

VII.—Notes on Chalcidites, and Descriptions of various new species. By FRANCIS WALKER, F.L.S.

[Continued from vol. ix. p. 43.]

Perilampus maurus, mas. *Ater, antennis apice ferrugineis, tarsis fulvis, alis limpidis.*

Body black: head as broad as the chest, nearly smooth, slightly shining; hind part slightly striated across; front shining, very deeply excavated, extending on each side of the face and of the epistoma which are small and rhomboidal; epistoma larger than the face: mouth pitchy: feelers nearly filiform, black, ferruginous towards their tips which are conical: chest coarsely and deeply punctured, dull, hairy: abdomen smooth, shining; ventral plate dull, slightly striated: legs black, clothed with short tawny hairs; feet tawny: wings colourless, very pubescent; veins pitchy; humerus at some distance from the fore-border, less than half the length of the wing; ulna about one-third of the length of the humerus; radius rather more than half the length of the ulna; cubitus full one-third of the length of the radius; brand small, not furcate. Length of the body $2\frac{1}{2}$ lines; of the wings 5 lines.

Port Natal. In the British Museum.

Eupelmus basicupreus, fem. *Viridis, axillis et scutello nigris, metathoracis lateribus auratis, abdomine cupreo basi micante, antennis nigris, pedibus fulvis, femoribus viridibus, alis sub-fulvis.*

Body green: head very little narrower than the chest, coarsely punctured; crown black; channel for the reception of the first joint of the antennæ very deep, finely squamous, bright green with a blue disc: eyes large: feelers black, slender, filiform, more than half the length of the body; first joint green, very long, slightly curved; second bright green: axillæ and scutellum black; axillæ very large, nearly contiguous; scutellum obcordate, with a very slight longitudinal suture: sides of the hind-chest golden green: abdomen cupreous black, nearly spindle-shaped, depressed above, keeled beneath, bright cupreous at the base, rather less than twice the length of the chest; sheaths of the oviduct black, ferruginous towards the tips, extending beyond the abdomen to one-fourth of its length: legs tawny; thighs bluish green; fore-shanks black at the base; a ferruginous band near the base of each hind-shank: wings slightly tinged with tawny; veins tawny; humerus rather more than one-third of the length of the wing, slightly widened towards its tip; ulna a little shorter than the humerus; radius much shorter than the ulna; cubitus about one-fourth of the length of the ulna, slightly curved; brand very small. Length of the body $2\frac{1}{2}$ lines; of the wings $4\frac{1}{2}$ lines.

Para. In the British Museum.

to Sparasion Sinense, mas. *Viridi-cyaneum, abdomine cyaneo-purpureo, antennis pedibusque nigris, femoribus cyaneis, tibiis tarsisque anticis piceis, alis subfuscis.*

Body convex, rather hairy: head and chest dark greenish blue, roughly punctured: eyes and eyelets piceous: feelers black, nearly filiform, shorter than the chest; first joint long, stout, shining; second short, cup-shaped; third very long, subclavate; fourth and following joints to the tenth short, transverse, nearly equal in size, but gradually decreasing in length and breadth towards the tips of the feelers: fore-chest extremely short, forming a narrow line in front of the middle shield, the sutures of whose parapsides are distinct; scutcheon obconical: hind-chest obconical, declining: breast smoother than the chest; the punctures being fewer and smaller: petiole very short: abdomen long spindle-shaped, thickly striated, bluish purple, bluish green at the tip, narrower than the chest and about twice its length; sides nearly smooth or having only a few indistinct punctures: legs black, hairy; hips and thighs shining, the former dark blue; fore-shanks and fore-feet piceous: wings slightly brown, somewhat darker along the fore-borders from the middle to the tips; veins brown. Length of the body 4 lines; of the wings 6 lines.

Fou-chou-fou, China. In the British Museum.

Smiera torrida, fem. *Fulva nigro varia, capite antico flavo, antennis nigris subtus ferrugineis, pedibus fulvis, femoribus anterioribus flavis, tibiis posticis nigro vittatis, alis ad costam subcinereis.*

Body tawny, roughly punctured, thinly clothed with short tawny hairs: two black spots behind the head; front and face yellow: feelers black, filiform, ferruginous beneath and at the tips; first joint tawny: three black stripes on the shield of the middle chest; the inner one obconical; the side pair oblique, slightly waved, tapering towards the fore-border; axillæ black, parted by near one-third of the breadth of the scutcheon, which has a triangular black spot resting on its hind-border: propodeon smooth, shining: petiole slender, cylindrical, a little longer than the propodeon, with a short black stripe on each side: abdomen spindle-shaped, smooth, shining, punctured towards the tip, more than twice the length of the petiole; metapodeon large; octoon about half the length of the metapodeon; ennaton, decaton and protelum together as long as the octoon; paratelum and telum of equal length, together longer than the octoon; ventral segments concealed: legs tawny; anterior thighs yellow; a black stripe on each hind-hip; hind-thighs armed beneath with seven teeth whose tips are black; first and second very small, the other five large; a black stripe on each hind-shank: wings very pubescent, slightly gray along the fore-border; veins tawny; supplementary veins distinct as in other large species; humerus much more than one-third of the length of the wing; ulna less than half the length of the humerus; radius as long as the ulna; cubitus not more than one-sixth

of the radius; brand very small. Length of the body $4\frac{1}{2}$ lines; of the wings 8 lines.

Para. In the British Museum.

Smiera nigro-rufa, mas. *Rufa, nigro varia, petiolo nigro, abdomine rufo, antennis nigris, alis limpidis.*

Body red, roughly punctured: head black; sides of the front tawny: mouth tawny: feelers black: breast, hind-chest, paraptera, axillæ and sides of the middle chest black: three black stripes on the shield; the side pair broad and oblique; a three-lobed black mark on the scutcheon: petiole black, slender, cylindrical, smooth, shining: abdomen smooth, shining, short, globose, less than twice the length of the chest: legs red; hips black; anterior thighs black at the base; middle shanks striped with brown towards the base; hind-shanks at the base and at the tips and hind-feet black: wings colourless; veins brown; humerus near half the length of the wing; ulna not one-third of the length of the humerus; radius much longer than the ulna; cubitus about one-fourth of the ulna; brand rather large, slightly forked. Length of the body $2\frac{1}{2}$ lines; of the wings 5 lines.

East Indies. In the British Museum.

Callimome cyaneus, Kollar, fem. *Purpureus cyaneo viridique varius, antennis nigris, pedibus fulvis, femoribus purpureis, metatibiis piceis, alis limpidis.*

Fem. Body purple, pubescent, varied with green and blue: feelers black, subclavate, a little shorter than the thorax; first joint fulvous: head and thorax punctured, in structure like the other species of *Callimome*: podeon very short: abdomen purple, smooth, shining, nearly as long as the thorax; metapodeon blue, green at the base: legs fulvous; coxæ and thighs purple; metatibiæ piceous; tips of the tarsi piceous: wings limpid, rather short; nervures fuscous; ulna much shorter than the humerus; radius very short; cubitus a little shorter than the radius; stigma very small; oviduct fulvous, much longer than the abdomen; its sheaths black.

Inhabits Germany.

CHALCEDECTUS, n. g.

Eupelmo affinis, at quoad pedes posticos *Chalcidi* similis.

Chalcedectus maculicornis, fem. *Viridis, cupreo cyaneo et purpureo varius, antennis nigris, articulo 5° supra albo, tarsis piceis, tarsis intermediis nigris basi flavis, alis fusco subnebulosis.*

Body brilliant green, narrow: head a little narrower than the chest: crown narrow; front largely and deeply punctured, with a very deep almost smooth bluish green channel for the reception of the first joint of the feelers; face broad: mouth pitchy: eyes rather large: feelers black, filiform, slender, as long as the chest; first joint very long; second linear, long, nearly half the length of the first; third

and fourth indistinct; fifth white above, a little shorter than the second; the following linear, very compact, successively decreasing in length: chest spindle-shaped: fore-chest broader than long, rounded in front, much lower than the middle-chest, very finely shagreened: shield and scutcheon of the middle-chest very largely and deeply punctured: shield rather flat, adorned with a broad coppery band whose edges are tinged with blue and purple; sutures of the parapsides distinct; axillæ parted by about one-third of the breadth of the chest; scutcheon obconical, with a coppery spot at its base: hind-chest small, subquadrate, finely punctured, with two or three slight cross ridges: propodeon and pondeon short: abdomen lanceolate, longer and a little narrower than the chest, slightly pubescent, transversely and very finely striated, almost flat on the disc towards the base, adorned above with coppery purple and blue colour; metapodeon of moderate length; octoon shorter; ematon longer; decaton shorter; the three following segments short; underside finely punctured, not keeled, dorsal segments approximate beneath, parted only by two linear, parallel, very slender plates which extend along the whole length of the body: legs green, slightly pubescent, adorned with blue and purple colour: fore-thighs rather thick; fore-shanks purple, armed at the tips with a slender curved spine; fore-feet pitchy, tawny at the base; middle thigh long and slender, grooved beneath; tip of each middle shank armed with a stout straight tawny spine; middle feet black, pale yellow at the base; hind-legs formed like those of *Chalcis*; hips long; thighs very large, armed beneath with seven oblique teeth, those towards the tips are small; shanks very much curved, widening from the base to the tips; hind-feet pitchy, with a slight metallic tinge: wings almost colourless, fore-wings slightly clouded with brown in the disks and with gray at the tips; veins black; humerus much more than one-third of the length of the wing; ulna about one-third of the length of the humerus; radius nearly as long as the humerus, extending almost to the tip of the wing; cubitus straight, very slanting, less than one-fourth of the length of the radius, widening from its source to the brand which is small; a few supplementary veins in the disk, as is usual in the large species of the tribe. Length of the body 5 lines; of the wings 6 lines.

Para. In the British Museum.

This is one of the tropical forms whose characters are more compound or complicated than those of any genera which inhabit more temperate regions; and may be considered either as a connecting link between families, or as a common and governing centre, representing various remote groups, and associating them together. It comes between the *Pteromalidæ* and the *Eupelmidæ*, and is one of the *Cleonymidæ*, and is most allied to *Lycisca*; but it has the head of *Perilampus*, the thoracic sculpture of the *Perilampidæ* and the *Eurytomidæ*, and the hind-legs of the *Leucospidæ* and of the *Chalcidæ*.



Walker, Francis. 1852. "Notes on Chalcidites, and descriptions of various new species." *The Annals and magazine of natural history; zoology, botany, and geology* 10, 45–48.

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