

XV III

154.19

1912 Nbe

454

Imagen de consulta DGAN

19

magen de consulta

DGAN

Imagen de consulta

DGAN

Imagen de consulta

Imagen de c

Imagen de consulta

DGAN

DGAN

Imagen de consulta

Imagen de consulta

sulta DGAN

Imagen de consulta

DGAN

e consulta

DGAN

Imagen de consulta

DGAN

DGAN

Imagen



New Species of Heterocera from Costa Rica.—XVIII

By W. SCHAUUS, F.Z.S.

Noctuidæ.

*Calymniodes maneti*, sp. n.

♂. Palpi and vertex black; frons brown-black. Collar and thorax reddish brown. Abdomen fuscous grey; anal hairs buff and brown. Fore wings mostly slate-colour; a light brown shade from base of costa to antemedial on inner margin, interrupted in cell, crossed on costa and just below cell by a dark brown line; antemedial line reddish brown, outcurved on inner margin, finely edged with black-brown; medial space shaded with light brown on costa and before postmedial line, the inner margin similarly irrorated; orbicular broadly circled with buff-brown, followed by a fuscous shade outbent from costa to median, then downturned; reniform oblique, light brown, containing two darker brown lines suffusing in front and behind; a dark brownish slate shade beyond cell filling angle of postmedial; postmedial fine velvety black-brown, angled at vein 6, vertical from vein 4 to inner margin; the veins on outer space irrorated with grey; terminal whitish points at veins; a light brown shade at apex, also subterminally from vein 4 to tornus. Hind wings fuscous grey, tinged with brown, darkest terminally; a large fuscous discal spot; cilia dirty white crossed by a dark line at base. Hind wings below whitish irrorated with brown especially on costa and apex; discal spot large, black; a dark postmedial line, inbent at vein 2; a terminal fuscous shade between veins 4 and 6.

Expanse 28 mm.

Hab. Juan Vinas.

*Vespola plumipes*, sp. n.

Very similar to *V. cæruleifera*, Wlk., but larger, and the postmedial line more deeply incurved below vein 4. The abdomen below is entirely black in both sexes and the hind tibiæ of male are dilated and fringed with long hairs.

Expanse, ♂ 44 mm., ♀ 40–43 mm.

Hab. Sixola, Tuis.

*Acidaliodes infantilis*, sp. n.

♀. Body and wings greyish; collar shaded with roseate brown; abdomen with transverse roseate-brown shades, and



black dorsal tufts at base, middle, and end. Wings crossed by antemedial, medial, postmedial, and subterminal roseate-brown shades; terminal black spots. Fore wings: small clusters of black scales on costa, cell, fold, and inner margin of antemedial and postmedial shades. Fore wings below fuscous grey. Hind wings below whitish; a faint subterminal fuscous shade, and medial shade on costa.

Expanse 12 mm.

Hab. Esperanza.

*Thyriodes terrabensis*, sp. n.

♂. Palpi, head, and collar dark brown irrorated with white. Thorax dark purplish grey, the patagia edged with dark brown. Abdomen similar, the dorsal tufts dark brown. Fore wings dark purplish grey; diffuse basal and subbasal brown shades; antemedial fine, outangled, followed by a small fuscous triangular spot on costa, and a larger one on inner margin, the latter with inner edge oblique, outer edge vertical, posterior edge excurved; a vertical fuscous medial shade; postmedial fuscous, fine, sinuous, and outangled just below vein 6, lunular from vein 3 to inner margin, followed on costa by a fine white line and fuscous brown shade, which are both upturned towards costa at vein 6; a dark brown terminal lunular line. Hind wings fuscous brown with some darker scaling at anal angle; a pale line at base of cilia. Fore wings below grey-brown, shaded with clearer brown towards apex; costa to postmedial line thickly irrorated with white; postmedial white, macular on costal margin; three white points and a white subterminal streak on costa. Hind wings below brown, streaked with whitish grey on inner margin; a postmedial whitish line, distinct only on inner margin; cilia on both wings mottled with white below.

Expanse 27 mm.

Hab. Terraba.

Near *T. dissimilis*, Dr.; darker, more uniformly coloured.

*Homoptera excellens*, sp. n.

♂. Palpi brownish buff shaded above with black. Head, collar, and thorax pale rufous, with some white mottling posteriorly on thorax. Abdomen buff irrorated with dark grey. Fore wings: base brown, crossed by a subbasal and antemedial paler line, the former inwardly edged with fuscous on costa; a fuscous streak at base of inner margin; medial space inwardly broadly greyish buff, partly mottled with pale greenish scales, and containing a minute black point in cell,

outwardly brown shaded and crossed by two dark brown lines, dentate on vein 2 and submedian, closely followed by the blue-green and narrow reniform; postmedial space lilacine buff, crossed by a dentate brown shade and limited by a fine, outcurved, sinuous, black line, lunular from vein 4 to inner margin; this line is outwardly edged with whitish on costa and is followed by a narrow dark brown space, expanding on costa, where it contains three small white spots, and above inner margin it is partly shaded with lighter brown, its outer edge is slightly incurved from costa to vein 4, angled, and more deeply incurved to inner margin, being followed by a bluish-green shade; outer margin broadly lilacine, darkest terminally; terminal fuscous spots between veins, connected by a fine black lunular line, the spot above tornus the largest; cilia brown. Hind wings buff-brown; an angled fuscous line on discocellular; three dark lines postmedially, followed by a fine black line; a subterminal, narrow, fuscous shade from vein 6 to tornus, inwardly pale shaded, outwardly with pale green; the termen below vein 6 as on fore wings. Wings below buff, shaded with brown and irrorated with darker brown; small black discal spots; outer line lunular, fuscous; two dark medial lines on fore wings, three postmedially on hind wings.

Expanse 43 mm.

Hab. Juan Vinas.

*Campometra guapila*, sp. n.

♂. Head, collar, and thorax dark brown, mottled with reddish and buff-brown. Abdomen fuscous brown; a broad black transverse shade at base. Fore wings brown, shading to fuscous brown on inner margin and on postmedial space; a subbasal light brown shade crossed by a fine black line; antemedial line fine, black, vertical, wavy, followed by a small fuscous spot on costa; orbicular very small, fuscous; some reddish-brown irrorations in cell; reniform indistinct, crossed by a pale line outwardly shaded with fuscous; postmedial line very indistinct, dentate, defined by pale shading on costa and there preceded by a fuscous spot, the space beyond fuscous brown suffusing with the dentate subterminal black shade; terminal space grey-brown thinly irrorated with dark red, the veins shaded with dark grey; marginal black spots inwardly shaded with whitish; a wavy terminal fuscous line. Hind wings fuscous brown, limited by the subterminal dentate black line, which is outwardly dentate



between veins 7 and 6, and slightly incurved between 5 and 2; terminal space as on fore wings; cilia fuscous grey, mottled with brown and red. Wings below fuscous grey tinged with brown; a faint postmedial line; cilia fuscous grey, spotted with whitish. Fore wings: some fuscous spots on costa separated by smaller buff spots. Hind wings: a faint dark line on discocellular.

Expanse 42 mm.

Hab. Guapiles, Avangarez.

Near *C. bidens*, Kaye.

*Campometra obsolefacta*, sp. n.

♂. Palpi fuscous, thinly irrorated with buff. Frons medially brownish buff, laterally fuscous brown; vertex, collar, thorax, and base of abdomen fuscous brown, thinly irrorated with buff. Abdomen buff-grey, irrorated with reddish brown; a long fuscous dorsal tuft between third and fourth segments. Fore wings: base black, slightly mottled with buff just below cell, crossed by a fine velvety subbasal line, and limited by a dentate antemedial line, the angles scaled with buff; medial space buff irrorated with reddish brown, the veins dark grey; a black dot as orbicular; reniform very faintly outlined in fuscous grey; postmedial line very fine, fuscous, irregular and barely traceable, preceded on costa by a fuscous spot, and shaded with white on subcostal; terminal space fuscous brown; traces of a subterminal black line, outwardly dentate on interspaces; an interrupted marginal black line, preceded by some lighter brown shading at vein 5; a wavy dark brown terminal line. Hind wings buff irrorated with reddish brown; costal margin broadly, inner margin narrowly, and a streak from base to termen below cell and vein 2 fuscous grey; postmedial line black dentate; marginal and terminal lines as on fore wing; the subterminal space shaded with fuscous brown and with traces of a line. Wings below slate-grey; faint medial and postmedial darker lines. Female fuscous brown; basal and terminal spaces blue-black; the lines velvety black, more distinct; the postmedial shaded with bluish white at subcostal, and with light brown near inner margin; the subterminal outwardly shaded with light brown; reniform indicated by buff-brown shading; intervenal buff spots preceding marginal line, the largest at vein 5. Hind wings dark brown irrorated and shaded with fuscous; streak below cell and inner margin fuscous; the subterminal line very distinct, dentate; the marginal line preceded by buff shading.

Wings below dark greyish brown; subterminal fuscous shading; fine pale discal lines; the two lines on hind wings more distinct; whitish buff shades on termen at vein 5; buff costal spots on fore wing beyond a medial black spot.

Expanse, ♂ 42 mm., ♀ 44 mm.

Hab. La Florida, Sixola.

*Heimeroblemma stiva*, sp. n.

♀. Palpi fuscous irrorated with yellowish and grey. Head dark brown irrorated with grey. Collar brown. Thorax brownish buff. Abdomen fuscous. Fore wings: anterior portion from inner margin before base to termen at vein 5 buff irrorated with fuscous, the postmedial space palest; posterior portion of wing dark brown; antemedial fine, fuscous, inset in cell; orbicular small, round, dark brown mottled with buff and circled with clear buff; reniform bluntly oval, outlined in fuscous; postmedial fine, dentate, fuscous, followed by a similar shade on costa; an outer fine dentate line, slightly inbent at vein 4, thicker, vertical, and almost straight to inner margin, outwardly edged on dark space by a greyish-brown shade, and then followed by a broad yellowish-buff line from vein 4 to inner margin; a subterminal fuscous spot above vein 7, followed by a very faint dentate line, paler shaded and macular below vein 5; marginal black and white spots on interspaces; a buff shade at tornus. Hind wings dark brown, the lines fuscous; antemedial and medial lines wavy, coarse; postmedial fine, lunular dentate; subterminal shade, followed by a paler brown shade at apex; a dentate lunular marginal line, outwardly shaded with buff-brown. Wings below greyish thickly irrorated with brown; black discal points; basal half dark shaded. Fore wings: medial and postmedial lines broad; outer line remote, finer; subterminal partly macular. Hind wings: outer line broad and close to postmedial; subterminal coarse, continuous; the marginal lines with white shading in angles.

Expanse 65 mm.

Hab. Juan Vinas.

*Hypogramma auripennis*, sp. n.

♂. Palpi streaked black and whitish. Head, collar, and thorax black, mottled with white and greenish-white scales; patagia dull green. Abdomen to just beyond middle golden yellow, with a large fuscous basal tuft tipped with metallic



copper-colour and gold, and followed by a smaller black spot; terminal segments fuscous; anal hairs buff-brown. Fore wings dull olive-green, mottled with grey on costa and medially; an antemedial fuscous shade, expanding to base above and below submedian, limited inwardly by a vague dark line and paler basal space, and outwardly by a geminate fuscous line; a brownish line on discocellular inwardly pale edged and followed by a black spot; a black shade on costa above discocellular and one below it; postmedial geminate, lunular dentate, outcurved beyond cell; black intervenal streaks from postmedial to termen, interrupted by greyish scales subterminally; the whole terminal space beyond postmedial irrorated with whitish-grey scales and some orange-brown scales. Hind wings golden yellow, the costal margin broadly dull olive-green mottled like fore wings. Fore wings below fuscous; a black streak at base of costa; a postmedial thick black line. Hind wings below golden yellow; the apex black, preceded by a short dentate black line.

Expanse 38 mm.

*Hab.* Sitio, Sixola.

*Concana? permixta*, sp. n.

♀. Palpi light brown, the second joint tipped with fuscous. Frons grey, crossed above by a black line; vertex brown. Collar light brown, shaded with white behind. Thorax dark brown; patagia light brown mottled with grey. Abdomen buff with dark brown segmental lines. Fore wings: basal half brownish buff, limited by an outcurved dark brown fascia; some subbasal steel-grey shading on costa and inner margin; a light brown antemedial space widest on costa and extending just below median, followed on costal margin by some white scaling crossed by a fine black line; medial fascia interrupted in cell by a light brown spot edged with black, except behind, followed by a steel-grey shade, a fine black line, and a brown shade, terminating at discocellular; postmedial space beyond cell and on costa pale brownish white, narrowing from vein 3 to inner margin, crossed by the postmedial line, which is oblique from costa to vein 6, angled and intumed to some black scaling, then outcurved, and irregularly inbent to inner margin, followed throughout by a pale shade and then the dark brown subterminal shading; apex shaded with steel-grey; some terminal dark grey shading at veins 4 and 2 and a creamy white shade between them; some marginal dark brown spots. Hind wings dark brown; a darker terminal line

interrupted by pale streaks on veins. Fore wings below brown; a dark postmedial line outcurved beyond cell, and outwardly shaded with white from costa to vein 4. Hind wings below white; the costal half shaded with brown; a large discal spot crossed by a pale line; a dentate postmedial line and a subterminal shade; terminal line as above.

Expanse 26 mm.

*Hab.* Avangarez.

*Herminodes latris*, sp. n.

♀. Palpi fuscous brown, edged with whitish above. Head and collar whitish. Thorax greyish. Abdomen above dull grey, underneath whitish grey. Fore wings buff-grey, thinly irrorated with light brown; a minute dark point on discocellular; a faint postmedial outcurved row of short dark streaks, followed by a similar lunular dentate line; terminal black spots on interspaces. Hind wings dull grey tinged with brown; the costal margin paler. Fore wings below dull greyish; a faint whitish streak in cell. Hind wings below whiter.

Expanse 33 mm.

*Hab.* Tuis.

*Herminodes iphis*, sp. n.

♂. Palpi inwardly buff, outwardly brown. Head, collar, and thorax buff, with a few scattered black-brown scales. Abdomen brown-buff, thickly irrorated with brown scales. Fore wings buff, thinly irrorated with brown and black; a black point at end of cell; orbicular round, black; reniform forming a broad black lunule; the two spots connected by a black bar close to median; an elongated black spot below the bar; the irrorations form a postmedial line of minute spots outangled beyond cell; subterminal small spots below vein 2, between veins 4 and 5, and 5 and 6; terminal black spots on interspaces. Hind wings fuscous, somewhat mottled with buff on termen; cilia buff.

Expanse 36 mm.

*Hab.* Tuis.

Near *H. tripuncta*, Schs.

*Plynteria florens*, sp. n.

♂. Head, collar, and thorax brown, the scales paler tipped. Abdomen brown, anal hairs yellowish. Wings brown, somewhat silky; cilia darker, with whitish points at veins. Fore wings: an antemedial and postmedial small white spot



on costa; antemedial and postmedial lines darker brown faintly edged, the former inwardly, the latter outwardly, with whitish-grey scales, the antemedial vertical, the postmedial outcurved beyond cell; a minute grey spot in middle of cell; some white scales on discocellular; a faint subterminal darker brown shade. Hind wings: a very faint postmedial lunular line, slightly shaded with white in the female. Wings below dark greyish, with faint traces of lines and discocellular streaks.

Expanse 17 mm.

Hab. Sixola.

*Plynteria costata*, sp. n.

♂. Palpi, head, collar, and thorax brown, the collar edged behind by a white line. Abdomen fuscous, anal hairs pale. Wings brown; small white discal spots; a faint darker subterminal shade, outwardly edged with lighter brown intervenal spots; minute terminal pale points at veins; cilia fuscous. Fore wings: the basal half except costal margin tinged with iridescent purple; a greyish-white line along costa. Wings below rather paler brown; a faint subterminal fuscous shade and pale terminal points; hind wings with small fuscous discal spot and postmedial line. Female without purple shading on fore wing; the costal line more pronounced, whitish edged in front with yellow.

Expanse, ♂ 23 mm., ♀ 26 mm.

Hab. Carillo, Tuis, Sixola.

*Plynteria stellata*, sp. n.

♂. Antennæ finely ciliated. Head, collar, and thorax brown, the scales faintly tipped with greyish. Abdomen fuscous; a white dorsal point on second segment; anal hairs light brown. Wings brown, the markings white; terminal white points at veins, extending on cilia. Fore wings: an antemedial line of small spots, slightly inbent from costa; an orbicular point; reniform consisting of an incurved line followed by a large spot surmounted by a point; a costal spot above it; postmedial consisting of small spots and fine lunules, inset opposite cell and incurved to middle of inner margin; irregular subterminal spots and irrorations, the largest on costa, above veins 7 and 5, and at fold. Hind wings: a faint fuscous discal point; postmedial whitish lunules, incurved near inner margin. Wings below fuscous grey, the hind wings irrorated with whitish grey,

defining a postmedial dark line, and fainter subterminal shade.

Expanse 23 mm.

Hab. Carillo, Sixola.

*Obroatis gatena*, sp. n.

♂. Palpi purplish brown, streaked above with red. Head, collar, and thorax brown tinged with lilacine. Abdomen above dull grey shaded with lilacine brown hairs; underneath pale red. Legs with pale red hairs; the tarsi dark brown circled with white. Wings roscate brown with scattered black irrorations. Fore wings: orbicular and reniform small, greenish grey finely edged with brown and faint lilacine white lines; postmedial fine, fuscous, oblique from costa, inbent from above vein 5 to middle of inner margin; termen from above vein 3 broadly dark shaded and more thickly irrorated with black; marginal white points connected by a deeply lunular black line. Hind wings: a straight medial line; faint white marginal points, but without connecting line. Wings below shaded with pale red, especially on veins; black discal points; cilia fuscous brown. Fore wings: inner margin greyish white; a dark medial line on inner margin; a faint lunular outer line. Hind wings: a dark medial line.

Expanse 42 mm.

Hab. Sixola.

Near *O. negata*, Wlk.

*Obroatis ? gargilius*, sp. n.

♂. Palpi fuscous grey. Head dark brown. Collar and thorax greyish brown tinged with reddish. Abdomen brownish grey. Fore wings: base lilacine with a few darker irrorations; costa reddish brown; a fine, dark brown antemedial line, outcurved on costa, vertical below cell; medial space reddish brown, darkest towards postmedial line; a dark point as orbicular; reniform narrow, outlined in dark brown; postmedial line outbent on costa, nearly vertical from vein 6 to inner margin, lilacine, edged with fuscous brown which expands outwardly to apex; outer margin lilacine, irrorated with fuscous brown and crossed by brown veins; a terminal fine lunular line; cilia brownish grey; some subterminal white scales above and below vein 5. Hind wings brownish grey; a postmedial fuscous line, partly geminate; a broad terminal fuscous shade; the veins outwardly irrorated with brown. Wings below buff, shaded



with fuscous and irrorated with grey-brown; fuscous discal spots and postmedial line; termen and inner margin of fore wing narrowly pale, inner margin of hind wings broadly so; a fine dark terminal line.

Expanse 44 mm.

*Hab.* Poas.

*Argidia aufidia*, sp. n.

♂. Palpi deep olive-yellow. Head, collar, and thorax dark greyish brown, mottled with fine lilacine hairs; abdomen above brighter, underneath reddish orange. Fore legs brown irrorated with lilacine; hind tibia with long tufts of yellow-brown hairs. Wings pale olive-brown. Fore wings: base to medial line shaded with lilacine grey; antemedial fine, dark brown, shaded with lilacine, outbent on costa, inset on subcostal, outwardly curved to submedian, and deeply outcurved on inner margin; orbicular dull lilacine, finely circled with dark brown; medial line broad on costa, dark brown, suffusing with reniform, finer, fuscous, inbent to submedian, and outcurved on inner margin; reniform very large, like a large "8," finely outlined in darker brown; costa above reniform and towards apex tinged with roseate lilacine; outer line oblique from costa, crossing a dull brown shade, on which it is darker marked, below vein 7 inbent, fine, and nearly black; postmedial space to outer line brighter brown; outer line closely followed from vein 6 to inner margin by a fuscous line on a pale ground; subterminal indistinct, dentate lunular, marked by black spots between veins from 3-6. Hind wings: a fuscous medial line; outer line as on fore wings; outer margin broadly irrorated with lilacine; subterminal whitish points; termen narrowly and cilia very dark brown. Fore wings below olive; costa to outer line broadly lilacine, then to apex orange-brown; medial line nearly straight; outer line fine, purple-black; a subterminal fine line; inner margin yellowish; orbicular and reniform lilacine. Hind wings below orange, finely irrorated with dull brown; a medial black line; a postmedial black and purple-red line; a fine black subterminal line.

Expanse 48 mm.

Female: body and wings yellow-brown tinged with roseate, the lilacine shadings more roseate; the lines as in male. Underneath brighter than male, especially the fore wings.

Expanse 49 mm.

*Hab.* Juan Vinas, Sitio.

*Empelathra pindarus*, sp. n.

♂. Palpi fuscous, third joint irrorated with buff. Body and wings reddish brown tinged with lilacine. Abdomen with fine lilacine-white segmental lines. Fore wings: lines darker reddish brown; the antemedial vertical, preceded by whitish spots on veins; orbicular rather large, consisting of an annular whitish line; a medial darker shade; some darker shading at and beyond end of cell, but no reniform; postmedial outcurved beyond cell, marked by white points on veins, terminating as a white line on inner margin, where it is preceded by a few lilacine white irrorations; subterminal dark points with some white irrorations between veins and heavily shaded with whitish grey from vein 4 to apex, forming a broad line; small marginal clusters of white scales between veins and terminal white points at veins. Hind wings: costa shaded with grey; a broad medial lighter brown shade from cell to inner margin, where it is mottled with grey, and edged by two dark reddish-brown lines, the outer line followed by white points; subterminal, marginal, and terminal points as on fore wings, but less distinct and without any broad grey shading.

Expanse 36 mm.

*Hab.* Juan Vinas.

*Dagassa? atalanta*, sp. n.

♀. Palpi whitish buff, irrorated with dark purple. Head and collar buff irrorated with brown, the latter shaded with brown behind. Thorax dark grey, the patagia shaded with brown. Abdomen dull brown; a black transverse line at base; grey segmental lines, broadest terminally; anal hairs buff. Wings dull brown, shaded with purplish grey from base to postmedial line; a black-brown terminal line. Fore wings: costa buff, finely striated with fuscous to postmedial, then finely black with the usual buff spots; lines dark brown, the antemedial wavy, inbent in cell, followed by a small orbicular black spot; medial line wavy, outcurved in cell; reniform consisting of an inbent dark line edged with greyish; postmedial line slightly outcurved, geminate, filled in with purplish grey; very faint traces of subterminal spots; cilia shaded with buff from vein 3 to torus. Hind wings: a fine dark brown antemedial line; a black discal point; postmedial geminate as on fore wings; cilia buff at base, then fuscous tipped with white. Wings below greyish striated with fuscous, the lines fine, also fuscous. Fore



wings: outer half faintly shaded with brown, except on costa and inner margin; an antemedial black spot in cell; medial and postmedial lines outbent on costal third, then sinuous; a terminal fuscous shade above vein 4, interrupted between vein 6 and 7 by pale mottlings. Hind wings: a dark discocellular spot followed by a medial and postmedial wavy line; some marginal fuscous shading at apex.

Expanse 30 mm.

Hab. Tuis.

*Euthermesia blandita*, sp. n.

♀. Palpi brown irrorated with black, third joint black, the second and third tipped with white. Head, collar, and thorax brown; some white shading on patagia in front. Abdomen fuscous brown, with pale segmental lines. Wings brown, faintly tinged with red; a lunular darker terminal line; cilia broadly tipped with fuscous opposite interspaces. Fore wings: a lilacine streak from base to apex close above subcostal; extreme costa finely fuscous brown; a faint inbent darker antemedial line, marked by lilacine points on veins; postmedial line slightly curved on costa, then straight and inbent, dark brown, outwardly edged with yellowish and with lilacine points on veins; a dark brown shade on discocellular in front with a small lilacine spot; a wavy series of subterminal fuscous spots outwardly shaded with lilacine. Hind wings: an antemedial lilacine spot on median and near inner margin; dark discal spots; postmedial line straight, as on fore wings; subterminal spots similar, the spot between veins 5 and 6 inset. Wings below light greyish brown; small fuscous discal spots; subterminal fuscous spots parallel with termen.

Expanse 28 mm.

Hab. Tuis.

*Mulelocha celita*, sp. n.

♀. Palpi mottled brown and buff, the third joint dark except tips and base which are buff-white. Head and collar brown, the tegulae edged with dull grey. Thorax buff, narrowly shaded with dark brown in front. Abdomen fuscous grey, the second segment darker with a white dorsal point. Fore wings buff, the costal margin duller and striated with fuscous; a whitish lunule edged with dark brown on discocellular; from below discocellular and vein 3 a fuscous brown space to inner margin, expanding towards base, but

not reaching it, followed by a narrow buff shade divided by a slate-colour line; postmedial fine, dark brown, lunular, outcurved beyond cell, and terminating at dark space below vein 3; outer space narrowly fuscous brown, outwardly expanding between veins 3 and 5, and outbent on vein 6, above which there is only a dull greyish shade to apex, cut by a buff line; a narrow bright brown shade and a dentate black line follows the dark shade, though partly obsolete; termen dull dark slate from tornus to vein 3, above vein 5 mottled with buff. Hind wings: base narrowly whitish buff; medial space mottled brown and dark slate, narrow on costa, wide on inner margin, containing some irregular black lines and a broad black streak on discocellular, its outer edge straight from costa to vein 5, then outcurved, followed by a lilacine-buff shade crossed by a slate-grey line; postmedial space broadly brown, outwardly crossed by a faint buff line, and limited by an indistinct blackish line; termen dark slate between veins 3 and 4 and from 5 to apex, otherwise paler slate mottled with buff. Wings below thickly striated with dull brown; discal spots whitish edged with fuscous.

Expanse 27 mm.

Hab. Guapiles, Sixola, Esperanza.

Near *M. hermelina*, Gn. = *diversa*, Wlk., but differs in postmedial line on fore wing, and different hind wing.

*Mulelocha subnigra*, sp. n.

♂. Palpi fuscous, the third joint tipped with white, and with white ring at base. Head, collar, and thorax fuscous brown mottled with dark grey. Abdomen fuscous brown. Fore wings brownish slate-colour; base of costa and inner margin fuscous brown edged with dull grey; a fine dark brown curved antemedial line, expanding on costa, where it is preceded and followed by a whitish point; a medial fuscous-brown shade, faintly geminate and suffusing from vein 3 to inner margin with the postmedial line, which is slightly outcurved beyond cell, irregular, outwardly finely edged with dull grey, and on costa with whitish; reniform large, outlined in dull grey, and enclosing a whitish curved line on discocellular; the antemedial space on inner margin to fold shaded with pale reddish brown; an irregular and broken subterminal line, buff-grey; a faintly darker terminal lunular line marked by dark points on interspaces. Hind wings: base brownish irrorated with fuscous brown and crossed by a dark antemedial line; a broad fuscous-brown



medial shade followed by a slate-grey shade crossed by a slightly darker line, its outer edge diverging before anal angle and followed by fuscous brown, broadly between veins 3 and 6; this last shade outwardly partly edged with buff, and with two faint brownish shades outbent to termen; the terminal line more heavily marked than on fore wing. Wings below brownish black; fore wings with a white lunule on discocellular, a faint postmedial line marked with whitish on costa, and some marginal whitish spots from vein 5 to apex.

Expanse 27 mm.

Hab. La Florida, Esperanza.

*Mulelocha homopteridia*, sp. n.

♂. Palpi: second joint outwardly fuscous, inwardly orange-brown; third joint buff mottled with fuscous. Head, collar, and thorax fuscous brown irrorated somewhat with dull lilacine grey, the collar showing transverse darker shades. Abdomen dull fuscous grey, brighter mottled at base, and with a dorsal white point on second segment. Wings dull brown shaded with dull slate-colour; a terminal lunular black line. Fore wings: outer half of costa shaded with light brown; a similar shade below discocellular; lines velvety black; a basal line on costa; an indistinct wavy subbasal line; antemedial fine, inbent from costa where it is marked by a spot; a similar medial spot on costa, and a fine wavy medial line, geminate on inner margin; postmedial fine, outbent on costa, dentate beyond cell, inbent from vein 4, expanding on inner margin close to medial line, followed on costa by a buff spot; reniform semihyaline white, obliquely curved, and finely edged with darker brown; a subterminal dark brown shade between veins 6 and 8. Hind wings: a white spot on discocellular; a fine medial line, partly geminate; a broad postmedial line; a subterminal irregular fuscous shade, surmounted by lighter brown towards inner margin. Wings below fuscous; the light brown spaces of upper side replaced by yellowish-buff shades crossed by dark striae; these extend on fore wing to base of costa, and below cell to base. Fore wings: a fine subterminal buff shade; terminal white striae at vein 5. Hind wings with scattered white striae.

Expanse 33 mm.

Hab. Juan Vinas.

*Orsa flava*, sp. n.

♂. Palpi dark grey. Head and collar grey; white spots on frons. Thorax yellow, shaded with grey in front. Abdomen yellow; a roseate line on basal segment, the terminal segments shaded with roseate. Wings bright yellow. Fore wings: the costa and outer margin broadly lilacine grey, the costa finely irrorated with black; some roseate scales at base below cell; a subbasal crimson spot on inner margin; antemedial fine, black on costa and cell, roseate from cell to submedian; orbicular a small dark point; medial and postmedial fine, curved on costa, black, from cell and vein 3 to inner margin inbent, roseate, the latter crossing below costa a reddish-brown shade which fills in the angle formed by the subterminal fuscous line, which is nearly straight and parallel with termen; a dark grey shade at apex. Hind wings: a medial dark roseate shade enclosing a white discal spot irrorated with black; a postmedial roseate line, finely streaked with dark grey except near costa; an irregular punctiform and geminate subterminal line; apex shaded with dark red; a terminal black line. Underneath similar, but duller, the lines fuscous.

Expanse 29 mm.

Hab. Sixola, Guapiles.

*Isogona capitalis*, sp. n.

♂. Palpi, head, and collar bright reddish brown. Thorax, abdomen, and wings fuscous slate-colour; anal hairs and lines buff-brown. Fore wings: antemedial line slightly outbent; a line from apex to beyond middle of inner margin, joined between veins 6 and 7 by an oblique, slightly down-curved line from costa above discocellular; spots small, hardly perceptible; a marginal line from apex to termen at vein 3, sharply inangled and then straight to tornus. Hind wings: a postmedial straight line.

Expanse 30 mm.

Hab. Avangarez, Sixola.

The specimen from Sixola differs in having the lines geminate.

*Capnodes hersilea*, sp. n.

♂. Palpi: second joint brown; third joint buff-brown. Head and collar brown, thorax and abdomen dull darker brown. Wings dull dark brown; a terminal darker line inwardly defined by a fine buff-brown edging. Fore wings:



lines buff, the antemedial slightly inbent; the postmedial angled below vein 7, followed by a diffuse buff shade extending from vein 6 to apex, below vein 6 shaded with dull brown limited by the subterminal buff line which is out-angled between veins 3 and 4; orbicular and reniform large, outlined in buff. Hind wings: postmedial line straight to inner margin near anal angle; subterminal line dentate, indistinct towards costa, close to postmedial near inner margin. Wings below buff, shaded with fuscous; discal spots; hind wings with distinct postmedial fuscous line and subterminal fuscous shadings, the intermediate space brighter.

Expanse 26 mm.

Hab. Juan Vinas.

*Capnodes lycoris*, sp. n.

♀. Head, collar, and thorax dark brown. Abdomen above fuscous. Fore wings dark reddish brown, glossed with lilacine blue except on costa, apex, and termen; antemedial and postmedial lines slightly outcurved, whitish buff, edged with reddish brown; subterminal dark brown spots outwardly shaded with lilacine blue, the terminal dark line inwardly so shaded. Hind wing dark reddish brown; some lilacine irrorations on outer half; a darker spot on discocellular; postmedial line pale reddish brown, darker edged; subterminal spots and terminal line as on fore wing. Wings below dull dark brown with a few greyish irrorations; darker discal points; postmedial line fuscous brown, outwardly edged with white on costa of fore wing; pale terminal points at veins.

Expanse 34 mm.

Hab. Guapiles.

*Capnodes hembrilla*, sp. n.

♀. Very close to *C. pueritia*, Cr.; inner side of palpi grey, not white. Collar brown instead of fuscous grey; dark spot at tornus of fore wing more remote from termen, and not so round; colour of wings brown without the roseate tinge. Wings below darker, thickly irrorated with dark brown; a broad subterminal fuscous-brown shade; postmedial line broader, cut on hind wings by yellowish veins.

Expanse 38 mm.; *C. pueritia* ♀ 30 mm.

Hab. Juan Vinas.

*Capnodes melie*, sp. n.

♂. Body above and wings purplish brown, the lines dull reddish brown. Fore wings: large dark brown costal spots at origin of lines, followed and preceded by pale brown shading on extreme costa; basal spot without a line; antemedial line incurved in cell, outcurved below cell and below submedian; a very faint medial darker shade; reniform reddish brown edged with black; postmedial line slightly outcurved, lunular; a very faint subterminal irregular darker shade; a terminal dark brown line, interrupted by light brown points at veins. Hind wings: a medial fuscous shade not reaching costal margin; a postmedial lunular line from vein 6 to inner margin; terminal line as on fore wing. Fore wing below fuscous grey, the costa broadly tinged with light brown; medial and postmedial outcurved fuscous lines on costal half of wing. Hind wing below light brown, shaded with fuscous grey on outer half; a black discal spot; a fuscous medial and postmedial line and faint subterminal shade.

Expanse 20 mm.

Hab. Sixola.

Near *C. pira*, Dr.

*Antarchoea poaphiloides*, sp. n.

♂. Palpi brown. Head grey-brown. Collar and thorax greyish buff. Abdomen buff. Fore wings creamy buff, the termen whiter; from inner margin beyond middle to termen just below apex a broad dark olive-grey stripe, faintly shaded about middle of wing with roseate brown, and inwardly edged from vein 3 to inner margin with black irrorations; a few scattered black scales; two fine pale reddish lines near dark stripe, barely traceable; terminal black points from above vein 2 to apex. Hind wings yellowish white, tinged with pale roseate brown terminally; black terminal points.

Expanse 22 mm.

Hab. Juan Vinas.

*Homopyralis aglaia*, sp. n.

♀. Palpi dark brown, the third joint buff at base and tips. Head, collar, and thorax mottled dark and pale brown. Abdomen dark greyish brown. Fore wings brown; some lilacine grey irrorations antemedially, at end of cell, postmedially beyond cell, and on fold, and also on termen; a



broad antemedial light brown shade edged with fuscous brown and divided by a fine dark line; a similar shade from costa across end of cell to inner margin, expanding outwardly beyond cell; subterminal consisting of an irregular dull mauve-grey line inwardly shaded with fuscous brown; a terminal wavy fuscous line. Hind wings fuscous brown. Wings below dull fuscous brown; hind wings with a darker curved medial shade and a subterminal shade.

Expanse 20 mm.

*Hab.* Carillo.

*Homopyralis albifasciata*, sp. n.

Head dark brown mottled with fuscous. Collar, thorax, and basal half of abdomen whitish mottled with brown; terminal segments darker. Fore wings: base from costa to submedian fuscous brown, edged with black, and crossed on costa by two fine roseate-brown lines; base of inner margin and antemedial space broadly white, crossed by the fuscous-brown antemedial line, which is outangled on costa, incurved across cell, outcurved below it, and again below submedian, followed in cell by a fine transverse fuscous line; the white space is followed by a narrow fuscous-brown medial fascia edged with black, but interrupted by white on median vein; outer portion of wing lilacine brown; reniform indicated by a dark line parallel with black outer edge of brown medial fascia; postmedial line whitish edged with dark brown, oblique and dentate on costa, vertical and zigzag opposite cell, inbent along vein 3 and suffusing with medial fascia; traces of a whitish subterminal shade; whitish points terminally at veins; cilia fuscous. Hind wings dark brown; a terminal white line at anal angle. Hind wings below whitish irrorated with grey-brown; a dark medial and postmedial line; termen dark shaded.

Expanse 27 mm.

*Hab.* Avangarez.

*Homopyralis ardesiaca*, sp. n.

♂. Palpi whitish grey with transverse darker shades. Head, collar, thorax, and fore wings slate-grey. Abdomen dorsally with large lilacine-brown tufts on basal half, terminally dark grey irrorated with fuscous. Fore wings: a subbasal brown fascia, becoming fuscous on inner margin, shaded on either side with green; a faint brownish medial shade, indistinctly geminate; a dark brown spot on discocellular; a fine dark brown postmedial line, slightly

outcurved beyond cell, and narrowly edged outwardly with green, followed by a broad dull brownish shade; an indistinct brownish subterminal shade, chiefly opposite cell and between vein 2 and submedian; cilia mottled with paler grey. Hind wings dull brown, the termen slate-grey; a fuscous discal shade; a fine postmedial dark line, interrupted below vein 2, and partly edged with green. Wings below bluish white, irrorated with fuscous brown except on termen; a fuscous medial line, spots on discocellular, a fine interrupted postmedial line, and broad subterminal shade. Hind tibia fringed above with reddish-brown hairs.

Expanse 28 mm.

*Hab.* Cachi, Juan Vinas.

*Homopyralis charopus*, sp. n.

♂. Palpi fuscous; a buff shade at base of third joint. Head, collar, and thorax fuscous brown mottled with slate-colour. Abdomen above fuscous, underneath yellowish buff; a dorsal reddish shade on basal segment. Fore wings: costal margin and cell mostly fuscous brown, below cell from base to postmedial line lilacine brown, thinly irrorated with red; some pale brown spots on extreme costa at origin of lines; some whitish-grey tufts at base; subbasal forming a broad black shade; antemedial fine, lunular, black, followed by small black orbicular and by a similar medial line; reniform round, black, postmedial fine, black, somewhat punctiform where outcurved beyond cell, vertical from vein 3 to inner margin, and followed at vein 8 by a small cluster of reddish-brown scales; terminal space dull greyish brown faintly tinged with lilacine, the subterminal line slightly paler, irregular, and preceded by a broad fuscous-brown shade; large terminal fuscous spots between veins. Hind wings fuscous brown; a fine black streak on discocellular; terminal lunate black spots; a geminate black line at anal angle, separated by a whitish line. Wings below brownish grey; fore wings with faint traces of lines and small discal spot; hind wings with medial, postmedial, and subterminal darker shades.

Expanse 21 mm.

*Hab.* Esperanza.

*Homopyralis croceipalpis*, sp. n.

♂. Palpi yellow; second joint streaked with fuscous in front and tipped with fuscous; third joint with a fuscous



ring near tip. Head, collar, and thorax fuscous, the collar faintly edged with silky buff scales. Abdomen dark grey, with some paler transverse shades. Fore wing bone-white, shaded with pale olive-brown medially; base, costal margin, cell, and inner margin to beyond middle irrorated with fuscous brown, leaving a whitish antemedial line; a broad black line on discocellular; a postmedial fuscous-brown line from costa to vein 5; outer margin broadly fuscous brown, interrupted by an oblique white line from vein 5, bifurcating at apex; some whitish marginal shadings above tornus. Hind wings fuscous brown; traces of a postmedial buff shade, surmounted by a small black spot on inner margin. Wings below dull fuscous brown; darker discal spots; a broad pale postmedial shade; a dark medial line on hind wings.

Expanse 19 mm.

Hab. Sixola.

*Homopyralis elongata*, sp. n.

♂. Palpi fuscous grey, the basal half of third joint buff-white. Head, collar, and thorax dark greyish brown. Abdomen grey-black; a buff-white dorsal spot at base. Fore wings rather long and narrow, dull dark brown, indistinctly mottled with grey-buff, forming subbasal and antemedial lines, the latter followed by a fine irregular black line, and the space between them shaded with black; a small fuscous spot in cell and indistinct darker geminate medial line; a round black spot on discocellular; postmedial consisting of vague fuscous spots on veins, outcurved beyond cell, followed by a pale shade on costa and marked by a larger spot on submedian; the subterminal sinuous, greyish, outwardly edged with fuscous shades, chiefly above and below vein 5; terminal black spots; cilia black, cut by pale shades at veins. Hind wings dark brown; a short, white, black-edged streak at anal angle. Wings below greyish, the hind wings with indistinct discal spot, outer and subterminal lines.

Expanse 23 mm.

Hab. Sixola; also the Guianas.

The narrow wings and pale dorsal patch on abdomen will help to distinguish this species.

*Homopyralis nireus*, sp. n.

♂. Palpi buff, ringed with fuscous brown. Head reddish brown. Collar buff, irrorated with olive-brown. Thorax mottled reddish brown, buff, and black. Abdomen above

fuscous, irrorated with reddish brown. Fore wings reddish brown; base, a broad medial space, narrowing on inner margin, a postmedial patch below costa, and termen from below vein 5 to tornus heavily shaded with fuscous, mottled slightly with brown; antemedial space crossed by a fine dark reddish-brown line; a small pale shade beyond discocellular; traces of a dentate postmedial line, not apparent below vein 3; a fuscous subterminal shade, suffusing with terminal shades below vein 5; marginal black points connected by a fine lunular line. Hind wings: base and inner margin to tornus fuscous, with geminate black lines at end of cell; outer space reddish brown; a postmedial geminate shade to anal angle, fuscous towards costa, dark reddish brown towards angle; an irregular subterminal fuscous shade; termen irrorated with fuscous, the spots and line as on fore wing. Wings below buff, irrorated and shaded with fuscous brown; a dark medial and postmedial line; a broad subterminal and marginal shade, dark discal spots; some pale spots on costa of fore wing.

Expanse 34 mm.

Hab. Esperanza.

Near *H. ypsilon*, Btl.

*Homopyralis viridis*, sp. n.

♂. Palpi buff-brown, with numerous dark brown rings. Head and base of abdomen greyish buff, irrorated with reddish brown. Collar and thorax dull reddish brown, the broad scales tipped with whitish grey; abdomen except basal segment fuscous, dorsally and terminally mottled with buff and brown. Fore wings green to postmedial line; some scattered black scales on inner margin and below discocellular; costa shaded with dark brown; traces of a fine antemedial fuscous line and a wavy geminate medial line; a velvety black streak on discocellular; postmedial line fine, fuscous, outwardly edged with pale green and a dull brownish shade, outbent from costa, incurved opposite cell, dentate on veins 4, 3, and on submedian; terminal space purple-brown, with a faintly browner subterminal shade; marginal black spots outwardly shaded with pale green and connected by a lunular black line; cilia partly shaded with green. Hind wings purple-brown; the inner margin green; a green postmedial space not reaching costal margin; a black spot on discocellular; the lines interrupted, broader and more conspicuous between veins 5 and 6; terminal spots as on fore wings. Fore wings below grey-brown, the costa shaded



with red and black; cilia dull green, tipped with reddish. Hind wings below whitish, shaded with roseate brown; a thick brown discal streak, postmedial line, and subterminal shade.

Expanse 20 mm.

*Hab.* Avangarez; also from French Guiana.

*Homopyralis? diffusa*, sp. n.

♂. Palpi and body fuscous brown, the thorax mottled with dull lilacine. Fore wings dull lilacine slate, the markings fuscous brown; a small annular spot at base below cell, followed by a broad fascia, and then a fine reddish-brown antemedial line; orbicular small, round; a geminate medial line, inset on costa, suffusing with reniform, slightly irrorated with reddish scales; postmedial fine, macular from an inset spot on costa, faintly sinuous, and close to outer medial line from vein 3 to inner margin, followed between veins 7 and 8 by a spot; subterminal fine, inangled at veins 5 and 2, heavily dark shaded outwardly between 4 and 6; marginal spots connected by a lunular line. Hind wings whitish, heavily shaded with dull brown, and with faint traces of four lines. Wings below whitish, heavily shaded with dull brown; large fuscous discal spots: fore wings with antemedial and postmedial lines and geminate subterminal fainter shades; hind wings with medial and three punctiform lines; marginal fuscous spots on both wings.

Expanse 33 mm.

*Hab.* Turrialba.

*Homopyralis? lotis*, sp. n.

♂. Palpi outwardly brown, inwardly buff. Head, collar, and thorax dark brown, mottled with buff. Abdomen fuscous; a tuft of light brown scales dorsally at base. Fore wings buff-brown, irrorated with dark brown, the lines black-brown; a basal and subbasal fuscous-brown shade on costa; antemedial partly interrupted, preceded by a small black spot in cell, and closely followed by the small white orbicular point; a pale line on discocellular; postmedial obliquely outcurved beyond cell, thickest on costa and fold, somewhat interrupted by veins; subterminal fine, sinuous, light brown, preceded by a fuscous shade from vein 5 to costa; a terminal lunular black line. Hind wings fuscous; cilia mottled buff and fuscous. Hind wings below buff, finely irrorated with fuscous brown; a spot at end of cell; an interrupted curved

postmedial line; a subterminal shade, less apparent before anal angle, where it extends to termen.

Expanse 19 mm.

*Hab.* Tuis.

*Corna pegasis*, sp. n.

♂. Palpi fuscous brown. Head and body dark brown; a dorsal tuft at base of abdomen and tips of patagia mottled with metallic blue and red scales. Fore wings dark brown; some white irrorations on costal margin and postmedial space; an inbent antemedial line formed by clusters of white irrorations; a white point as orbicular; a fine white line across costa and discocellular, inbent above median, forming a short hook, interrupted just below median and above submedian; a lighter brown sinuous subterminal shade; cilia fuscous brown, irrorated with white at base. Hind wings dark brown. Hind wings below buff-grey irrorated with brown; a fuscous discal point; a curved dark postmedial line and subterminal shade.

Expanse 31 mm.

*Hab.* Tuis, Sixola.

*Baniana? haga*, sp. n.

♂. Antennæ pectinated. Palpi, head, and collar light reddish brown. Thorax dark lilacine grey, shoulders fuscous. Abdomen pale fuscous grey. Fore wings dull grey, tinged with lilacine; a dark brown antemedial vertical fascia, narrowing on costa, outwardly edged by a buff line; a small dark brown spot in cell medially circled with buff; from middle of inner margin a buff line, slightly outbent, curved around discocellular, downbent to vein 4, and upturned to vein 8 before subterminal shade, outwardly broadly shaded with dark brown; subterminal brown shade slightly incurved below vein 4; termen paler grey; a terminal dark brown line. Hind wings brownish grey; a terminal dark brown line.

Expanse 21 mm.

*Hab.* Juan Vinas.

Near *B. gobar*, Dr.

*Elecussa displosa*, sp. n.

♀. Palpi grey, irrorated with brown. Head, collar, and thorax dark brown, irrorated with grey. Abdomen above



dark brown. Body underneath pale buff, irrorated with brown. Wings slate-brown; a fuscous dentate terminal line. Fore wings: base irrorated with grey, antemedial line fine, dark brown, outangled on subcostal, inangled in cell, sharply outcurved, then incurved, and again abruptly outcurved on inner margin; orbicular round, whitish; reniform large, dull brown, edged with whitish, forming an "8"; traces of a dark medial line, outbent on costa; postmedial barely curved on costa, nearly straight and slightly inbent, fine, dark brown, partly edged with reddish brown and inwardly with whitish, followed by a dark brown patch between fold and submedian; veins on outer space shaded with reddish brown; subterminal consisting of angled black spots, outwardly edged with whitish. Hind wings: a dark shade on discocellular; postmedial as on fore wings, barely curved, followed by some black spots near inner margin; subterminal spots larger than on fore wings. Fore wings below greyish buff, the inner margin broadly dull grey; orbicular small, black; a fuscous medial line; reniform small, fuscous; postmedial fine, fuscous, edged with grey; postmedial space tinged with reddish brown; subterminal spots greyish. Hind wings below greyish buff; postmedial and subterminal spots as on fore wings; a distinct medial line, followed by a fuscous line on discocellular.

Expanse 37 mm.

*Hab.* Juan Vinas.

*Anomis gentilis*, sp. n.

♀. Palpi, head, collar, and thorax purple-brown, mottled with buff scales. Fore wings red, irrorated with yellow, the costal margin and veins grey-brown, irrorated with whitish scales; antemedial line slightly outbent from subcostal, fine, dark brown, inwardly edged with grey; a white point as orbicular; a medial dark line from subcostal across discocellular, vertical to inner margin, and outwardly edged with grey; a wavy postmedial line, white on costa, then dark, outwardly edged with grey, and only reaching vein 3; a sinuous subterminal dark brown shade, outwardly edged with paler red and shaded with white on costa; cilia white, spotted with fuscous at veins. Hind wings fuscous brown; cilia similar, tipped with white.

Expanse 26 mm.

*Hab.* Esperanza.

There is a specimen of this species in the B. M. from the United States presented by Prof. C. Riley.