

III. *On Lepidoptera from the Malay Archipelago.*
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[Read Nov. 3rd, 1896.]

IN the Society's Transactions for 1894, pp. 455-480, I recorded some notes on a collection of *Pyralidina* from Sambawa, Celebes, and Borneo. In the present paper are included the species of the Geometroid families of *Notodontina* which belonged to the same collection; as well as those of both groups from the islands of Sangir and Talaut. These, like the former, were collected by Mr. W. Doherty, and the types are in the possession of Mr. H. J. Elwes.

HYDRIOMENIDÆ.

Sauris abortivata, Guen. S.E. Borneo.

S. hirudinata, Guen. Sambawa.

S. proboscitaria, Walk. (?). Sangir.

Chleroclystis recensitaria, Walk. Sambawa.

CARBIA, Walk.

Face with cone of scales. Palpi moderate, porrected, smooth-scaled, terminal joint rather long. Antennæ in ♂ filiform, simple. Abdomen with series of small dorsal crests. Posterior tibiæ with all spurs present. Forewings with areole simple. Hindwings with 6 and 7 separate at origin.

C. calescens, Walk. S.E. Borneo. The ♀ differs from the ♂ in being considerably smaller (♂ 22 mm., ♀ 16 mm.), with the forewings duller, the white subterminal line straight on upper half, not waved as in ♂, the hindwings grey (in ♂ ochreous-yellow).

Pomasia euryopis, sp. n.

♂ 21 mm. Forewings unusually broad, with the whole disc thinly scaled and irregularly contorted or crumpled in shallow grooves, complicated by a transverse impression below middle; cell much deformed, longest at lower angle, where it reaches $\frac{4}{5}$ from base, lower margin rather strongly curved upwards, thickened to

form a stout ridge beneath from base to $\frac{4}{5}$ of cell, where it gives off a bent *additional* vein, which appears to be 1c.; pale whitish-ochreous, suffused with orange-ochreous towards costa and termen; six fasciæ of irregular bisinuate partly confluent brown striæ, first four of about three striæ each, fifth of two (three on costa), sixth of one: cilia pale orange. Hindwings with colour and markings as in forewings, but not orange towards costa; first and second fasciæ absent, an irregular clear discal space between third and fourth.

Pulo Laut; one specimen.

P. gelastis, sp. n.

♂ 16 mm. Anal claspers large. Forewings whitish-ochreous, orange-tinged, suffused with bright orange towards costa and termen; six fasciæ of irregular bisinuate partly confluent dark brown striæ, black-dotted on costa, first four of about three striæ each, fifth of two, sixth of one: cilia orange, with blackish bars at apex, in middle, and above tornus. Hindwings as forewings, but not orange towards costa; first and second fasciæ absent, an irregular clear discal space between third and fourth containing a dark fuscous discal dot.

Pulo Laut; one specimen.

P. vernacularia, Guen. Pulo Laut.

Physetobasis heliocomma, sp. n.

♀ 31 mm. Head orange-ochreous, face dark fuscous except on margins. Forewings grey with slight greenish and purplish reflections, whitish-suffused towards disc posteriorly; subbasal, antemedian, and postmedian curved transverse series of irregular blackish-grey spots; a black transverse-oval discal spot; subterminal line faint, cloudy, grey-whitish: cilia grey. Hindwings whitish; a grey discal mark; a postmedian series of three blackish-grey spots on dorsal half, and a grey subcostal spot; a suffused grey terminal fascia.

Sambawa; one specimen.

Eucymatoge ghosha, Walk. Talaut.

Anthyria pictaria, Moore. Sambawa.

A. lunulosa, Moore. Pulo Laut.

A. grataria, Walk. Sangir.

A. metriopis, sp. n.

♂ 23 mm. Head ochreous-brown, fillet white. Antennæ white, ringed with dark grey, pectinations dark grey. Forewings light fuscous, slightly purplish-tinged; costa posteriorly yellowish-

tinged; about twelve evenly distributed darker striæ; a dark fuscous discal dot; a pale yellow transverse mark towards termen above middle: cilia whitish-yellowish, with a fuscous subbasal line. Hindwings as forewings, but without yellow mark.

Pulo Laut; one specimen.

STERRHIDÆ.

Eois procrossa, sp. n.

♂ 12 mm. Head pale ochreous, fillet whitish, face dark fuscous. Antennæ serrate, cilia $1\frac{1}{2}$. Posterior tarsi 1, tibial tuft large. Forewings pale whitish-ochreous, thinly sprinkled with dark fuscous; costal edge fuscous on basal third; first, median, and second lines faint, slender, fuscous, first and second forming small dark fuscous spots on costa; a dark fuscous discal dot before median line; a terminal series of minute blackish dots: cilia pale whitish-ochreous. Hindwings as forewings, but lines not traceable, except that second line forms small dark fuscous costal and dorsal spots.

Sambawa; one specimen.

Leptomeris aspilataria, Walk. Sambawa.

L. remotata, Guen. Sambawa.

L. crossophragma, Meyr. Sambawa.

L. opicata, Fabr. Talaut.

Chrysocraspeda permutans, Hamps. S.E. Borneo.

C. orgalea, sp. n.

♂ 15 mm. Structure as in typical section. Head crimson-fuscous, fillet white. Forewings dull purple; a small irregular yellow spot in disc at $\frac{3}{4}$; an irregular deep yellow streak along termen and posterior part of dorsum, forming a projection inwards in middle of termen, and terminating in a quadrate spot in middle of dorsum; a terminal series of purple dots: cilia yellow, tips paler. Hindwings with termen rounded-angulated in middle; dull purple; a yellow discal dot at $\frac{1}{3}$; an irregular yellow terminal streak, dilated at apex; terminal dots and cilia as in forewings.

Pulo Laut; one specimen.

HETEROCTENIS, gen. n.

Face smooth. Palpi short, porrected, with appressed scales. Antennæ in ♀ (probably, therefore, in ♂ also) thickened with

scales near base, unipectinated, apical third simple. Posterior tibiae in ♀ with all spurs present. Forewings with 10 out of 9, 11 anastomosing strongly with 9, forming small simple areole. Hindwings with 3 and 4 connate, 6 and 7 connate or short-stalked.

Allied to *Chrysocraspeda*. Type, *H. dracontias*.

H. dracontias, sp. n.

♀ 24 mm. Antennal pectinations 5, slender. Forewings deep yellow, with a few ferruginous scales; a large dorsal patch, bounded by an outwards-curved line from near base of costa to tornus, and a large circular subapical blotch purplish-ashy, edged first with deeper purple and then with ferruginous, and connected in disc by a short ferruginous bar; a terminal series of ferruginous dots: cilia pale yellow. Hindwings purplish-ashy; two dark fuscous dots transversely placed in disc, and a dot of black scales between these; a rather narrow deep yellow terminal fascia, edged anteriorly first with ferruginous and then with deep purple; terminal dots and cilia as in forewings.

S.E. Borneo; one specimen.

H. tigrina, sp. n.

♀ 23 mm. Head orange, face and fillet yellow-whitish. Antennal pectinations 2, very thick. Forewings with termen bowed; yellow, suffusedly strigulated with ferruginous-orange; anterior portion of disc nearly clear; a very broad purple post-median fascia, not reaching costa, posterior edge forming a broad rounded projection below middle: cilia pale yellow. Hindwings with termen subdentate; yellow, suffusedly strigulated with ferruginous-orange; base suffused with purple; a very broad fascia of purple suffusion, occupying from $\frac{2}{5}$ to $\frac{4}{5}$, posterior edge projecting in middle and below costa; two dots transversely placed in disc, upper blackish, lower dark purplish: cilia pale yellow.

S.E. Borneo; one specimen.

Perixera syntona, Meyr. (*intermixtaria*, Swinh.). Pulo Laut.

P. suspicaria, Snell. Sangir.

P. homostola, sp. n.

♂ 34 mm. Head light reddish-fuscous, fillet whitish. Posterior tibiae moderate, slender, without tuft. Forewings ochreous, slightly

reddish-tinged, obscurely strigulated with light reddish-fuscous ; first, second, and subterminal lines faintly indicated, median rather thick, faint, pale fuscous ; a fuscous discal mark ; a terminal series of fuscous dots : cilia ochreous, tips paler. Hindwings as forewings, but first and median lines absent, a small dark fuscous white-centred discal spot.

Talaut ; one specimen.

Calothyssanis aventiaria, Guen. Sambawa, Sangir.

Alex palparia, Walk. Pulo Laut, Sambawa, Celebes.

GEOMETRIDÆ.

Comostola inductaria, Guen. Sambawa.

C. rubrolimbaria, Guen. S.E. Borneo.

PROBOLOSCELES, gen. n.

Face smooth. Palpi moderate, porrected, second joint rough-scaled. Antennæ in ♂ strongly bipectinated, apical third simple. Posterior tibiæ with all spurs present, in ♂ with very long stout projection from apex above tarsus. Forewings with 10 out of 9, 11 free. Hindwings with frenulum ; 3 and 4 stalked, 6 and 7 stalked, 8 appressed to cell to middle.

P. quadrinotata, Butl., Ill. Het., vii., p. 105, pl. 136, fig. 7.

Talaut ; one specimen. The dark patches are small.

Uliocnemis partita, Walk. Sambawa.

Thalassodes phrixopa, sp. n.

♂ 21 mm. Head green, fillet and margins of face white. Abdomen with a white raised dorsal spot near base. Forewings green, with numerous obscure hyaline strigulæ ; costal edge dark fuscous ; white subcostal and subdorsal antemedian dots ; a blackish-grey discal dot ; subterminal and terminal series of white dots : cilia green, tips whitish, costal cilia dark fuscous, becoming white near before apex. Hindwings with colour, discal dot, terminal dots, and terminal cilia as in forewings.

Sambawa ; one specimen.

Epipristis nelearia, Guen. Celebes.

ORTHOSTIXIDÆ.

Ozola macariata, Walk. Sambawa.

O. dissimilis, Warr. Talaut.

O. extersaria, Walk. Talaut.

O. spilotis, sp. n.

♂ 29 mm. Abdomen whitish-ochreous, with two rows of blackish spots. Forewings with termen not sinuate; whitish; a rather broad grey stripe along costa throughout, lower edge very irregular, extending at base to dorsum; first and second lines represented by dorsal and subdorsal grey spots; subterminal and terminal series of grey spots, former interrupted below middle, towards apex connected by a light grey suffusion. Hindwings whitish; a grey blackish-centred discal spot; second line represented by small grey spots or dots towards costa and dorsum; subterminal and terminal series of grey spots.

Sambawa; one specimen.

Rambara ochreicostalis, Hamps. Pulo Laut, Sangir.

R. saponaria, Guen. Sambawa.

R. satelliata, Walk. Talaut.

Noreia perdensata, Walk. Pulo Laut.

MONOCTENIADÆ.

Eumelea rosalia, Cram. Sangir.

CANONISTIS, g. n.

Face with short cone of scales. Antennæ in ♂ unipectinated, apex simple. Forewings with 10 and 11 stalked, 12 anastomosing with stalk of 10 and 11. Hindwings with 6 and 7 approximated at base.

C. rectilineata, Guen., x., p. 18. Pulo Laut.

SELIDOSEMIDÆ.

Opisthograptis emersaria, Walk. Sambawa.

O. isospila, Meyr. Sambawa. Possibly an extreme variety of *O. emersaria*.

Corymica arnearia, Walk. Pulo Laut.

Plutodes pardaria, Guen. Sangir.

P. hilaropa, sp. n.

♂ 22 mm. Forewings yellow ; several purplish-ashy ferruginous-edged spots towards base ; a purplish-ashy ferruginous-margined irregular-edged antemedian fascia, much attenuated on dorsum, posteriorly confluent above middle with an 8-shaped ferruginous discal mark ; second line formed of ferruginous spots, irregular, interrupted above middle ; beyond this an S-shaped purplish-ashy ferruginous-edged band from costa to middle ; subterminal ferruginous spots on dorsal half ; a double alternating terminal series of ferruginous spots : cilia yellow, indistinctly barred with ferruginous. Hindwings yellow ; a ferruginous mark near base ; a purplish-ashy ferruginous-edged antemedian fascia on dorsal half, dilated dorsally ; second and subterminal lines formed by series of ferruginous spots, latter interrupted by a larger purplish-ashy ferruginous-edged spot above middle ; terminal spots and cilia as in forewings.

Pulo Laut ; one specimen.

Diastictis separata, Walk. Sambawa.

D. schistacea, Walk. S.E. Borneo.

D. subexpressa, Walk. Pulo Laut.

D. microdoxa, sp. n.

♂ 18 mm. Head whitish, fillet and a median bar on face black. Forewings white, irregularly strewn with fine fuscous strigulae ; first and median lines indistinct, but forming small dark fuscous spots on costa ; second line fuscous, sinuate outwards above and below middle ; a dark fuscous discal dot on median line ; subterminal line indicated by fuscous marks, only distinct towards costa : cilia whitish, irrorated with pale fuscous. Hindwings with termen waved ; white, irregularly strewn with fine fuscous strigulae towards costa and termen ; a dark fuscous transverse antemedian suffusion in disc ; a transverse dark fuscous discal mark ; second and subterminal lines and cilia as in forewings.

Pulo Laut ; one specimen.

D. sublavaria, Guen. Sambawa.

Ectropis biundularia, Esp. Sambawa.

E. petras, sp. n.

♂ 23 mm. Head light greyish-ochreous, fillet and a median band of face mixed with brown. Antennae with fascicles of long

cilia rising from minute paired projections. Forewings pale greyish-ochreous, thinly sprinkled with white, brown, and dark fuscous; first and second lines parallel, curved, bisinuate, dark brown, marked with dark fuscous dots on veins and costa, first preceded and second followed by a brown shade; median brown, rather irregular, indistinct on dorsal half, traversing an indistinct dark fuscous discal dot, and marked with another on costa; a suffused darker spot on middle of shade following second line, followed by an indistinct pale suffusion; subterminal line pale, wavy, margined with brown and anteriorly on upper half with dark fuscous, interrupted in middle; a terminal series of dark fuscous dots: cilia ochreous-whitish, basal half obscurely spotted with fuscous. Hindwings with termen wavy; colour and markings as in forewings, but first line absent, median indistinct, second less marked, not followed by darker median spot.

Pulo Laut; one specimen.

Luxiaria ditrota, sp. n.

♀ 36 mm. Forewings with apex subacute, termen slightly sinuate; whitish-ochreous, with thinly scattered dark fuscous scales; a faint brownish tinge towards base; lines very faint, brownish, first nearly straight, with indistinct darker dots on veins, median hardly traceable, second angulated above middle, darker-dotted on lower half, between angle and dorsum, followed by a suffused brownish shade; subterminal line faintly indicated, its anterior margin marked by two large dark fuscous dots opposite angle of second line; a terminal series of dark fuscous dots. Hindwings with termen wavy, slightly angulated in middle; colour and markings as in forewings, but first line absent, a fine short dark fuscous linear discal mark before median, second not angulated, hardly curved, the following shade nearly reaching costa, subterminal line without the two dark fuscous dots.

Sambawa; one specimen. I possess this species also from Halmahera.

L. exclusa, Walk. S.E. Borneo.

Selidosema acaciaria, Boisd. Sambawa.

S. propulsaria, Walk. Sambawa.

Tigridoptera monochrias, sp. n.

♂ 53 mm. Head and thorax blue-grey. Abdomen ochreous-yellow, basal segment blue-grey. Forewings blue-grey; a deep yellow-ochreous basal blotch, not quite reaching costa, followed on upper half by two black spots; first and second lines thick, black,

bent above middle, median similiar but indistinct and partially obsolete, traversing a roundish black discal spot; two posterior series of roundish black spots, second indicating anterior margin of subterminal line. Hindwings blue-grey; first and second lines thick, black, rather sinuate, second interrupted in disc; discal spot and two posterior series as in forewings.

Sangir; one specimen.

T. ptochopis, sp. n.

♂ 50 mm. Head and thorax whitish-grey. Abdomen dull ochreous-yellowish, suffused with whitish-grey towards base. Forewings whitish-grey, subdorsal fold obscurely tinged with dull ochreous suffusion; black subcostal and subdorsal spots at base; a small black subcostal spot at $\frac{1}{7}$, and another beneath it; first and second lines formed by series of small black spots, bent above middle; median slender, blackish-grey, angulated beneath costa, interrupted on fold; a small transverse-oval black discal spot before median; a faint grey line beyond second; anterior margin of subterminal line represented by a series of small black spots. Hindwings as forewings, but without basal or subbasal spots, or median line; no subdorsal ochreous suffusion, but a similar one occupying median fold.

Sangir; one specimen.

Synegia botydaria, Guen. Pulo Laut.

S. imitaria, Walk. Pulo Laut.

Hyposidra janiaria, Guen. Sambawa.

H. talaca, Walk. Sangir.

H. afflictaria, Walk. Talaut.

Abraxas sylvata, Scop. Sambawa.

A. labraria, Guen. Sambawa.

Buzura nephelistis, sp. n.

♂ 63 mm. Head and thorax yellow-ochreous, face mixed with fuscous. Antennal pectinations 3, apical $\frac{2}{5}$ simple. Forewings with termen almost straight, rather strongly oblique; light ochreous-yellowish, clouded with deeper; basal and median areas almost wholly occupied by broad bandlike suffusions of dark grey irroration; posterior edge of second line indicated by an incomplete fascia of dark grey irroration following it, abruptly sinuate outwards above middle, and more gently inwards below it; subterminal line faintly paler, waved, posteriorly margined above

middle by a terminal patch of dark-grey suffusion. Hindwings with colour as in forewings; an ill-defined broad median fascia of dark grey irroration, becoming obsolete dorsally.

Talaut; one specimen.

Ephoria xanthocolona, sp. n.

♂ 24 mm. Head brownish-orange, fillet pale yellow. Antennæ white, hardly subdentate, shortly ciliated. Forewings dull ashy-purple, becoming crimson on margins of yellow markings; a rather broad bright yellow costal band from base almost to apex, narrowed towards base, lower edge irregular, forming a triangular projection before middle, and twice sinuate beyond it; a bright yellow terminal streak from apex to above middle, not quite reaching costal band at apex: cilia purple, opposite terminal streak yellow. Hindwings dull ashy-purple; costal area broadly light ochreous-yellowish: cilia dull purple.

S.E. Borneo; one specimen. This species, nearly allied to the Japanese *E. formosa*, differs from it and the rest of the genus in the absence of antennal pectinations, which are however short and tending towards disappearance in them also; in other details of structure it coincides exactly, and does not call for generic separation.

Lomographa eogenaria, Snell. Pulo Laut.

Deilinia chlorochroa, sp. n.

♂ 20-23 mm. Head and thorax pale greenish-ochreous. Forewings with vein 10 out of 9, connected with 12, and anastomosing with 9, 11 out of 10 between connexions; dull light green, with fine scattered dark fuscous strigulae; first and second lines curved, somewhat waved, dark fuscous; a dark fuscous discal dot. Hindwings as forewings, but first line absent.

Pulo Laut; one specimen. This is in poor condition; the above description has therefore been made from a better example, which I possess, from Burma. The neuration of the forewings, as given above, shows some details of acquired complexity differing from the normal type; but as all the typical points of structure are present (the fovea of the hindwings is small and inconspicuous, but distinct), there is no occasion to separate the species generically.

Eulepidotis fimbriata, Cram. Pulo Laut.

E. hortensiata, Guen. Pulo Laut.

E. guttaria, Boisd. Pulo Laut.

Euchlæna pyrotoca, sp. n.

♂ 22 mm. Head and thorax dark fuscous. Forewings with termen bowed and slightly prominent in middle; dark fuscous; first and second lines darker, bent near costa; a darker discal spot. Hindwings bright orange; a wedge-shaped dark fuscous subdorsal streak, broadest at tornus, attenuated to base, occupying about $\frac{1}{4}$ of wing.

Talaut; one specimen.

E. pallida, Moore. Sambawa.

E. pachiaria, Walk. Sambawa.

E. imbutaria, Walk. Celebes.

E. maculifera, Feld. Sangir, Talaut.

E. vestigiata, Snell. Celebes, Talaut.

GALLERIADÆ.

HARPAGONEURA, Butl.

I have not been able to verify the structural characters of Butler's type, but have little doubt that the following species is truly congeneric with it; to prevent misapprehension, however, I add the leading structural characters of my species (applicable to ♂ only), viz.:

Forewings with apex contorted; on upper surface with a short subcostal groove before apex, enclosing a short dense expansible tuft of hairs covered over with broad scales; cell very large, reaching $\frac{5}{8}$ of wing, transverse vein angulated outwards in middle, 5 from the angulation, widely remote from 4, 7 and 8 out of 9. Hindwings with long pencil of hairs on upper surface from base of costa, lying beneath forewings; 5 absent, transverse vein absent, 7 anastomosing shortly with 8.

H. acrocausta, sp. n.

♂ 28 mm. Head and thorax ochreous-whitish. Forewings elongate, apex obtuse, termen vertical, rounded; whitish-ochreous, faintly pinkish-tinged, with some scattered dark fuscous scales; traces of antemedian and postmedian discal spots; a rather narrow dark coppery-fuscous terminal streak, anterior edge straight: cilia

pale ochreous-brown, with a black interrupted subbasal line. Hindwings ochreous-yellow, thinly scaled: cilia pale yellowish, tips whitish.

Sangir; one specimen.

Heteromicta rufivena, Walk. Sangir.

Picrogama anticosma, sp. n. Sangir.*

ANTIPTILOTTIS, gen. n.

Palpi in ♂ short, curved, ascending. Antennæ in ♂ simple, basal joint with broad projecting anterior flap of scales. Thorax with posterior crest. Forewings in ♂ beneath with subcostal groove towards base, enclosing dense expansible pencil of hairs, concealed by long loose hairs from adjoining surface; 4 and 5 connate, 6 approximated to 7 at base, 8, 9, 10 out of 7. Hindwings in ♂ above with subdorsal groove towards base, enclosing pencil of dense hairs; 5 rather remote from 4, 7 out of 6 near origin, shortly approximated to 8.

A. rubicunda, sp. n.

♂ 25 mm. Head and thorax whitish. Forewings elongate-oblong, termen rather oblique, rounded; rosy-whitish, with scattered dull rosy scales, towards costa and on dorsum somewhat mixed with pale yellow-ochreous; first and second lines and two dots longitudinally placed in disc yellow-ochreous, very indistinct; an indistinct suffusion of reddish-brown scales towards termen below middle: cilia rosy-whitish suffused with yellow-ochreous and sprinkled with dull rosy. Hindwings light dull rosy; subdorsal hair-pencil blackish-grey: cilia light ochreous.

Sangir; one specimen.

CRAMBIDÆ.

Autarotis euryala, Meyr. Sangir.

THALAMARCHIS, gen. n.

Face rounded; ocelli present; tongue developed. Labial palpi long, porrected, triangularly scaled. Maxillary palpi moderate, triangularly dilated. Antennæ in ♂ subdentate, shortly ciliated. Abdomen in ♂ with dorsal tuft of flocculent hairs near base, concealed by flat scales. Forewings with 4 and 5 closely approximated at base, 9 absent, 11 absent. Hindwings in ♂ above with long pencil of hairs from base of costa, concealed beneath forewings, a loose subdorsal pencil of long hairs, and an expansible

* See Addendum (p. 91).

tuft of short hairs at tornus ; 4 and 5 short-stalked, 7 out of 6 near origin, connected with 8 at a point before middle.

T. chalcorma, sp. n.

♂ 16 mm. Head white. Palpi orange, tips white. Thorax grey-whitish. Forewings moderate, subtriangular, termen vertical, rather sinuate inwards on upper half, and with an indentation above middle ; pale silky-grey, with indistinct spots of whitish-ochreous suffusion towards dorsum before and beyond middle ; an orange outwardly-oblique wedge-shaped mark on middle of costa ; a triangular orange apical patch, extending on costa from $\frac{3}{5}$, and on termen to indentation, cut by two white lines from costa, first angulated inwards, second curved inwards ; a fine paler line near before termen on lower half, anteriorly finely edged with dark grey ; a coppery-metallic streak along lower half of termen, preceded by five black dots separated by ochreous-yellowish interspaces : cilia on upper half of termen orange, base shining white, on lower half coppery-metallic, at tornus pale orange. Hindwings whitish-ochreous, greyish-tinged ; hair-pencils light yellow-ochreous ; a dark fuscous terminal line round apex : cilia whitish-ochreous, round apex whitish.

Sangir ; one specimen.

PYRAUSTIDÆ.

Mixophyla xanthocasis, sp. n.

♀ 10–12 mm. Head and thorax white. Palpi white, second joint fuscous above, terminal joint dorsally flattened, obtuse loosely scaled at sides. Forewings with distinct indentation above middle of termen ; white ; median line light fuscous, angulated, thickened on dorsum ; terminal area broadly suffused with ochreous-yellow, most widely on costa, where it encloses two oblique whitish spots, below middle enclosing a transverse-oval white spot, marked anteriorly with two short dark fuscous lines (first indistinct) representing margins of second line, and posteriorly with three dark fuscous subterminal dots, uppermost smallest : cilia shining greyish-ochreous, white at tornus and on basal half round apex, with a blackish subbasal line except on indentation and at tornus. Hindwings whitish-grey : cilia white.

Sangir ; two specimens. I take the opportunity of describing also the following additional species of this genus from examples in my own collection.

M. chrysiæ, sp. n.

♂ ♀ 14–15 mm. Head and thorax white. Antennæ in ♂ very shortly ciliated. Palpi white, second joint blackish above, terminal joint tolerably cylindrical, pointed. Abdomen in ♂ with anal tuft of mixed black and whitish hairs. Forewings with termen rounded, very slightly prominent on 5; white; median line light ochreous-yellow, strongly curved, becoming orange and dilated towards costa; two oblique wedge-shaped orange marks from costa towards apex, reaching $\frac{1}{3}$ across wing; a pale ochreous-yellowish suffusion extending from beyond median line above middle to middle of termen, enclosing on its lower edge before termen a small rectangular dark fuscous spot which includes a whitish mark cutting its lower side; a strong blackish terminal line on upper $\frac{2}{5}$ of termen: cilia shining grey, cut by white bars in and above middle, on tornus white, basal half white on upper $\frac{2}{5}$ of termen, a dark grey basal line on lower third. Hindwings and cilia white.

Amboina; two specimens.

Oligostigma polydora, sp. n.

♂ 24 mm. Head and thorax yellow-ochreous. Middle tibiæ clothed with long fine hairs above, and with a pencil of similar hairs from base beneath. Forewings elongate-triangular, termen bowed, oblique, costa folded over above from base to middle, margin of fold dilated except towards extremities by a broad flap of long dense projecting scales, covering a deep circular fovea at end of cell, dorsum strongly bowed and fringed with very long fine cilia; 7 and 10 out of 9; ochreous-orange; a shining whitish streak from end of cell to near before tornus, where it meets a shining white posteriorly black-edged curved subterminal streak from costa; a nearly straight shining white streak from beneath costa at $\frac{4}{5}$ to near angle of junction of these, narrowed beneath; an obscure semitransparent whitish streak along dorsum; an interrupted blackish terminal line: cilia pale grey. Hindwings abruptly sinuate beneath apex; shining white; beneath costa an elongate-oval grey patch reaching from near base to near middle, edged above with rough grey hairs, and beneath this a linear longitudinal streak of deep black scales reaching middle, these entirely covered by the expanded dorsal area of forewings; an ochreous-orange postmedian fascia and another along termen, confluent at extremities, terminal fascia black-edged from above middle to near tornus; two subquadrate black terminal dots beneath sinuation, margined anteriorly by white black-edged lunules: cilia whitish-grey, with a grey subbasal line.

Sangir; one specimen.

O. metriodora, sp. n.

♂ 21 mm. Head and thorax ochreous-yellow. Middle tibiae with fine slender pencils of long hairs from base above and beneath. Forewings elongate-triangular, termen rounded, oblique; on upper surface a fovea at end of cell, and a slight subcostal groove above it; 10 out of 9; shining white, suffused with fuscous in disc towards base; an orange costal streak from base to $\frac{3}{4}$, suffusedly confluent with postmedian fascia; a broad orange partially fuscous-irrorated dorsal streak to $\frac{4}{5}$; a triangular orange fuscous-irrorated median patch from costa, apex touching extremity of dorsal streak; a nearly straight fuscous-orange fascia at $\frac{4}{5}$, parallel to termen, ending beneath in dorsal streak; an orange anteriorly fuscous-edged terminal fascia; a black interrupted terminal line: cilia whitish-fuscous, with an interrupted dark fuscous subbasal line. Hindwings suddenly sinuate below apex; whitish-grey, darker-sprinkled; an orange subbasal fascia, extended along dorsum to meet posterior band; a broad terminal orange band, leaving a three-lobed apical spot of ground colour, fuscous-sprinkled towards termen on lower half, enclosing on lower half a narrow whitish subterminal streak edged with black posteriorly on its upper half; a black terminal line opposite this portion, and two semi-oval black dots beneath sinuation: cilia whitish-fuscous, with a dark fuscous subbasal line, lighter round apex.

Talaut; one specimen.

O. mormodes, sp. n.

♂ ♀ 34-45 mm. Head ochreous-yellow. Palpi in ♂ with terminal joint considerably elongate, porrected, terminating in a small hooked scaletuft. Antennae in ♂ dentate. Thorax ochreous-yellowish, with three dark fuscous anterior spots. Posterior femora in ♂ with small hairtuft beneath towards apex. Forewings very elongate-triangular, termen oblique, rounded, dorsum in ♂ slightly sinuate; in ♂ upper margin of cell roughened above with erect scales, and a ridge-like tuft of hairs on 1b towards base; 10 and 11 out of 9; shining grey-whitish; a rather broad fuscous costal streak from base to $\frac{2}{3}$, sending a thick suffused branch beneath from $\frac{1}{4}$ to middle of disc; a long semioval blotch extending along dorsum from near base to near tornus, anterior half dark ochreous-fuscous, posterior half pale ochreous-yellow; a rather broad dark ochreous-fuscous inwards-angulated fascia from $\frac{2}{3}$ of costa, confluent with costal streak, and a similar nearly straight fascia from $\frac{5}{8}$, meeting at $\frac{2}{3}$ above tornus and not continued further; a pale ochreous-yellow anteriorly black-margined terminal fascia; an

interrupted black terminal line : cilia fuscous-whitish. Hindwings with short sudden sinuation below apex ; shining white ; a dark fuscous subbasal fascia, marked with an ochreous spot towards dorsum ; a broad pale ochreous-yellow terminal band, edged anteriorly on upper $\frac{2}{3}$ by a sinuate dark fuscous line, enclosing an indistinct whitish anteapical spot posteriorly edged with dark fuscous, and an ill-defined shining whitish subterminal fascia on lower half, posteriorly shortly edged with dark fuscous below middle of wing ; four small black terminal dots below sinuation, each preceded by a silvery-metallic lunule set in black, and separated by orange interspaces : cilia whitish, with dark grey basal spots opposite terminal dots, and four black basal dots alternating with these.

Sangir ; two specimens.

O. hemicryptis, sp. n.

♂ ♀ 15-16 mm. Head and thorax dark fuscous. Forewings elongate-triangular, termen oblique, rounded ; 10 out of 9 ; orange ; in ♂ costal half dark fuscous from base to $\frac{2}{3}$, forming an elongate-triangular blotch, rest up to subterminal streak unevenly irrorated with dark fuscous, in ♀ wholly dark fuscous from base to subterminal streak except a small costal præsubterminal spot ; a shining white posteriorly black-edged subterminal streak, hardly reaching margins ; an interrupted black terminal line, forming a larger black dot at apex : cilia whitish-fuscous, basal half darker-mixed. Hindwings with slight subapical sinuation, prominent beneath it ; shining white ; a basal fascia, in ♂ orange, in ♀ dark fuscous ; a broad ochreous-orange terminal fascia, anteriorly strongly edged with dark fuscous except towards extremities ; a minute black terminal dot in subapical sinuation, preceded by a larger white dot, and two quadrate black terminal dots beneath this, preceded by white black-edged lunules, alternating with bright orange interspaces ; beneath these a pale line, black-edged on both sides, extending along termen from middle to $\frac{3}{4}$: cilia as in forewings, with a blackish basal dot on prominence.

Sangir ; two specimens.

O. gephyrotis, sp. n.

♀ 20 mm. Forewings very elongate-triangular, termen oblique, rounded ; shining white ; a fuscous costal streak from base to terminal fascia, lower edge somewhat prominent in middle ; a light ochreous-orange terminal fascia, anteriorly fuscous-edged in disc, continued from tornus to near base of dorsum, but leaving a white anteriorly fuscous-edged dorsal streak from before middle to

near tornus, and enclosing a white fuscous-sprinkled subterminal streak; a terminal series of black marks: cilia whitish. Hindwings with short sinuation below apex; white; a broad suffused pale orange terminal fascia, becoming deeper on termen, anteriorly edged with blackish for about $\frac{1}{3}$ in disc; a silvery-whitish subterminal streak round apex; five black roundish terminal dots below sinuation, preceded by silvery-whitish lunules edged with a few black scales, two lowest remote from the dots: cilia whitish, with grey basal line.

Talaut; one specimen. Nearly allied to *O. argyropis*.

Anydraula bombayensis, Swinh. Sangir.

Nymphula leucoplaca, sp. n.

♂ 16 mm. Labial palpi long, smooth scaled, acute. Forewings very elongate-triangular, termen sinuate beneath apex, bowed, waved, rather oblique; orange, irregularly and suffusedly irrorated with dark fuscous; a white suffusion towards base; first and second lines forming shining white fasciæ, strongly edged with dark fuscous, first widely interrupted in disc, second curved inwards and interrupted below middle, upper portion forming three adjacent spots; a shining white dark-edged submarginal fascia, interrupted below middle, upper portion forming three adjacent spots, two uppermost small. Hindwings with termen irregularly dentate-waved, apex forming a very prominent tooth; colour and markings as in forewings, but second line forming a straight fascia, interrupted in middle only, three upper submarginal spots rather small, subequal.

Sangir; one specimen. The form of the hindwings is peculiar and distinctive.

N. villidalis, Walk. Sangir; a specimen not showing the dark median line of hindwings, yet apparently identical.

Hydrocampa conspurcatalis, Warren. Sangir.

STREPSINOMA, gen. n.

Face oblique; ocelli present; tongue very long. Antennæ $\frac{2}{3}$, in ♂ ciliated. Labial palpi moderate, curved, subascending, second joint rough-scaled beneath, terminal joint rather short, pointed or obtuse. Maxillary palpi moderate, filiform. Posterior tibiae with outer spurs half inner, tarsi very long. Forewings with semitransparent bladdery impression in cell, larger in ♂, sur-

mounted by slight ridge ; 3 and 4 stalked, 10 and 11 out of 9. Hindwings 1 ; 3, 4, 5 approximated at base, 7 out of 6 near origin, anastomosing with 8 to middle.

TYPE. *S. amaura*. Besides the two following species, *Cataclysta cræsalis* (—*susalis*), Walk., XVII., 449, also belongs to the genus ; it occurs in India, Borneo, and Halmahera.

S. amaura, sp. n.

♂ ♀ 13—15 mm. Forewings elongate-triangular, termen oblique ; dark fuscous ; a white sometimes indistinct dot on costa beyond middle ; a fine white subterminal line, sometimes partially obsolete : cilia shining grey, base darker. Hindwings rather dark fuscous ; faint traces of a pale subterminal line.

Sambawa, S.E. Borneo ; two specimens.

S. sphenactis, sp. n.

♂ ♀ 13—15 mm. Forewings elongate-triangular, termen oblique ; greyish-fuscous, somewhat darker towards costa ; impression in cell obscurely whitish, more distinctly in ♂ ; a fascia-like narrow-triangular white spot on costa beyond middle, reaching more than half across wing, narrower in ♂ ; a curved white subterminal line : cilia pale fuscous, with darker subbasal line. Hindwings greyish-fuscous, with very indistinct darker median and postmedian lines, latter followed in ♂ by an obscure whitish line.

Sangir ; two specimens.

Nausinoë trogalis, Walk. Sangir.

Nerrina procopia, Cram. Sangir.

Pleonectusa adhæsalis, Walk. Talaut.

P. extenuatalis, Walk. (*leptomerals*, Walk.). Talaut.

Pagyda salvalis, Walk. Sangir.

Marasmia ruralis, Walk. Sangir.

Syngamia trimaculalis, Snell. Sangir.

Molybdantha tricoloralis, Zell. Sangir.

Eurrhyparodes bracteolalis, Zell. Sangir.

Diathrausta profundalis, Led. Sangir.

Hydriris ornatalis, Dup. Sangir.

Dodanga truncatalis, Walk. Sangir.

Diplotyla tellesalis, Walk. Sangir.

Tabidia aculealis, Walk. Talaut.

Margaronia suralis, Led. Sangir; unusually large.

M. vertumnalis, Guen. Talaut.

M. nitidicostalis, Guen. Sangir.

M. celsalis, Walk. Talaut.

M. (?) spissalis, Guen. Sangir.

M. crassicornis, Walk. Talaut.

M. scapularis, Led. Sangir.

M. ityalis, Walk. Sangir.

M. invertalis, Snell. Talaut.

Omiodes bianoralis, Walk. Talaut.

O. vulgaris, Guen. Sangir.

Coptobasis crotonalis, Walk. (?). Walker's type is a ♀, but appears to agree; it is, however, a very obscure species, which might belong to another genus. The ♂ here recorded is a true *Coptobasis*. Sangir.

C. mimica, Swinh. Sangir.

Pycnarmon jaguaralis, Guen. Talaut, Sangir.

Aripana abdicalis, Walk. Sangir.

A. macrotis, sp. n.

♂ 26 mm. Abdomen with a black lateral dot on anteapical segment, anal segment elongate. Forewings elongate-triangular (more elongate than in allied species), termen slightly bowed, oblique; white, ochreous-tinged towards base and on a costal streak from base to $\frac{2}{3}$; small black basal and subbasal dots on costa; a small black discal dot at $\frac{1}{4}$; a small transverse-oval black discal spot in middle; a small black costal dot at $\frac{2}{3}$; second line fuscous, indistinct, blackish on costa, broken and interrupted in disc, followed by a pale yellowish shade; a large black dot towards termen below middle; a small blackish apical dot: cilia whitish, basal half yellowish. Hindwings white; a dark fuscous discal dot; second line as in forewings, but marked with a dark fuscous dot on dorsum; subterminal dot and cilia as in forewings.

Talaut; one specimen.

Cænostola originalis, Walk. Sangir.

OSPHRANTIS, gen. n.

Face rounded; ocelli present; tongue developed. Antennæ $\frac{3}{4}$, in ♂ ciliated with long fascicles (4). Labial palpi moderate,

curved, ascending, second joint beneath with dense rough projecting scales, forming a short tuft in front, terminal joint rather short, thickened with rough projecting scales beneath, obtuse. Maxillary palpi short, slender, filiform. Posterior tibiae with outer spurs about half inner. Forewings with 3, 4, 5 approximated, 10 out of 9. Hindwings, 1 ; 3, 4, 5 approximated, 7 out of 6 near origin, anastomosing with 8 to middle.

O. paraphæa, sp. n.

♂ 13 mm. Forewings rather elongate-triangular, termen sinuate, bowed, oblique ; deep yellow, towards costa and termen suffused with a ferruginous tinge ; a dark fuscous costal streak from base to $\frac{3}{5}$; first and second lines dark ferruginous, second irregular, running from a dark fuscous spot on costa at $\frac{3}{4}$ to near tornus, then widely interrupted and recommencing in middle of disc, running to $\frac{3}{5}$ of dorsum ; small rounded dark fuscous spots in disc at $\frac{1}{3}$ and $\frac{1}{2}$, latter touching inferior section of second line ; an interrupted dark fuscous terminal line : cilia whitish, base yellowish, a subbasal dark yellow-brown line. Hindwings yellow, towards termen ferruginous-tinged ; second line as in forewings, but superior section reaching tornus.

Talaut ; one specimen.

Conogethes mimastis, sp. n.

♂ 25-27 mm. Head ochreous-yellow. Palpi ochreous-yellow, second joint with dark grey apical band. Thorax ochreous-yellow, with blackish-grey anterior spot. Forewings rather elongate-triangular, termen slightly bowed, oblique ; light orange, markings blackish ; a small basal costal spot ; a narrow curved subbasal fascia ; first line thick, dilated costally, bent inwards beneath costa ; a narrow transverse discal mark, touching a subcostal streak connecting first and second lines ; second line thick, nearly straight, connected along costa with a rather broad terminal band, of which the anterior edge is strongly concave : cilia dark grey. Hindwings orange ; second line thick, nearly straight, blackish ; a blackish terminal streak : cilia dark grey.

Sangir ; two specimens.

C. iopasalis, Walk. Talaut.

C. punctiferalis, Guen. Sangir.

C. xiphialis, Walk. Sangir.

Notarcha butyrina, Meyr. Sangir.

Dichocrocis tyranthes, sp. n.

♂ 33 mm. Head, palpi, and thorax whitish-ochreous. Forewings rather elongate-triangular, termen obliquely rounded; whitish-ochreous, yellowish-tinged; a blackish terminal line: cilia whitish, towards base ochreous-tinged, with a grey subbasal line. Hindwings with colour, terminal line, and cilia as in forewings.

Sangir; one specimen.

Daulia afralis, Walk. Sangir.

Isocentris illectalis, Walk. Sangir; a very small specimen, hardly 13 mm.

PLACOSARIS, gen. n.

Face rounded; ocelli present; tongue developed. Antennæ $\frac{3}{4}$, in ♂ minutely ciliated. Labial palpi moderately long, porrected, triangularly scaled, terminal joint concealed. Maxillary palpi moderate, filiform. Posterior tibiae in ♂ with outer middle-spur very short, rudimentary. Forewings in ♂ with a small flat tuft of enlarged broad scales beneath cell towards base on both surfaces; 10 closely approximated to 9. Hindwings 1: 3, 4, 5 approximated at base, 7 out of 6 near origin, anastomosing with 8 to middle.

P. leucula, sp. n.

♂ 25 mm. Forewings rather elongate-triangular, termen rounded, oblique; yellow-ochreous, suffusedly irrorated with ferruginous; costal edge dark fuscous; first line almost straight, dark fuscous, edged anteriorly with a fine silvery-white streak, not reaching costa; a dark fuscous discal mark; second line dark fuscous, edged posteriorly by a silvery-white interrupted streak, running from $\frac{1}{4}$ of costa to $\frac{2}{3}$ of dorsum, middle third moderately curved outwards; a terminal series of dark fuscous dots: cilia dark ferruginous-greyish, with dark fuscous subbasal line. Hindwings pale yellowish-ochreous; second line straight, cloudy, grey, obsolete on lower half: cilia ochreous-whitish, with a grey subbasal line.

Sangir; one specimen.

Pyrausta inscissalis, Walk. Talaut.

P. tranquillalis, Led. Sangir.

P. basalis, Walk. Sangir.

- P. suffusalis*, Walk. Sangir.
P. celatalis, Walk. Sangir.
P. hipponalis, Walk. Talaut.
P. platycapna, sp. n.

♂ 23 mm. Head and thorax rather dark fuscous. Antennal ciliations minute ($\frac{1}{4}$). Forewings rather elongate-triangular, termen bowed, oblique; light ochreous-yellowish; a broad rather dark fuscous slightly purplish-tinged costal band from base to apex, thence continued as a terminal band to tornus, extending at base to dorsum, and between first and second lines extending as a cloudy suffusion over disc; first and second lines dark fuscous, second somewhat waved, running from before $\frac{3}{4}$ of costa towards tornus to below middle, thence suddenly bent inwards to below discal mark, and again strongly curved round to beyond middle of dorsum; a dark fuscous dot in disc beyond first line, and discal median mark: cilia fuscous, with a darker subbasal line. Hindwings pale ochreous-yellowish; a small roundish dark fuscous discal spot; second line hardly indicated by a few dark fuscous scales; a rather dark fuscous terminal band.

Sangir; one specimen. Allied to the Australian *P. epitrota*.

Evergestis anastomosalis, Guen. Sangir.

PYRALIDIDÆ.

- Cirrhochrusta fumipalpis*, Feld. Sangir.
Cotachena histricalis, Walk. Talaut.
Pyralis pictalis, Curt. Talaut.
Diplopseustis metallias, sp. n.

♂ 10 mm. Forewings elongate, rather narrow, suboblong, termen sinuate, little oblique; deep ochreous-yellow; a blackish costal streak from base to first line, marked with a bluish-lead-metallic spot near base, extended at base to dorsum; first line nearly straight, bluish-lead-metallic, strongly blackish-edged; a small semioval bluish-lead-metallic spot mixed with black in middle of costa; second line nearly straight, oblique, bright lead-metallic, posteriorly black-edged, preceded on upper half by a blackish blotch including a bright lead-metallic discal spot, and with a lead-metallic projection inwards below middle; bright lead-metallic roundish terminal spots above and below middle: cilia ochreous-yellow, with series of dark fuscous points. Hind-

wings ochreous-yellow ; a small blackish dorsal spot before middle ; second line nearly straight, bluish-lead-metallic on lower half, anteriorly blackish-edged throughout, posteriorly edged on lower half by a blackish blotch extending to tornus, where it meets a leaden-metallic suffusion occupying lower third of termen : cilia as in forewings.

Sangir ; two specimens.

Sufetula sunidesalis, Walk. Sangir.

SICULODIDÆ.

Siculodes anticalis, Walk. Sangir.

S. astrodora, sp. n.

♂ 15 mm. Forewings elongate-triangular, termen bowed, oblique ; pale brownish-ochreous, irregularly striated throughout with dark fuscous ; five nearly straight dark fuscous fasciæ, second angularly prominent in disc posteriorly, fourth running to tornus, fifth to middle of termen. Hindwings as forewings, but first two fasciæ obsolete, third and fourth only distinct dorsally. Forewings beneath with ground-colour more whitish, striæ more blackish, fasciæ more reddish-ferruginous ; a bright ferruginous subcostal streak on posterior half ; a black blotch in disc before middle, marked with longitudinal whitish lines on upper half and a row of bright bluish-silvery metallic dots in middle, beneath this finely whitish-sprinkled ; a broader blackish patch in disc beyond middle, marked with numerous fine whitish longitudinal lines throughout.

Talaut ; one specimen.

Striglina reticulata, Walk. Sangir.

Rhodoneura myrtæa, Drury. Sangir.

ADDENDUM.

The following species of *Galleriadæ* I had supposed to be *Callionyma semifædalis*, Walk. ; I am indebted to Sir George Hampson for the information that it is not only specifically but generically distinct.

PICROGAMA, gen. n.

Face with strong projecting ridge of scales. Labial palpi in ♂ very short, ascending, second joint rough-scaled, terminal short,

scaled, in ♀ very long, porrected, with appressed scales. Forewings: cell in ♂ with lower angle very considerably produced, 4 and 5 in ♂ remote, in ♀ almost connate, 8 and 9 out of 7. Hindwings: cell very short, 3 and 4 stalked, 7 anastomosing shortly with 8.

P. anticosma, sp. n.

♂ 41 mm., ♀ 34 mm. Head and thorax whitish-ochreous, partially tinged or suffused with light brown-red. Forewings elongate-oblong, more elongate in ♂, apex nearly rectangular, termen straight, hardly oblique; reddish-brown, more or less suffused with light ochreous in disc from base to beyond middle; in ♂ a white longitudinal streak above middle from base to $\frac{3}{5}$, lower edge margined posteriorly with a golden-ferruginous suffusion, indented at $\frac{2}{5}$, terminated by a small round dark fuscous discal spot; in ♀ a triangular dark fuscous blotch in disc before middle, and a transverse narrow reniform spot beyond middle; a cloudy darker transverse line at $\frac{3}{4}$, in ♂ straight, in ♀ somewhat curved; an undefined pale ochreous narrow terminal fascia: cilia light reddish-brown. Hindwings in ♂ orange-yellow, in ♀ light ochreous-yellowish.

Sangir; two specimens.



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