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*New Species of Heterocera from Costa Rica.*—XIII.

By W. SCHAUS, F.Z.S.

Noctuidæ.

*Rhyncholita ? viridicosta*, sp. n.

♂. Palpi, head, and collar pale green. Thorax whitish buff. Abdomen brown-buff with some dark brown irrorations. Fore wings whitish; costa broadly tinged with pale green and crossed by oblique olive-green shades; cell irrorated with pale reddish brown; the spots round, black, the orbicular small, the reniform large; a basal and a sub-basal black point; some scattered pale reddish-brown irrorations below cell, partly forming an indistinct line from reniform to middle of inner margin; postmedial black points from well beyond cell to near middle of inner margin, followed by a clear white line, expanding at apex, and outwardly edged by an olive-green line; a subterminal small black and brown spot above tornus; terminal black points. Hind wings white; a black discal spot; a fuscous spot at middle of inner margin; terminal black points. Fore wings below with costal margin and part of cell fuscous olive; an



oblique fuscous subterminal line. Hind wings below with black discal spots and a fine postmedial line.

Expanse 26 mm.

Hab. Turrialba.

*Chlorhoda metaleuca*, sp. n.

♂. Palpi reddish brown fringed with whitish and shaded with black behind. Head creamy buff, shaded with brown. Collar creamy buff, shaded posteriorly with black-brown, and crossed by a fine blackish line. Thorax silvery grey, darker shaded behind. Abdomen fuscous grey above, creamy buff below. Fore wings silvery grey, faintly shaded with fuscous on basal half, except on costa; some fine brown streaks on extreme costa, and a heavier brown and black medial streak to subcostal; an angled reddish-brown streak with its apex between orbicular and reniform, which are large, close together, and barely defined, the inner portion of streak irregularly indented to submedian fold, the outer portion edging reniform posteriorly; postmedial geminate black points on veins, the inner series connected by a faint fuscous-grey lunular line; subterminal black streaks on veins and a faint brownish shade; an indented brown-black streak from costa near apex to vein 7, followed by a whitish-grey shade, and preceded by a brown shade on costa; faint terminal dark points between the veins. Hind wings white; the apex and veins on outer half streaked with fuscous brown.

Expanse 34 mm.

Hab. Juan Vinas, Cachi.

*Phobolusia aurilinea*, sp. n.

Palpi buff, irrorated with metallic scales. Head and thorax whitish with minute brown irrorations. Abdomen above whitish, thickly irrorated with brown and yellow scales, dark brown segmental lines and a white dorsal tuft at base. Fore wings whitish, irrorated with minute brown points and some wavy lines; a broad antemedial golden line, widest on costa; a black point at end of cell; a subterminal yellowish-buff shade preceded by heavier irrorations, and followed at apex by black streaks, some lilacine-silver scales, and then terminal black points; the termen below vein 5 lilacine silver, with two black spots between veins 2 and 4. Hind wings whitish with fuscous irrorations; a spot in cell, a postmedial dark line towards inner margin, and a broad dark terminal shade widest at apex. Under-

neath whitish, with darker irrorations and rather large terminal black spots, the fore wings shaded with brown below cell and before apex.

Expanse 15 mm.

Hab. Peralta.

*Steniscadia polyodonta*, sp. n.

♀. Palpi, head, and thorax fuscous grey, the collar shaded with black. Abdomen fuscous. Fore wings grey-brown; a fine, interrupted, subbasal, geminate darker line, marked by black points in cell and some black scaling below cell; an antemedial, fine, lunular, dentate, geminate line, shaded with white on inner margin; two black points on discocellular; the postmedial line, dark, forming deep projections between the veins, with paler shadings between them; a subterminal fine whitish shade, preceded and followed by brownish spots between the veins; a terminal black line; cilia broad, dark brown, tipped with greyish. Hind wings fuscous, darkest on costa and on outer margin.

Expanse 21 mm.

Hab. Sixola.

*Azeta rufescens*, sp. n.

♂. Palpi reddish brown, irrorated above and inwardly with lilacine white. Head, collar, and thorax dark reddish brown; some whitish irrorations on frons. Abdomen lilacine brown above, the lilacine tinge due to the whitish irrorations; underneath light reddish brown. Fore wings: the anterior half dark reddish brown, extending on basal half to near inner margin, otherwise greyish brown irrorated with lilacine white; the costa irrorated with white, especially medially, to postmedial line, and with four small white spots beyond it; antemedial dark reddish brown, angled on subcostal, outset on median, and straight to submedian, then outcurved; orbicular round, white; a dark reddish-brown medial shade angled at reniform, toothed on submedian; reniform large, oval, buff, shaded with brown in front and behind, and with a greyish line on discocellular; postmedial fine, outcurved beyond cell, fuscous brown outwardly edged with lilacine white, and a fine reddish-brown shade; subterminal whitish spots; a lunular fuscous-brown line followed by a reddish-brown sinuous shade. Hind wings greyish brown; a dark brown medial line; the postmedial fine, distinctly geminate, followed by a broad brown shade terminating at the subterminal spots, which are remote from



termen. Fore wings below brown, the costal half tinged with roseate; a black orbicular point; a dark medial line, angled at reniform, which is narrow and indistinct; the postmedial and subterminal spots pale. Hind wings below light reddish brown, the inner margin broadly roseate grey; a yellowish-white discal spot; a dark medial line; the postmedial fine, fuscous brown outwardly edged with lilacine; a fuscous shade before subterminal spots.

Expanse 54 mm.

*Hab.* Juan Vinas.

Allied to *A. leucoma*, Feld., but has antennæ ciliate and with fascicles, whereas *leucoma* has the antennæ with shorter cilia and no fascicles; the colour is also quite different.

*Chamyna modesta*, sp. n.

♂. Palpi dull brown. Body brownish buff, the abdomen above tinged with fuscous; underneath whitish. Legs outwardly brown, inwardly whitish; pale rings on tarsi. Wings above brownish buff thinly irrorated with black. Fore wings: costa finely roseate; cilia roseate brown; a faint darker antemedial line; orbicular a minute black point; a darker medial shade terminating in a black spot on inner margin; reniform large, indistinct, slightly paler with a vague fuscous line on discocellular; postmedial slightly darker, indistinct, sinuous with white points on veins; subterminal black points between the veins; terminal black points at veins connected by a fine lunular line. Hind wings: a medial fuscous line ending in a small black spot on inner margin; postmedial, subterminal, and terminal spots as on fore wings. Fore wings below pale fuscous, with faint traces of a fine postmedial line and subterminal spots; a terminal black line. Hind wings below buff-white irrorated with fuscous; a dark discal spot, a postmedial line, and subterminal fuscous shade.

Expanse 45 mm.

*Hab.* Juan Vinas, Tuis.

*Isogona fulgens*, sp. n.

♀. Palpi reddish brown, ringed with buff terminally. Head dark reddish brown; a large buff spot on frons, and a white spot at base of antennæ. Collar light reddish brown in front; behind and also thorax dull greyish brown. Abdomen light reddish brown with segmental buff lines. Fore wings silky reddish brown tinged with lilacine; a silvery

white line on base of costal margin; lines buff finely edged with dark red-brown; subbasal line geminate, expanding in cell, marked by a small black spot above submedian; antemedial slightly inbent, and somewhat outset on median; orbicular round, extending across cell; reniform very large, extending above and below cell, its corners angled, not rounded; from angle of reniform below vein 3 a line continues to inner margin, and another to outer line just above 3; the outer line oblique from costa postmedially to vein 3 at termen; a marginal line from a white apical spot, straight to vein 3, twice inset below it; small subterminal black and white spots near apex; three large and one small black spot from vein 3 to inner margin subterminally, the small spot inset. Hind wings silky reddish brown; the costa whitish to near apex; cilia tipped with white. Fore wings below silky reddish brown, the costa broadly whitish; traces of antemedial, medial, and postmedial lines. Hind wings below white; costa irrorated with reddish brown; a medial line from costa through cell; a postmedial line inangled towards inner margin; subterminal shadings widest on costa; an interrupted terminal line.

Expanse 30 mm.

*Hab.* La Florida.

*Sasserna ? irrorata*, sp. n.

♂. Palpi brown irrorated with white. Head and collar brown. Thorax and abdomen buff-grey, with a few black irrorations. Thorax below grey; the legs brown; a white spot at end of hind femora. Fore wings brown, irrorated with black and somewhat shaded with grey; a buff shade from within postmedial to apex; an antemedial indistinct line, fuscous brown on costa, irregularly incurved from subcostal to submedian; an oblique fuscous medial line on costa to reniform, which is large, whitish, with fuscous lines, and sometimes completely velvety black; the postmedial fine, black, outcurved beyond cell, dentate lunular; subterminal white spots partly shaded with black; some dark striae on termen. Hind wings fuscous, shaded with grey or brown about anal angle, irrorated with black; an indistinct black medial line, and subterminal spots near anal angle. Underneath fuscous grey; black discal spots preceded and followed by white spots; a black postmedial dentate lunular line; subterminal white points. Fore wings: the costal margin whitish grey irrorated with black; terminal black striae. Hind wings thickly irrorated with black.



Expanse, ♂ 33 mm., ♀ 40 mm.

*Hab.* Juan Vinas, Avangarez, Tuis.

In the 'Biologia' this species was mixed with *S. lyde*, Druce, the female being figured under that name.

*ARSACIODES*, gen. nov.

Proboscis minute; palpi with the second joint porrect, extending about the length of head, thickened and fringed with hair above and below at extremity, the third rather long, thick, bent downwards; frons smooth; eyes large; antennae of male ciliated; head and thorax smoothly clothed with scales and without crests; tibiae with the spurs long; abdomen with dorsal crest at base only. Fore wing with the inner margin strongly lobed at middle and with slight scale-teeth at middle and tornus; vein 3 from well before angle of cell; 5 from just above angle; 6, 7 from upper angle; 8, 9, 10 stalked; 11 from cell. Hind wing with veins 3 and 5 from near angle of cell; 6, 7 from upper angle; 8 anastomosing with cell near base only.

*Arsaciodes rufa*, sp. n.

♀. Head and thorax bright rufous; pectus whitish; legs pale brown, the tarsi with slight white rings; abdomen fuscous, the ventral surface whitish. Fore wing rufous with a purplish gloss; a waved white antemedial line defined by a few black scales on outer side; a black point in end of cell; a fine white postmedial line defined by black on outer side towards costa and inner margin, oblique from costa to vein 7, then inwardly oblique and sinuous; a curved subterminal series of black points; a terminal series of black striae. Hind wing fuscous brown; cilia red-brown, whitish at tips.

Expanse 20 mm.

*Hab.* Banana River, Sixola.

*Renia turpis*, sp. n.

♂. Palpi dark brown, fringed with buff-brown; the last joint buff-brown. Head, collar, and thorax fuscous brown; the patagia shaded with violaceous black. Fore wings violaceous black tinged with brown, crossed by darker striae; an indistinct antemedial shade outwardly oblique; a similar medial shade inwardly oblique; orbicular minute; reniform almost semilunar, buff-brown, crossed by a velvety black line, reduced to a spot behind in type; a broad postmedial

wavy buff-brown shade; similar subterminal spots on veins in a sinuous row, and shaded with dark brown; small marginal dark spots connected by a vague wavy line. Hind wings dark brown, shaded with violaceous black on outer margin, medially above vein 2, and on inner margin; a dark, dentate, lunular, postmedial line, partly shaded outwardly with buff-brown; subterminal whitish spots on veins 2, 3, and 4.

Expanse 53 mm.

*Hab.* Sixola, Guapiles, Tuis, Bugaba.

*Scopifera repanda*, sp. n.

♂. Palpi brown, darkest at base, fringed in front with buff. Head, collar, thorax, and fore wings fuscous brown, tinged with lilacine. Abdomen and hind wings fuscous. Fore wings: antemedial and postmedial lines fine, black, lunular, the latter outcurved; a faint darker medial shade angled at reniform; orbicular a small whitish-yellow spot; reniform dark velvety brown, divided by a light reddish-brown shade and with a yellowish point on basal side; a subterminal light brown sinuous line, darkly edged and followed by a cluster of white scales above vein 5; a few white scales scattered over the wing.

Expanse 42 mm.

*Hab.* San José, Juan Vinas.

*Regectaria marginalis*, sp. n.

♂. Palpi, head, collar, and thorax dark reddish brown. Abdomen fuscous brown, irrorated with white below. Fore wings dull brown to outer line; a greyish shade at base below cell; antemedial and medial perpendicular, wavy, darker brown, the antemedial shaded rather broadly with reddish brown; reniform very indistinct, faintly tinged with grey; a very faint wavy postmedial line, followed by the fine brown outer line, straight and perpendicular from inner margin to vein 7, where it is outcurved and lost in an apical brown shade; inwardly it is finely edged with lilacine and outwardly followed by a broad lilacine shade which reaches costa and has its outer edge forming three curves; termen broadly fuscous grey. Hind wings dull fuscous brown; an outer line and greyish shade from vein 5-2. Hind wings below with an outer lilacine line.

Expanse 45 mm.

*Hab.* Juan Vinas, Sitio.



*Regectaria splendida*, sp. n.

♂. Palpi, head, collar, and thorax very dark brown, with some lilacine irrorations; abdomen lighter brown, with a few white scales; legs and tarsi spotted with white; fore coxæ irrorated with white. Fore wings dark brown, especially the medial space, which has only a few lilacine irrorations; base heavily irrorated with lilacine, limited by the white antemedial line, slightly oblique inwardly from costa; a fine white postmedial line, straight and slightly oblique inwardly, followed on inner margin by a large cluster of lilacine scales; subterminal short white streaks on veins and a small cluster of lilacine scales above vein 5; terminal white spots; cilia irrorated with white. Hind wings paler; the outer line and lilacine irrorations only between veins 2 and 5, and some irrorations near inner margin; the termen with the lilacine irrorations diminishing towards apex.

Expanse 45 mm.

Hab. Juan Vinas.

*Strathocles funebris*, sp. n.

♂. Body very dark brown; the tarsi with whitish rings. Wings dull dark brown, the lines of a still darker shade. Fore wings: the antemedial perpendicular, outcurved between the veins; a median shade from reniform, sinuous to inner margin; reniform buff-brown, crossed by a dark line; postmedial fine, wavyly dentate, perpendicular; subterminal fine, somewhat heavier on inner margin, outcurved between veins 3 and 4 and 6 and 7, the curves filled in with velvety black-brown patches, very conspicuous. Hind wings: faint traces of a darker postmedial shade; a subterminal darker spot near anal angle. Wings below fuscous brown, with indistinct postmedial and subterminal lines. Fore wings: the costal margin from base to beyond middle with thick downturned hairs; a streak of long dull brown hairs in cell.

Expanse 36 mm.

Hab. Juan Vinas, Tuis; also from French Guiana.

The female of this species is the female *S. ribbei*, Dr., of the 'Biologia.'

*Aristaria vinasalis*, sp. n.

♂. Palpi dark brown, tipped with whitish buff. Frons dark brown; vertex, collar, and thorax buff. Abdomen fuscous. Femora brown, tibiae and tarsi whitish buff; fore coxæ with tufts of roseate hairs. Fore wings greyish buff;

costa narrowly ochreous, edged with black in front; a fine dark basal line; antemedial fine, black, dentate, outwardly oblique from costa; orbicular round, whitish buff, partly edged with black scales; a black-brown median line inwardly oblique from subcostal, widest and more heavily marked on inner margin, partly followed by a brownish shade; reniform large, whitish buff, containing two black spots; postmedial line fuscous brown, fine, deeply lunular, with black points at angles, followed by a heavy fuscous-brown shade, outwardly dentate, especially at vein 4; marginal black points between the veins; terminal black points at veins, the two rows connected by an indistinct angled line. Hind wings fuscous, shaded with dull brown in and below cell; traces of a darker subterminal line, geminate near anal angle and surmounted by some buff mottling; some terminal buff shadings about veins 2 and 3; cilia buff.

Expanse 48 mm.

Hab. Juan Vinas, Sitio.

This species varies considerably in colour, some specimens being reddish brown.

*Neohermia modestalis*, sp. n.

♂. Palpi, head, collar, and thorax brown. Abdomen and hind wings fuscous. Fore wings dull brown; antemedial and postmedial lines very faint, darker brown, the latter wavy, indent towards reniform, dentate lunular below vein 3; spots grey, edged with black-brown, the orbicular very small, the reniform moderate; a vague subterminal shade twice outcurved, defined by lilacine scales, which extend over the outer margin.

Expanse 33 mm.

Female: The lines more clearly defined; the spots buff, the reniform larger and crossed by a dark brown line; the subterminal dark, outwardly shaded with buff-brown, the lilacine scaling absent.

Hab. Poas, Turrialba.

*Tortricodes barbaralis*, sp. n.

♂. Body violaceous black, the palpi fringed with ochreous brown; abdomen below mottled with white. Fore wings dark lilacine grey, the lines whitish buff; the antemedial outcurved through cell, incurved below median, the postmedial incurved below vein 2, both broadly shaded on medial side with black-brown; an oblique velvety-black streak as orbicular; reniform small, ochreous brown, inwardly edged



by a fine black line; the subterminal outcurved on vein 7, inbent just below 7 towards postmedial, enclosing a black-brown space, then incurved around cleft, followed by an ochreous shade, and perpendicular from vein 2 to inner margin, preceded by a black-brown shade; a dark terminal line. Hind wings black, a large white space from base in, beyond, and below cell, on which the median and veins 2-4 are black.

Expanse 30 mm.

*Hab.* Juan Vinas, Tuis, Sitio.

Allied to *T. dulcina*, Schs., which has the apex white.

*Megachyta rona*, sp. n.

♂. Body brownish grey, the abdomen terminally darker; body below whitish buff. Fore wings brownish grey, the lines black, fine, the antemedial slightly oblique from costa, perpendicular below median; a dark streak on discocellular; the postmedial very slightly outcurved beyond cell; a faint subterminal fuscous shade, faintly edged outwardly with white, which becomes a distinct white spot on costa; the outer margin darker grey; a terminal black line; cilia darker grey, with a pale line at base. Hind wings similar; a black discal spot; the postmedial line angled at vein 2. Fore wings below greyish; a black discal point; a white costal spot before apex; postmedial line and subterminal shade very faint. Hind wings below whitish; a discocellular streak; a fine outer line; a subterminal fuscous shade.

Expanse 18 mm.

Female similar, but darker and browner.

*Hab.* Carillo, Laguna, Tuis.

*Megachyta acutipennis*, sp. n.

♂. Body above dark greyish, with pale transverse striae on thorax and pale segmental lines on abdomen. Underneath whitish, irrorated with dark grey, the legs buff-white. Wings lilacine grey, with darker irrorations; an antemedial and a postmedial line wavy dark line; a sinuous subterminal dark shade; a terminal dark line, pale edged and interrupted by veins. Fore wings: a fine medial line; two white spots on discocellular; a small black apical spot. Fore wings below fuscous grey, a fuscous discal spot; a fuscous subterminal shade, broad and black from vein 6 to costa; terminal black points between veins. Hind wings below whiter, irrorated with dark grey; a discal point and traces of a subterminal fuscous shade. Fore wings acute.

Expanse 20 mm.

Female: Wings light brown and very similar to that sex of *M. anser*, Dr., but the two species can be readily separated by the markings underneath.

*Hab.* Carillo, Laguna.

*Hypena cachialis*, sp. n.

♂. Body fuscous; some greyish irrorations on palpi. Fore wings black-brown; a subbasal line, sinuous and slightly oblique outwardly, velvety brown inwardly edged with grey; orbicular and reniform as small black points; postmedial undefined black, very slightly incurved, defined by the broad whitish-grey shade which follows it, this shade becoming darker outwardly and crossed by a wavy and a lunular fuscous-brown line; a greyish shade from vein 6 to apex. Hind wings fuscous brown; cilia black. Underneath dull brownish; black discal points; an indistinct outer fuscous line; a subterminal black point below costa on fore wings; a vague subterminal fuscous shade on hind wings.

Expanse 32 mm.

*Hab.* Cachi.

*Hypena devexalis*, sp. n.

♂. Head, collar, and thorax lilacine brown, irrorated with whitish grey. Abdomen fuscous. Fore wings dull brown, shaded with buff-grey on postmedial space; lines greyish buff; antemedial oblique from costa, inset below submedian; postmedial oblique from costa, outcurved beyond cell and less so between 3 and 2; an outer vague fuscous shade, somewhat outcurved, followed by a dark space on costa; subterminal curved around costal space, outcurved below 6, and outbent below 2 to tornus; a terminal dark brown line interrupted by veins. Hind wings fuscous; a terminal black line. Fore wings below fuscous grey, irrorated with greyish; a subterminal black and white spot below costa. Hind wings below whitish grey, thickly irrorated with dull brown; a black discal point; a postmedial brownish line; both wings with a terminal black line, interrupted by pale points on veins.

Expanse 31 mm.

*Hab.* Juan Vinas, Cartago.

*Hypena ducalis*, sp. n.

♂. Palpi, head, and thorax brown, thickly irrorated with



whitish grey. Abdomen greyish brown. Fore wings pale lilacine brown; an oblique whitish-grey line from costa subbasally, inbent from just above submedian and straight on inner margin, then shaded outwardly by a fine dark brown line; a large medial chocolate-brown space to beyond cell, its outer edge slightly oblique on costa, incurved from vein 5, and not touching submedian; a fine line from its lower edge reaches middle of inner margin; a fine brownish postmedial line outcurved and slightly wavy; subterminal fuscous spots, edged with white outwardly, chiefly near costa; veins terminally with dark streaks; a terminal narrow dark brown shade; the costa medially rather lighter than dark medial space. Hind wings white; the margins broadly fuscous brown; a terminal dark brown shade near anal angle. Fore wings below fuscous; a subterminal white point below costa. Hind wings below white, the outer margin broadly fuscous.

Expanse 39 mm.

Hab. Cartago.

*Hypena frigida*, sp. n.

♂. Palpi, head, collar, thorax, and fore wing dark violaceous brown, finely irrorated with lilacine grey, less so on basal half of wing from below subcostal; an indistinct dark antemedial line, partly shaded with brownish scales; a similar sinuous medial line; an indistinct darker postmedial curved shade; subterminal dark spots, shaded with faint lilacine grey and marked by a distinct white point below costa. Hind wings white at base, the margins broadly black, gradually suffusing with the white; a black streak on discocellular. Fore wings below black; a subterminal white spot above vein 7. Hind wings below with the white extending to inner margin and nearer outer margin; a black discal point; a black postmedial line, most distinct near costa.

Expanse 37 mm.

Hab. Volcano Poas and Turrialba.

*Hypena gaudialis*, sp. n.

♀. Palpi, head, collar, and thorax lilacine brown, with whitish-grey irrorations and transverse striae. Abdomen grey-brown, thickly mottled with fine white irrorations. Fore wings lilacine brown, fuscous brown on apical area; a large oblique medial space, chocolate-brown, its inner edge oblique to submedian and finely edged with lilacine white, then outbent to below submedian, its outer edge outcurved to vein 4 at cell, then faintly incurved to costa, followed by a

white line and broad whitish space beyond cell, crossed by a brownish postmedial line, following contour of dark patch to inner margin; traces of subterminal spots and greyish irrorations from vein 4 to inner margin. Hind wings white, the margins broadly black. Fore wings below grey-black; a broad white patch beyond cell from vein 8 to vein 2. Hind wings below white, the margin broadly grey-black, irrorated with white, except basal half of costa, which is narrowly dark.

Expanse 30 mm.

Hab. Juan Vinas.

The sexes are similar.

*Hypena thontes*, sp. n.

♀. Palpi brown, thickly irrorated with grey. Head dull brown; collar and thorax reddish brown; abdomen fuscous brown; legs buff, irrorated with brown. Fore wings to beyond middle reddish brown, limited by a straight roseate white line, outwardly shaded with roseate grey; the outer margin broadly fuscous brown, crossed by a sinuous row of lunular black spots rather remote from margin; a black point at base of cell; a fine darker reddish-brown antemedial line, outwardly oblique from costa; a black point in middle of cell; a dark terminal line. Hind wings fuscous brown; a terminal darker line; some pale shadings on base of cilia.

Expanse 35 mm.

Hab. Juan Vinas, Sixola, La Florida.

Some specimens have a greyish shade at apex.