NOTES ON ORTHELLIA R.-D. FROM THE ORIENTAL REGION (Diptera: Muscidae)

By Satoshi Shinonaga

Abstract: Descriptions of a new species, *O. ruficornis* n. sp. from Viet Nam, of the ♂ of *O. fletcheri* Emden, and a redescription of *O. sperata* (Walker) are presented here. *O. fletcheri* is newly recorded from India, Nepal, Thailand, and Viet Nam.

Orthellia ruficornis Shinonaga, new species

♂. Body length 6.0 mm. Head: Eyes bare, facets of upper 1/2 not enlarged; frons narrow, narrowest point about 2 x width of ocellus; parafrontals and parafacials metallic black, lower part of parafrontals and upper part of parafacials with a pair of silver patches; genae and metacephalon black with black hairs; gena about 1/10 of eye height; 2nd antennal segment dark brown, 3rd orange with greyish pollen and about 3 x length of 2nd; arista yellowish brown, feathered; palpi dark brown, slender; lateral part of occiput metallic blue-green. Thorax: Scutum and scutellum metallic blue-green, entirely covered with setiferous spots; ac 0+0; dc 0+1; ia 0; prs 0; h 1; ph 0; nt, sa and pa 2; scut 0+2; st 0+1; prosternum hairy; propleuron bare; hypopleuron with fine hairs on upper part; meso- and metathoracic spiracles dark brown, metathoracic spiracle with several hairs on posterior part. Wings: Hyaline; basal 1/2 without setiferous spots; veins yellowish brown; r4+5 with a row of short setae on dorsal and ventral surfaces; m1+2 bow-shaped, generally bending anteriorly; R4 open; basi-costa brown; epaulet dark brown; subcostal sclerite yellowish brown with several black hairs; section III of costa about 4/5 length of section V; costal spines extending to basal 1/3 of section V; squamae yellow with yellowish marginal cilia, lateral halves of upper squamae whitish; halter yellow. Legs: Femora and tibiae dark brown, tarsi yellow; fore tibia with a row of short bristles on anterodorsal surface, several hairs on ventral surface; mid tibia with 5 bristles on posterolateral surface, 1 bristle at distal 1/3 of posteroventral surface; hind tibia with 3 bristles on middle part of anteroveltral surface. Abdomen: Metallic dark bluish green; marginal bristles weak; 5th tergite with long hairs; sternites dark brown with black hairs; genital tergite metallic bluish green; genitalia as shown in fig. 1.

♀. Body length 4.5-6.0 mm. Frons about 1/4 width of head; frontal vitta narrow and slender, about 1/2 width of parafrontals and with greyish pollen; parafrontals metallic black with greenish iridescence and numerous fine hairs; frontal bristles weak; lower part of parafrontals and upper part of parafrontals with silvery rounded spots, which on the upper most part become rectangular; 3rd antennal segment broader than that of ♂, about 1/2 as wide as long; fronto-orbital bristles absent; outer vertical bristles well developed; genitalia as shown in fig. 1.

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2. Department of Entomology, B. P. Bishop Museum. Present address: Department of Medical Zoology, Tokyo Medical & Dental University, Tokyo.
Fig. 1. *Orthellia ruficornis* n. sp.: a, phallosome; b, right wing; c, ♂ head; d, ♀ head; e, cerci; f, paralobi; g, sternites of ♂; h, sternites of ♀; i, dorsal view of ovipositor; j, ventral view of ovipositor.
Holotype ♂ (BISHOP 9156), M'drak, E of Ban Me Thout, Viet Nam, 8-19.XII.1960, C. M. Yoshimoto. Allotopotype ♀ (BISHOP), same locality as holotype, S. Quate.

Paratypes: 2 ♀♀, same data as holotype, C. M. Yoshimoto & S. Quate.

Remarks: This species is closely related to O. claripennis and O. diffidens, but it differs from them by having yellow tarsi and orange antennae. Setiferous spots on dorsum are clearer than those of the other species.

Orthellia sperata (Walker) Fig. 2.


♂. Body length 6.5-7.5 mm. Head: Eyes sparsely covered with microscopic hairs, facets of upper part not enlarged; frons slightly open, at narrowest point a little narrower than width of 3rd antennal segment; parafrontals and parafacials black with golden pruinescence, bare; genae and metacephalon black with numerous black hairs; gena about 1/6 height of eye; face dark brown with grayish pollen; 2nd antennal segment dark brown or brown, 3rd segment dark brown with grayish pollen and about 2× length of 2nd; arista dark brown, feathered; palpi dark brown, slender; occiput black. Thorax: Metallic green, with blue and purple iridescence; ac 0+1; dc 1+3; ia 0+1; prs 1; h 3; ph 1; mt 2; sa 3; pa 2; scut 1+2; st 1+3; prosternum hairy; propleuron bare; meso- and metathoracic spiracles dark brown. Wings: Hyaline; slightly infuscated toward base of wing; r₁ bare; r₄+₅ with a row of short setae on dorsal and ventral surfaces; m₁+₂ bow shaped, bending anteriorly; basicosta dark brown; epaulet black; subcostal sclerite brown with several hairs; squamae brown with brownish

Fig. 2. Orthellia sperata (Walker): a, cerci; b, paralobi; c, pallosome.
marginal cilia; halter brown. **Legs**: Dark brown; fore tibia with only preapical bristles; mid tibia with 4 bristles on posterolateral surface, 1 bristle at distal 1/3 of posteroventral surface; hind tibia with a row of short bristles on anterodorsal surface, 1 bristle on distal 1/3 of dorsal surface. **Abdomen**: Metallic green or blue with golden iridescence; marginal bristles developed on 4th tergite; 2nd genital tergite greenish, with black hairs; sternites dark brown with numerous black hairs. Genitalia as shown in fig. 2.

**Specimens Examined.** BORNEO: 11 ♂♂, 72 ♀♀, Kalabakan, 10-19.XI.1958, T. C. Maa; 54 ♂♂, 17 ♀♀, Forest Camp, 19 km N of Kalabakan, IX-X.1962, Maa.

**Remarks.** Malloch (1928) has described *O. trispina* with the ♀ specimen. According to Aubertin (1933) and van Emden (1965), *O. trispina* is a synonym of *sperata*. Malloch's type was compared with *sperata* from North Borneo and reaffirmed that *trispina* Malloch is a synonym of *sperata*.

**Orthellia fletcheri** Emden

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♂. Body length 7.0–9.0 mm. **Head**: Eyes with sparsely microscopic hairs, facets of upper 1/2 remarkably enlarged; frons narrow, narrowest part closed each other; parafacials narrow and upper part of paracrices black or reddish brown with fine hairs; genae and metacephalon black with greenish pollen and numerous black hairs; gena about 1/4 of eye height; face and epistoma black with grayish pollen; vibrissae inserted above mouth margin; 2nd antennal segment dark brown, 3rd segment reddish brown with grayish pollen and about 3× 2nd segment; arista brown, feathered; palpi dark brown, slender; lateral part of postocular margin metallic blue-green; postocular setae black; occipital hairs black. **Thorax**: Scutum metallic dark green with bluish dust with 2 dark obscure longitudinal stripes; scutellum purplish without pollen; ac 0+1; de 2+4; ia 0+2; prs 1; h 3; ph 1; nt 2, sa 2; pa 2; scut 1+2; st 1+2–3; prosternum hairy; upper part of propleuron bare; pteropleuron with numerous hairs; hypopleuron with numerous fine hairs; suprasquamal ridge with numerous hairs; supraspiracular convexity with brownish cilia; tympanic tuft of hairs present; postalar declivity bare; meso- and metathoracic spiracles dark brown; metathoracic spiracles with black bristles on posterior

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Fig. 3. *Orthellia fletcheri* Emden: a, phallosome; b, cerci; c, paralobi.
parts. **Wings**: Hyaline; veins dark brown; r₁ bare; r₄₊₅ with a row of short setae on the dorsal and ventral surfaces; m₄₊₅ rather sharply bending forward; basicosta and epaulet black; subcostal sclerite brown with black hairs; R₅ open; squamae blackish brown, lateral parts of upper squamae grayish, marginal cilia dark brown, lower squamae broad posteriorly; halter yellowish brown, apical part darker. **Legs**: Femora black or dark brown; fore tibia with a row of short bristles on anterodorsal surface; mid tibia with 4 bristles on posterolateral surface, 1 bristle at distal 1/3 of posterolateral surface; hind tibia with 2 or 3 bristles on anteroventral surface, a row of short bristles on anterodorsal and posterodorsal surface. **Abdomen**. Metallic blue-green with purplish reflection; marginal bristles weak; 5th tergite with numerous long hairs; sternites black with greenish pollen and black hairs; genital tergite metallic blue-green. Genitalia as shown in fig. 3.


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**References**


