017). Another one, *Pyrops oculatus alboroseus* is regarded in this paper as another valid species. Probably others “oculatus” forms as *Pyrops fulvirostris* from Sri Lanka could see their status changed. In this paper, we describe a new species, *Pyrops nishiguroi* n. sp., belonging to this group and occurring in the Philippines.

The name *Pyrops* is regarded as masculine (ICZN: Art. 30.1.4.3. "A compound genus-group name ending in -ops is to be treated as masculine, regardless of its derivation or of its treatment by its author"). Liang (1998) and Constant (2015) applied the gender agreement.

**Abreviations**

- MHNL: Centre de Conservation et d’Étude des Collections, Lyon, France.
- EUMJ: Ehime University Museum, Matsuyama, Ehime, Japan.
- FSAG: Faculté des Sciences Agronomiques de Gembloux, Belgium.
- OUMNH: University Museum of Natural History, Oxford, United Kingdom.
- PORION: Thierry Porion Personal collection, Jaujac, France.

**Taxonomy**

*Pyrops oculatus* (Westwood, 1839)

Type: OUMNH (coll. Hope-Westwood).

This species is common (new localities with *):

– Malaysia: Cameron Highlands (MHNL and coll. T. Porion); Penang isl. (Nagai & Porion, 1996).
– Indonesia:

**Islands west of Sumatra:** *Masa* isl. (MHNL); Nias isl. (Nagai & Porion, 1996); Siberut isl. (Nagai & Porion, 1996).

**W. Sumatra:** *Kerinci; *Marapi Mt.; *Padang; *Payakumbuh; *Singalang; *Solok; *Talang Mt. (all in MHNL).

**E. Sumatra:** *Jambi* (coll. T. Porion).

**S. Sumatra:** Sukadana (misspelled Soekadam) (Nagai & Porion, 1996: pl. 14, fig. 188).

**Riau Islands:** *Natuna* isl. (coll. T. Porion).

*Pyrops sidereus* (Distant, 1905)

**Fulgora siderea** Distant, 1905: 566.


Type: BMNH (coll. Distant).

Previously, this species was considered as a subspecies of *Pyrops oculatus*. The forewings of this species are bright orange-yellow to green (usually males are more green, females tending more to yellow-orange) and the hindwings are red on the apical third. *Pyrops esteban* Nagai & Porion, 2002 is a synonym.

This species is endemic of Borneo where it occurs in the north-eastern parts: Crocker Range, Sabah and Bakayan, E. Kalimantan (MHNL).
**Pyrops alboroseus** Liang, 1998 nov. stat.  
(Fig. 1 & 2)

**Fulgora oculata f. alborosea** Lallemand, 1963: 77 (nom. invalid.).

**Pyrops oculata alborosea** (Lallemand, new comb.): Liang, 1998: 44.

**Type:** Gebloux (coll. Lallemand).

Initially described as a form of *Pyrops oculatus* by Lallemand (1963); the infra-subspecific names, published after 1960 are considered as invalid (Art. 13.1.2). Liang (1998) made it available by mentioning a reference to the original description with the page number of the description. We elevate it to specific rank based on important differences with *Pyrops oculatus*. *Pyrops alboroseus* occurs in W. Java only.

**Material examined**

– Sancang, W. Java, 3/03, coll. T. Porion, 1 ex. male (CCEC).
– Sancang, W. Java, 8/07, coll. T. Porion, 2 ex. female (CCEC).
– W. Java, different dates, coll. T. Porion, 6 ex. (PORION).

A specimen, illustrated in Nogai & Porion (1996, pl. 14, fig. 186) under “*Pyrops oculata*”, with these data: W. Java, 6-800 m., Djampang Tengah G. Tjisoeroe, IX-1933, M. E. Walsh leg. (FSAG), belongs to this species.

**Description.**

**Male** (Fig. 1). – Wingspan 66 to 68 mm., – Head and thorax beige, pronotum with two black spots and mesonotum with two black spot on each side of the median carina. – Head process spangled with very small white points, very long, equals about the length of the whole body and bent up in the apical half only. – Abdomen beige. – Legs beige to dark grey, with black tarsa. – Elytra more or less regularly covered by many yellow-orange small spots, all more or less circular, spangling the whole surface. – Some interveins sometimes filled of small black points in 2 or 3 small areas irregular and asymmetric in the anal zone of the elytra. – Hindwings translucent white with one very remarkable red or pink-red large area from base filling about one third of the white wing.

**Female** (Fig. 2). – Similar except size: wingspan 77 to 80 mm.

**Differential diagnosis.** – Lallemand (1963: 77) tells us that *Pyrops alboroseus* is easily recognized from *Pyrops oculata* by the lack of any brown or black spot on the wings (hindwings), and these are not green at the base, as on *Pyrops oculata*.

**Pyrops nishiguroi** n. sp.  
(Fig. 3-5)

ZooBank: [http://zoobank.org/35127AF1-5B17-483E-8E79-E2DE2A3EE778](http://zoobank.org/35127AF1-5B17-483E-8E79-E2DE2A3EE778)

**Material examined**


**Allotype**: ♀: Philippines, Palawan isld., Mt. Mantalingayan, may 2016, both in EUMJ, Matsuyama, Ehime, Japan.

**Paratypes:**

– 2 ♀: same locality and date than Allotype (Mt. Mantalingayan), in EUMJ.
– 1 ♀: same locality and date than Holotype, in coll. Thierry Porion.
– 1 ♀: same locality and date than Allotype, in CCEC, Lyon, France.

**Description.**

**Male** (Fig. 3). – Wingspan 59.4 to 72 mm. – Head dark brown, thorax beige, pronotum immaculate and mesonotum with two black spot on each side of the median carina. – Head process dark brown spangled with very small white points, very long and strong, equals about the length of the whole body and bent up slightly and regularly from the eyes (Fig. 5). – Abdomen beige. – Legs beige to dark grey, with black tarsa. – Elytra more or less regularly covered by many yellow-orange small spots, all more or less circular, spangling the whole surface, most are rounded by white areas that makes the main elytra ground color appear white. – Interveins filled of black points in some small areas irregular and asymmetric near the center of the elytra, and, all along the external edge of the elytra, from costa, media to cubitus alternates these black areas with white zones including a yellow spot, while media being nearly continuously black including the yellow-orange spots. – Hindwings translucent white with one very remarkable orange/red large area from base filling about one third of the white wing.

**Female** (Fig. 4). – Similar except size: wingspan 76 to 82 mm.

**Eymology.** – This new species is dedicated to Mr. Kei Nishiguro.

本新種の種名はフィリピンで活躍されている永井の友人である西黒圭氏に献名された。

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**References**


Fig. 1. - Pyrops alboroseus Liang, 1998 stat. nov., ♂, Sancang, West Java, 68 mm (PORION).

Fig. 2. - Pyrops alboroseus Liang, 1998 stat. nov., ♀, Sancang, West Java, 73 mm (PORION).
Fig. 3. - *Pyrops nishiguroi* n. sp., paratype ♂, Mt Gantung, Palawan isld. Philippines, 68.5 mm (PORION).

Fig. 4. - *Pyrops nishiguroi* n. sp., paratype ♀, Mt Mantalingayan Palawan isld. Philippines, 77 mm (MHNL).
Pyrops alboroseus Liang, 1998 stat. nov.

Résumé

