



THE ENTOMOLOGIST

VOL. XLVII.]

JUNE, 1914.

[No. 613

NEW SPECIES OF ARCTIADÆ AND NOCTUIDÆ FROM FORMOSA.

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NOLINÆ.

Nola fuscimarginalis, sp. n.

Fore wings whitish becoming dark fuscous on outer area beyond the wavy, double, postmedian line; costa edged with brown expanding into a blotch before the postmedial line. Hind wings fuscous. Under side fuscous.

Expanse, 20 millim.

Collection number, 243.

One male specimen from Garambi, November, 1904.

This species comes near *N. distributa*, Walk.

LITHOSIANÆ.

Asura albidorsalis, sp. n.

♂. Head and thorax whitish grey, abdomen rather darker. Fore wings blackish with a twice interrupted white patch on dorsal area, this extends from the base of the wing almost to tornus; postmedial band white, narrow, wavy; subterminal band whitish, wavy, diffuse towards apex and tornus. Hind wings whitish. Under side whitish clouded with blackish on fore wings; traces of a blackish transverse band about middle of costal area on hind wings.

♀. Similar to the male but the band on the fore wings is much broader, and encloses some spots of the ground colour.

Expanse, ♂ 32 millim., ♀ 33-36 millim.

Collection number, 1253.

One male from Arizan (7300 ft.), August, 1908; and three females from Rantaizan (7500 ft.), May, 1909.

Allied to *A. umbrosa*, Hampson.

Eugoa sinuata, sp. n.

Fore wings white with blackish lines; antemedial line not continued to dorsum, curved, projected inwards on costal area to a dot representing subbasal line on the costa; postmedial line commencing in a black triangle on the costa, sinuous, angled above the dorsum; subterminal line undulated, originating in a black costal triangle; two black dots at end of cell. Hind wings, and fringes of fore wings,

whitish with faint fuscous tinge. Under side whitish suffused with fuscous especially on fore wings.

Expanse, 32 millim.

Collection number, 1797.

One female specimen (minus head and abdomen) from Rantaizan (7500 ft.), May, 1909.

Parasiccia nebulosa, sp. n.

Fore wings whitish with faint ochreous tinge, finely sprinkled with black; a black patch on costal half of basal area, its outer edge irregular; antemedial line black, wavy, commencing in a black spot on the costa, interrupted above dorsum; postmedial line blackish, wavy, traversing black spots; subterminal line black, interrupted widely so below costa; a terminal series of linear black spots, and two black spots in the cell, the outer one largest. Hind wings whitish, fuscous tinged, a blackish lunule at end of cell. Under side of fore wings fuscous, of hind wings same as on upper side.

Expanse, 30 millim.

Collection number, 1265.

One male specimen from Arizan (7300 ft.), August, 1908.

Seems to come nearest to *P. maculifascia*, Moore.

AGROTINÆ.

Noctua taiwana, sp. n.

Head and thorax purplish brown, patagia rather darker; abdomen fuscous, terminal segment fringed with ochreous hairs. Fore wings dark purplish brown; antemedial and postmedial lines black, double, the former deeply indented above dorsum; subterminal line ochreous, undulated, inwardly edged with black; terminal area beyond the line with clusters of bluish scales on the veins and at costal extremity of subterminal line; orbicular stigma of the ground colour, ringed with black; reniform outlined in black and partly filled up with ochreous. Hind wings fuscous. Under side dark fuscous, all the wings have a darker discoidal mark and postmedial line.

Expanse, 40 millim.

Collection number, 1502b.

Two male specimens from Arizan (7300 ft.), August, 1908.

The cotype, not in such perfect condition as the specimen described, is browner in colour, and the markings on the terminal area are absent.

HADENINÆ.

Hadena variegata, sp. n.

Head and thorax brown, collar and patagia paler edged; antennæ ciliated. Fore wings brown clouded and mottled with darker and lighter brown; subbasal line black extending only to median nervure under which it runs to the incurved, black, antemedial line; postmedial line black, incurved, angled about middle; stigmata of the paler ground colour, outer edges still paler and pinkish tinged, reniform outlined in black, its upper part extending almost to costa,

a black cloud in lower part; beyond the reniform the veins are marked with black and there are black streaks between the veins before termen; fringes black between the veins, pale brown at ends of the veins. Hind wings white-brown powdered with darker, venation and discoidal spot black; fringes brown, paler tips. Under side pale brown clouded with blackish on disc of fore wings; a black discoidal spot and an indistinct postmedial line (dotted with black on veins) on hind wings.

Expanse, 40 millim.

Collection number, 1757.

One male specimen from Rantaizan, May, 1909.

Stretchia acronyctoides, sp. n.

♂. Head grey, palpi brown, antennæ serrate; thorax grey, streaked with grey on the sides; abdomen brown. Fore wings grey clouded and suffused with brownish, and powdered with whitish especially on the dorsal area; transverse markings not distinct, but there are traces of a blackish, serrated, postmedial line; a short black streak from the base under median nervure, another, in line with it, extends to the termen; a black linear mark on middle of dorsum, and black dashes between the veins on terminal area, those between veins 4 and 6 most in evidence; orbicular and reniform stigmata united, edged above with black; some black dots on the costa above the stigmata. Hind wings brownish grey, discoidal dot black. Under side brownish, black discoidal dot on all wings.

♀. Similar to the male but larger.

Expanse, ♂ 38 millim., ♀ 41 millim.

Collection number, 1682.

A male specimen from Arizan, May, 1908, and a female from Rantaizan, May, 1909.

Allied to *Stretchia saxea*, Leech.

Eriopyga conspecta, sp. n.

♂. Head and front of thorax brownish grey, rest of thorax whitish with faint brown tinge; palpi dark brown, third joint paler; abdomen brownish grey, hind segments darker, anal tuft yellowish. Fore wings white transversely clouded with grey on the outer half; a reddish brown mark on costa towards base, and another, also on the costa, just beyond the middle; the first mark broadly margined with black on its inner and lower edges, and, except on costa, narrowly on its inner edge; the second mark has a small black spot on each side of it on the costa, one on its inner edge, and a large one below the lower outer edge of which is produced; a black mark on the costa before apex with a few reddish brown scales before it, and a row of black dots on the termen, the latter placed between the veins. Hind wings blackish with traces of darker discoidal mark and transverse line. Fringes of all the wings white. Under side whitish tinged with brown on the fore wings and on costal area of the hind wings; a cluster of blackish clouds beyond middle of the fore wings; the hind wings have black discoidal spot and postmedial line, and the costal area is freckled with black.

Expanse, 30 millim.

Collection number, 1441.

A male specimen from Arizan (7300 ft.), August 18th, 1908.

Cirphis bipuncta, sp. n.

♀. Head whitish, palpi and antennæ pale brownish; thorax whitish mixed with pale brownish; abdomen whitish. Fore wings pale brown streaked with darker brown between the veins on the terminal area; median nervure white; two black dots in the cell, and a series of black points on termen; fringes of the darker brown shade. Hind wings white, a series of black points on termen. Under side of fore wings whitish suffused with brown on costal and terminal areas, a dusky shade under median nervure; hind wings as on upper side.

Expanse, 15 millim.

Collection number, 135.

One female specimen from Takou (200 ft.), August, 1904.

Near *C. polemusa*, Swinhoe.

ACRONYCTINÆ.

Craniophora picata, sp. n.

♂. Head grey, palpi black, grey at tips; thorax grey with black line on lower edge, collar marked with black; abdomen pale grey. Fore wings blackish with white patches towards the base, around the orbicular stigma, and on apical third of the wings; costa marked with grey, three white dots towards apex; antemedial and medial lines black, double, wavy, the medial apparently merged in the antemedial below the orbicular stigma; postmedial line black, double, wavy, curved round outer edge of the apical white patch, thence slightly oblique to the dorsum; subterminal line white, edged with dark grey, preceded on the costa by a quadrate blackish spot, intersected above middle and again before dorsum by blackish marks; orbicular and reniform stigmata fairly distinct, both pretty much of the ground colour, the latter partly and the former entirely outlined in white; a pale patch at base of dorsum with some deep orange scales on its upper edge; fringes dark grey chequered with white and marked with black. Hind wings whitish, the termen broadly suffused with smoky grey, a dusky discoidal spot and traces of a postmedial band; fringes chequered with smoky grey. Under side whitish, clouded with blackish on disc of fore wings; hind wings with bar from costa to the cell, a discoidal spot, and a spotted postmedial line, all blackish.

Expanse, 44 millim.

Collection number, 1764.

A male specimen from Rantaizan, May 14th, 1909.

This species seems closely allied to *C. ligustri*, Schiff.

Chytonix variegata, sp. n.

♂. Fore wings brownish grey, clouded with darker brown; sub-basal line black, oblique, not reaching dorsum; antemedial line black, oblique, bluntly angled above dorsum; postmedial line black, ex-

curved from costa to vein 4, thence oblique to dorsum: a white dot adjoining postmedial under vein 2, and a blackish diffuse streak from white dot to antemedial line; orbicular and reniform stigmata pale with dark centres; two short black streaks between veins 1 and 4; fringes dark grey, paler marked at ends of the veins, a black line at their base interrupted by the veins. Hind wings whitish powdered with brownish, densely on terminal fourth; discoidal lunule and postmedial line dusky; fringes pale, traversed by a dark central line. Under side whitish, sprinkled, and on fore wings clouded, with brownish; all the wings have a blackish discoidal mark and a postmedial line.

Expanse, 34 millim.

Collection number, 1742.

One male specimen from Rantaizan, May 9th, 1909.

Chytonix variegata albidisca, ab. n.

Differs from the type in having a large white patch on central area of fore wings extending from postmedial almost to antemedial line, it encloses the stigmata and unites with the typical white dot.

Expanse, 35 millim.

Collection number, 1743.

One male specimen from Rantaizan, May 10th, 1909.

C. variegata is closely allied to *C. albonotata*, Staud.

Chytonix olivacea, sp. n.

♂. Head and thorax dark grey, black mixed, antennæ ciliated; abdomen pale grey, whitish at base and on last segments. Fore wings pale olivaceous grey clouded with darker, costa marked with black; subbasal line black inwardly edged with white, nearly straight but indented below costa and above dorsum; antemedial and postmedial lines black, both wavy, the former double and angled above dorsum, the latter outwardly edged with white; subterminal line pale, undulated; reniform stigma outlined in white; fringes variegated with white, preceded by a series of black lunules. Hind wings whitish powdered with dark grey; discoidal spot blackish, traces of a dusky postmedial line; fringes paler. Under side whitish, disc of the fore wings suffused with blackish; discoidal mark and postmedial line on the hind wings blackish.

Expanse, 38 millim.

Collection number, 1753.

One male specimen from Rantaizan, May, 1909.

Euplexia albirena, sp. n.

♀. Head pale brown darker mixed, thorax dark brown mixed with blackish; abdomen brownish, the sides and crests darker. Fore wings purplish grey; subbasal line ochreous, indistinct except towards the costa, where it is inwardly edged with black, some black marks beyond the indistinct lower half; antemedial and postmedial lines ochreous edged with black, the enclosed space below the cell rather darker than the ground colour; subterminal line ochreous, wavy; orbicular stigma, which is preceded and followed by a black quadrate

spot, is faintly outlined in ochreous and extends to the black outlined claviform stigma; reniform stigma white, its outer side straight, some brownish dots at each extremity; a white spot on the costa above the reniform and four white dots nearer the apex; beyond the reniform is a brownish clouded ochreous patch, outwardly limited by the postmedial line; on the costal area between the postmedial and subterminal line is a transverse white streak followed by a black one; black lunules alternating with ochreous dots on termen; fringes blackish, ochreous at base. Hind wings fuscous with dusky discoidal spot and two lines beyond, both lines edged externally with white on vein 2. Under side fuscous; all the wings have a discoidal mark and two transverse lines, the mark on fore wings and the outer line on hind wings are white.

Expanse, 38 millim.

Collection number, 1750.

Two female specimens from Rantaizan, May, 1909.

This species come near *E. albonota*, Hampson.

Laphygma connexa, sp. n.

♂. Head brown, palpi brown grey mixed; thorax grey, edge of collar paler; antennæ ciliated. Fore wings grey clouded with blackish; subbasal and antemedial lines indistinct, white edged with black, the subbasal only traceable on the costa, the antemedial interrupted below the costa and at dorsum; postmedial line white inwardly edged with black, sinuous, interrupted at the veins; subterminal line white, double, almost parallel with the termen, preceded and followed by black marks; orbicular and reniform stigmata white, grey centred, lower ends united by white streak along median nervure; fringes grey marked with white at ends of veins. Hind wings silky white. Under side silky white, the fore wings suffused with blackish on the disc; fringes as on upper side.

♀. Similar to the male but larger; the markings less clearly defined.

Expanse, ♂ 22 millim., ♀ 30 millim.

Collection number, 1403.

One example of each sex from Kanshirei; the male captured on November 10th, 1909, and the female in the previous month.

Allied to *Laphygma apertura*, Walk.

Micromonodes? ochreipuncta, sp. n.

♀. Head pale grey, palpi blackish; thorax and abdomen grey. Fore wings whitish grey, basal two-thirds suffused and clouded with darker; subbasal and antemedial lines blackish, not clearly defined; postmedial line whitish edged on each side with dark grey, sinuous; subterminal line whitish, angled before middle and above dorsum; orbicular and reniform stigmata indistinct, connected by a black bar; claviform stigma represented by a pale ochreous round spot, outlined in black; fringes grey mixed with black, preceded by a black line on termen. Hind wings grey, fringes paler. Under side grey, costal and terminal areas of fore wings sprinkled with whitish scales; hind

wings rather paler than fore wings; discoidal spot and postmedial line black but not distinct.

Expanse, 26 millim.

Collection number, 242 c.

A female specimen from Rantaizan, May 14th, 1909.

Archanara punctivena, sp. n.

♂. Head and thorax black sparsly mixed with ochreous; abdomen brownish, paler at base. Fore wings black-brown, dotted with white on the veins; an ochreous streak from the base passes through the reniform stigma and broadens out beyond it, some ochreous scales above the streak; antemedial line indicated by black dots; postmedial line black, wavy, inwardly oblique from vein 4 to dorsum; reniform stigma of the ground colour, its lower half partly outlined in white; fringes rather paler, grey mixed, preceded by a black line. Hind wings whitish with a faint dusky suffusion, traces of a dusky postmedial line. Under side of fore wings leaden grey with dusky discoidal spot and transverse line beyond: of hind wings whitish powdered with brownish on costal area, discoidal spot and line beyond blackish.

♀. Similar to the male but rather browner in colour and with more ochreous above the streak; the white outline of lower half of reniform stigma less distinct. Hind wings whiter.

Expanse, ♂ 25 millim., ♀ 30-32 millim.

Collection number, 620.

A male specimen from Kanshirei, November 13th, 1908, and two females from the same locality, August 13th and 26th, 1908.

ERASTRIANÆ.

Oruza albigutta, sp. n.

♂. Head and palpi black; thorax brown, paler in front; abdomen missing; fore wings brown, finely irrorated with grey, ochreous tinged on central area especially on basal half; antemedial and postmedial lines formed of white dots, the antemedial indistinct towards costa, the postmedial double excurved from costa to middle thence incurved to dorsum; medial line black, angled below cell and near dorsum; subterminal line pale, irregular, area beyond suffused with dark brown; fringes dark mixed with pale brown, preceded by a series of black outlined white dots. Hind wings brown, pale on costal area; discoidal mark white, linear, inwardly edged with blackish; postmedial line represented by double series of white dots, absent on costal area; subterminal line ochreous brown, diffuse towards costa, maculate towards dorsum: fringes as on fore wings. Under side white-brown, clouded and suffused with darker; traces of transverse lines, a pale spot at costal end of the postmedial line on forewings.

Expanse, 20 millim.

Collection number, 1388.

A male specimen from Kanshirei, April 17th, 1908.

Hyposada albicosta, sp. n.

♀. Head and thorax cinnamon brown, the latter marked with white behind collar: abdomen cinnamon brown, edges of segments white. Fore wings cinnamon brown, costa white with four black dots before apex; a black-ringed white spot at outer end of the cell; postmedial line blackish, slightly excurved below the costa, thence oblique to dorsum; subterminal and terminal lines represented by series of black dots. Hind wings cinnamon brown, discoidal spot black; postmedial line and black dots on terminal area as on fore wings. Fringes of all the wings pale. Under side whitish suffused with fuscous.

Expanse, 22-24 millim.

Collection number, 551.

Two female specimens from Kanshirei, one taken April 29th, the other August 16th, 1905.

Lithacodia postvittata, sp. n.

♂. Head and palpi brown, the latter marked with darker; thorax brown marked with darker, tips of collar and patagia whitish; tarsi pale brown, barred in front with blackish; antennae ciliated. Fore wings brown clouded with darker, a white dot at base of costa; antemedial line black, inwardly pale edged, curved round orbicular stigma, angled below; postmedial line black outwardly pale edged, obtusely angled below costa; subterminal line pale, undulated, indistinct towards dorsum; the space between postmedial and subterminal lines, except on costal area, pale, suffused with greyish; orbicular and reniform stigmata pale, dark outlined; a black line from base of the wing to subterminal line passes through the cell; fringes brown faintly pale chequered, preceded by pale edged black lunules. Hind wings fuscous, discoidal mark darker; fringes rather paler than those of fore wings, traversed near their base by a dark line. Under side of fore wings fuscous, paler on costa; discoidal mark blackish, postmedial line pale and rather broad on the costa; hind wings whitish powdered with fuscous except on dorsal area; discoidal spot and wavy postmedial line blackish.

♀. Similar to the male but the pale edging of transverse lines rather broader on costa.

Expanse, ♂ 26 millim., ♀ 30 millim.

Collection number, 622.

Two male specimens and one female from Kanshirei. The males were obtained in June, 1906, and April, 1909; the female in May, 1907.

This species comes near *L. cœnia*, Swinhoe.

Eustrotia bipartita, sp. n.

♂. Head pale brown mixed with darker, palpi dark brown, the third joint and part of second paler; thorax pale brown, front darker marked; abdomen pale brown darker mixed. Fore wings pale brown on basal half, suffused with darker on outer half; subbasal line dark brown, originating in a linear spot on the costa, not traceable below middle of the wing; antemedial line dusky,

double, slightly wavy, elbowed below middle; postmedial line dusky, double, irregular; a dark triangular mark, partly outlined in black, on costa; traces of a black medial line set in a brownish cloud below triangle; subterminal line blackish, undulated, dentate below costa, preceded on costa by a conspicuous black mark; slender black lunules on termen, fringes dark. Hind wings fuscous with traces of a darker discoidal mark. Under side whitish powdered with brown except on the dorsal areas; a blackish discoidal mark on each wing, and traces of a dusky postmedial line on the hind wings.

Expanse, 20 millim.

Collection number, 1387.

A male specimen from Kanshirei obtained April 29th, 1908.

Appears to come near *E. isomera*, Hampson.

SARROTHRIPINÆ.

Nanaguna sordida, sp. n.

Head white, palpi pale brown; thorax pale brown flecked with paler. Fore wings pale brown clouded with darker on medial and terminal areas; antemedial line blackish, indented below costa and before termen; postmedial line elbowed beyond end of cell thence gently incurved to dorsum, white with black inner edge, most distinct towards dorsum; reniform stigma pale brown enclosing blackish lunule; a black line on termen; fringes pale brown with darker line before the tips. Under side fuscous, hind wings and dorsal area of fore wings paler.

Expanse, 16 millim.

Collection number, 555.

One female specimen, Tainan, June 13th, 1905. Comes near *N. basalis*, Moore.

ACONTIANÆ.

Westermannia obscura, sp. n.

♂. Head white, antennæ brown, white at base; thorax and abdomen brownish grey, the former rufous tinged. Fore wings purplish grey inclining to brownish on the terminal area; costa (narrowly) and dorsal area, from base to postmedial line, pale brown slightly rufous tinged; a somewhat conical brown spot in the cell near its outer extremity, and a larger spot below it, both outlined in whitish; postmedial line whitish, excurved from costa to vein 5, thence onwardly oblique to dorsum; a brown spot before the tornus outlined in whitish; subterminal line blackish, wavy. Hind wings pale brownish outwardly suffused with dusky. Under side pale brown suffused with blackish, except on the costal area of the wings; two pale dots at end of the cell on fore wings.

Expanse, 34 millim.

Collection number, 174.

Two male specimens from Kanshirei, March, 1908.

This species is very close to *W. superba*, Hübn., from which it is chiefly distinguished by the more slender spot at end of cell, the gently curved not elbowed, postmedial line, and the general dingy coloration.



Wileman, A. E. 1914. "New species of Arctiadae and Noctuidae from Formosa." *The Entomologist* 47, 161–169.

<https://doi.org/10.5962/bhl.part.15124>.

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