TAXONOMIC CHANGES IN ORIENTAL FULGOROIDEA (HEMIPTERA: FULGOROMORPHA)

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Abstract.—Guentheria formosa Lallemand is transferred from the Phenacinae of the Fulgoridae to the Eurybrachidae. *Hellerides* Lallemand of the Limoisini of the Aphaeninae of the Fulgoridae is synonymised with *Zophiuma* Fennah of the Lophopidae. Two new specific combinations Z. guineae (Lallemand) and Z. butawengi (Heller) are established.

Examination of several fulgoroid genera revealed that *Guentheria* Lallemand, previously described in the Phenacinae of the Fulgoridae, is a member of the Eurybrachidae and *Hellerides* Lallemand, previously described in the Limoisini of the Aphaeninae of the Fulgoridae, is a new synonymy of *Zophiuma* Fennah of the Lophopidae. The purpose of the present paper is to report these taxonomic changes.

EURYBRACHIDAE

Guentheria Lallemand, New Placement

Guentheria Lallemand, 1963: 6. Type species: Guentheria formosa Lallemand, 1963: 6, by original designation and monotypy. Referred from Fulgoridae: Phenacinae.

Discussion: *Guentheria* was established by Lallemand (1963) in the Phenacinae of the Fulgoridae to contain a single species *G. formosa* from southern China. Since then, neither the genus nor species has been mentioned in the literature. My examination of three new specimens clearly identifiable as *G. formosa* indicates that *Guentheria* is actually a member of the Eurybrachidae. I am here transferring *Guentheria formosa* Lallemand from the Phenacinae of the Fulgoridae to the Eurybrachidae on the basis of the following characters: (1) eyes spinose beneath; (2) frons broad, broader than long, without median carina, the lateral margins angulate near middle; (3) clypeus without lateral carinae; (4) rostrum flat and short, not extending beyond the hind trochanters, apex bisulcate; (5) antennal pedicel relatively small and with few sensory organs; (6) pronotum short; (7) anterior coxae short, anterior trochanters near the postclypeus; (8) anterior and middle femora and tibiae compressed, more or less dilated; (9) the second hind tarsomere small, without apical spines; and (10) the females have large leaf-like wax plates.

At present, only female specimens of *G. formosa* are available. It is necessary to study the structures of the male genitalia to establish the correct status of the *Guentheria* within the Eurybrachidae.

ORIENTAL FULGOROIDEA

Guentheria formosa Lallemand

Guentheria formosa Lallemand, 1963: 6.

Discussion: Lallemand (1963) originally described *Guentheria formosa* from a single female taken at Canton, Guangdong Province in southern China. I have found three females of this species from Fujian Province in southeastern China.

Distribution: China (Guangdong and Fujian Provinces).

Specimens Examined: CHINA, FUJIAN PROVINCE: 1° , Jiangle, Mt. Longxishan, 18.x.1991 (C. M. Huang); 1° , same locality, but 840 m, 22.vi.1991 (L. L. Yang); 1° , same locality, but 850 m, 24.vi.1991 (W. C. Ma) (all in the Insect Collection of the Institute of Zoology of the Chinese Academy of Sciences, Beijing, China).

LOPHOPIDAE

Zophiuma Fennah

Zophiuma Fennah, 1955: 170. Type species: *Acarna pupillata* Stål, 1863, by original designation.

Hellerides Lallemand, 1962: 1; 1963: 56. Type species: Hellerides guineae Lallemand, 1962, by original designation and monotypy. New Synonymy.

Discussion: Zophiuma was established by Fennah (1955) for Acarna pupillata Stål (1863: 586) (type species) and Kasserota doreyensis Distant (1906: 350) in the Lophopidae. Ghauri (1967: 557) added the third species Z. lobulata.

Lallemand (1962) proposed the new genus *Hellerides* to contain *H. guineae* in the Limoisini of the Aphaeninae of the Fulgoridae. Heller (1966) added the second species *H. butawengi*. A careful reading of both Lallemand's (1962) and Heller's (1966) original descriptions and illustrations shows that both *H. guineae* Lallemand and *H. butawengi* Heller are typical members of *Zophiuma* and that *Hellerides* Lallemand is a new synonym of *Zophiuma* Fennah.

The two species transferred from the *Hellerides* increases the total number of the species of *Zophiuma* to five. They are all described from New Guinea. Further studies may show some new specific synonymies.

Zophiuma guineae (Lallemand), New Combination

Hellerides guineae Lallemand, 1962: 3, figs. 1-6; 1963: 56.

Discussion: This species was described from a single female collected from New Guinea. Lallemand (1962) gave detailed original description and adequate illustrations. The original description and illustrations clearly show that *guineae* belongs in *Zophiuma*.

Distribution: New Guinea.

Zophiuma butawengi (Heller), New Combination

Hellerides butawengi Heller, 1966: 1, figs. 1-6.

Discussion: This species was adequately described and illustrated by Heller (1966) from a single female taken in New Guinea. The original description and illustrations clearly show that it belongs in *Zophiuma*.

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Distribution: New Guinea.

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