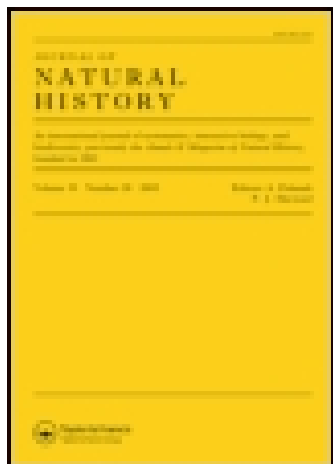


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XLIV.—*Descriptions of New Pyralidæ of the Subfamilies Epipaschianæ, Chrysauginæ, Endotrichinæ, and Pyralinæ.*
By Sir GEORGE F. HAMPSON, Bart., F.Z.S., &c.

[Continued from p. 160.]

(3) *Callasopia undulilinea*, sp. n.

Fore wing with vein 3 from well before angle of cell.

♂. Head, thorax, and abdomen white tinged with pale red-brown; palpi with the 3rd joint white at base; fore tarsi rufous ringed with white, the mid tarsi whitish, the hind tarsi white with a rufous band at extremity of 2nd joint. Fore wing whitish suffused and irrorated with red-brown; the medial area with four wavy red-brown lines; postmedial line double, red-brown filled in with whitish, oblique to discal fold, then minutely wavy; a punctiform red-brown terminal line. Hind wing whitish suffused with reddish brown, a slight dark terminal line. Underside of fore wing reddish brown, the costal area rufous with a postmedial white spot on it; hind wing whitish tinged with brown, the costal area irrorated with rufous, a small rufous spot on upper discocellular and double wavy postmedial line filled in with whitish from costa to vein 4.

Hab. PERU, Pozuzo, 1 ♂ type. *Exp.* 16 mm.

(1b) *Uliosoma exciralis*, sp. n.

Fore wing with the costa excised beyond middle.

♀. Head and thorax whitish suffused with brick-red; abdomen dark brown, whitish at base, the ventral surface whitish. Fore wing whitish suffused with purplish red and irrorated with dark brown, especially on antemedial area; a curved white medial line and rather oblique slightly sinuous postmedial line. Hind wing whitish suffused with dark brown and faintly tinged with purplish. Underside white irrorated with dark brown and faintly tinged with red.

Hab. COLOMBIA, Choko, Prov. Condoto (*Spurrell*), 1 ♀ type. *Exp.* 14 mm.

(1c) *Uliosoma umbrilineata*, sp. n.

♀. Head and thorax whitish suffused with purplish pink; abdomen orange-yellow with pale rings; palpi, legs, and ventral surface of abdomen deeper purple-pink, the mid tarsi pure white, black at extremities. Fore wing whitish, suffused with purplish pink; fine erect dark brown ante- and postmedial lines; a slight brown terminal line. Hind wing whitish tinged with purplish pink; a slight brown terminal line. Underside of fore wing pale purplish pink, the costal area irrorated with dark brown to the postmedial line and with slight yellow marks on medial part of

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costa, the postmedial line fine, black with a black point at costa, straight and erect, obsolescent towards inner margin, a terminal series of dark stræ; hind wing whitish tinged with pink except on inner area, the costal area irrorated with purplish red, a curved reddish postmedial line and terminal series of dark stræ.

Hab. PERU, Rio Pacaya, 1 ♀ type. *Exp.* 12 mm.

(1 *d*) *Uliosoma acutialis*, sp. n.

Hind tibiæ slightly fringed with hair, the 1st joint of tarsi without tuft of scales; abdomen of male without lateral tufts of hair; fore wing narrow, the apex produced.

♂. Head and thorax yellow tinged with purplish pink; abdomen white; fore legs white, the tibiæ purplish red in front; mid legs white, the tibiæ purplish red; hind legs purplish red. Fore wing yellowish, the basal half suffused with purplish pink, the postmedial area tinged with purplish pink, the terminal area purplish pink, narrowing to tornus and with its inner edge slightly incurved below costa; cilia yellowish white, tinged with purplish pink towards apex. Hind wing white. Underside of fore wing yellowish suffused with purplish pink; hind wing white, the costal area suffused with purplish pink.

Hab. W. COLOMBIA, San Antonio (*Palmer*), 1 ♂ type. *Exp.* 18 mm.

(3) *Uliosoma caphysoides*, sp. n.

Hind tibiæ slightly fringed with hair, the 1st joint of tarsi without tuft of scales; abdomen of male without lateral tufts of hair; fore wing with veins 3 and 5 from cell.

♂. Head and thorax pale purplish red; abdomen white tinged with red-brown; tarsi whitish; ventral surface of abdomen suffused with purplish red. Fore wing whitish suffused and irrorated with purplish red; straight erect white ante- and postmedial lines; a deeper purplish-red terminal line; cilia pale purplish red at base, white at tips. Hind wing white faintly tinged with purplish red, especially on apical area. Underside of fore wing purplish red; hind wing whitish, the costal area suffused with purplish red.

Hab. PERU, Rio Pacaya, 1 ♂ type. *Exp.* 12 mm.

(3 *a*) *Caphys dentilinea*, sp. n.

♂. Head and thorax greyish tinged with purplish red; abdomen ochreous white; palpi and legs suffused with reddish brown. Fore wing whitish suffused and slightly irrorated with purplish red; antemedial line white defined on outer side by brown, oblique to submedian fold, then incurved; a black point at middle of costa; postmedial line white defined on inner side by brown and with a black point at costa, erect to discal fold, then excurved and minutely dentate to submedian fold, where it is slightly angled inwards; cilia whitish at tips. Hind wing white faintly tinged with brown; a fine brown line through the cilia from apex to vein 2. Underside of fore wing brown, the costal and

terminal areas yellowish tinged with purplish pink, a black point at middle of costa, the postmedial line rather diffused yellowish defined on inner side by black towards costa; hind wing white, the costal area yellowish thickly irrorated with purple-red, a slight waved subterminal line from costa to vein 2.

♀. Head, thorax, and fore wing more strongly suffused with purple-red.

Hab. COLOMBIA, Minca (*H. H. Smith*), 2 ♂, Sierra del Libane (*H. H. Smith*), 1 ♂, 1 ♀ type. *Exp.* 14–22 mm.

(4 a) *Caphys phæogrammalis*, sp. n.

♂. Head, thorax, and abdomen dull purplish red; tarsi ringed with whitish. Fore wing pale dull purplish red; indistinct, slightly sinuous, dark, erect, ante- and postmedial lines, the latter faintly defined on each side by whitish to discal fold; a terminal series of dark points; cilia purplish pink. Hind wing brown tinged with purplish red, the cilia with a whitish line at base. Underside of fore wing dull purplish red, the costa whitish on postmedial area, the postmedial line ochreous defined on each side by brown and with some brown irroration beyond it; hind wing whitish tinged with brown, the costal area purplish red irrorated with brown except towards base, the termen purplish red except towards tornus, a brown subterminal line defined on outer side by ochreous from costa to vein 5, a dark brown terminal line.

Hab. BR. GUIANA, Bartica (*Parish*), 1 ♂ type. *Exp.* 14 mm.

Genus MEGACAPHS, nov.

Type, *Caphys titana*, Schaus.

Proboscis fully developed; palpi downcurved, extending about twice the length of head and thickly scaled; frons smoothly scaled; antennæ of female minutely ciliated; tibiæ slightly fringed with hair. Fore wing with the costa and termen evenly curved; vein 3 from angle of cell; 4, 5 strongly stalked; 6 from upper angle; 7, 8, 9, 10 stalked; 11 from cell. Hind wing with vein 2 from close to angle of cell; 3 and 5 from angle, 4 absent; 6, 7 from upper angle; 8 anastomosing with 7.

In key differs from *Adenopteryx* in the fore wing having veins 7, 8, 9, 10 stalked; hind wing with vein 4 absent.

(1 a) *Tetrasthitis dentilinealis*, sp. n.

♂. Head and thorax whitish slightly tinged with purplish red; abdomen whitish tinged with brownish ochreous except at base; palpi brownish at tips; legs reddish brown; pectus and ventral surface of abdomen rufous. Fore wing whitish suffused with pale purplish red; antemedial line slight, blackish, oblique to above vein 1, then erect; a black discoidal point and a point above it on costa; postmedial line blackish, oblique towards costa, then dentate, inwardly oblique below vein 4. Hind wing white, the termen faintly tinged with brown. Underside of fore wing

whitish tinged and irrorated with brown except on inner area, a blackish discoidal point with oblique black mark above it from costa, the postmedial line forming a black spot at costa, faint below vein 6, bent outwards at vein 5 and obsolete below vein 2; hind wing whitish, the costal area tinged and irrorated with red-brown, a slightly waved blackish postmedial line from costa to vein 5, excurved below costa.

Hab. COLOMBIA, Choko, Prov. Condoto (*Spurrell*), 1 ♂ type. *Exp.* 24 mm.

(1 b) *Tetraschistis ectopolia*, sp. n.

♂. Head, thorax, and abdomen whitish mixed with red-brown; antennæ ringed with blackish; tibiae at extremities and the tarsi ringed with black-brown. Fore wing red-brown mixed with whitish, the termen whitish except at apex; a fan of large scales below the cell near base; traces of a waved whitish medial line with a white striga from costa and small dark brown scale-tooth on inner margin; a white subterminal line, oblique to vein 6, then slightly waved, incurved at submedian fold; a punctiform black-brown terminal line; cilia whitish mixed with brown. Hind wing whitish tinged with brown, the terminal area suffused with brown except towards tornus. Underside of fore wing reddish brown, the costal area rufous with a white subterminal bar from costa; hind wing whitish tinged with brown, the costal area rufous, the terminal area suffused with red-brown to vein 3, an obscure dark spot on upper discocellular, a whitish postmedial line defined on each side by brown from costa to vein 5.

Hab. PERU, St. Domingo (*Ockenden*), 1 ♂ type. *Exp.* 24 mm.

(2 a) *Tetraschistis ectrocta*, sp. n.

Fore wing with the costa slightly excised at middle and towards apex.

♀. Head and thorax purplish pink; abdomen whitish suffused with red-brown; antennæ ringed with dark brown; palpi bright red-brown, the 2nd joint at middle and the 3rd joint at base white; legs bright red-brown, the fore tarsi ringed with white, the mid and hind tarsi white ringed with brown. Fore wing bright red-brown with a purplish tinge and slightly irrorated with blackish; a black discoidal point with oblique whitish striga above it from costa; postmedial line faint, whitish with some black scales before and beyond it at costa, oblique to vein 5, then inwardly oblique; a slight whitish spot on costa just before apex; cilia with a fine white line at base followed by a purple-pink line, the tips white. Hind wing whitish suffused with brown, the cilia white faintly tinged with brown and with a brown line near base from apex to submedian fold. Underside of fore wing whitish suffused with red-brown, ante- and postmedial white bars from costa defined on each side by dark brown, a whitish patch on costa towards apex, the termen darker brown slightly indented by creamy white at the veins,

the cilia creamy white with a purplish-red line near base; hind wing whitish tinged with brown, the costal area ochreous white irrorated with red, two black bars from costa near base, a double faint curved dark postmedial line, blackish and filled in with white on costal area, a dark terminal line.

Hab. BRAZIL, Rio Janeiro, 1 ♀ type. *Exp.* 20 mm.

(3) *Pelasgis griseolimalis*, sp. n.

Fore wing with vein 9 absent.

♂. Head and thorax bright red-brown; abdomen greyish brown; tarsi whitish except the 1st joint and tuft on hind tarsi, the spurs tipped with white. Fore wing bright red-brown, the terminal area purplish grey; some whitish at base of inner margin; antemedial line whitish, oblique, some whitish suffusion beyond it except on inner area; a blackish discoidal bar; a bright rufous patch on postmedial costal area; postmedial line pale grey with a pure white bar from costa, then excurved; a terminal series of black points; cilia with a red-brown line near base. Hind wing grey-brown, the termen darker; cilia pale with a brown line through them. Underside of fore wing grey-brown, the terminal half of costal area and the terminal area to vein 4 bright rufous, the inner area whitish to the postmedial line; hind wing whitish suffused with brown, the apex rufous, a blackish mark on upper discocellular and curved white postmedial line defined on inner side by brown; cilia white at base.

Hab. PERU, Pozuzo, 1 ♂ type. *Exp.* 20 mm.

(3) *Curicta metaxanthalis*, sp. n.

Fore wing with the termen not excised towards tornus.

♂. Head and thorax chestnut-brown; abdomen ochreous yellow; legs and ventral surface of abdomen whitish suffused with brown; tarsi brown ringed with whitish. Fore wing glossy chestnut-brown with slight dark irroration; faint traces of a brown sub-terminal line, incurved below vein 3; cilia darker except towards tornus. Hind wing ochreous yellow, the apical area tinged with brown, the termen and cilia dark reddish brown. Underside of fore wing grey-brown, the inner area whitish, the costa with some whitish beyond middle; hind wing with the costal area and the terminal area to vein 3 suffused with red-brown.

Hab. N. GUINEA, Ron I. (*Doherty*), 3 ♂ type. *Exp.* 22 mm.

(5) *Curicta peruviansis*, sp. n.

Fore wing with the termen hardly excised below apex, a discoidal fan of scales.

♂. Head and thorax bright chestnut-brown; abdomen red-brown; palpi and fore and mid tibiæ deep chocolate-brown; ventral surface of abdomen chestnut-brown. Fore wing bright chestnut-brown irrorated with yellowish white, the basal area paler except towards costa; antemedial line white defined on outer side

by red-brown, very oblique; the discoidal fan of scales black-brown; postmedial line white, oblique to vein 5, then inwardly oblique; a fine white terminal line. Hind wing pale red-brown, the veins towards termen streaked with fiery red, on vein 2 extending half way to the cell; a slight curved whitish postmedial line from costa to submedian fold; a fine white terminal line; cilia fiery red with a white line at middle and white tips. Underside of fore wing pale red-brown, the costal area bright chestnut-red, the inner area whitish, an obscure blackish discoidal spot, the postmedial line defined on inner side by brown; hind wing bright chestnut-red, a curved very slightly waved white postmedial line defined on inner side by brown.

Hab. PERU, Chanchamayo, 1 ♂ type. *Exp.* 40 mm.

(3) *Murgisca pyrophoralis*, sp. n.

♂. Head and thorax maroon-red; abdomen glossy dark grey-brown; pectus and legs dark grey-brown, the tufts of scales on the mid tibiae and tarsi maroon-red, the tarsi ringed with white. Fore wing maroon-red, the postmedial area brilliant fiery red except at costa and inner margin; the antemedial area suffused with fiery red beyond the vesicle from costa to vein 1; a white striga from middle of costa with some yellow beyond it and a minute white spot in upper part of cell; a small silvery-white spot below end of cell with some yellow beyond it; some yellow beyond upper angle of cell; an oblique silvery-white postmedial spot from costa, then a faint curved greyish line, a white striga from costa well beyond it; cilia yellowish white at tips except towards tornus. Hind wing dark glossy grey-brown. Underside of fore wing grey-brown, the terminal half of costa reddish and yellowish with a yellowish bar from costa to discal fold; hind wing grey-brown, the costal area tinged with red except towards base, a diffused whitish postmedial line from costa to submedian fold.

♀. Fore wing with the fiery red on antemedial area reduced to a spot above vein 1.

Hab. PERU, Charape R., Taraconas (*Pratt*), 1 ♂, 1 ♀ type. *Exp.* 26 mm.

Genus RHYNCHOTOSALE, nov.

Type, *Tosale filata*, Dogn.

Proboscis fully developed; palpi downcurved, extending about the length of head; antennae of male almost simple; hind tibiae and 1st joint of tarsi with tufts of scales. Fore wing of male with large tympanic vesicle at base, the frenulum flattened, the retinaculum forming a ring; the termen excised towards tornus, the inner margin lobed near base; vein 3 from near angle of cell; 4, 5 from angle; 6 from below upper angle; 7, 8, 9 stalked, 7 from before 9; 10 from angle of cell; 11 from cell; a large patch of androconia on underside. Hind wing with the termen somewhat excurved at middle; veins 3 and 5 from angle of cell,

4 absent; 6, 7 from upper angle; 7 slightly anastomosing with 8; a large patch of androconia on upper side on costal area towards apex.

In key differs from *Steptopalpia* in the termen of fore wing being excised towards tornus, vein 7 from before 9, 10 from cell; the palpi about the length of head.

(7) *Lepidomys furvilimacealis*, sp. n.

♂. Head and thorax pale purplish red; abdomen brownish ochreous; legs purple-brown, the tarsi ringed with white; ventral surface of abdomen whitish suffused with purple-brown. Fore wing pale purplish red tinged with brown, the terminal area suffused with cupreous red; an almost straight erect reddish-white almost medial line; postmedial line reddish white, slightly excurved from below costa to vein 4 and with a white point at costa; a brownish terminal line; cilia purplish pink. Hind wing white tinged with brown, the terminal area tinged with purple to vein 2; cilia purplish pink with white tips to vein 2, then whitish with a brownish line near base. Underside of fore wing purplish red irrorated with some white scales, the inner area ochreous white, the postmedial line ochreous white, a slight dark discoidal bar; hind wing with the costal and terminal areas suffused with purplish red, a curved whitish postmedial line.

Hab. BOLIVIA, Sara Prov., 2 ♂ type. *Exp.*, ♂ 24, ♀ 26 mm.

(8) *Lepidomys meterythralis*, sp. n.

♀. Head, thorax, and abdomen red-brown, tarsi ringed with whitish. Fore wing purplish red-brown, the terminal half of costa deep red; a faint pale curved line just beyond middle, with oblique pure white bar from costa; a postmedial pure white point on costa; a terminal series of pure white points. Hind wing bright fulvous red. Underside fulvous red; fore wing with the costa brownish with a postmedial white point on it.

Hab. PERU, Iquitos, 1 ♀ type. *Exp.* 16 mm.

Genus THERMOTESIA, nov.

Type, *Nachaba violascens*, Schaus.

Palpi rostriform, downcurved, about three times length of head and moderately fringed with hair above and below; frons with large tuft of hair; antennæ of male ciliated; tibiæ slightly fringed with hair. Fore wing with the apex rounded, the termen evenly curved; vein 2 from angle of cell; 3, 4, 5 stalked; 6, 7 shortly stalked; 8 and 10 shortly stalked, 9 absent; 11 from cell; the male with a groove below costa before middle on upper side followed by a lobe fringed with large scales below. Hind wing with vein 2 from near angle of cell; 3, 4, 5 from angle; 6, 7 from upper angle, 7 anastomosing with 8.

(4) *Lophopleura rectifascia*, sp. n.

♂. Head and thorax deep maroon-red; abdomen dark reddish

brown; pectus, legs, and ventral surface of abdomen grey-brown. Fore wing deep maroon-red with a slight silvery gloss; an erect chrome-yellow antemedial band, somewhat expanding to costa; the terminal half of costa black-brown; a slight dark postmedial line arising below the costal tuft and strongly excurved beyond upper angle of cell; a fine dark terminal line; cilia dark at tips. Hind wing dark reddish brown with a deep maroon-red triangular patch from lower angle of cell to termen; cilia with a dark line at middle and some whitish at tips. Underside grey-brown; hind wing with curved dark postmedial line.

Hab. PERU, Chaquimayo (*Watkins*), 1 ♂ type. *Exp.* 20 mm.

(2) *Pachypodistes angulata*, sp. n.

Fore wing with the costa slightly excised just beyond middle, but the apex not produced upwards, the termen excised below vein 4 and produced to points at veins 6, 4, 3; veins 4, 5 from cell; 7, 8, 10, 11 stalked, 9 absent; hind wing with the termen excurved at middle and produced to slight points at veins 7, 6, 4, 3.

♂. Head and thorax pale ochreous brown with a faint purplish tinge; abdomen pale ochreous brown irrorated with blackish; palpi and legs red-brown mixed with blackish; ventral surface of abdomen red-brown. Fore wing pale purplish red-brown; a rather diffused red-brown antemedial line, slightly excurved below costa, then very oblique; a black discoidal point; a rather diffused red-brown postmedial line, excurved below costa, then very oblique; cilia deep purple-red at tips. Hind wing ochreous tinged with brown, the terminal area suffused with brown; an oblique diffused dark medial line from vein 6 to submedian fold; cilia with black points at veins 8 to 6, the medial part tinged with purple-red and with blackish line near tips. Underside ochreous tinged with purplish red except on inner areas; fore wing with blackish discoidal point and diffused post-medial line excurved below costa, then oblique to submedian fold; hind wing with black discoidal point and oblique slightly sinuous dark postmedial line from costa to lower angle of cell.

Hab. PERU, St. Gaban, 1 ♂ type. *Exp.* 32 mm.

(3) *Pachypodistes sthenistis*, sp. n.

Fore wing narrow, the costa slightly excised just beyond middle but not produced upwards at apex, the termen very oblique and slightly excised from vein 5 to tornus; vein 3 from angle of cell; 4, 5 stalked; 7, 8, and 10 stalked, 9 absent; 11 from cell; hind wing with the termen slightly excised at discal fold; vein 3 from angle of cell; 4, 5 stalked.

♂. Head and thorax bright red-brown with a purplish tinge; abdomen glossy red-brown, ochreous at extreme base; palpi and legs bright red-brown with slight dark irroration. Fore wing bright red-brown with a faint purplish tinge and irrorated with blackish; faint traces of a diffused curved dark antemedial line and of a postmedial line excurved below costa, then oblique. Hind

wing bright red-brown with a faint purplish tinge and irrorated with blackish, the costa ochreous towards base; faint traces of a curved slightly waved dark postmedial line. Underside ochreous suffused with purplish red-brown and irrorated with black except on inner areas; both wings with diffuse curved dark postmedial line from costa to vein 2.

Hab. VENEZUELA, Esteban Valley, Las Quiguas, 1 ♂ type. *Exp.* 32 mm.

ENDOTRICHINÆ.

(2 a) *Endotricha pyrochroa*, sp. n.

♀. Head, thorax, and abdomen fiery crimson; antennæ tinged with brown except towards base; proboscis white towards base; palpi with the 1st joint white in front; pectus with a fan of silvery-white scales in front; mid tibiæ and tarsi white in front. Fore wing fiery crimson, the basal part of costal area and the medial area slightly tinged with brown, the costa with a series of dark points on it; a slightly waved antemedial brown line; a blackish striga on upper discocellular; postmedial line brown, excurved and minutely waved to submedian fold where it is slightly incurved, then again excurved; the terminal area with slight dark irroration; a terminal series of blackish points; cilia brownish. Hind wing fiery crimson, the basal and costal areas tinged with brown, the inner area whitish; a rather obliquely curved dark medial line; a curved brown postmedial line, slightly waved to submedian fold; the terminal area irrorated with blackish; a terminal series of blackish striæ; cilia dark brown with a crimson line at base. Underside fiery crimson, the costal and terminal areas with some dark irroration; fore wing with a series of minute black spots on costa, a curved slightly waved dark postmedial line; hind wing with dark subterminal line, oblique towards costa, then excurved.

Hab. DUTCH N. GUINEA, Fak-fak (*Pratt*), 1 ♀ type. *Exp.* 26 mm.

(3 b) *Endotricha chionosema*, sp. n.

♂. Head, thorax, and abdomen crimson-red irrorated with a few dark scales; antennæ brownish; legs dull red suffused with fuscous; ventral surface of abdomen fuscous at base. Fore wing dull crimson-red, the costa fuscous brown with a series of white points on it, the basal half fuscous brown with a leaden gloss from just below costa to inner margin, the hair on which is red; a whitish medial line, obliquely excurved to vein 1, then incurved; the terminal area irrorated with fuscous brown, less thickly on costal half; a slightly waved pale red subterminal line, white at costa and defined on outer side by fuscous, ending on termen at vein 1; cilia pale crimson with a black line near base to vein 1, the tips black at apex, then white to vein 4. Hind wing pale crimson irrorated with blackish; a large patch clothed with white

androconia on costal area from base to near apex, its lower edge rounded; a pale red subterminal line defined on each side by black scales, slightly angled inwards at vein 2; a blackish terminal line; cilia with a black line near base, the tips white to submedian fold. Underside of fore wing greyish fuscous except on costal area to beyond middle and to tornus with a large patch of white androconia on it; hind wing with the costal half suffused with fuscous black from near base to the curved slightly waved blackish subterminal line defined on outer side by whitish except towards costa.

♀. Fore wing brighter crimson-red, the basal area tinged with brown to the pale curved antemedial line, the cilia pure white at tips to near tornus; hind wing tinged with brown and irrorated with blackish except on tornal area, an indistinct oblique pale medial line; underside of fore wing tinged with fuscous to the subterminal line, the inner area whitish except at tornus; hind wing irrorated with blackish, an oblique blackish medial line and a pale oblique slightly waved postmedial line defined on inner side by blackish.

Hab. N. GUINEA, Goodenough I. (*Meek*), 1 ♂, 1 ♀ type. *Exp.*, ♂ 22, ♀ 20 mm.

(6a) *Endotricha melanobasis*, sp. n.

Hind wing of male with large patch of rufous androconia on upperside below medial part of costa.

♂. Head and thorax fuscous black; abdomen pale red with a black band on 3rd segment; antennæ whitish tinged with fuscous; pectus and legs pale red, the fore legs suffused with black in front. Fore wing with the basal area blackish to the curved whitish antemedial line, the medial area whitish, the terminal area pale purplish red irrorated with brown, the medial part of costa with white points with black between them; an indistinct blackish and pale subterminal line, obliquely curved to discal fold, then erect; a black terminal line; cilia pure white to vein 6, then pale red at base with blackish line near base, the tips blackish at middle, then white to tornus. Hind wing with the basal area blackish, an elongate patch of rufous androconia below costa from near base to beyond middle; the medial area pale purplish pink below the patch defined on outer side by the slightly waved white postmedial line; the terminal area pale purplish pink irrorated with fuscous; cilia chequered pinkish and blackish with the tips white to vein 2. Underside pale purplish pink irrorated with fuscous, the basal area of both wings and the area beyond lower angle of cell of fore wing suffused with fuscous; fore wing with series of white points on costa with blackish between them, black discoidal bar, and diffused postmedial line from discal fold to above tornus; hind wing with diffused oblique sinuous black medial and post-medial lines.

Hab. ASSAM, Khásis (*Nissary*), 1 ♂ type. *Exp.* 20 mm.

(8 a) *Endotricha thermidora*, sp. n.

♂. Head, thorax, and abdomen fiery rufous, the tips of tegulæ, metathorax, and base of abdomen ochreous. Fore wing fiery rufous sparsely irrorated with black; the costa with a series of yellow points with black-brown between them to beyond middle; a small blackish discoidal spot and traces of an oblique waved yellowish line from lower angle of cell to inner margin; a very slightly curved yellowish subterminal line defined on outer side by blackish; a terminal series of black striæ; the terminal area and base of cilia purplish pink, the latter pale yellow at tips. Hind wing pale purplish pink, the terminal area sparsely irrorated with black; a curved yellow postmedial line from discal fold to inner margin, defined on outer side by black scales and on inner side by blackish towards inner margin; a terminal series of black striæ; cilia pale yellow at tips. Underside of fore wing purplish pink irrorated with blackish, the inner area yellowish, the costa with series of yellow points with blackish between them, the subterminal line curved to discal fold, then slightly waved; hind wing yellow, the costal and terminal areas purplish pink irrorated with blackish, a dark antemedial line oblique to median nerve, a small black spot on upper discocellular, a curved slightly waved yellow postmedial line defined on each side by blackish scales, slightly incurved at discal fold.

♀. Strongly tinged with red-brown; fore wing with indistinct pale antemedial line, oblique to submedian fold, a minute black point at upper angle of cell, cilia with some black scales on outer edge of the pink basal part; hind wing with faint pale line from lower angle of cell to inner margin, a faint pale postmedial line arising at vein 6 and excurved to vein 2, no black striæ on termen but a black line at middle of cilia; underside of both wings purplish red irrorated with blackish; hind wing with indistinct curved dark antemedial line and slightly waved double postmedial line.

Hab. DUTCH N. GUINEA, Snow Mts., Oetakwa R. (*Meek*), 1 ♂ type, Wataikwa R. (*Wollaston*), 1 ♀; BR. N. GUINEA, Humboldt Bay (*Doherty*), 1 ♂. *Exp.*, ♂ 22, ♀ 20 mm.

(8 b) *Endotricha encaustalis*, sp. n.

♂. Head, thorax, and abdomen purplish red; pectus whitish behind; mid tibiæ and hind legs whitish tinged with red. Fore wing purplish red irrorated with a few blackish scales; the costa with a series of white points, with some black between them to beyond middle; traces of a double blackish medial line from cell to inner margin, slightly excurved at vein 1; a black discoidal bar; a terminal series of black points; cilia purplish pink at base, yellowish white at tips. Hind wing fiery red, the terminal area purplish red, the costal area to near apex and the inner area whitish; an indistinct oblique blackish postmedial line from vein 6 to 2, then curved and whitish to tornus; a terminal series of black

points between discal and submedian folds and a striga towards tornus; cilia purplish pink at base, yellowish white at tips. Underside purplish red irrorated with blackish, the inner half of hind wing whitish except at termen; fore wing with rather punctiform whitish subterminal line defined on inner side by black scales, curved to discal fold then erect to tornus; hind wing with the postmedial line whitish defined on inner side by red, oblique from costa to vein 2, then curved to tornus.

Hab. DUTCH N. GUINEA, Fak-fak (*Pratt*), 1 ♂ type. *Exp.* 26 mm.

(9 a) *Endotricha xanthorhodalis*, sp. n.

♂. Head, thorax, and abdomen pale yellowish tinged with purplish red. Fore wing pale yellow tinged and irrorated with purplish red, the basal half of costa redder, the termen more purplish pink; the costa with series of yellowish-white points with some black between them towards base; a rather diffused erect red antemedial line; a red discoidal point; a curved yellowish-white subterminal line; a terminal series of black points; cilia purplish pink at base, pure white at tips. Hind wing pale yellow, the terminal area suffused with purplish pink except at costa, narrowing to tornus; a diffused red medial bar from submedian fold to above inner margin; an indistinct red postmedial line, excurved to vein 2, then oblique to tornus; cilia purplish pink at base, pure white at tips. Underside pale yellow, the costal and terminal areas suffused and irrorated with purplish pink; fore wing with blackish between the points on costa to apex, a slight black discoidal point, the subterminal line slightly waved; hind wing with rather diffused waved red medial line and double curved postmedial line.

Hab. QUEENSLAND, Cedar Bay (*Meek*), 1 ♂ type. *Exp.* 24 mm.

(9 c) *Endotricha lignitalis*, sp. n.

♂. Head, thorax, and abdomen pale brownish red, the last irrorated with black except on basal segment, the 2nd and 3rd segments thickly irrorated; legs irrorated with blackish. Fore wing pale brownish red irrorated with black; the costa with series of whitish points with black between them to end of cell; a slightly curved whitish medial line defined on inner side by rather diffused black; a black discoidal spot; a curved whitish subterminal line defined on each side by black scales, more distinctly defined on outer side by black towards costa; a terminal series of blackish points; cilia with a slight dark line at middle and pure white tips. Hind wing pale brownish red irrorated with blackish except the submedian fold, which is rufous, the cell and costal area to near apex white; a slight dark medial line from cell to above inner margin where it forms a small spot; an obliquely curved whitish postmedial line from discal fold to inner margin near tornus, defined on outer side

by diffused black; cilia with a black line at middle and pure white tips. Underside of fore wing flesh-red irrorated with black, the inner area white, the subterminal line minutely waved, somewhat oblique to vein 6; hind wing whitish, the costal and terminal areas flesh-red irrorated with blackish, a slightly curved pale red medial line, postmedial line whitish defined on each side by blackish scales, oblique and slightly sinuous to vein 2 and ending at tornus.

♀. Abdomen not irrorated with black; hind wing with the medial line blackish and more distinct, the postmedial line oblique from discal fold to tornus; underside of fore wing with the subterminal line bent inwards at discal fold.

Hab. QUEENSLAND, Townsville (*Dodd*), 1 ♂ type; N. AUSTRALIA, Port Darwin (*Dodd*), 1 ♂, 1 ♀. *Exp.* 20 mm.

(9d) *Endotricha occidentalis*, sp. n.

♂. Head and thorax purplish red; abdomen ochreous whitish tinged with pink especially towards extremity and on ventral surface and slightly irrorated with black; fore legs suffused with black. Fore wing purplish red slightly irrorated with black; the costa with series of whitish points; a slight blackish discoidal bar; a faint curved whitish subterminal line defined on inner side by some black scales; a terminal series of black striæ; cilia blackish at middle, the tips white. Hind wing ochreous whitish tinged with purplish red especially on terminal half and irrorated with black; a faint whitish postmedial line, oblique to vein 2, then curved to inner margin near tornus; the termen more thickly irrorated with black and with terminal series of blackish striæ; cilia black at middle, the tips white. Underside purplish red, the inner areas whitish; fore wing with small black discoidal spot, the subterminal line defined on inner side by black and slightly bent inwards to costa; hind wing with rather maculate blackish medial line and rather diffused slightly waved postmedial line defined on outer side by whitish.

Hab. W. AUSTRALIA, Waroona (*Berthoud*), 1 ♂ type. *Exp.* 22 mm.

(9f) *Endotricha murecinalis*, sp. n.

♂. Head, thorax, and abdomen purplish pink, the last irrorated with blackish except towards base. Fore wing purplish pink irrorated with black; the costa with series of whitish points; a whitish medial line, obliquely curved to submedian fold, then erect; a minute black discoidal spot; a curved very slightly waved whitish subterminal line; a terminal series of black striæ. Hind wing purplish pink irrorated with blackish, the cell and costal area to near apex whitish; an oblique white medial line defined on each side by black scales from discal fold to inner margin, to which it is slightly bent inwards; postmedial line white defined on each side by black scales, slightly curved to

submedian fold, then excurved to tornus; a terminal series of black striæ; cilia whitish tinged with pink and with blackish line at middle. Underside of fore wing purplish pink irrorated with black, a black discoidal lunule; subterminal line whitish, defined on inner side by black except towards costa, slightly waved, obliquely curved to discal fold, then oblique to tornus; hind wing with the costal and terminal areas purplish pink, the former irrorated with black, a black discoidal bar with oblique line from it to inner margin, a curved black line from costa to discal fold just beyond the cell, an oblique black line defined on outer side by white and slightly waved from costa beyond middle to tornus.

Hab. DUTCH N. GUINEA, Kapaur (*Doherty*), 1 ♂ type. *Exp.* 20 mm.

(9 g) *Endotricha primulina*, sp. n.

♂. Head, thorax, and abdomen pale yellow; palpi with the 3rd joint blackish, white at tips; maxillary palpi blackish; pectus, legs, and ventral surface of abdomen ochreous white, the fore tibiæ suffused with brown in front. Fore wing pale yellow, the costal area tinged with pink, the terminal area suffused with pink; a postmedial white mark on costa, with a faint curved pinkish line from it to inner margin; cilia black-brown at base, pure white at tips. Hind wing pale yellow slightly tinged with pinkish, the terminal area suffused with pink; a slight dark discoidal spot; a faint pinkish postmedial line; cilia black at base, pure white at tips. Underside pale ochreous; fore wing with the costal and terminal areas suffused with red, a curved red postmedial line; hind wing with reddish discoidal point and oblique postmedial line, the termen tinged with red.

Hab. CAMEROONS, Ja R., Bitje (*Bates*), 1 ♂ type. *Exp.* 12 mm.

(9 k) *Endotricha sareochroa*, sp. n.

♂. Head and thorax dull rufous slightly irrorated with darker scales; abdomen brighter rufous, the medial segments strongly irrorated with black; pectus, legs, and ventral surface of abdomen irrorated with black. Fore wing dull rufous with an ochreous tinge and irrorated with blackish; the costa with a series of whitish points with some blackish between them; a whitish antemedial line with a black shade before it from cell to inner margin, slightly angled outwards at median nervure and vein 1; a blackish discoidal striga; subterminal line faint, pale defined on each side by some blackish scales, slightly sinuous; a terminal series of blackish points; cilia with a blackish line near base. Hind wing pale rufous to beyond middle, the terminal area whitish tinged with rufous and slightly irrorated with dark scales; a dark brown terminal line; cilia with a series of dark brown points from apex to submedian fold. Underside white tinged with rufous; fore wing with the costa rufous with series

of white points on it, a slightly waved rufous subterminal line from costa to vein 2; hind wing with the costal area irrorated with blackish, a diffused waved brown postmedial line.

♀. Fore wing with the basal area suffused with brown, the rest of wing rufous; hind wing pale rufous; the underside with the lines faint.

Hab. W. AUSTRALIA. Sherlock R. (*Clements*), 2 ♂, 1 ♀ type. *Exp.* 20-22 mm.

(10 a) *Endotricha pulveralis*, sp. n.

♀. Head, thorax, and abdomen pale red-brown irrorated with black-brown; antennæ ringed with blackish. Fore wing pale red-brown thickly irrorated with black-brown; a faint rather diffused dark antemedial line; a blackish discoidal spot; a faint diffused curved dark subterminal line with slight whitish points on it; a terminal series of black points. Hind wing whitish tinged with brown and irrorated with dark brown; a slight blackish discoidal point; a terminal series of blackish points. Underside of fore wing greyish suffused and irrorated with red-brown, the costa with series of dark points; hind wing white tinged and irrorated with brown, a minute black spot at upper angle of cell, a very faint double sinuous brown postmedial line.

Hab. BONIN Is., Parry's Group (*Holst*), 1 ♀ type. *Exp.* 30 mm.

(14 a) *Endotricha formosensis*, sp. n.

♂. Head, thorax, and abdomen fuscous with a reddish tinge, the anal tuft purplish red; antennæ whitish tinged with fuscous; legs whitish suffused with brown. Fore wing purplish red, the basal area strongly suffused with fuscous, the rest of wing tinged and irrorated with fuscous; antemedial line white, curved, a series of white points with black between them beyond it on costa; a blackish discoidal bar; subterminal line whitish defined on both sides by black, slightly waved, obliquely curved to discal fold, then erect to tornus; a terminal series of black striæ; cilia pale yellow, purplish pink at base at middle and tornus and with series of blackish spots from discal fold to tornus, the tips blackish at middle. Hind wing purplish pink, suffused with fuscous to beyond the postmedial line then slightly irrorated with fuscous, the costal area whitish to beyond middle; oblique slightly waved white medial and postmedial lines converging towards inner margin; a terminal series of blackish bars; cilia pale yellow, purplish pink at base and with dark line at middle to vein 2, then with series of pink and dark spots. Underside purplish pink; fore wing irrorated with black, the inner area white except at tornus, the costa with series of white points with black between them, a black discoidal spot, the subterminal line black defined on outer side by whitish, waved, obliquely curved to discal fold then erect to tornus; hind wing with the area below discal fold white to the postmedial line, an oblique sinuous black medial line and waved postmedial line defined on outer side by black.

♀. Head, thorax, and abdomen purplish pink, the last tinged with fuscous except at base; fore wing with the basal area slightly tinged with fuscous, the antemedial line diffused on outer side, the subterminal line more bent inwards at discal fold.

Hab. FORMOSA, Arizan (*Wileman*), 1 ♂, 2 ♀ type. *Exp.* 20-22 mm.

(21 a) *Endotricha metacuralis*, sp. n.

♀. Head, thorax, and abdomen pale purplish pink; pectus, legs, and ventral surface of abdomen brown mixed with whitish. Fore wing pale purplish pink slightly irrorated with whitish; a series of white points on costa with dark brown between them; a yellow medial band, its inner edge curved, its outer diffused; a slight black discoidal lunule; subterminal line white defined on each side by brown, slightly waved and somewhat incurved at discal fold; a black terminal line; cilia pale yellow, reddish brown at apex and middle. Hind wing pale purplish pink thickly irrorated with fuscous; a broad yellowish-white medial band narrowing to inner margin, its edges slightly waved and defined by fuscous; a black terminal line; cilia pale yellow with a dark brown line near base from apex to vein 2. Underside of fore wing purplish pink irrorated with fuscous, a diffused black discoidal spot, the subterminal line bent inwards at discal fold; hind wing with the basal area and medial band white except at costa, the latter defined by black which on outer side is defined by a fine white line and angled outwards at discal fold.

Hab. FORMOSA, Rantaizan (*Wileman*), 3 ♀ type. *Exp.* 24 mm.

(21 b) *Endotricha pyrrhæma*, sp. n.

♂. Head, thorax, and abdomen ochreous yellow tinged with red, the anal tuft crimson; palpi, pectus, legs, and ventral surface of abdomen yellowish tinged with red-brown. Fore wing fiery crimson; the costa with a series of white points with dark brown between them except towards base; a sinuous red antemedial line with a diffused yellow band beyond it except towards costa; a slight dark discoidal striga; a yellow patch on costal area before the subterminal line which is slight, whitish defined on outer side by black scales and very slightly waved; a terminal series of black points; cilia dark brown at apex, a series of blackish points at middle to vein 3 and the tips white to vein 3. Hind wing fiery crimson; a broad yellow medial band, its outer edge slightly waved; the costal area white to near apex; the terminal area slightly irrorated with fuscous; a terminal series of black points; cilia paler and with some dark scales at tips. Underside of fore wing fiery crimson irrorated with blackish, the inner area whitish to near tornus, a small black discoidal spot with some yellow above it, the yellow before the subterminal line extending to vein 3; hind wing fiery crimson, the basal area with some yellow except towards costa, the yellow medial band defined by slightly waved crimson lines, on outer side with a yellow line beyond it.

Hab. AMBOINA (*Doherty*), 1 ♂ type *Exp.* 16 mm.

(22 a) *Endotricha paliolata*, sp. n.

♂. Head and thorax fuscous black, the tegulæ with long scales forming a hood over the thorax and with tuft of long white hair below them from prothorax; abdomen with the three basal segments black and crimson-red, the rest yellow; palpi, pectus, and legs black-brown with a cupreous tinge; ventral surface of abdomen whitish tinged with brown. Fore wing fuscous black with some crimson scales mixed; a curved black antemedial line with a band beyond it which is yellow becoming yellowish white towards inner margin; a yellow patch on costal area before the subterminal line, which is crimson defined on outer side by black, very slightly waved, curved to discal fold, then erect to tornus; the apex crimson; a black terminal line; cilia fiery crimson, yellow towards apex. Hind wing fuscous black with a slight crimson tinge; the inner margin dull crimson towards base; a broad yellowish medial band edged by white and defined by slightly waved black lines; the terminal area crimson towards tornus; a black terminal line from apex to vein 2; cilia crimson to submedian fold, then white and the hair on inner margin white. Underside of fore wing fuscous mixed with crimson, the inner area white, a series of yellow points on costa with black between them, the subterminal line bent inwards at discal fold, then waved; hind wing fuscous black mixed with crimson, a broad oblique white medial band edged by slightly waved black lines, the line on outer side defined by a fine white line.

Hab. LOUISIADÈS, St. Aignan (*Meek*), 1 ♂ type. *Exp.* 18 mm.

(22 b) *Endotricha borneoensis*, sp. n.

♂. Head, thorax, and abdomen pale purplish pink; tufts of long brownish-white hair arising from below the patagia; antennæ brown. Fore wing pale purplish pink slightly irrorated with brown; a broad yellow medial band defined on inner side by a slight dark antemedial line and with a slight black discoidal lunule on its outer edge; a faint pale subterminal line slightly defined on each side by brown, obliquely curved to discal fold, then erect and minutely waved to tornus; a terminal series of black points. Hind wing with the basal area pale purplish pink irrorated with brown, the rest of wing yellow with a few black scales; the apex purplish pink with a blackish striga before it from costa and two black points on termen towards apex. Underside of fore wing pale purplish pink irrorated with blackish, the costa with series of whitish points with blackish between them, a black discoidal bar; hind wing with the basal area pale purplish pink, the rest of wing yellow with the apex pink with some dark striæ on it; a slight black discoidal lunule.

Hab. BORNEO, Sarawak (*Wallace*), 1 ♂ type. *Exp.* 16 mm.

(22 b) *Endotricha rhodomicta*, sp. n.

♂. Head, thorax, and abdomen purplish pink mixed with dark brown, the patagia extending to far beyond the metathorax,

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black-brown above towards extremity and with tufts of long brownish hair below them; anal tuft with yellowish mixed; antennæ brownish. Fore wing purplish pink mixed with brown; antemedial line brown, excurved to submedian fold, a patch of yellow tinged with red beyond it on costal area conjoined to a broad pale yellow band from cell to inner margin; the terminal half of costa with a series of whitish points with blackish between them; a minutely waved yellow subterminal line defined on each side by brown; a terminal series of black striæ; cilia yellow. Hind wing with the basal area purplish pink mixed with brown, the costal area and inner margin yellowish white, the rest of wing pale yellow, a pale rufous line with some crimson scales on it from costa beyond middle to termen at vein 1. Underside of fore wing with the basal area fuscous brown, the rest of wing purplish pink irrorated with brown, the inner area yellow, the costa with series of yellow points with black between them, a slight black discoidal lunule, the subterminal line bent inwards at discal fold; hind wing yellow, the basal area irrorated with brown and crimson except towards inner margin, the medial part of costa irrorated with crimson, a slightly waved black medial line from costa to submedian fold and two slightly waved crimson postmedial lines, the inner ending on termen at vein 1, the outer before termen at vein 3.

♀. Head, thorax, abdomen, and wings with the purplish pink brighter.

Hab. DUTCH N. GUINEA, Mt. Goliath (*Meek*), 1 ♂, 1 ♀; BR. N. GUINEA, Biagi, Mambare (*Meek*), 1 ♂ type. *Exp.* 20-24 mm.

(31 a) *Endotricha pulchella*, sp. n.

♀. Head and thorax white mixed with dark brown; abdomen white, the medial segments fulvous red ringed with white; antennæ white; palpi fuscous brown with some white at base and towards tips; pectus, legs, and ventral surface of abdomen white. Fore wing white, the area from before middle to the postmedial line suffused with fulvous orange except towards costa, the apical area with a large rather diffused fulvous-orange patch extending to discal fold and with a rufous tinge below it; an indistinct rufous antemedial line, interrupted in the cell; a rufous discoidal bar; postmedial line rufous, excurved at middle; three rather diffused conjoined dark brown spots on apical half of termen, the apical spot defined on inner side by white; cilia tinged with rufous except towards tornus. Hind wing white, the medial area fulvous orange except towards costa, irrorated with red-brown towards inner margin, the terminal area tinged with rufous except at costa, deep rufous towards tornus; a dark brown discoidal spot; a strongly curved deep red-brown postmedial line, curving along the inner margin then up to vein 1 before middle; the cilia with a dark brown line towards tornus and the hair on inner margin with dark brown mixed beyond middle. Underside white; fore wings with brown discoidal striga and both wings with curved postmedial line.

Hab. FORMOSA, Kanshirei (*Wileman*), 1 ♀ type. *Exp.* 18 mm.

(34) *Endotricha pyralodes*, sp. n.

Antennæ of male laminate ; the patagia short.

Head and thorax rufous suffused with red-brown ; antennæ fulvous ; abdomen fulvous ; legs rufous irrorated with brown, the tarsi brown with slight pale rings. Fore wing rufous irrorated and in parts suffused with dark brown ; an indistinct obliquely curved dark medial line and indistinct curved post-medial line, the area between them and beyond them at costa somewhat paler ; a terminal series of blackish points and whitish line at base of cilia. Hind wing fulvous yellow, the costal area from before middle and the terminal area pale thickly irrorated and suffused with fuscous brown ; cilia whitish at base, blackish at tips. Underside of fore wing yellowish suffused and irrorated with fuscous ; hind wing fulvous yellow, the costal area suffused and irrorated with fuscous, the terminal area irrorated with fuscous, a small black discoidal spot.

Hab. GOLD COAST, Bibianaha (*Spurrell*), 1 ♂, 1 ♀ type.
Exp., ♂ 20, ♀ 28 mm.

(3) *Orthoraphis striatalis*, sp. n.

Head and thorax white slightly mixed with red-brown ; antennæ ringed with brown ; palpi dark brown, the 2nd and 3rd joints white at tips ; maxillary palpi dark brown, white at tips. Fore wing creamy white thickly striated with red-brown, the terminal area suffused with red-brown, the costal edge blackish towards base ; antemedial line blackish defined on inner side by white, angled inwards at median nervure and outwards at submedian fold ; a black discoidal point and three points on postmedial part of costa ; subterminal line white defined on inner side by black, angled outwards at discal fold ; cilia creamy white at base except towards apex. Hind wing creamy white, the terminal area tinged with red-brown except towards tornus ; a brownish shade from costa to beyond lower angle of cell and dark post-medial bar on inner area. Underside of fore wing red-brown irrorated with ochreous white, three black spots on postmedial part of costa with whitish between them, the subterminal line indistinct ; hind wing white, the costal and terminal areas irrorated with red-brown, a blackish discoidal spot and obliquely curved postmedial line from costa to vein 1, faint between vein 4 and submedian fold.

Hab. COLOMBIA, Sierra del Libane (*H. H. Smith*), 5 ♂, 1 ♀.
Exp. 20-24 mm.

Genus GONIOPHYSETIS, nov.

Type, *G. lactealis*.

Proboscis fully developed ; palpi porrect, extending about the length of head and thickly scaled ; maxillary palpi triangularly scaled ; frons smooth ; antennæ of male annulate and somewhat laminate. Fore wing with the apex somewhat produced, the termen slightly excised below apex and strongly excurved at

middle, the cilia dentate; veins 3 and 5 from close to angle of cell; 6 from just below upper angle; 7, 8, 9 stalked; 10, 11 from cell. Hind wing with the termen somewhat excised below apex and excurved at middle, the cilia dentate; vein 3 from before angle of cell; 5 from above angle; 6, 7 from upper angle; 7 anastomosing strongly with 8.

Goniophyetis lactealis, sp. n.

♂. Head, thorax, and abdomen white, the last slightly tinged with red-brown before extremity; palpi and maxillary palpi black. Fore wing white, slightly irrorated with rufous, more strongly at middle of terminal area; a fine blackish almost medial and slightly sinuous line, excurved from below costa to submedian fold; a discoidal lunule faintly defined by brown scales; post-medial line blackish, oblique towards costa, excurved at middle, then inwardly oblique, a bright rufous shade beyond it between veins 7 and 4; a black terminal line and two fine brown lines at base of cilia. Hind wing white tinged and irrorated with rufous except on basal and costal areas; a curved blackish antemedial line; postmedial line blackish, curved, with small black spot on it below vein 2; a black terminal line, stronger at discal fold and fine brown line near base of cilia. Underside white with the markings slight; hind wing with black discoidal point and some bright rufous on the postmedial line towards costa.

♀. Palpi and maxillary palpi white; fore wing with much stronger fiery-red shade beyond the postmedial line from costa to vein 4.

Hab. BR. E. AFRICA, Nairobi (*Anderson*), 1 ♂, 1 ♀ type. *Exp.*, ♂ 26, ♀ 30 mm.

(2) *Ischnoscopa chalcistis*, sp. n.

♂. Head, thorax, and abdomen dark brown with a leaden-grey gloss. Fore wing dark brown with a golden-bronze gloss; a curved pale brassy antemedial band and a similar postmedial band incurved below vein 4. Hind wing yellowish white tinged with brown; cilia brown with a leaden gloss. Underside of fore wing pale glossy brown with an oblique postmedial whitish bar from costa; hind wing yellowish white tinged with brown.

Hab. PHILIPPINES, Negros (*Whitehead*), 2 ♂ type. *Exp.* 12 mm.

(1b) *Hendecasis apicefulva*, sp. n.

♀. White; palpi and maxillary palpi black at tips. Fore wing with black point on vein 1 near base; antemedial black points on subcostal nervure and in submedian fold; a double pale ochreous-brown postmedial line, oblique and slightly curved to vein 1, then bent inwards to inner margin; the costal area tinged with fulvous yellow towards apex; the apical part of termen fulvous yellow narrowing to a point at vein 4 and defined on inner side by a curved black line. Hind wing with double curved antemedial line, the inner line ochreous brown, the outer black; an indistinct

double ochreous-brown postmedial line, rather oblique to vein 1, then bent inwards to inner margin where there is a black point on the inner line; the terminal area faintly tinged with ochreous brown; a black bar on termen in submedian interspace; cilia ochreous brown. Underside of fore wing with minute discoidal lunule faintly defined by blackish, a double ochreous-brown subterminal line, oblique to vein 4, then curved to inner margin; hind wing with double curved ochreous-brown subterminal line with black points on the inner line at costa, discal fold, and inner margin.

Hab. BR. E. AFRICA, Kikuyu Escarpment (*Doherty*), 1 ♀ type.
Exp. 12 mm.

(4) *Hendecasis fulviplaga*, sp. n.

♂. Head, thorax, and abdomen white tinged with ochreous; antennæ with slight brownish rings; tarsi brown ringed with white. Fore wing white slightly tinged with ochreous especially on basal area and irrorated with some blackish scales; a subbasal and two antemedial curved fulvous-yellow lines with some black scales on them; a slight blackish discoidal point; postmedial line fulvous yellow with some black scales on it, excurved below costa, then oblique and sinuous, an oblique fulvous patch irrorated with black scales beyond it from costa to discal fold; a faint diffused fulvous patch on costal area before apex and another before middle of termen; a very narrow terminal pale fulvous-yellow band defined on inner side by some black scales and by an incurved line towards apex; cilia tinged with yellow, the tips black at apex and above middle. Hind wing white; an indistinct double curved fulvous-yellow antemedial line with some black scales on it from cell to inner margin; two fulvous-yellow postmedial lines with some black scales on them, the inner line with black points on it below vein 2 and at inner margin; the terminal area slightly tinged with ochreous; a fulvous-yellow terminal line with some black scales on it. Underside white tinged with ochreous and slightly irrorated with blackish.

Hab. BR. E. AFRICA, Kikuyu Escarpment (*Doherty*), 1 ♂ type.
Exp. 16 mm.

Genus NOORDODES, nov.

Type, *N. purpureoflava*.

Proboscis fully developed; palpi downcurved, extending about twice the length of head and fringed with hair above and below; maxillary palpi triangularly scaled; frons obliquely scaled; antennæ of male ciliated; tibiæ with the outer spurs about one-third length of inner. Fore wing with vein 3 from close to angle of cell; 4, 5 approximated for a short distance; 7 shortly stalked with 8, 9, 10; 11 from cell. Hind wing with vein 3 from close to angle of cell; 4, 5 approximated for a short distance; 6, 7 from upper angle, 7 anastomosing with 8.

Noordodes purpureoflava, sp. n.

♂. Head and thorax yellow, the shoulders, pro- and metathorax

purplish red, the patagia tinged with purplish red at tips; antennæ ringed with purplish red; palpi and maxillary palpi deep purplish red, the former silvery white below towards base; throat and coxæ silvery white; fore tibiæ with deep purplish-red band and silvery-white extremity; abdomen yellow, dorsally suffused with purplish red except at base. Fore wing chrome-yellow, the costal area, a subbasal patch on inner area, a larger medial patch on inner area, small discoidal spot, and the terminal area purplish red slightly glossed with silvery blue, the last intersected by an oblique yellow fascia to termen between veins 4 and 2; cilia yellow slightly tinged with red. Hind wing chrome-yellow, the costal area and submedian fold semihyaline white; a wedge-shaped purplish-red patch below and beyond lower end of cell and a patch beyond it on termen with slightly waved inner edge. Underside yellow; fore wing with large semicircular apical purplish-red patch extending to just below vein 4.

Hab. DUTCH N. GUINEA, Mimika R. (*Wollaston*), 1 ♂ type. *Exp.* 26 mm.

(5) *Cotachena fuscimarginalis*, sp. n.

♀. Head and thorax orange; palpi with the 2nd joint streaked with black above and below; pectus and legs whitish, the fore legs streaked with fuscous; abdomen orange, whitish below. Fore wing orange; the costa fuscous connected with two small spots in base of cell, a quadrate spot in middle of cell with slight oblique line from it to vein 1 and a narrow black discoidal lunule; postmedial line black defined by yellow on outer side towards costa, then fuscous, very slightly angled outwards just below costa, then incurved, strongly bent outwards between veins 5 and 2, retracted to near base of vein 2, then slightly sinuous to inner margin; the termen narrowly fuscous with a series of slight yellow striæ on it; cilia with fine black line at base and yellowish tips. Hind wing orange; a minute dark discoidal lunule; postmedial line slightly bent outwards between veins 5 and 2, then retracted to below end of cell and oblique to inner margin; the termen narrowly fuscous with somewhat diffused and slightly waved inner edge; cilia yellow with a black line near base.

Hab. NEW GUINEA, Milne Bay (*Meeke*), 2 ♀ type. *Exp.* 24 mm.

PYRALINÆ.

(1f) *Aglossa fumifusalis*, sp. n.

♀. Head and thorax dull rufous; abdomen whitish tinged with rufous and irrorated with blackish; antennæ tinged with fuscous; palpi and legs irrorated with black, the tarsi blackish ringed with white. Fore wing pale rufous; an indistinct waved blackish antemedial line; the medial part of costa with some small blackish spots on it; a small blackish discoidal spot; some fuscous suffusion before the slightly waved blackish postmedial line which is excurved to submedian fold, then incurved; a terminal series of

black bars. Hind wing whitish suffused with pale rufous and irrorated with fuscous; a curved whitish postmedial line defined on inner side by diffused blackish and on outer by a slight fuscous shade; a terminal series of black bars. Underside whitish suffused with rufous and irrorated with fuscous; fore wing with small black discoidal spot, and both wings with curved blackish postmedial line.

Hab. BR. E. AFRICA, Uganda Ry., Kibwezi (*Neave*), 1 ♀ type. *Exp.* 24 mm.

(5 a) *Aglossa thermochroa*, n. n.

Aglossa rubralis, Hmps. A. M. N. H. (7) xvii. p. 220 (1906), nec Hmps. 1900.

(3) *Paraglossa fumiciliaris*, sp. n.

Head, thorax, and abdomen fiery rufous; palpi, pectus, legs, and ventral surface of abdomen paler rufous. Fore wing fiery red; a curved yellow postmedial line with three slight black marks near its origin on costa; a blackish terminal line; cilia blackish with a leaden gloss and a fine whitish line at base. Hind wing fiery red, the terminal area irrorated with fuscous; an indistinct curved yellowish line just beyond middle; cilia blackish with a leaden gloss and a fine whitish line at base. Underside ochreous tinged with red and irrorated with blackish; both wings with curved yellowish postmedial line defined on inner side by diffused blackish.

Hab. CAMEROONS, Ja R., Bitje (*Bates*), 5 ♂, 1 ♀ type. *Exp.* 22-24 mm.

(4) *Paraglossa sanguimarginalis*, sp. n.

♂. Head, thorax, and abdomen brownish ochreous. Fore wing brownish ochreous, the costal and terminal areas suffused with purplish red; some blackish points on medial part of costa and a small blackish discoidal spot; an indistinct curved ochreous postmedial line faintly defined on inner side by red and ending on inner margin near tornus; a fine whitish line at base of cilia. Hind wing brownish ochreous tinged with purplish red and irrorated with a few brown scales, the terminal area strongly suffused with purplish red; a curved ochreous postmedial line defined on inner side by red; cilia with a purplish-red line at middle. Underside ochreous suffused with purplish red and irrorated with brown except on terminal areas; fore wing with series of small black spots on costa to end of cell and small discoidal spot; both wings with pale curved postmedial band defined on inner side by diffused brown.

Hab. CAMEROONS, Ja R., Bitje (*Bates*), 3 ♂ type. *Exp.* 18-22 mm.

(1 b) *Hypsopygia polycyclophora*, sp. n.

Hind wing with veins 3 and 5 stalked, 4 absent.

♂. Head, thorax, and abdomen white mixed with purplish pink and irrorated with black; pectus and legs whitish suffused with purplish pink. Fore wing whitish mixed with purplish pink

and irrorated with black; the basal area more suffused with black, its outer edge curved and angled inwards at vein 1; a round medial whitish spot defined by black scales above middle of inner margin and similar spots above and below the angles of cell and beyond the cell between veins 5 and 3; a blackish subterminal line arising at vein 6, excurved to vein 3, then incurved, a whitish spot beyond it below the costa; cilia with a series of slight black spots at middle. Hind wing whitish mixed with purplish pink and irrorated with black; a round whitish spot defined by blackish on vein 2 just beyond the cell and a similar smaller spot on vein 3 before the slightly-waved whitish subterminal line somewhat incurved above vein 1; cilia with a series of small black spots at middle. Underside whitish suffused with purplish pink and slightly irrorated with black; both wings with whitish subterminal line defined by blackish as above.

Hab. BR. C. AFRICA, Mt. Mlanje (*Neave*), 1 ♂ type. *Exp.* 16 mm.

(1c) *Hypsopygia apicalis*, sp. n.

Hind wing with vein 3 stalked with 4, 5.

Head and thorax pale olive-green; abdomen ochreous; antennæ ochreous tinged with brown; legs and ventral surface of abdomen ochreous mixed with dark brown, the tarsi blackish ringed with ochreous. Fore wing pale olive-green, the costal area tinged with rufous and irrorated with dark brown; a faint whitish medial line, incurved below submedian fold; a black point at upper angle of cell; the apical area cupreous red irrorated with dark brown, extending to vein 4 and defined on inner side by a curved white line; cilia whitish at base and pale red at tips to vein 4. Hind wing grey suffused with brown, the cilia whitish tinged with red-brown. Underside of fore wing fuscous black, the costa tinged with rufous, the inner area whitish; hind wing grey suffused with fuscous.

Hab. GOLD COAST, Bibianaha (*Spurrell*), 4 ♂, 5 ♀ type. *Exp.* 16-20 mm.

(2a) *Pyralis galactalis*, sp. n.

Pyralis ocellalis, Hmps. Trans. Ent. Soc. 1896, p. 509 (nec Led.).

Hind wing with veins 3 and 5 stalked, 4 absent.

♂. Head and thorax red-brown suffused with fuscous; abdomen ochreous, the basal segment with purple-brown patch, the 2nd tinged with fiery red, the others with subdorsal series of purple-brown patches; frons, palpi, legs, and ventral surface of abdomen ochreous suffused with red. Fore wing with the basal area purple-brown suffused with fuscous, the medial area creamy ochreous tinged with rufous towards the postmedial line, the terminal area ochreous suffused with purplish red; the outer edge of the dark basal area sinuous; the medial part of costa with alternating pale rufous and whitish spots; a round whitish spot with pale rufous annulus at upper angle of cell and others below and beyond

lower angle of cell and on vein 1; postmedial line white defined on each side by red-brown, excurved to vein 2, then incurved. Hind wing creamy ochreous tinged with rufous especially on basal area; a blackish-brown patch above basal half of inner margin, with a white bar at its extremity; a curved very slightly waved white postmedial line defined on each side by dark brown and by black on outer side at tornus; a fine rufous line near base of cilia. Underside ochreous white; fore wing with the costal and terminal areas tinged and irrorated with red, the costa with series of white points with dark brown between them to the postmedial line, which is defined on outer side by red-brown; hind wing with the costal area tinged and irrorated with red, the postmedial line as above but less distinct.

Hab. BR. E. AFRICA (*Gregory*), 1 ♂, Machakos (*Crawshay*), 1 ♂; MASHONALAND, Salisbury (*Marshall*), 1 ♂ type; ADEN, Haithalhim (*Yerbury*), 1 ♂. *Exp.* 14–18 mm.

[To be continued.]

XLV.—*A new Species of the Crustacean Genus Squilla from West Africa.* By W. T. CALMAN, D.Sc.

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Squilla africana, sp. n.

Squilla empusa (part.), Miers, Ann. & Mag. Nat. Hist. (5) v. 1880, p. 23.

Squilla empusa, Jurich, Die Stomatopoden d. deutschen Tiefsee-Expedition. Wiss. Ergeb. d. d. Tiefsee-Exp. 'Valdivia,' vii. 1904, p. 366, pl. xxv. fig. 3.

Non *Squilla empusa*, Say, Journ. Acad. Nat. Sci. Philadelphia, i. 1818, p. 250.

Description.—Dorsal surface smooth and more or less polished between the carinæ. Breadth of carapace behind antero-lateral teeth about one-half of its length. Anterior margin on either side of rostral plate concave and slightly oblique, tips of strong antero-lateral teeth not nearly reaching level of frontal edge.

All carinæ of carapace well marked. Median carina forked in front and behind; in full-grown specimens it is always interrupted just where it divides anteriorly, and in some specimens the limbs of the fork are almost obliterated. Dorsal pit a little nearer to the frontal margin than to the cervical groove; anterior fork of median carina extending not more than two-thirds of the distance from frontal margin to dorsal pit. Lateral margin of carapace distinctly angled posteriorly.