SOME NEW ORIENTAL *CYMATOPHORIDAE* IN THE TRING MUSEUM.*

By W. WARREN, M.A., F.E.S.

1. *Gaurena marmorata* spec. nov.

Forewing: brownish ochreous suffused with darker brown; two black spots outwardly margined with white in a line beneath median vein at base; inner line white, oblique, blotchy to submedian fold, below it forming a crescent externally and angled basewards on vein 1; three oblique crinkly dark brown lines, forming a sort of inner band; four blackish brown lines, all angled outwards in the middle of wing, forming an outer band; on the costa, the median vein and veinlets, and vein 1, the pale spaces between all these lines become white and the dark lines themselves blacker; the outer band is limited, as the inner is, preceded by a blotchy white line, which is continuous only at costa and inner margin, followed here by a velvety black block at anal angle, and on costa by a brown triangle; subterminal line a row of white vein-spots, that on vein 2 larger and yellowish, emitting an angled line beyond the black anal blotch; towards costa it becomes continuous, and is met by an oblique white streak from below apex, above which is a whitish brown-sprinkled apical blotch; a row of large white lunate spots before termen; fringe pale brown; orbicular stigma a large white spot; reniform two small white dots placed obliquely on the discocellular.

Hindwing: ochreous with a diffuse grey subterminal band and greyish suffusion; the fringe and termen paler.

Underside uniform glossy ochreous.

Head, thorax, and abdomen ochreous, the thorax spotted with brown; palpi externally and front of pectus dark brown; forelegs brown-spotted.

Expanse of wings: 42 mm.

The ♂♂ nearly always darker than the ♀♀.

2 ♀♀ from the Angabunga River; 1 ♂ from Biagi, Mambare River; 6 ♂♂, 2 ♀♀ from Mt. Goliath, Central Dutch New Guinea, 5000—7000 ft., January 1911 (A. S. Meek) (type).

2. *Gaurena papuata* spec. nov.

Forewing: pale olive, suffused in parts with dark olive fuscous; inner line white, fine and mixed with olive above middle, projecting and twice bent below, broadly white, then inbent, dentate inwards on vein 1 and above inner margin, preceded below median by dark suffusion; outer line outcurved, lunulate-dentate, marked with white from costa to vein 6 and again from vein 2 to inner margin, where it is followed by a black triangular mark; from costa to vein 4 it is followed by a pale olive curved band with darker centre; median area, except on inner margin below vein 1, suffused with dark fuscous, the dark waved cross lines alternated with olive lines; orbicular stigma a white dot; a large white apical blotch, narrowing to a point at vein 6, connected by three white dots on veins 3, 4, 5 with

* The manuscript of this article was among the papers left by the late Mr. W. Warren.—K. J.

an angulated white mark on inner margin beyond the black triangle ; a row of white black-edged spots before termen ; fringe pale olive.

Hindwing : dull greyish ochreous with darker subterminal shade.

Underside ochreous, the costa of forewing browner ; tips of fringe of forewing black.

Face, terminal segment of palpi, and thorax yellowish ; tegulae, rest of palpi, pectus, and legs fuscous.

Expanse of wings : 36 mm.

1 ♂ from Mt. Goliath, Central Dutch New Guinea, 5000—7000 ft., January 1911, 1 ♂ Biagi, Mambare River (A. S. Meek) (type).

3. *Habrona concinna* spec. nov.

Forewing : black-brown, inner and outer lines slender, ochreous ; the inner obliquely curved outwards and roundly bent on submedian fold, inangled on vein 1 ; the median vein ochreous from base to inner line, which is slightly inbent at the point ; outer line bluntly rounded in midwing ; orbicular stigma obsolete ; reniform black with a snow-white or yellowish dot at centre ; on each side of it a pair of waved black lines, sometimes united below middle, where the inner margin is sometimes paler brown ; veins at termen forming pale brownish ochreous spikes, that on vein 2 reaching outer line, finely white-edged, and with a white angled line below it to vein 1 ; a paler apical blotch and submarginal shade scarcely visible ; terminal area pale brown beyond a fine white line interrupted by the veins ; fringe brown, paler in outer half and rayed with darker.

Hindwing : fuscous, paler at base ; the veins at termen and the fringe ochreous.

Underside greyish fuscous ; the inner margins of both wings ochreous ; tips of fringe of forewing dark.

Head and thorax black-brown ; abdomen greyish ochreous ; pectus whitish ; forelegs dark with the joints ochreous.

Expanse of wings : 48–52 mm.

3 ♂♂, 3 ♀♀ from Mt. Goliath, Central Dutch New Guinea, 5000—7000 ft., January 1911 (type) ; 1 ♂, 1 ♀ from Biagi, Mambare River, 5000 ft., British New Guinea, April 1906 (A. S. Meek).

4. *Habrona caerulescens* spec. nov.

Forewing : dark olive-fuscous ; the median area crossed by five blackish waved lines angled at middle, of which the median is thickest ; other lines bluish white ; subbasal line indicated by diffuse scales in basal area ; inner line waved, oblique to submedian fold, then inbent, more diffuse and partially double above middle ; outer obscurely lunulate-dentate, outwardly oblique, bent below vein 4 and inangled on veins 1 and 2, more distinctly double above middle ; subterminal line zigzag from costa to vein 6, forming inner edge of a slightly paler apical blotch, then interrupted, and again forming a slight angular mark on vein 2 beyond outer line ; stigmata marked by bluish-white dots ; a row of bluish-white dashes before termen ; fringe concolorous.

Hindwing : fuscous ; the base and inner margin ochreous.

Underside grey ; the inner margins ochreous.

Head, thorax, pectus, and forelegs fuscous ; abdomen greyish ochreous.

Expanse of wings : 50 mm.

8 ♂♂, 1 ♀ from Mt. Goliath, Central Dutch New Guinea, 5000—7000 ft., February 1911 (type), and 1 ♂ from Biagi, Mambare River (A. S. Meek).

5. *Palimpsestes semiobsoleta* spec. nov.

Forewing : pearl grey ; subbasal line angled outwards below costa and forming an oblique black dash near base of submedian fold, with a reddish tinge around and below it ; inner line bigeminate, forming a dark band ; the innermost line divergent and marked with a black spot on vein 1 ; the outermost, blackest, oblique and excurved below middle, then indented ; the space beyond grey with the lines subobsolete ; outer line treble, marked on costa mainly, followed at a distance by another equally obscure, and preceded by the crenulate median line, which passes between the stigmata ; these are small, pale grey, the orbicula round, the reniform long and narrow ; subterminal line indicated by some black marks beyond it, ending above in a curved black streak to apex ; close before termen a row of black dashes between veins ; fringe white, cut with dark grey beyond veins.

Hindwing : pale dull grey, with broad fuscous terminal border and indistinct dark outer band ; fringe white.

Underside glossy pale grey ; terminal borders darker ; costa of forewing striped with dark grey.

Head, thorax, and abdomen mixed dark and light grey ; underside and legs pale grey ; the tarsi dotted with black.

1 ♂ from Pengalengan, Preanger, Java. Nearest to *orbicularis* Moore, *anguligera* Hmps., etc.

6. *Polyploca curvicosta* spec. nov.

Forewing : dull grey tinged with brownish ; the inner line fine and black, at one-third, curved, bent on submedian fold ; preceded by two dark lines at costa, which become divergent and double towards inner margin, more or less filled in with dark, forming a band ; a black spot near base of submedian fold, followed by a tuft of pale scales ; outer line fine and black, with another parallel close beyond it, outcurved above, bent inwards at vein 4, and indented on submedian fold, where it approaches inner line ; followed by two dark-grey outcurved strongly lunulate-dentate lines ; subterminal line pale, lunulate, followed by dark lunulate marks, and met by a strong black streak from apex ; a fine black terminal festoon ; fringe grey, with a fine pale line at base ; stigmata plumbeous, outlined with yellow ; the orbicular rounded, placed above the cell-fold ; the reniform somewhat pyriform, broad below and curved beneath orbicular ; a small round plumbeous spot ringed with yellowish above vein 6 beyond the outer line.

Hindwing : fuscous brown, darker along termen ; the fringe pale brown.

Underside glossy grey, the termen darker in both wings ; costa of forewing beyond middle whitish grey, swollen into a small triangular blotch just below apex.

Head, thorax, and abdomen rufous grey ; palpi pale, with the upper edge broadly and two narrow lateral lines externally, dark olive.

Expanse of wings : 32 mm.

1 ♂ from the Khasia Hills, Assam, November 1896 (native collector). Distinguished by the shorter forewing with strongly curved costa.

7. *Polyploca nigripunctata* spec. nov.

Forewing: bluish white speckled with pale grey; the inner and outer bands and the terminal area tinged with brownish; inner line black, waved, from two-fifths of costa to near middle of inner margin, as in *renalis* Moore, preceded by three thick waved dark lines filled in with brown; a dark spot near base of submedian fold, followed by a black pointed dash; the basal area limited by a curved dark line; outer line black, double, vertical at costa, then excurved to vein 2 and again to vein 1, approaching inner line on inner margin; a pale and dark grey dentate line beyond; subterminal line white, defined by the dark terminal area beyond, and an oblique black streak from apex; a black terminal festoon; the fringe dark grey; orbicular stigma round, formed by a tuft of black scales; reniform elongate, white with some raised scales, outlined with black; a fine dentate-lunulate median grey line.

Hindwing: dull fuscous.

Underside glossy whitish grey, with a paler outer band in both wings; costa of forewing white, with two black patches beyond middle, and three black spots before apex.

Head and thorax dark and light grey mixed; tips of tegulae and upper edge of palpi blackish; abdomen wanting.

Expanse of wings: 32 mm.

1 ♂ from Sikkim, September 1889 (Col. Pilcher).

8. *Polyploca griseata* spec. nov.

Forewing: dull cinereous, speckled with blackish, most thickly in terminal area; a blackish spot at base on submedian fold; inner line black, before one-third, evenly outcurved and insinuate on vein 1; preceded by two indistinct dark parallel lines; the basal area limited by a thicker curved wavy line; outer line black, concave outwards from costa to vein 4, on which it is bent, then oblique inwards to submedian fold, and vertically sinuous to inner margin, followed immediately by a dark parallel line and at a distance by a dark wavy line; subterminal line pale grey between blackish shades, met by a curved black streak from apex; a black terminal festoon; fringe dark grey with thick middle line and bright pale basal line; stigmata pale with black outlines; the orbicular large, rounded; the reniform narrow, inwardly oblique, with a dark linear centre; the orbicular is filled up with dull yellowish, showing glossy in certain lights.

Hindwing: fuscous, the veins darker; the fringe whitish with a grey line. Underside shining pale brownish grey, with a faint outer band in both wings between slightly darker lines; costa of forewing whitish, more broadly in apical half, where it is marked by two short dark streaks and three black strigae.

Head, thorax, and abdomen pale and dark grey mixed; tarsi grey dotted with black.

Expanse of wings: 42 mm.

1 ♂ from Kangra (Hocking) from the Elwes collection.

Nearest to *orbicularis* Moore, but certainly distinct.

9. *Polyploca castaneata* spec. nov.

Forewing: fawn-colour, shaded on each side of the narrow central area and along inner margin in basal half with dull chestnut-brown; an oblique black

streak near base on submedian fold; inner line just before middle black, slightly curved, and indented on each fold, preceded by two curved brown shades, the inner strongly outcurved at middle; median fascia extremely narrow, towards inner margin whitish; the outer line blackish, slender, crenulate, and slightly projecting on vein 4, followed by two thick brown shades with deeper centres, and then by a black lunulate-dentate line, angled above vein 5; subterminal line pale fawn between darker shades, met at vein 6 by a thick somewhat interrupted streak from apex; a row of fine black lunules before termen; orbicular and reniform stigmata represented by linear black marks of raised scales, with some paler scales on their inner edge, lying on the inner and outer lines respectively; fringe pale fawn, rayed with darker, with a dark broad middle line and bright pale basal line.

Hindwing: brownish fuscous; the fringe pale, with thick dark middle line.

Underside dull cinereous; each wing with three dark curved lines in outer half, the middle one dentate on the veins; costa of forewing fawn-colour.

Head, thorax, and abdomen fawn-colour; the tegulae with two ill-defined lines and their tips blackish; tarsi with the joints blackish; foretibiae in front with three black dots.

Expanse of wings: 34 mm.

1 ♂ from Sikkim, August 1889 (Col. Pilcher).

10. *Polyploca nigrifasciata* spec. nov.

Forewing: whitish suffused with brown and fuscous, the whiter scaling only showing in the terminal third of wing; a short white streak at base below median vein, and often the base of costa white; median area brown, traversed by four or five irregularly crenulate black lines; the inner most excurved above middle and indented below on submedian fold, partially edged with whitish scales; the outer followed by a whitish band with a black crenulate line at middle; a dark fuscous band before subterminal line, mixed with whitish grey scales at costa and below middle; a white costal patch at apex above the black oblique apical streak; terminal line black, lunulate; fringe pale grey mottled with black beyond veins; reniform stigma a strong black linear mark of raised scales; the whitish areas are generally more developed in the ♀, and the black fascia and outer band stronger; the white basal scaling is also edged with black.

In another form, ab. *semifascia* ab. nov., the whole ground colour is dull chalky white, with the dark median fascia cut off at median vein, its edges only indicated on inner margin; some slight dark shading at base round the white scaling; the black apical streak present, and a grey spot on inner margin before subterminal line; the grey markings rather better defined in the ♂. A third form, ab. *nigrilineata* ab. nov., mimics the form of *orbicularis* Moore called *bifasciata* Hmps., only the black edgings of the median fascia being shown, the inner of two black lines, the outer of one only except at costa; in both of these aberrations the orbicular stigma, as well as the reniform, is represented by a linear black mark.

Hindwing: fuscous, the fringe paler.

Underside dark fuscous, paler in the ♀; the costa of the forewing white with black strigae.

Head, thorax, and abdomen mixed black and white, the white predominating in the pale aberrations; tarsi thickly spotted with black.

Expanse of wings: ♂, 36 mm.; ♀, 38 mm.

2 ♂♂ from Sikkim (O. Möller); 2 ♀♀, Sikkim, September 1889 (Col. Pilcher); 2 ♂♂, 1 ♀ of ab. *semifascia*, Sikkim, September 1889 (Col. Pilcher); 1 ♀ of the ab. *nigrilineata*, Sikkim (O. Möller).

11. *Polyploca bilineata* spec. nov.

Forewing: dark grey slightly reddish-tinged; inner line thick, black, a little before middle, nearly vertical, incurved to costa; outer line just beyond middle, more slenderly black, oblique outwards to vein 4, there acutely angled and oblique inwards; subterminal pale, very obscure; an oblique black streak from apex; a row of black terminal spots; a tuft of blackish scales just beyond inner line represents the orbicular stigma, and a smaller tuft at lower end of discocellular, just before the angle of outer line, the reniform.

Hindwing: blackish fuscous.

Underside dull cinereous; the costa of forewing paler.

Head, thorax, abdomen, venter, and legs reddish grey.

Expanse of wings: 30 mm.

1 ♂ from Darjiling (Col. Pilcher).

A small species of dull appearance, somewhat resembling *ruficollis* of Europe.

12. *Polyploca acutangula* spec. nov.

Forewing: whitish, suffused with ochreous yellow, especially towards costa, where it is also somewhat browner; the veins finely darker; lines finely brown; inner line double, curved in costal half, the outer arm touching the oblique black orbicular stigma; outer line also double, acutely angled outwards on vein 4, marked by brown teeth on the veins, followed at a distance by another brown line, which is acutely angled outwards below vein 6, and then runs inwards close to the outer line, also marked by dark teeth on the veins; and followed by another line more bluntly angled or only bent; a dark oblique streak from apex; a line of dark marks along termen; fringe yellow.

Hindwing: pale grey.

Underside grey; the costa of forewing yellowish.

Head and thorax ochreous yellow; abdomen grey; pectus whitish.

Expanse of wings: 30 mm.

1 ♀ from Sikkim, August 1889 (Col. Pilcher).

A narrow-winged small species, which otherwise much resembles the ab. *ochracea* of *polychromata* Hmps.; the unique example is slightly worn towards base and inner margin.

Warren, William. 1915. "Some new oriental Cymatophoridae in the Tring museum." *Novitates zoologicae : a journal of zoology in connection with the Tring Museum* 22, 154–159. <https://doi.org/10.5962/bhl.part.1916>.

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