

ON TWO NEW AND SOME OTHER JAPANESE SPECIES OF
EPHEMERIDÆ.

BY THE REV. A. E. EATON, M.A., F.E.S.

The two new species described below were acquired by Mr. McLachlan from the collections formed by the late Mr. H. J. S. Pryer in Japan. With them were certain undescribed conditions of already known species, and also specimens belonging to the genera *Ephemerella*, *Chirotonetes*, *Iron*, *Heptagenia*, and *Ecdyurus*, mostly in the sub-imago stage, and it is, therefore, not desirable to give descriptions of them; they are here mentioned in connection with the generic distribution of *Ephemeridæ*.

EPHEMERA STRIGATA, *sp. nov.*

Imago (dried), ♂. Rather similar to the European *E. vulgata*. Wings transparent light brownish piceous-grey, with pitch-black neuration (or, where the nervures are most attenuated, pitch-brown), margined very narrowly with pitch-brown; fore-wing with a narrow transverse pitch-brown stripe, extending from the costa to the anterior branch of the pabrachial nervure, and emitting an acute projection about the middle into the axil of the fork of the præbrachial nervure; the sub-marginal area pitch-brown towards the base. Hind-wing narrowly tinted with pitch-brown along the terminal margin, and sometimes with a light pitch-brown spot in the middle on cross veinlets that meet the cubitus opposite the fork of the sector. Body pitch-brown; a stripe along each side of the pronotum, and in segments 1—6, or 7, of the abdomen a right-angled triangular spot pointing forwards on each side of the dorsum of the segment, pitch-black. Ventral segments striped obliquely with black from the posterior lateral angles to near the middle of the base. Fore-leg pitch-black, towards the base of the femur browner; trochanter and coxa light pitch-brown. Hinder-legs dull yellowish-amber colour. Setæ pitch-brown; the joinings slightly darker.

♀. Very similar; no spot in the hind-wing; fascia in the fore-wing almost broken up into spots; wing membrane only very faintly tinted.

Sub-imago. Not notably different from the imago, excepting in the dulness of the wing.

Length of body, ♂, 15—18 mm.; ♀, 20 mm.; wing, ♂, 17—19 mm.; ♀, 22 mm.; setæ, ♂ im., about 40 mm.; ♀, about 26 mm.; sub-im., ♂, about 17 mm.

Gifu, Nippon; April—May, 1886; 2 sub-im., 11 ♂ and 1 ♀ im.

DIPTEROMIMUS TIPULIFORMIS, McLach.

Sub-imago (dried), ♂. Wings uniformly light grey, with piceous neuration. Setæ 3, pitch-brown, sub-equal to one another.

Gifu, Nippon; ♂, 1 im., 1 sub-im.

SIPHURUS BINOTATUS, *sp. nov.*

Imago (dried), ♂. Wings vitreous, with pitch-black neuration; opposite or adjoining the bulla of the sub-costa in the fore-wing, the few cross veinlets col-

lected together at the radius and bordered narrowly with pitch-brown, are apt to produce a small spot by the confluence of their bordering; the weaker of the nervures at the wing-roots, and the base of the costa, are light pitch-brown, and the neighbouring membrane only very slightly tinged with yellowish amber-grey; perostigmatic region also very slightly tinted with pale sepia-grey. Body dull pitch-brown above; the apical borders of the abdominal segments, especially at the sides, darker, the darker colour extending thereabouts towards the base obliquely below a brown-ochreous space at the base of the segment; posterior lateral angles of the dorsum of the penultimate segment produced acuminate, somewhat as in *S. armatus*. Venter pitch-brown, with bright brown-ochreous joinings; the depressions in the neighbourhood of the genitalia also brown-ochreous or ferruginous. Anterior tibiae pitch-brown, the tarsi lighter; posterior legs and anterior femur rufopiceous or sub-ferruginous.

♀. Very similar to the male.

Length of body, ♂, 16—17 mm.; wing, 17—19 mm.

Japan; 2 ♂ im., and many ♀ im.

BLEPTUS FASCIATUS, Etn.

Sub-imago (dried), ♀. Wings transparent light brownish-grey, marked as in the ♂ imago, with a darker tint of the same grey; marginal and sub-marginal areas in the fore-wing, together with the costa and the greater part of the next two nervures light reddish-brown, approaching light vandyke-brown.

Length of body, 12 mm.; wing, 18 mm.

Gifu, Nippon; April—May, 1886; 1 ♀ sub-im.

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DESCRIPTION OF A NEW SPECIES OF *RHIZOPHAGUS*.

BY W. G. BLATCH, F.E.S., AND A. C. HORNER, F.E.S.

RHIZOPHAGUS OBLONGICOLLIS, *sp. n.*

General appearance.—Of a ferruginous colour throughout, although the head and thorax are occasionally somewhat dusky or pitchy; it is more convex or cylindrical than the other species, except *R. nitidulus*, to which it most nearly approaches.

Head rather elongate, very slightly narrowed behind, scarcely as wide as thorax, uniformly punctured, the punctures being distinct but not close, scarcely if at all impressed on each side of forehead. Eyes rather small, and not very prominent. Antennæ ferruginous; 1st joint large, dilated on the inner side, 2nd subglobose, 3rd elongate, about $1\frac{1}{2}$ times as long as 2nd, 4th to 8th short, length and width about equal, 9th a little larger and slightly transverse, club ovate. Thorax oblong, parallel-sided, all angles completely rounded off, margined at sides and base, punctuation not close, a little stronger than that of head, a distinct but very small narrow space behind centre smooth, base gently emarginate. Scutellum with an impression at apex. Elytra elongate, narrowed behind, rather finely and closely punctured in regular rows, the sutural rows only being in evident striæ, punctuation at sides finer than on disc, interstices equal, flat, and finely alutaceous, the sutural

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“Kann euch nicht eben *ganz* verstehen?

Das wird nächstens schon besser gehen,
Wenn ihr lernt *alles* reduciren
Und gehörig klassificiren.

Mir wird von *alle* dem so dumm,
Als ging' mir ein Mühlrad im Kopf herum.”

Goethe.



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