

FURTHER DESCRIPTIONS OF NEW SPECIES OF JAPANESE,
FORMOSAN AND PHILIPPINE HETEROCERA.

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THE descriptions in this paper are based on material in the collection of the late A. E. Wileman, now in the British Museum (Natural History).

HYPSIDAE.

***Asota belophora* sp.n.**

♀: *Palpus* clove-brown, some cream-buff on second segment. *Antenna* setose. *Head*: frons and vertex cream-buff. *Thorax*: patagium and tegula cream-buff with central clove-brown spot, rest of thorax cream-buff, with two clove-brown spots. *Abdomen* cartridge-buff with lateral series of Saccardo's umber spots, venter cream-buff. *Pectus* cream-buff. *Legs* cartridge-buff, Saccardo's umber above. *Forewing* snuff-brown to Saccardo's umber, a large cartridge-buff; wedge-shaped patch, occupying the centre of wing, upper edge from costa at base, through centre of cell to discocellulars, angled, obliquely waved to subcosta, angled, then along subcosta to about two-thirds, outer edge obliquely incurved and crenulate, from subcosta to termen above vein 2, lower edge from inner margin subbasally, incurved to near median nervure, then slightly upcurved to termen just below vein 2; a group of clove-brown spots and dashes at base. *Hindwing* cartridge-buff, a border at termen of Saccardo's umber, wide at apex gradually narrowing to tornus. *Underside*: forewing cartridge-buff, Saccardo's umber on costa and apical area; in the cell a Saccardo's umber spot, with a streak towards base; hindwing cartridge-buff, bordered with Saccardo's umber along costa and termen as far as vein 4.

Expanse 60 mm. (*tip to tip* 58 mm.).

Holotype ♀: 27.xii.1912, Philippine Is., Luzon I., subprov. Benguet, Palali, 2,000 ft.

Nearest ally: *A. latiradia* Swinh.

***Deilemera plesiastes* sp.n.**

♀: *Palpus* clove-brown. *Antenna* pectinate. *Head*: frons and vertex cream-buff, with a clove-brown spot. *Thorax*: patagium cream-buff, with a clove-brown spot, tegula cream-buff, with a clove-brown spot, fringed with hair-scales of Saccardo's umber, rest of thorax cream-buff with a clove-brown spot posteriorly. *Abdomen* cream-buff banded with clove-brown, venter cream-buff. *Pectus* cream-buff, spotted with clove-brown. *Legs* cream-buff, Saccardo's umber above. *Forewing* Saccardo's umber, a white, wedge-shaped patch occupying basal half of cell, a white spot below near base, a white streak on inner margin for about a third; a large irregularly shaped, white patch occupying the greater part of the middle of wing, proximal edge from costa postmedially, obliquely incurved to near base of vein 6, inwardly to near middle of cell, angled

sharply, then outwardly oblique to base of vein 2, excurved, then inwardly along median nervure for one half, distal edge outwardly bowed and wavy to anal vein, lower edge gradually rising and joining proximal edge in a blunt point just below median nervure antemedially; two white spots in subterminal area, one between veins 6 and 7, the other between veins 4 and 5. *Hindwing* white, Saccardo's umber on termen on costa, a border of Saccardo's umber on termen in which are two white spots, one on vein 6, the other between veins 3 and 4, fringe white. *Underside* similar to upperside.

Expanse 50 mm. (*tip to tip* 47 mm.).

Holotype ♀: 30.x.1913; *paratype* ♀: 1.iv.1913, Philippine Is., Luzon I., subprov. Benguet, Baguio, 5,000 ft.

In the paratype the white is more extensive, the patches on the forewing being merged into one, the border of hindwing is broken up into patches.

Nearest ally: *D. formosana* Swinh.

THYATRIDAE.

Thyatira dysimata sp.n.

♂: *Palpus* pinkish buff, suffused with mummy-brown. *Antenna* fasciculate. *Head*: frons and vertex pinkish buff, suffused with mummy-brown. *Thorax*: patagium mummy-brown, tegula mummy-brown, posterior half white tinged with testaceous. *Abdomen* pinkish buff, suffused with mummy-brown, venter pinkish buff. *Pectus* pinkish buff. *Legs* pinkish buff, tinged with mummy-brown, tarsal segments fuscous, pinkish buff at joints. *Forewing* mummy-brown tinged with fuscous-black, a number of wavy, transverse, fuscous-black lines on costa for two-thirds; basal patch, upper half white suffused with pinkish buff, two fuscous spots at base of cell, a slightly oval patch of testaceous to mummy-brown just below median nervure, fuscous below anal vein, the whole edged with white and defined by fuscous-black, distal edge outwardly oblique and wavy to median nervure, excurved to anal vein, outwardly oblique to inner margin; a pinkish buff patch on inner margin medially defined by fuscous-black, with a little white on upper edge; a patch on costa postmedially, bordered by white, filled with testaceous tinged with mummy-brown, distal edge outwardly oblique, sharply angled, then inwardly oblique to just below vein 6, proximal edge inwardly oblique, sharply angled, outwardly oblique, then obliquely incurved joining distal edge; an elongate pinkish buff patch at apex almost touching point of postmedial patch; the space between and above these two patches V-shaped, fuscous-black, with three white points on costa; an irregular patch near tornus bordered by white, defined by fuscous-black, filled with testaceous suffused with mummy-brown, proximal edge inwardly oblique and wavy from above vein 2 to anal vein, sharply angled, then outwardly oblique to inner margin, upper edge downcurved, distal edge obliquely incurved to below vein 2, angled, then inward, again angled, then straight to tornus; terminal line crenulate (points distad), white in the two lower curves, fringe pinkish buff, mummy-brown spots at ends of veins. *Hindwing* pinkish buff, suffused with fuscous on distal half. *Underside*: forewing light buff suffused with fuscous, a light buff patch at apex, preceeded by fuscous on costa, fringe light buff with fuscous spots at ends of veins; hindwing light buff postmedial fascia fuscous, outwardly angled at vein 5.

Expanse 46 mm. (*tip to tip* 44 mm.).

Holotype ♂ and *paratype* ♂: 7.xi.1912, Philippine Is., Luzon I., subprov. Benguet, Pauai, Haight's Place, 7,000 ft.; *paratype* ♂: 21.vi.1913, subprov. Benguet, Baguio, 5,000 ft.

Nearest ally: *T. vicina* Guen.

Palimpsestes dysanacrita sp.n.

♂: *Palpus* pale drab-grey mixed with fuscous. *Antenna* minutely eiliate. *Head*: frons and vertex pale drab-grey mixed with fuscous. *Thorax*: patagium pale drab-grey mixed with fuscous, tegula pale drab-grey. *Abdomen* pale drab-grey mixed with fuscous, venter pale drab-grey. *Pectus* pale drab-grey. *Legs* pale drab-grey mixed with fuscous, tarsi fuscous, pale drab-grey at joints. *Forewing* glossy, pale drab-grey, antemedial fascia consisting of three fuscous, wavy lines, the space between the lines being suffused with fuscous; orbicular and reniform pale drab-grey defined by drab-grey; postmedial fascia consisting of three fuscous lines in a fuscous suffusion, the proximal line inwardly oblique to subcosta, angled, outwardly oblique to base of vein 4, angled, inwardly oblique to just below vein 2, angled, then outwardly oblique to inner margin, the other two lines not so sharply angled; followed by a double row of pale drab-grey dashes on veins; subterminal area suffused with fuscous, with a pale drab-grey fascia commencing with a patch at apex followed by a series of dashes on veins, defined by fuscous distally; terminal line fuscous, crenulate (points distad), fringe pale drab-grey. *Hindwing* pale drab-grey, lightly suffused with fuscous, more densely in subterminal area; postmedial fascia a pale drab-grey, slightly excurved line, termen fuscous, fringe pale drab-grey. *Underside*: forewing pale drab-grey suffused with fuscous, termen fuscous, fringe pale drab-grey; hindwing pale drab-grey tinged with fuscous, termen fuscous, fringe pale drab-grey.

Expanse 41 mm. (*tip to tip* 39 mm.).

♀: Similar to ♂.

Expanse 41 mm. (*tip to tip* 39 mm.).

Holotype ♂: 20.vii.1903; *paratypes*: 1 ♂, 16.viii.1903; 3 ♀♀, 10, 28.vii, 16.viii.1903, Japan, Hokkaido, prov. Ishikari, Tobetsu (plains) (A. E. Wileman); *allotype* ♀: 14.vii.1923; *paratypes*: 2 ♀♀, 12, 14.vii.1923, Japan, prov. Hohki, Mt. Daisen (L. Sugitani).

Nearest ally: *P. plumbea* Butl.

In addition to the specimens collected by A. E. Wileman, there are in the British Museum (Natural History) three perfect females, collected by L. Sugitani; one of these has been selected as the allotype.

EUPTEROTIDAE.

Apha gonioptera sp.n.

♂: *Palpus* warm buff mixed with warm sepia. *Antenna* pectinate. *Head*: frons warm sepia, a tuft of warm buff from base of antenna, vertex warm sepia. *Thorax*: patagium light buff, tegula and rest of thorax pinkish cinnamon. *Abdomen* pinkish cinnamon, venter russet. *Pectus* russet. *Legs* warm buff to cinnamon, tarsi cinnamon. *Forewing* pinkish buff, warm sepia on edge of costa, a fuscous-black spot in cell; postmedial fascia consisting of four, wavy, crenulate, cinnamon-brown lines; subterminal fascia a sharply defined, warm sepia line,

outwardly oblique from costa to vein 6, angled, then inwardly oblique to inner margin; subterminal area suffused with cinnamon-brown at apex, and from vein 4 to tornus, a series of interneural patches of warm sepia mixed with pearl grey, termen straight to vein 4, oblique to tornus. *Hindwing* basal half pinkish buff, distal half cinnamon-brown, spot in cell not so conspicuous as in forewing; fasciae forming continuation of those on forewing; in subterminal area a wavy, warm sepia fascia with a pearl-grey spot on each vein, termen straight to vein 4, angled, then oblique to tornus. *Underside*: fore- and hindwings similar to upperside, a pearl-grey suffusion in subterminal area of hindwing from vein 4 to inner margin.

Expanse 62 mm. (*tip to tip* 55 mm.).

Holotype ♂: 2.iii.1913, Philippine Is., Luzon I., subprov. Benguet, Palali, 2,000 ft.

Nearest ally: *A. aequalis* Feld.

Eupterote epicharis sp.n.

♂: *Palpus* mars brown. *Antenna* pectinate. *Head*: frons and vertex warm buff. *Thorax*: patagium warm buff, tegula and rest of thorax chamois. *Abdomen* chamois, suffused with mars brown, venter and anal tuft warm buff. *Pectus* warm buff. *Legs* warm buff, mars brown outwardly. *Forewing* chamois, lightly suffused with mars brown for two-thirds, antemedial fascia consisting of a broad, excurved, warm sepia line from costa subbasally to inner margin antemedially; medial fascia consisting of two warm sepia lines, the proximal line thicker and more heavily marked, outwardly oblique from costa antemedially to base of vein 5, angled, then slightly waved to inner margin; postmedial fascia consisting of two warm sepia lines, the proximal line much broader and more defined, slightly incurved; subterminal area suffused with mars brown in which is a fascia of seven broad, light buff lunules, fringe chamois. *Hindwing* basal two-thirds chamois, distal third suffused with mars brown, medial fascia consisting of two faintly marked, excurved, warm sepia lines; postmedial fascia consisting of two warm sepia, excurved lines, the proximal line much broader and more defined; a fascia of seven broad, light buff lunules in subterminal area, fringe chamois. *Underside*: fore- and hindwings chamois, suffused with mars brown, markings similar to upperside.

Expanse 64 mm. (*tip to tip* 56 mm.).

♀: Similar to ♂.

Expanse 65 mm. (*tip to tip* 57 mm.).

Holotype ♂: 25.v.1912; *allotype* ♀: 7.viii.1912; *paratypes*: 3 ♂♂, 10.vi, 1 ♂ 13.vi, 1 ♂ 16.vi.1913, Philippine Is., Luzon I., subprov. Benguet, Bagnio, 5,000 ft.

Nearest ally: *E. testacea* Wlk.

NOTODONTIDAE.

Spatialia acharista sp.n.

♂: *Palpus* mars brown. *Antenna* pectinate for three-fourths, apical fourth ciliate. *Head*: frons and vertex mars brown. *Thorax*: patagium mars brown edged with fuscous-black posteriorly, tegula cinnamon-buff anteriorly to mars brown posteriorly, scales spreading upward forming a crest, rest of thorax pinkish

buff. *Abdomen* pinkish buff suffused with mars brown, venter pinkish buff. *Pectus* pinkish buff. *Legs* pinkish buff mixed with mars brown. *Forewing* mars brown, a large patch of cinnamon-buff dusted over with mars brown on lower half, extending from anal vein subbasally, upwardly oblique to median nervure at middle of cell, along median nervure and vein 2 to near end, where it is excurved to tornus; subbasal fascia represented by three fuscous-black dots; antemedial fascia a crenulate (points basad), fuscous-black line; orbicular a prominent, oval, fuscous-black spot, reniform not so clearly defined; postmedial fascia a crenulate (points distad), ill-defined, fuscous-black line, inwardly oblique from costa to vein 3, then straight to inner margin; subterminally two light buff patches, one on vein 6, the other between veins 3 and 4; a terminal series of interneural dots, fuscous-black defined by cartridge-buff proximally. *Hindwing* cinnamon-buff suffused with mars brown. *Underside*: fore- and hindwings pinkish buff tinged with mars brown.

Expanse 40 mm. (*tip to tip* 38 mm.).

Holotype ♂: 15.iii.1912. Philippine Is., Luzon I., subprov. Benguet, Klondyke, 800 ft.

Nearest ally: *S. strigosa* Wlk.

***Furcula hapala* sp.n.**

♂: *Palpus* white mixed with fuscous-black. *Antenna* fuscous, white on shaft, pectinate. *Head*: frons white, a little fuscous-black laterally, vertex white. *Thorax*: patagium white, posterior edge fuscous-black, tegula white, a fuscous-black spot posteriorly. *Abdomen* white banded with fuscous-black, venter and anal tuft white. *Pectus* white. *Legs* white, a fuscous-black bar on tibiae, tarsal segments fuscous-black, white at joints. *Forewing* glossy, white, subbasal fascia a broken, fuscous-black line; antemedial fascia consisting of a broken, fuscous-black line, slightly waved, and outwardly oblique; postmedial fascia consisting of two fuscous-black, crenulate (points distad), excurved and wavy lines; subterminal fascia consisting of two, fuscous-black lines, well separated on costa, gradually converging, and terminating at vein 4; interneural fuscous-black spots on termen. *Hindwing* white, some fuscous on veins subterminally, interneural fuscous-black spots on termen. *Underside*: fore- and hindwings white, markings showing through from upperside.

Expanse 46 mm. (*tip to tip* 44 mm.).

♀: Similar to ♂.

Expanse 56 mm. (*tip to tip* 52 mm.).

Holotype ♂: 23.viii.1912; *allotype* ♀: 18.vi.1911, Philippine Is., Luzon I., prov. Rizal, Manila (plains).

Nearest ally: *F. prasina* Moore.

***Stauropus charistera* sp.n.**

♂: *Palpus* upcurved, cartridge-buff beneath, Natal brown above. *Antenna* basal three-fourths pectinate, apical fourth ciliate, shaft white mixed with Natal brown. *Head*: frons and vertex white mixed with Natal brown. *Thorax*: patagium and tegula white mixed with Natal brown. *Abdomen* cartridge-buff suffused with Natal brown, a Natal brown crest at base dorsally, venter cartridge-buff, anal tuft Natal brown. *Pectus* cartridge-buff. *Legs*

cartridge-buff mixed with Natal brown. *Forewing* with no definite pattern, but wing coloration divided into two parts, the proximal half being a darker shade than the distal half, the edge of the proximal half gently waved and oblique from costa at one-third to tornus, ground colour Natal brown; proximal half streaked with chromium green and white, the green being in indefinite patches separated by patches of whitish irroration; medially, streaked by whitish over which there is a purplish tinge; the subterminal area is streaked with chromium green, the green predominating and giving it a paler appearance, a dark patch formed by predominating Natal brown on costa well before apex. *Hindwing* cartridge-buff lightly suffused with Natal brown, a small Natal brown patch on costa before apex. *Underside*: forewing cartridge-buff with a patchy suffusion of Natal brown; hindwing cartridge-buff.

Expanse 44 mm. (*tip to tip* 43 mm.).

Holotype ♂: 26.v.1914, Philippine Is., Mindanao I., subprov. Lanao, Kolambugan (plains).

Nearest ally: *S. pallidifascia* Hmps. n.

Stauropus nephodes sp.n.

♂: *Palpus* cartridge-buff mixed with dusky drab. *Antenna* pectinate for three-fourths, apical fourth ciliate. *Head*: frons and vertex cartridge-buff mixed with dusky drab. *Thorax*: patagium and tegula cartridge-buff mixed with dusky drab, rest of thorax cartridge-buff. *Abdomen* from dusky drab on basal segments to cartridge-buff on anal segments, with dorsal crests at base, venter cartridge-buff. *Pectus* cartridge-buff. *Legs* cartridge-buff mixed with dusky drab. *Forewing* proximal third cartridge-buff mixed with dusky drab, beyond dusky drab reaching termen at apex and tornus only, distal edge diffused, forming a large incurve from just below apex to tornus; reniform a cartridge-buff lunule; postmedial fascia a crenulate, wavy, cartridge-buff line; subterminal area cartridge-buff irrorated with dusky drab, in which is a series of interneural dusky drab dashes, interneural patches on termen. *Hindwing* cartridge-buff, a dusky drab patch at apex extending down to vein 5, and inwardly to discocellulars, a slight suffusion of dusky drab on inner margin; termen dusky drab. *Underside*: forewing cartridge-buff, dusky drab on costa for two-thirds, a suffusion of dusky drab at distal end of cell and beyond; hindwing cartridge-buff.

Expanse 38 mm. (*tip to tip* 36 mm.).

Holotype ♂: 15.iii.1912; *paratypes*: 1 ♂ 13.iii.1912, 1 ♂ 15.iv.1912, Philippine Is., Luzon I., subprov. Benguet, Klondyke, 800 ft.; 1 ♂ 13.xi.1911, Luzon I., prov. Rizal, Manila (plains); 1 ♂ 27.i.1914, prov. Rizal, Montalban.

Nearest ally: *S. sikkimensis* Moore.

Phalera melantata sp.n.

♂: *Palpus* snuff-brown. *Antenna* fasciculate. *Head*: frons and vertex snuff-brown. *Thorax*: patagium snuff-brown, tegula snuff-brown, warm sepia on lower edge, rest of thorax warm sepia. *Abdomen* warm sepia, anal tuft pinkish buff, venter pinkish buff tinged with sepia. *Pectus* pinkish buff suffused with sepia. *Legs*: foreleg snuff-brown, other legs pinkish buff suffused with sepia, tarsi warm sepia, pinkish buff at joints. *Forewing* warm sepia with a

purplish tinge, a suffusion of snuff-brown at base; antemedial fascia a slightly excurved, fuscous-black line; postmedial fascia an ill-defined, crenulate, fuscous-black line, outwardly bowed to vein 3, inwardly oblique to inner margin; subterminal fascia an ill-defined, wavy, fuscous-black line, interneural fuscous-black spots on termen. *Hindwing* warm sepia. *Underside*: fore- and hindwings sepia.

Expanse 45 mm. (*tip to tip* 43 mm.).

Holotype ♂: 2.xii.1913, Philippine Is., Luzon I., subprov. Benguet, Palali, 2,000 ft.

Nearest ally: *P. obscura* Wileman.

Gargetta euteles sp.n.

♀: *Palpus* white, fawn colour above. *Antenna* minutely ciliate. *Head*: frons light buff mixed with fawn colour, vertex light buff. *Thorax*: patagium light buff, tegula white tinged with fawn colour. *Abdomen* fawn colour, venter light buff. *Pectus* light buff. *Legs* white, tibiae fawn colour above, tarsi fuscous above. *Forewing* fawn colour, a longitudinal strip of white irroration covering about one-third of wing, more pronounced on costa and just below, decreasing in density toward middle of wing; in this white irroration are some fuscous dashes on veins, a fuscous lunule on discocellulars; subbasal fascia a wavy, fuscous shade; postmedial fascia consisting of a band of fawn colour outlined with fuscous, followed by a series of fuscous dashes on veins, outwardly bowed to vein 3, slightly oblique to inner margin; fuscous streaks on veins in subterminal area, broken by a white, crenulate fascia passing through them, termen fuscous. *Hindwing* cartridge-buff, suffused with fuscous on distal half, termen fuscous. *Underside*: forewing fuscous, some white points on costa before apex; hindwing cartridge-buff suffused with fuscous below costa and on subterminal area.

Expanse 36 mm. (*tip to tip* 35 mm.).

Holotype ♀: 19.vii.1912, Philippine Is., Luzon I., prov. Rizal, Manila, (plains).

Nearest ally: *C. acarodes* Turner.

Gargetta dyspines sp.n.

♀: *Palpus* cartridge-buff mixed with fuscous. *Antenna* pectinate. *Head*: frons and vertex light buff. *Thorax*: patagium light buff, tegula cartridge-buff tinged with fuscous anteriorly. *Abdomen* cartridge-buff lightly suffused with fuscous, venter cartridge-buff. *Pectus* cartridge-buff. *Legs* cartridge-buff suffused with fuscous. *Forewing* cartridge-buff densely irrorated with fuscous on proximal half, distal half less densely irrorated; medial fascia an ill-defined, crenulate (points basad), fuscous line; an elongate fuscous spot defined by cartridge-buff, on discocellulars; postmedial fascia a crenulate (points distad), outwardly bowed, fuscous line; a border on termen formed by a fuscous shade, on the proximal edge of which is a blunt point projecting inwardly at vein 5, termen fuscous. *Hindwing* cartridge-buff suffused with fuscous, more densely on subterminal area, with a faintly marked, fuscous, medial fascia, and a faint fuscous mark on discocellulars. *Underside*: fore- and hindwings cartridge-buff suffused with fuscous, markings on hindwing the same as on upperside.

Expanse 43 mm. (*tip to tip* 42 mm.).

Holotype ♀: 4.iv.1912, Philippine Is., Luzon I., subprov. Benguet, Klondyke, 800 ft.

Nearest ally: *G. acarodes* Turner.

Pydna callista sp.n.

♂: *Palpus* cartridge-buff, cinnamon-brown above. *Antenna* pectinate. *Head*: frons and vertex light buff mixed with cinnamon-brown. *Thorax*: patagium and tegula light buff mixed with cinnamon-brown, rest of thorax light buff tinged with cinnamon-brown. *Abdomen* light buff suffused with cinnamon-brown, venter and anal tuft cartridge-buff. *Pectus* cartridge-buff. *Legs*: fore-leg light buff mixed with cinnamon-brown; other legs cartridge-buff. *Forewing* light buff, with a patchy irroration of cinnamon-brown, principally on proximal half of wing; a cluster of irrorations form an indefinite patch below middle of cell; another, a smaller patch in distal end of cell, also a streak from just beyond end of cell, along vein 6 to near end where it rises obliquely to apex; a series of interneural cinnamon-buff spots subterminally. *Hindwing* light buff tinged with cinnamon-buff above inner margin. *Underside*: fore- and hindwings cartridge-buff.

Expanse 48 mm. (*tip to tip* 46 mm.).

Holotype ♂: 22.xii.1911, Philippine Is., Luzon I., subprov. Benguet, Klondyke, 1,300 ft.; *paratype* ♂: (very worn) 6.ii.1914, Luzon I., prov. Rizal, Montalban (plains).

Nearest ally: *P. pallida* Butl.

Ichthyura elachista sp.n.

♂: *Palpus* verona brown, light buff beneath. *Antenna* pectinate. *Head*: frons and vertex verona brown. *Thorax*: patagium and tegula verona brown. *Abdomen* cartridge-buff mixed with verona brown, venter cartridge-buff. *Pectus* cartridge-buff. *Legs* light buff, verona brown above. *Forewing* verona brown, antemedial fascia a faintly marked, excurved line; postmedial fascia a faintly marked, wavy line; a series of fuscous spots subterminally. *Hindwing* cartridge-buff lightly suffused with verona brown, more pronounced on inner margin, densely at tornus. *Underside*: forewing cartridge-buff suffused with verona brown; hindwing cartridge-buff suffused with verona brown on inner margin.

Expanse 24 mm. (*tip to tip* 22 mm.).

Holotype ♂: 11.iii.1912, Philippine Is., Luzon I., subprov. Benguet, Klondyke, 800 ft.

Nearest ally: *I. troglodyta* Graes.

GEOMETRIDAE.

Geometrinae.

Cleora paepalima sp.n.

♀: *Palpus* cartridge-buff, some Rood's brown outwardly. *Antenna* minutely ciliate, with paired setae. *Head*: frons and vertex cartridge-buff mixed with Rood's brown, a tuft of Rood's brown scales between antennae. *Thorax*: patagium Rood's brown to bone-brown, tegula cartridge-buff, Rood's

brown posteriorly. *Abdomen* white suffused with Rood's brown, bone-brown at joints of segments, venter cartridge-buff. *Pectus* cartridge-buff. *Legs* cartridge-buff with bone-brown patches. *Forewing* Rood's brown, patchy overlay of bone-brown, white at base; subbasal fascia a white, wavy line; antemedial fascia consisting of a white line enlarged to a patch on distal side in cell, excurved from costa to median nervure, then excurved and inwardly oblique to inner margin; postmedial fascia consisting of a white line defined by bone-brown proximally, a white suffusion on upper half proximally, straight from costa to vein 3, where it is bent and inwardly oblique to inner margin; subterminal fascia consisting of a series of connected bone-brown patches defined by white, broken by an oblique white streak which rises from the proximal edge at vein 6 to apex, proximal edge excurved, distal edge wavy and deeply dentate between veins 2 and 4; interneural bone-brown lunules on termen. *Hindwing* white, tinged with Rood's brown on proximal half, suffused with Rood's brown on distal half; postmedial fascia consisting of an excurved, white line; subterminal fascia consisting of two white lines, the distal one wavy, the space between these lines lightly suffused with bone-brown, more deeply near inner margin, termen bone-brown, crenulate. *Underside*: forewing white irrorated with fuscous, cell spot fuscous, subterminal fascia fuscous, a quadrate white spot at apex; hindwing white irrorated with fuscous, cell spot fuscous, subterminal fascia fuscous.

Expanse 52 mm. (*tip to tip* 48 mm.).

♂: Similar to ♀, but having antenna pectinate for two-thirds, apical third ciliate, with paired setae.

Expanse 44 mm. (*tip to tip* 40 mm.).

Holotype ♀: 30.xi.1912; *allotype* ♂ and *paratype* ♂: 9.xii.1912. Philippine Is., Luzon I., subprov. Benguet, Pauai, Haight's Place, 7,000 ft. Differs from other species of the genus in appearance, having a strong superficial resemblance to *B. discipuneta* Warren.

BOMBYCIDAE.

Clenera epigrypa sp.n.

♂: *Palpus* minute, auburn. *Antenna* pectinate. *Head*: frons auburn, vertex burnt umber, tinged with warm blackish brown. *Thorax*: patagium and tegula auburn to burnt umber. *Abdomen* burnt umber suffused with warm blackish brown, venter and anal tuft auburn. *Pectus* auburn. *Legs* auburn, burnt umber above. *Forewing* burnt umber suffused with warm blackish brown, costa arched before apex, which is produced, termen excised from apex to vein 3, then oblique and waved to tornus; antemedial fascia warm blackish brown, outwardly oblique from costa to median nervure, sharply angled, then inwardly oblique to inner margin; medial fascia follows a similar course, but is not quite parallel with, or so sharply angled as the antemedial fascia; a blackish brown spot on discocellulars, quartered by an auburn cross formed by discocellulars and vein 5; subterminal fascia consisting of two warm blackish brown, slightly waved, oblique lines; two streaks of pinkish buff scaling, one below vein 2, the other on inner margin. *Hindwing* burnt umber, blackish brown on inner margin, broken by pinkish buff scaling medially. *Underside*: forewing auburn suffused with burnt umber on upper half, more densely toward apex; hind wing auburn suffused with burnt umber on inner margin, a burnt umber spot on discocellulars, postmedial fascia consisting of two excurved, burnt umber lines.

Expanse 44 mm. (*tip to tip* 42 mm.).

Holotype ♂ : 28.vi.1913, Philippine Is., Luzon I., subprov. Benguet, Palali, 2,000 ft.

Nearest ally : *C. proxima* Roepke.

Mustilia gerontica sp.n.

♂ : *Palpus* minute, orange-buff. *Antenna* shaft white, basal half pectinate, apical half minutely ciliate. *Head* : frons orange-buff, pale greyish vinaceous on upper half, vertex white. *Thorax* : patagium orange-buff, edged with pale greyish vinaceous posteriorly, tegula pale greyish vinaceous, rest of thorax chestnut to chestnut-brown. *Abdomen* chestnut to chestnut-brown, venter orange-buff at base to chestnut-brown at anal end. *Pectus* and *legs* orange-buff. *Forewing* chestnut, proximal two-thirds densely irrorated with pale greyish vinaceous, distal third irrorated with orange-buff; a small chestnut-brown spot on discocellulars; postmedial fascia consisting of a chestnut-brown shade; subterminal fascia consisting of a faintly marked, chestnut-brown, obliquely incurved line; these two fasciae are placed more closely than usual. *Hindwing* upper half pinkish buff, lower half chestnut, chestnut-brown irrorated with pale greyish vinaceous on inner margin; postmedial and subterminal fasciae consisting of two, faintly marked, oblique lines, rather close as in forewing. *Underside* : fore- and hindwings chestnut irrorated with orange-buff, a suffusion of chestnut-brown irrorated with pale greyish vinaceous on inner margin of hindwing, fasciae the same as on upperside.

Expanse 62 mm. (*tip to tip* 52 mm.).

Holotype ♂ and *paratype* ♂ : 11.v.1909, Formosa, Rantaizan, 7,500 ft.

Nearest ally : *M. phaeopera* Hmpsn.

Trilocha myodes sp.n.

♂ : *Palpus* minute, army brown. *Antenna* pectinate. *Head* : frons army brown mixed with light buff, vertex light buff. *Thorax* : patagium and tegula army brown mixed with light buff. *Abdomen* army brown above and beneath. *Pectus* light buff suffused with army brown. *Legs* army brown suffused with fuscous. *Forewing* army brown, light buff mixed with chestnut on costa; ante-medial fascia a deeply excurved, faintly marked, fuscous line, defined proximally by light buff; a prominent fuscous spot on discocellulars; postmedial fascia an ill-defined, fuscous shade, outwardly oblique from costa to vein 6, then slightly waved to inner margin; subterminal fascia a light buff line, edged proximally by fuscous, outwardly oblique from costa to vein 6, then wavy to inner margin; a small patch of fuscous on costa before apex, a larger patch of fuscous in subterminal area just below apex, these two patches divided by a light buff streak from subterminal fascia to apex. *Hindwing* army brown, postmedial fascia a light buff, excurved, wavy line; three fuscous spots divided by light buff, on inner margin; subterminal area suffused with dark vinaceous brown. *Underside* : fore- and hindwings, markings similar to upperside, but of a warmer tone.

Expanse 26 mm. (*tip to tip* 23 mm.).

♀ : Very much worn, uniformly fuscous, with light buff subterminal fascia and streak at apex as in the ♂.

Expanse 32 mm. (*tip to tip* 29 mm.).

Holotype ♂: 19.iv.1912; *paratype* ♂: 8.v.1912, Philippine Is., Luzon I., subprov. Benguet, Klondyke, 800 ft.; *allotype* ♀: 5.x.1912; *paratype* ♂: 17.i.1913, Luzon I., prov. Rizal, Manila (plains).

Nearest ally: *T. varians* Wlk.

This species appears to vary in colour from army brown to fuscous.

URANIIDAE.

Pseudomicronia charassozona sp.n.

♂: *Palpus* fuscous. *Antenna* minutely ciliate. *Head*: frons fuscous-black, vertex white. *Thorax*: patagium and tegula white. *Abdomen* white above and beneath. *Pectus* white. *Legs*: coxae white, femora white with drab above, tibiae and tarsi drab. *Forewing* white, strigulated with drab, antemedial fascia a diffused, drab, inwardly oblique, narrow band; postmedial fascia a diffused, drab, narrow band, obliquely excurved from costa to vein 2, slightly oblique to inner margin; subterminal fascia a diffused, slightly waved, drab line, termen fuscous-black. *Hindwing* concolorous with forewing, postmedial fascia an excurved band forming continuation of postmedial on forewing; subterminal fascia forming continuation of subterminal on forewing, straight from costa to vein 4, angled, then inwardly oblique to inner margin, deeply dentate; termen fuscous-black, enlarged to a spot at the ends of veins 5 and 6, angled and produced to a point at vein 4; a fuscous-black spot on vein 4 in subterminal area, from which is a fine fuscous-black streak running to a point on termen. *Underside*: fore- and hindwings drab.

Expanse 50 mm. (*tip to tip* 45 mm.).

♀: Differs from ♂ in being not so strongly marked, with the underside of wings white.

Expanse 50 mm. (*tip to tip* 45 mm.).

Holotype ♂ and *paratypes* 3 ♂♂, 1 ♀: v.1902, Philippine Is., Ticao; *allotype* ♀: 29.iv.1912, Luzon I., subprov. Benguet, Klondyke, 800 ft.; *paratype* ♀: 25.xii.1912, subprov. Benguet, Palali, 2,000 ft.

Nearest ally: *P. justaria* Wlk.

There being only ♀♀ in the Wileman Collection, one of the four ♂♂ in the British Museum Collection has been selected as the holotype.

Epiplema wilemani sp.n.

♂: *Palpus* blackish brown. *Antenna* minutely ciliate. *Head*: frons blackish brown, vertex tilleul buff. *Thorax*: patagium and tegula tilleul buff. *Abdomen* tilleul buff above and beneath. *Pectus* tilleul buff. *Legs* tilleul buff, foreleg suffused with blackish brown above. *Forewing* tilleul buff with fine strigulations of benzo brown; antemedial fascia an ill-defined, excurved, wavy line; postmedial fascia snuff-brown, slightly oblique, deeply excurved at vein 4, terminating in a blackish-brown patch on inner margin; subterminally, a series of blackish-brown spots defined proximally by tilleul buff; a small blackish-brown spot just below apex, and below this are two oval, blackish-brown spots lying obliquely and almost touching at their proximal ends. *Hindwing* concolorous with forewing, subbasal fascia blackish brown, crenulate (points distad); a longitudinal snuff-brown line from base to termen at vein 4; an outwardly oblique, incurved, snuff-brown line, from costa medially to the longitudinal line

which it joins; postmedial fascia consisting of three snuff-brown lines, outwardly oblique and incurved to vein 4, where it joins the longitudinal line to termen; from vein 4 to inner margin a wide blackish-brown patch; termen erenulate and produced to two short tails, one at vein 4, the other at vein 6; four small blackish-brown spots defined by tilleul buff, situate on termen above and below vein 4. *Underside*: fore- and hindwings tilleul buff suffused with avellaneous, sparsely irrorated with benzo brown.

Expanse 24 mm. (*tip to tip* 22 mm.).

♀: Similar to ♂.

Expanse 22 mm. (*tip to tip* 21 mm.).

Holotype ♂: 24.xii.1912; *allotype* ♀: 28.vi.1913, Philippine Is., Luzon I., subprov. Benguet, Palali, 2,000 ft.; *paratypes* 1 ♂ 16.i, 1 ♀ 25.i.1914, Luzon I., prov. Rizal, Montalban.

Nearest ally: *E. subflavida* Swinh.

***Epiplema oriocharis* sp.n.**

♂: *Palpus* blackish brown, tilleul buff beneath. *Antenna* laminate. *Head*: frons blackish brown, vertex tilleul buff. *Thorax*: patagium and tegula tilleul buff. *Abdomen* tilleul buff above and beneath. *Pectus* tilleul buff. *Legs* tilleul buff, a suffusion of blackish brown on tarsi. *Forewing* tilleul buff strigulated with benzo brown; antemedial fascia represented by three bone-brown spots; postmedial fascia consisting of a snuff-brown, wavy line, from costa to vein 4, obsolescent to vein 2, then bone-brown and wavy to inner margin, with a bone-brown spot on proximal side; subterminal fascia represented by a bone-brown, wavy line, from just below costa to vein 4. *Hindwing* tilleul buff, a longitudinal line from base, to near termen above vein 4, snuff-brown to base of vein 4, where it is joined by an outwardly oblique line from base of vein 6, rest of line diffused blackish brown; below this line, on proximal half some bone-brown strigulations, in subterminal area a light suffusion of blackish brown; postmedial fascia a bone-brown to snuff-brown line, outwardly oblique from costa to vein 4, sharply excurved, then inwardly oblique and wavy to inner margin, defined by cartridge-buff distally, a snuff-brown shade on both sides from veins 6 to 4, a bone-brown lunule on proximal side between veins 2 and 3; termen crenulate and produced to two tails, one at vein 7, the other at vein 4 three bone-brown patches defined by cartridge-buff, the upper one long and narrow. *Underside*: forewing tilleul buff lightly suffused with benzo brown; hindwing tilleul buff with some striations of benzo brown in apical area.

Expanse 30 mm. (*tip to tip* 27 mm.).

♀: Similar to ♂.

Expanse 30 mm. (*tip to tip* 27 mm.).

Holotype ♂: 27.xii.1912; *paratypes*: 1 ♂ 28.vi, 2 ♀♀ 27.vi.1913, 1 ♀ 23.xii.1912, Philippine Is., Luzon I., subprov. Benguet, Palali, 2,000 ft.; *allotype* ♀: 16.iv.1912; *paratype* 1 ♀: 1.iv.1913, subprov. Benguet, Baguio, 5,000 ft.; *paratype* 1 ♀: 11.v.1912, subprov. Benguet, Klondyke, 800 ft.

Nearest ally: *E. conflictaria* Wlk.

***Phazaca oribates* sp.n.**

♂: *Palpus* fuscous. *Antenna* laminate. *Head*: frons and vertex fuscous. *Thorax*: patagium and tegula fuscous, rest of thorax army brown. *Abdomen*

army brown, venter pinkish buff. *Pectus* pinkish buff. *Legs* pinkish buff suffused with fuscous. *Forewing* army brown, suffused with fuscous at base, and on and below costa almost to apex: medially, two fuscous patches, one extending from costa to vein 5, with a downcurved lower edge, the other from inner margin, triangular, the apex reaching vein 4. *Hindwing* army brown, antemedial and postmedial fasciae, fuscous, almost parallel, outwardly oblique to below vein 2, angled, then inwardly oblique to inner margin. *Underside*: forewing pinkish buff suffused with army brown; hindwing pinkish buff.

Expanse 18 mm. (*tip to tip* 14 mm.).

Holotype ♂: 10.v.1908, Formosa, Kanshirei, 1,000 ft.

Nearest ally: *P. fasciaria* Leech.

Phazaca pedionoma sp.n.

♀: *Palpus* bone-brown. *Antenna* minutely ciliate. *Head*: frons Natal brown, vertex cartridge-buff tinged with Natal brown. *Thorax*: patagium and tegula cartridge-buff tinged with Natal brown. *Abdomen* cartridge-buff tinged with Natal brown, a blackish-brown band at base, venter cartridge-buff. *Pectus* cartridge-buff. *Legs* cartridge-buff, foreleg suffused with bone-brown above. *Forewing* cartridge-buff, with patchy irroration of bone-brown, two bone-brown spots in subterminal area, one between veins 3 and 4, the other at tornus, a series of interneural bone-brown spots on termen. *Hindwing* cartridge-buff, on upper half a large patch of bone-brown to Natal brown, below this a longitudinal streak of snuff-brown from base to postmedial fascia; on lower half two bone-brown patches, one subbasally, the other antemedially; postmedial fascia excurved and wavy, bone-brown to Natal brown; termen bone-brown, produced to points at veins 4 and 7. *Underside*: fore- and hindwings cartridge-buff.

Expanse 22 mm. (*tip to tip* 20 mm.).

Holotype ♀: 23.vi.1914, Philippine Is., Mindanao I., subprov. Lanao, Kolabugan (plains).

Nearest ally: *P. undulata* Warr.

COSSIDAE.

Xyleutes euphyes sp.n.

♂: *Palpus* Natal brown. *Antenna* basal third pectinate, apical two-thirds ciliate. *Head*: frons and vertex white mixed with Natal brown. *Thorax*: patagium and tegula white mixed with Natal brown. *Abdomen* white mixed with Natal brown, venter white. *Pectus* white. *Legs* white mixed with Natal brown. *Forewing* white strigulated with Natal brown, two Natal brown spots on costa, one at a third, the other at two-thirds, a Natal brown spot on anal vein at one-half. *Hindwing* white, with faint strigulation of Natal brown on distal half. *Underside* of fore- and hindwings similar to upper-side.

Expanse 52 mm. (*tip to tip* 51 mm.).

Holotype ♂: 10.iii.1912; *paratypes*: 1 ♂ 11.iii, 1 ♂ 16.iii.1912, Philippine Is., Luzon I., subprov. Benguet, Klondyke, 800 ft.

Nearest ally: *X. tectorius* Swinh.

Xyleutes euphanes sp.n.

♂: *Palpus* sayal brown, warm sepia above. *Antenna* basal third pectinate, apical two-thirds serrate. *Head*: frons and vertex sayal brown suffused with warm sepia. *Thorax*: patagium sayal brown, tegula sayal brown, bone-brown on upper edge, rest of thorax sayal brown, with lateral bone-brown streak. *Abdomen* sayal brown above and beneath, anal tuft bone-brown. *Pectus* sayal brown. *Legs* warm sepia. *Forewing* sayal brown, basal third suffused with livid brown, distal edge oblique from costa at a third to inner margin at a fourth; in this suffusion, a longitudinal bone-brown streak, crossed by another on edge of basal suffusion; from costa at two-thirds to inner margin at one half, an oblique livid brown shade in which are two prominent bone-brown patches, one on discocellulars, the other below base of vein 2. *Hindwing* sayal brown. *Underside*: fore- and hind wings sayal brown.

Expanse 56 mm. (*tip to tip* 54 mm.).

Holotype ♂: 7.iv.1912, Philippine Is., Luzon I., subprov. Benguet, Klondyke, 800 ft.

Nearest ally: *X. tectorius* Swinh.

Cossus lepta sp.n.

♂: *Palpus* fuscous. *Antenna* basal two-thirds pectinate, apical third fasciculate. *Head*: frons drab, vertex white. *Thorax*: patagium and tegula white mixed with drab. *Abdomen* drab, venter white tinged with drab. *Pectus* white. *Legs* drab, tarsi fuscous, pale drab-grey at joints. *Forewing* white, sparsely strigulated with drab; a diffused drab patch, lying obliquely from discocellulars upward to costa just before apex; a suffusion of drab along inner margin. *Hindwing* drab-grey. *Underside*: fore- and hindwings drab.

Expanse 30 mm. (*tip to tip* 29 mm.).

Holotype ♂: 21.v.1914; *paratype* ♂: 15.v.1914, Philippine Is., Mindanao I., subprov. Lanao (plains); *paratype* ♂: 1.v.1913, Palawan I., Taytay (plains); *paratype* ♂: 17.i.1913, Luzon I., prov. Rizal, Manila (plains); *paratype* ♂: 18.v.1912, Luzon I., subprov. Benguet, Klondyke, 800 ft.

Nearest ally: *C. chloratus* Swinh.

Porthetes gen. nov.

Palpus short, not extending beyond frons. *Antenna* pectinate for three-fourths, apical fourth serrate. *Legs*, a claw beneath first segment of tarsus of foreleg. *Forewing* cell divided by two internal veins, stalked to middle of cell, joining discocellulars between veins 5 and 6; veins: 1 waved, 2 from cell well before angle, 3 from just before angle, 4 and 5 stalked from angle, 6 from below upper angle, 7 and 8 from upper angle, approximated at base only, 9 and 10 stalked, 11 free. *Hindwing* cell divided by an internal vein into almost equal parts, joining discocellulars just below vein 6; veins: 1a and 1b present, 2 from cell well before angle, 3 just before angle, 4 and 5 from angle, 6 from just above middle of discocellulars, 7 from upper angle, 8 from base.

Genotype: *Porthetes cyrtozona*.

Porthetes cyrtozona sp.n.

♂: *Palpus* fuscous. *Antenna* pectinate for three-fourths, apical fourth serrate. *Head*: frons and vertex fuscous. *Thorax*: patagium and tegula

fuscous. *Abdomen* pinkish buff suffused with fuscous above and beneath. *Pectus* pinkish buff suffused with fuscous. *Legs*: fore- and mid-legs fuscous, hindleg pinkish buff suffused with fuscous. *Forewing* pinkish buff suffused with fuscous, fuscous on costa, strigulated with fuscous on distal third; three longitudinal fuscous streaks, one in apical area from upper angle of cell to termen, one from middle of cell to termen, the other below cell from base to near tornus, gently arched. *Hindwing* pinkish buff suffused with fuscous. *Underside*: fore- and hindwings pinkish buff suffused with fuscous.

Expanse 26 mm. (*tip to tip* 24 mm.).

Holotype ♂: 28.v.1914; *paratype* 2 ♂♂: 19.v, 30.v.1914, Philippine Is., Mindanao I., subprov. Lanao, Kolambugan (plains).

PSYCHIDAE.

Clania cardiophora sp.n.

♂: *Palpus* tawny-olive. *Antenna* pectinate, cinnamon-brown. *Head*: frons and vertex tawny-olive. *Thorax*: patagium, tegula and rest of thorax tawny-olive. *Abdomen* tawny-olive suffused with cinnamon-brown. *Pectus* and *legs* tawny-olive, lightly suffused with cinnamon-brown on distal half; a tawny-olive, heart-shaped patch in distal half of cell, defined by cinnamon-brown, veins cinnamon-brown. *Hindwing* tawny-olive, veins cinnamon-brown. *Underside*: fore- and hindwings tawny-olive.

Expanse 38 mm. (*tip to tip* 36 mm.).

Holotype ♂: 12.vi.1914; *paratypes* 3 ♂♂: 15.v, 17.v, 20.vi.1914, Philippine Is., Mindanao I., subprov. Lanao, Kolambugan (plains); *paratypes* 3 ♂♂: 25.i, 14.iv, 20.iv.1914, Luzon I., prov. Rizal, Montalban.

Nearest ally: *C. fuscescens* Snell.

Clania lipara sp.n.

♂: *Palpus* verona brown. *Antenna* pectinate, warm sepia. *Head*: frons and vertex verona brown. *Thorax*: patagium, tegula and rest of thorax verona brown. *Abdomen* verona brown suffused with warm sepia. *Pectus* and *legs* verona brown. *Forewing* verona brown, discocellulars warm sepia. *Hindwing* warm sepia, an elongate patch of verona brown below anal vein, from middle of vein to termen. *Underside*: fore- and hindwings warm sepia.

Expanse 34 mm. (*tip to tip* 32 mm.).

Holotype ♂: 20.v.1914, Philippine Is., Mindanao I., subprov. Lanao, Kolambugan (plains).

Nearest ally: *C. vaulogerii* Heyl.

LIMACODIDAE.

Ceratonema wilemani sp.n.

♀: *Palpus* clay colour, speckled with warm sepia. *Antenna* simple. *Head*: frons and vertex clay colour. *Thorax*: patagium and tegula clay colour. *Abdomen* clay colour lightly suffused with fuscous, venter clay colour. *Pectus* clay colour. *Legs*: foreleg clay colour, mixed with warm sepia above; midleg clay colour mixed with warm sepia, a fuscous tuft beneath tibia; hindleg clay

colour. *Forewing* clay colour irrorated with warm sepia, postmedial fascia represented by a short, inwardly oblique, warm sepia line from costa to base of vein 5; subterminal fascia consisting of a warm sepia, slightly excurved line, termen warm sepia. *Hindwing* clay colour lightly suffused with fuscous. *Underside*: fore- and hindwings clay colour.

Expanse 16 mm. (*tip to tip*) 14 mm.).

♂: Similar to ♀, in very poor condition, two wings missing.

Expanse 14 mm. (*tip to tip*) 12 mm.).

Holotype ♀: viii.1908; *allotype* ♂: 11.vi.1906, Formosa, Kanshirei, 1,000 ft.

Nearest ally: *C. rufibasale* Hmps.

Thosea irrorata sp.n.

♂: *Palpus* pecan brown. *Antenna* basal half pectinate, apical half serrate. *Head*: frons and vertex pecan brown. *Thorax*: patagium ferruginous, tegula and rest of thorax sorghum brown. *Abdomen* sorghum brown above and beneath. *Pectus* and *legs* pecan brown. *Forewing* sorghum brown, dark livid brown on distal half of costa, suffused with livid brown at base and along inner margin; a dark livid brown, inwardly oblique line from costa subterminally to inner margin subbasally, another dark livid brown line from the same point on costa to inner margin near tornus. *Hindwing* sorghum brown tinged with livid brown. *Underside*: fore- and hindwings warm buff tinged with livid brown.

Expanse 24 mm. (*tip to tip*) 22 mm.).

Holotype ♂: 25.iii.1912, Philippine Is., Luzon I., subprov. Benguet, Klondyke, 800 ft.; *paratypes* 2 ♂♂: 28.vi.1913, subprov. Benguet, Palali, 2,000 ft.; 1 ♂ 15.v, 1 ♂ 24.v.1914, Mindanao I., subprov. Lanao, Kolambugan (plains).

Nearest ally: *T. divergens* Moore.

Birthama senescens sp.n.

♂: *Palpus* snuff-brown. *Antenna* pectinate. *Head*: frons and vertex fuscous mixed with pale drab-grey. *Thorax*: patagium and tegula clothed with fuscous scales tipped with pale drab-grey. *Abdomen* drab, with a dorsal crest of fuscous scales tipped with pale drab-grey, venter drab. *Pectus* drab-grey. *Legs* femora and tibiae fringed with fuscous scales tipped with pale drab-grey, tarsi snuff-brown, pale drab-grey at joints. *Forewing* pale drab-grey suffused with fuscous to fuscous-black, veins and termen snuff-brown; a fuscous border at termen, proximal edge excurved from costa to vein 5, then excurved and oblique to inner margin; fringe pale drab-grey. *Hindwing* drab-grey suffused with fuscous, veins and termen snuff-brown, fringe pale drab-grey. *Underside*: fore- and hindwings drab-grey, veins and termen pinkish buff, fringe pale drab-grey.

Expanse 22 mm. (*tip to tip*) 19 mm.).

Holotype ♂: 29.xii.1912; *paratype* ♂: 2.vi.1913, Philippine Is., Luzon I., subprov. Benguet, Palali, 2,000 ft.; *paratypes* 2 ♂♂: 15, 20.iv.1912, Mindanao I., subprov. Lanao, Kolambugan (plains).

Nearest ally: *B. decmographa* Turner.

***Birthama divergens* sp.n.**

♂: *Palpus* chestnut-brown. *Antenna* basal half pectinate, apical half serrate. *Head*: frons and vertex chestnut-brown, a tuft of light buff at base of antenna. *Thorax*: patagium and tegula velvety chestnut-brown. *Abdomen* Rood's brown suffused with chestnut-brown above and beneath. *Pectus* light buff tinged with chestnut-brown. *Legs* chestnut-brown, cartridge-buff patches on tibia of foreleg. *Forewing* proximal third velvety chestnut-brown, distal edge oblique from costa at one-half, to inner margin at one-third, defined by cartridge-buff, followed by a suffusion of chestnut-brown, rest of wing Rood's brown; subterminal fascia consisting of a chestnut-brown line, outwardly oblique from costa to tornus. *Hindwing* Rood's brown. *Underside*: fore- and hindwings light buff suffused with chestnut-brown.

Expanse 30 mm. (*tip to tip* 28 mm.).

Holotype ♂: 20.iv.1914; *paratypes*: 1 ♂ 17.i.1914, 1 ♂ 11.iv.1914, 2 ♂♂ 25.iv.1914, 1 ♂ 27.iv.1914, Philippine Is., Luzon I., prov. Rizal, Montalban; 1 ♂ 24.ix.1912, prov. Rizal, Manila (plains).

Nearest ally: *B. junctura* Wlk.

***Birthama pelochroa* sp.n.**

♂: *Palpus* warm sepia mixed with light buff. *Antenna* basal half pectinate, apical half decreasingly serrate. *Head*: frons and vertex clothed with snuff-brown scales tipped with whitish. *Thorax*: patagium and tegula clothed with snuff-brown scales tipped with whitish. *Abdomen* snuff-brown above and beneath. *Pectus* snuff-brown. *Legs* snuff-brown suffused with warm sepia. *Forewing* snuff-brown, densely irrorated with whitish, and sparsely with warm sepia, veins warm sepia; an oblique, warm sepia line, defined distally by whitish, from costa subterminally to inner margin antemedially; subterminal fascia consisting of an ill-defined, warm sepia line, outwardly oblique from costa to vein 5, sharply angled, longitudinally inward for a short distance, when it is sharply angled and again outwardly oblique to near tornus. *Hindwing* snuff-brown lightly suffused with warm sepia. *Underside*: fore- and hindwings snuff-brown dusted over with light buff, warm sepia on apical area of forewing.

Expanse 22 mm. (*tip to tip* 20 mm.).

♀: Similar to ♂, differing only in size, paler colouring, antenna minutely ciliate.

Expanse 30 mm. (*tip to tip* 27 mm.).

Holotype ♂: 21.v.1914; *allotype* ♀: 20.v.1914, Philippine Is., Mindanao I., subprov. Lanao, Kolambagan (plains).

Nearest ally: *B. obliqua* Wlk.

***Birthama dyscrita* sp.n.**

♀: *Palpus* walnut-brown. *Antenna* apparently simple. *Head*: frons and vertex walnut-brown. *Thorax*: patagium orange-cinnamon, tegula walnut-brown, rest of thorax orange-cinnamon to Mikado brown. *Abdomen* Mikado brown above and beneath, a lateral warm sepia stripe, anal tuft warm sepia. *Pectus* Mikado brown. *Legs* walnut-brown. *Forewing* Mikado brown, post-medial fascia consisting of a prominent warm sepia line, from costa subterminally, almost parallel with costa for a short distance, then obliquely to inner margin

antemedially; subterminal fascia consisting of a fine, ill-defined, warm sepia line, from same point on costa as postmedial, outwardly oblique and slightly excurved to vein 5, angled and along vein 5 to near base, again angled, then outwardly oblique and slightly excurved to inner margin. *Hindwing* Mikado brown. *Underside*: fore- and hind wings Mikado brown.

Expanse 30 mm. (*tip to tip* 28 mm.).

Holotype ♀: 28.vi.1913, Philippine Is., Luzon I., subprov. Benguet, Palali, 2,000 ft.

Nearest ally: *B. obliqua* Wlk.

Contheyla eupena sp.n.

♂: *Palpus* pinkish buff tinged with fuscous. *Antenna* pectinate. *Head*: frons and vertex pinkish buff. *Thorax*: patagium pinkish buff, tegula and rest of thorax light buff. *Abdomen* light buff above and beneath. *Pectus* light buff. *Legs* pinkish buff, foreleg suffused with fuscous. *Forewing* light buff, a suffusion of fuscous at base extending to subbasal area; antemedially a fuscous fascia inwardly oblique from base of vein 2 to inner margin subbasally; a prominent fuscous-black spot on discocellulars; subterminal fascia consisting of a fuscous line, slightly incurved. *Hindwing* light buff. *Underside*: fore- and hindwings light buff.

Expanse 26 mm. (*tip to tip* 24 mm.).

Holotype ♂ and *paratype* ♂: 26.xii.1912, Philippine Is., Luzon I., subprov. Benguet, Palali, 2,000 ft.; *paratype* ♂: 7.iv.1912, subprov. Benguet, Klondyke, 800 ft.

Nearest ally: *C. propexa* Swinh.

Contheyla celaena sp.n.

♂: *Palpus* Natal brown mixed with bone-brown. *Antenna* pectinate. *Head*: frons and vertex bone-brown. *Thorax*: patagium and tegula bone-brown. *Abdomen* bone-brown, venter pinkish buff. *Pectus* pinkish buff. *Legs* pinkish buff with bone-brown hair-scales above. *Forewing* bone-brown, Natal brown along costa to near apex, a Natal brown patch on inner margin near tornus. *Hindwing* bone-brown. *Underside*: fore- and hindwings Natal brown densely irrorated with bone-brown.

Expanse 20 mm. (*tip to tip* 18 mm.).

Holotype ♂: 22.vi.1914, Philippine Is., Mindanao I., subprov. Lanao Kolambugan (plains).

Nearest ally: *C. brunnea* Swinh.

Contheyla daula sp.n.

♂: *Palpus* bone-brown, pinkish cinnamon anteriorly. *Antenna* pectinate. *Head*: frons and vertex Natal brown to bone-brown. *Thorax*: patagium and tegula Natal brown to bone-brown. *Abdomen* Natal brown, a bone-brown crest at base, venter pinkish buff. *Pectus* pinkish buff. *Legs* pinkish buff, foreleg suffused with bone-brown above. *Forewing* Natal brown irrorated with bone-brown; a longitudinal, bone-brown streak below median nervure from base to about a third; a bone-brown spot on discocellulars, a large bone-brown patch of indefinite shape, occupying lower half of wing from near base to near tornus.

Hindwing pinkish buff suffused with Natal brown. *Underside* : fore- and hindwings pinkish buff suffused with Natal brown.

Expanse 26 mm. (*tip to tip* 24 mm.).

♀ : Similar to ♂, with antenna apparently simple.

Expanse 33 mm. (*tip to tip* 31 mm.).

Holotype ♂ : 27.xi.1912 ; *allotype* ♀ : 17.xi.1912, Philippine Is., Luzon I., subprov. Benguet, Pauai, Haight's Place, 7,000 ft.

Nearest ally : *C. melanostica* Hmps. n.

Miresa pura sp.n.

♂ : *Palpus* pale yellow-orange mixed with russet. *Antenna* basal half pectinate, apical half serrate. *Head* : frons and vertex pale yellow-orange. *Thorax* : patagium and tegula pale yellow-orange tinged with russet. *Abdomen* pale yellow-orange lightly suffused with russet dorsally, venter pale yellow-orange. *Pectus* pale yellow-orange. *Legs* pale yellow-orange suffused with russet. *Forewing* pale yellow-orange dusted over with russet, a russet suffusion in distal end of cell ; subterminal fascia an ill-defined, light suffusion of russet. *Hindwing* pale yellow-orange tinged with russet. *Underside* : fore- and hindwings light yellow-orange tinged with russet between the veins.

Expanse 20 mm. (*tip to tip* 18 mm.).

Holotype ♂ : 22.vi.1914 ; *paratype* ♂ : 15.v.1914, Philippine Is., Mindanao I., subprov. Lanao, Kolambugan (plains).

Nearest ally : *M. rubicauda* Wlk.

Compsopsectra gen. nov.

♂ : *Palpus* second segment closely and thickly scaled, third segment small. *Antenna* unipectinate for two-thirds, apical third serrate. *Abdomen* with crest at base. *Legs* : mid- and hind-tibiae and tarsi heavily fringed with hair-scales. *Forewing* cell divided by internal from median nervure at a third to middle of discocellulars ; veins : 1a slightly arched to just above tornus, 1b to tornus, 2 from cell well before angle, 3 from cell just before angle, 4 and 5 from lower angle, 6 from middle of discocellulars almost forming a continuation of internal vein, 7, 8, 9 stalked, 7 from 8 before 9, 10 from upper angle, 11 from middle of cell rising sharply towards 12 with which it is approximated to just before apex. *Hindwing* cell divided by an internal vein from base to middle of discocellulars ; veins : 1a, b, c present, 2 from cell before angle, 3, 4 and 5 from lower angle, 6 from middle of discocellulars and forming a continuation of internal vein, 7 from upper angle and parallel with 6, 8 from base.

Genotype : *Compsopsectra elegans*.

Compsopsectra elegans sp.n.

♂ : *Palpus* light buff speckled with Natal brown. *Antenna* unipectinate for two-thirds, apical third serrate. *Head* : frons and vertex white speckled with Natal brown. *Thorax* : patagium white mixed with Natal brown, tegula Natal brown, a crest of white suffused with Natal brown on metathorax. *Abdomen* white densely irrorated with Natal brown, a crest at base dorsally, venter cartridge buff. *Pectus* cartridge-buff. *Legs* cartridge-buff, tarsi Natal brown cartridge-buff at joints, tibiae and tarsi of mid- and hindlegs heavily fringed with hair-

scales. *Forewing* proximal third Natal brown with three fuscous-black, radiating streaks from base; antemedial fascia consisting of a white line outwardly oblique from costa to subcosta, sharply angled and deeply incurved to vein 2, angled and slightly incurved to inner margin; medial third Natal brown irrorated with fuscous-black, distal edge excurved; distal third cartridge-buff suffused with fuscous-black, fringe cartridge-buff. *Hindwing* cartridge-buff suffused with fuscous, fringe cartridge-buff. *Underside*: fore- and hindwings light buff suffused with fuscous, veins light buff.

Expanse 14 mm. (*tip to tip* 12 mm.).

♀: Antenna apparently simple. Forewing light buff irrorated with Natal brown. Hindwing light buff.

Expanse 18 mm. (*tip to tip* 15 mm.).

Holotype ♂: 21.vi.1914; *allotype* ♀: 30.v.1914; *paratype* ♂: 27.v.1914, Philippine Is., Mindanao I., subprov. Lanao, Kolambugan (plains); *paratype* ♂: 24.xii.1912, Luzon I., subprov. Benguet, Palali, 2,000 ft.

ZYGAENIDAE.

Chalcosiinae.

Pintia tafti sp.n.

♀: *Palpus* white. *Antenna* pectinate. *Head*: frons produced to a rounded prominence, white beneath, bluish slate-black above, vertex bluish slate-black, a white spot below base of antenna, another white spot behind eye. *Thorax*: patagium bluish slate-black, a white patch on outer side posteriorly, tegula dusky brown edged with bluish slate-black, rest of thorax dusky brown divided up by bluish slate-black, a white spot in each division. *Abdomen* white, ringed at joints between segments with bluish slate-black, this being suffused over the white on segments forming dorsal and lateral lines; venter white. *Pectus* white, with bluish slate-black patches. *Legs* white, with bluish slate-black on coxae, femora and tibiae, tarsi fuscous. *Forewing* bluish slate-black to dusky brown, a white spot at base, a white streak between costa and subcosta from base to about one-third, a white wedge-shaped patch in proximal half of cell, a white wedge-shaped patch between median nervure and anal vein reaching to near tornus, a white streak below anal vein from base to near tornus; postmedial fascia represented by a white patch followed by three white spots, the patch having the appearance of a cluster of three spots; a series of interneural white spots subterminally. *Hindwing* white, a wide terminal border of bluish slate-black, in which is a series of interneural white spots. *Underside* the same as upperside.

Expanse 52 mm. (*tip to tip* 49 mm.).

Holotype ♀: 30.v.1914; *paratypes* 2 ♀♀; 17.v, 26.v.1914, Philippine Is., Mindanao I., subprov. Lanao, Kolambugan (plains).

Nearest ally: *P. latipennis* Hmps.

The patagium in this species differs from the usual formation in that it appears to be double.

Heteropan lutulenta sp.n.

♀: *Palpus* light buff. *Antenna* pectinate. *Head*: frons and vertex metallic slate-blue. *Thorax*: patagium and tegula fuscous. *Abdomen* fuscous,

suffused with slate-blue at base, venter light buff. *Pectus* and *legs* light buff. *Forewing* fuscous, a metallic slate-blue line in subterminal area from below costa before apex, parallel with edge of wing to near tornus, fringe metallic slate-blue. *Hindwing* fuscous suffused with slate-blue, pale gull-grey on upper half. *Underside*: forewing pale gull-grey, fuscous at apex, on termen and inner margin; hindwing pale gull-grey, fuscous on termen.

Expanse 22 mm. (*tip to tip* 20 mm.).

Holotype ♀: 27.v.1914; *paratype* ♀: 29.v.1912, Philippine Is., Mindanao I., subprov. Lanao, Kolambugan (plains).

Nearest ally: *H. scintillans* Wlk.

Paraphlebia jordani sp.n.

♂: *Palpus* fuscous. *Antenna* pectinate. *Head*: frons and vertex fuscous, with a purplish tinge, occiput ochraceous-tawny. *Thorax*: patagium fuscous, ochraceous-tawny anteriorly, tegula and rest of thorax fuscous. *Abdomen* fuscous above and beneath, with ochraceous-tawny lateral stripe. *Pectus* ochraceous-tawny. *Legs* fuscous, with a purplish tinge. *Forewing* fuscous, with ochraceous-tawny streak faintly showing through from underside in cell. *Hindwing* fuscous, a longitudinal, ochraceous-tawny streak in cell to just beyond discocellulars. *Underside*: forewing fuscous, an ochraceous-tawny streak from base, through cell to just beyond discocellulars, arched at distal end, a light-buff spot below costa before apex; hindwing same as upperside.

Expanse 24 mm. (*tip to tip* 23 mm.).

♀: Similar to ♂, but having on forewing two light buff spots below costa postmedially, a light buff patch on costa before apex. two light buff spots on termen just below apex; on hindwing the ochraceous-tawny is more extensive, covering the upper half of wing.

Expanse 40 mm. (*tip to tip* 39 mm.).

Holotype ♂: 21.v.1914; *allotype* ♀: 25.v.1914, Philippine Is., Mindanao I., subprov. Lanao, Kolambugan (plains).

Nearest ally: *P. fuscescens* Moore.

DREPANIDAE.

Oreta thaumalea sp.n.

♀: *Palpus* carmine. *Antenna* pectinate. *Head*: frons orange-buff, suffused with carmine on upper half, vertex orange-buff, a small carmine tuft below antenna. *Thorax*: patagium orange-buff anteriorly, Corinthian pink mixed with white posteriorly, tegula Corinthian pink mixed with white, rest of thorax Indian red. *Abdomen* Indian red, an orange-buff band at base dorsally, venter orange-buff. *Pectus* orange-buff. *Legs* orange-buff fringed with Indian red. *Forewing* orange-buff, a Corinthian pink streak on costa from base to about one half, a suffusion of Indian red on lower half of wing and at base; antemedial fascia Indian red, inwardly oblique and waved, proximal edge defined, distal edge diffused; an oblique white streak and spot in a suffusion of Indian red on discocellulars; postmedial fascia Indian red, inwardly oblique and waved, proximal edge diffused, distal edge defined; subterminal area suffused with Indian red, slight irroration of white at apex, two fuscous-black spots near

tornus; apex produced, termen excised below apex then outwardly bowed to tornus, fuscous-black below apex to vein 5, then interneural irroration of white to tornus. *Hindwing* Indian red, subbasal fascia an oblique band of orange-buff, a suffusion of orange-buff on distal half between veins 2 and 5, termen irrorated with white. *Underside*: forewing orange-buff, streak on discocellulars, post-medial and subterminal fasciae Indian red, a suffusion of Indian red on inner margin and subterminal area, fuscous-black at tornus; hindwing orange-buff, a suffusion of Indian red on costa, apical area and at anal angle.

Expanse 44 mm. (*tip to tip* 41 mm.).

Holotype ♀: 7.v.1911; *paratype* ♀: v.1912, Philippine Is., Luzon I., prov. Rizal, Manila (plains).

Nearest ally: *O. sanguinea* Moore.

Callidrepana dialitha sp.n.

♂: *Palpus* chamois. *Antenna* pectinate. *Head*: frons Mikado brown, warm buff on lower half, vertex warm buff. *Thorax*: patagium, tegula and rest of thorax chamois. *Abdomen* chamois above and beneath. *Pectus* and *legs* chamois. *Forewing* chamois, sparsely irrorated with metallic scales, postmedial fascia represented by a faint, fuscous, inwardly oblique streak from vein 7 to vein 2; subterminal fascia represented by a faint, fuscous, inwardly oblique streak from apex to vein 2; apex produced to a hook. *Hindwing* chamois, sparsely irrorated with metallic scales, postmedial fascia represented by two parallel, inwardly oblique, fuscous to Mikado brown lines, from vein 7 to inner margin, the space between the lines lightly suffused with *whitish*. *Underside*: forewing chamois, postmedial and subterminal fasciae Mikado brown; hindwing chamois, postmedial fascia Mikado brown.

Expanse 40 mm. (*tip to tip* 39 mm.).

♀: Differs from the ♂, in that on the forewing there are two oblique Mikado brown dashes, one across the middle of cell, the other on discocellulars followed by a spot; an oblique fascia from costa just before apex to inner margin at two-thirds, consisting of two parallel, Mikado brown lines, the proximal line being fine and faint compared with the distal line; subterminally, a series of Mikado brown spots on veins; on the hindwing a subterminal series of Mikado brown spots in addition to the fascia which corresponds to that of the ♂.

Expanse 54 mm. (*tip to tip* 51 mm.).

Holotype ♂: 11.vii.1912; *allotype* ♀: 16.vi.1912, Philippine Is., Luzon I., prov. Rizal, Manila (plains).

Nearest ally: *C. argenteola* Moore.

(Colours, except those in italics, from Ridgway's *Color Standards and Color Nomenclature*, 1912.)