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Two new *Polydictya* from Borneo (Hemiptera: Fulgoromorpha: Fulgoridae).

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Polydictya ; new species

Abstract. – Two new Fulgoridae collected in the island of Borneo are described and illustrated: *Polydictya tanjiewhoei* n. sp. and *Polydictya triumphalis* n. sp.

Bosuang S., Audibert C. & Porion T., 2015. – Two new *Polydictya* from Borneo (Hemiptera: Fulgoromorpha: Fulgoridae). *Faunitaxys*, 3(3): 1 – 4.

Introduction

The subfamily Lystrinae Spinola, 1839 has several tribes; the Asiatic fauna concerns only the tribe Poiocerini Metcalf, 1938 and a single subtribe: Poiocerina Metcalf, 1938; four genera belong to it: *Gebenna* Stal, 1863 with only two known species, *Desudaboides* Musgrave, 1927 has five species, *Birdantis* has fifteen, last but not least: *Polydictya* Guérin-Meneville, 1834 has twenty-four known species at the date, we now describe the twenty-fifth and twenty-sixth.

Descriptions

Polydictya tanjiewhoei n. sp. (Fig. 1)

HOLOTYPE, ♀: “East-Malaysia, Sabah, Kipandi, 700 m., 04/01/2005, Steven Bosuang leg.”, (presently stored in Thierry Porion Collection, Jaujac; later to be deposited at C.C.E.C., Musée des Confluences, Lyon, Rhône, France); only this specimen is known.

Description of the holotype (Fig. 1).

Wingspan. – 47 mm.

Head. – Beige to clear brown; *frons* appears from above, *vertex* curved and deeply grooved transversely with all 4 margins carinate.

Thorax. – Beige with brown to dark-brown zones;

pronotum wrinkled with anterior margin carinate and strongly bisinuate, and posterior margin roundly emarginate medially; *mesonotum*, on each side of a broad brown medium line, some brown and beige designs mixed.

Elytra. – Tawny orange; lighter on costal area nearly beige with the small black spots between the veins larger and more numerous in this area; more of these small black inter-veinal blackspots are nearly in a row in the median zone and alongside the anal board; at *apex* on about one fifth of the elytra, the small black spots become more crowded leaving as a transparence small circular zones, apex is as spangled with yellow-orange small round dots.

Hindwings. – Dark brown on nearly two thirds from base, in this area the main veins are deeply underlined in black; *apex* on a good third of the wing fully yellow-orange.

Legs. – Tawny-orange.

Abdomen. – Deep black at its base on a small half, then suddenly cherry red in a good apical half; in the red area, every *abdominal segment* has on its middle and above a small round deep black spot.

Male. – Unknown.

Diagnosis. – At rest, elytra closed, *Polydictya tanjiewhoei* could look very close to several other species of the genus, as *Polydictya lombokana*, *illuminata*, *kuntzi*, *chantrainei*, even *crassa*, whom shape, color and designs

of the elytra are somehow relatively close; the differences on elytra would clearly appear on a closer examen, but most of all, *Polydictya tanjiewhoei* can be distinguished at first glance from any other species of the genus when it opens the elytra; their hindwings are unique among the genus by their large rounded orange apical spot.

Derivatio nominis. – This new species is dedicated to the famous botanist *Tan Jiew Hoe*.

***Polydictya triumphalis* n. sp.**
(Fig. 2)

HOLOTYPE, ♀: “Indonesia, S. Kalimantan, Mt. Bayutawar, April 2009, local collectors”, deposited at C.C.E.C., Musée des Confluences, Lyon, Rhône, France; only this specimen is known.

Description of the holotype (Fig. 2).

Wingspan. – 62 mm.

Head. – Dark green. *Vertex* curved and deeply grooved transversely with all 4 margins carinate.

Thorax. – Ochraceous-green, with two deep impressions on both sides of the median carina; *pronotum* wrinkled with anterior margin carinate and strongly bisinuate; *mesonotum* wrinkled as *pronotum*.

Elytra. – Beige olive with many brown to green spots, greener in the subcostal area, biggest and some areolate rounds in the basal and central parts.

Hindwings. – Red brown on nearly two thirds from base, in this area the main veins are deeply underlined in black; *apex* on a good third of the wing fully yellow-orange.

Legs. – Dark green.

Abdomen. – Deep black with some reddish marks on last abdominal segments.

Male. – Unknown.

Diagnosis. – *Polydictya triumphalis* is close to *Polydictya chewi* but cannot be mistaken with it: the costal margin of elytra is strongly curved, almost straight in *P. chewi*; in more, bigger spots, the more expanded red area on the hingwings and its characteristic green color are enough to separate at first glance this species of *P. chewi*.

Derivatio nominis. – This new species is named in reference to its conspicuous aspect (from Latin, *triumphalis*).

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The authors express their most sincerely thanks particularly to Datuk Sam Mannan, The Director of Sabah Forestry Department, Sandakan, Sabah, East Malaysia, for his kind support to the entomofauna project of Sabah, as probably these descriptions could not have been realized without his support.

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Résumé

Bosuang S., Audibert C. & Porion T., 2015. – Deux nouveaux *Polydictya* de Bornéo (Hemiptera: Fulgoromorpha: Fulgoridae). *Faunitaxys*, 3(3): 1 – 4.

Deux nouveaux Fulgoridae, collectés dans l’île de Bornéo, sont décrits et illustrés: *Polydictya tanjiewhoei* n. sp. et *Polydictya triumphalis* n. sp.

Mots-clés. – Hemiptera, Fulgoromorpha, Fulgoridae, Lystrinae, Poiocerini, Poiocerina, *Polydictya*, Sabah, Malaisie orientale, Kalimantan, Indonésie, Bornéo, taxonomie, espèces nouvelles.



Fig. 1. - *Polydictya tanjiewhoi* n. sp., ♀, holotype, Sabah (East-Malaysia).

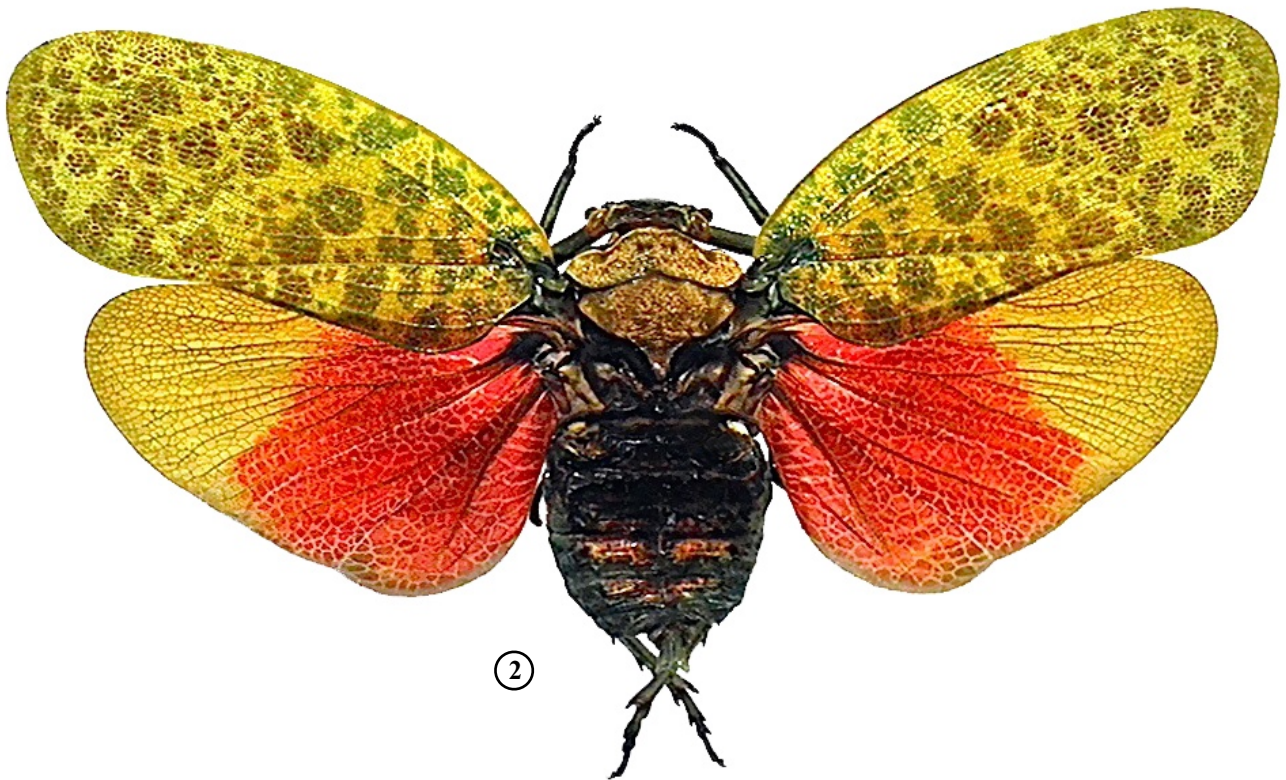


Fig. 2. - *Polydictya triumphalis* n. sp., ♀, holotype, Mt. Bayutawar, S. Kalimantan (Indonesia).



Fig. 3-4. - Biotops from Borneo. Stations of described species: rain forest and view of canopy.

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– les articles doivent être soumis sous leur forme définitive, en **traitement de texte** (MAC ou PC), police «Times New Roman».

– la **présentation générale** du texte doit être conforme à celle des derniers articles parus dans la revue.

– ils peuvent être écrits en **français, anglais, allemand, espagnol** ou **italien**.

– s'ils contiennent des **descriptions**, elles devront suivre scrupuleusement les règles du "*Code international de nomenclature zoologique*".

– quelle que soit la langue utilisée, il est impératif de fournir un **résumé** en français et en anglais.

– les **illustrations** ne doivent pas être incluses dans le texte, mais fournies dans des fichiers à part.

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– les **opinions** émises n'engagent que la responsabilité de leurs auteurs.

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Illustration de la couverture: A suspended footbridge hanging over a river in Borneo.

Crédit: Bernard Lips