

DESCRIPTIONS OF NEW AUSTRALIAN LEPIDOPTERA.

BY OSWALD B. LOWER, F.L.S., F.E.S.

GEOMETRIDÆ.

PSEUDOTERPNA XENOMORPHA, n.sp.

♀. 36 mm. Head, palpi, antennæ, and thorax whitish-grey finely mixed with ashy-grey. Abdomen ashy-grey, mixed with fuscous. Legs fuscous, tibiæ and tarsi narrowly banded with white. Forewings elongate-triangular; termen waved, rounded; pale whitish-grey, finely irrorated with fuscous and blackish scales, so as to appear ashy-grey: a narrow oblique transverse fuscous fascia, from costa at one-quarter to dorsum at middle; a similar fascia from costa at about three-fifths to dorsum before anal angle, gently curved inwards on lower two-thirds; a narrow fuscous line from costa to very near angle of preceding fascia; a sharply defined direct white streak from costa at five-sixths, reaching nearly half across wing; a very obscure fuscous line parallel to termen; a waved black line along termen. Hindwings with termen faintly waved; colour as in forewings; an obscure narrow fuscous fascia, from costa at about three-quarters to termen before anal angle; line along termen as in forewings; cilia of both wings ashy-grey-whitish. Underside of both wings as above; markings reproduced; a short transverse streak of white on costa of hindwings at five-sixths, followed by a broad light fuscous, somewhat suffused, band before termen throughout.

Pinnaroo, South Australia; one specimen taken by Mr. R. S. Lower, in March.

Probably nearest *P. ocularia* Don. The absence of any well defined markings on the underside is peculiar.

MONOCTENIADÆ.

DICHROMODES PERINIPHA, n.sp.

♀. 25 mm. Head, palpi, and thorax whitish, palpi three, thorax with a pale ochreous anterior bar. Antennæ fuscous. Abdomen ochreous-grey. Legs grey-whitish (posterior pair broken). Forewings elongate, triangular, termen gently rounded; whitish; all veins, except subcostal, obscurely outlined in pale ochreous; markings dark fuscous; a small suffused basal spot on fold; a more distinct spot just beyond; a moderately thick line, from beneath costa to dorsum at one-third, with a slight projection on fold: a large quadrate discal spot; a moderately thick line from costa at three-quarters to dorsum near anal angle, dentate throughout, and with a bidentate projection in middle; a dull fuscous subterminal shade; a fine waved black line along termen; cilia whitish-grey, basal half irrorated with fine black scales. Hindwings with termen unevenly waved; grey-whitish; a faint fuscous discal spot; a fine waved pale fuscous submedian line; an obscure fuscous line along termen; cilia whitish.

Pinnaroo, S.A.; one specimen taken by Mr. R. S. Lower, in October.

Allied to the previous species, but differs by pale colouring, longer palpi, and waved termen of hindwings

DICHROMODES FULVIDA, n.sp.

♂♀. 22-26 mm. Head, palpi, and thorax fuscous, thickly irrorated with whitish and ochreous-ferruginous; head in female wholly ochreous, palpi two, thorax anteriorly edged with whitish scales. Antennæ fuscous, pectinations four. Abdomen grey-whitish, sprinkled with fuscous. Legs grey-whitish, tibiæ and tarsi fuscous, banded with whitish. Forewings elongate, triangular, termen faintly waved, rounded; fuscous, densely irrorated with dull whitish; veins, except costal branches, marked with rather thick ochreous streaks, interrupted by lines; a rather thick fuscous fascia, obscure in female, from costa at one-fifth to dorsum at one-fifth, edges tolerably straight; a broad fuscous median band, edges dentate, anterior edge from costa at two-fifths to dorsum at one-third, anteriorly edged throughout with

a fine whitish line, indented in middle; posterior edge nearly straight, from costa beyond middle to just beyond middle of dorsum, slightly deflected inwards near costa and edged throughout finely with white; a tolerably broad transverse fascia, from costa at five-sixths to anal angle, anterior edge slightly waved, posterior edge irregularly dentate with a broad obtuse median projection; a fine waved black line along termen; cilia grey, basally whitish. Hindwings with termen rounded, faintly waved; fuscous; two or three short white lines from dorsum near anal angle; a fine waved blackish line along termen; cilia as in forewings.

Pinnaroo, S.A.; three specimens, taken by Mr. R. S. Lower in November.

Apparently near *D. ioneura* Meyr., (from West Australia), but the form of the lines and colouring are quite distinct.

DICHROMODES CIRRHOPLACA, n.sp.

♂♀. 26-28mm. Head, palpi, and thorax fuscous, thickly irrorated with whitish, palpi two and one-half, thorax sometimes with a central ferruginous spot. Antennæ fuscous, pectinations six. Abdomen grey-whitish. Legs grey-whitish, tibiae and tarsi obscurely banded with white. Forewings elongate, triangular, termen rounded; silvery-grey-whitish, minutely and irregularly irrorated with dark fuscous; a short blackish streak on fold near base; a similar, but much longer, streak on fold beyond; a broad, inwardly oblique transverse ferruginous fascia, from beneath costa at one-quarter to fold at one-quarter, anterior edge suffused, posterior edge nearly straight, and edged by a narrow streak of white throughout, beyond which is a narrow waved black line, sinuate inwards below middle; a rather large quadrate fuscous discal spot; a fine blackish nearly line, from or just below costa at three-quarters, with a slight projection below middle, which touches discal spot; a broad ferruginous transverse fascia, only separated from blackish line by a narrow streak of whitish, anterior edge nearly straight, from costa at three-quarters to just above dorsum at two-thirds; posterior edge strongly suffused with blackish, with three obtuse projections below costa, in middle,

and above anal angle; a fine, waved, black line along termen; cilia grey-whitish. Hindwings with termen rounded; light greyish-fuscous; a very obscure fuscous discal spot; an obscure whitish line beyond middle; dorsum obscurely irrorated with whitish; cilia as in forewings.

Pinnaroo, S.A.; three specimens, taken by Mr. R. S. Lower, in November.

Nearest *D. orthozona* Low., but the form of the lines, etc., is totally different.

SELIDOSEMIDÆ.

CHLENIAS CYCLOSTICHA, n.sp.

♂. 40 mm. Head, palpi, and thorax light smoky-fuscous, basal joint of palpi somewhat loosely haired. Antennæ light fuscous, pectinations 10, ochreous. Legs fuscous, anterior coxæ grey, middle and posterior tibiæ banded with ochreous. Abdomen dull grey. Forewings elongate, triangular, termen evenly rounded, oblique; ochreous-fuscous, minutely irrorated throughout with black; all veins outlined with light ochreous; a suffused blackish transverse discal spot, at posterior end of cell; an outwards-curved row of elongate black spots on veins, from costa at three-quarters to dorsum before anal angle, slightly sinuate inwards below middle; a black streak on subcostal nervule at one-third from base; a similar streak on vein one, at about one-third from base; cilia ochreous-fuscous. Hindwings with termen unevenly rounded; dull grey-whitish, fuscous-tinged, except on basal third; cilia as in forewings, but with a fuscous basal line.

Broken Hill, N.S.W; one specimen; June (at light).

Bombycina.

LIMACODIDÆ.

SUSICA ÆROGRAMMA, n.sp.

♂. 35 mm. Head, thorax, and abdomen pale greyish-fuscous. Palpi orange. Antennæ whitish, pectinations orange. Legs greyish, tibiæ and tarsi orange, banded with black. Forewings pale greyish-fuscous; costal edge narrowly orange throughout;

an oblique, strongly dentate black line from middle of dorsum to just below costa at five-sixths; cilia grey, with a dull ochreous basal line. Hindwings grey-whitish; cilia as in forewings.

Pinnaroo, S.A.; two specimens, taken by Mr. R. S. Lower, in March.

OCNERIADÆ.

ORGYIA ANELIOPA, n.sp.

♂. 25 mm. Head and thorax fuscous, thorax with an obscure ochreous posterior spot, face orange, thorax beneath mixed with orange. Palpi orange. Antennæ fuscous, pectinations eight, dull orange. Abdomen fuscous; almost wholly clothed with orange hairs. Legs fuscous. Forewings elongate-triangular, costa nearly straight, termen gently rounded, oblique; light fuscous; an inwardly fuscous discal spot at end of cell; a somewhat suffused, fuscous, rather thick line, from costa near apex to dorsum just before anal angle; cilia fuscous, with a darker basal line. Hindwings with colour and cilia as in forewings.

Pinnaroo, S.A.; four specimens, taken in March by Mr. R. S. Lower.

I have every reason to believe that the female of this insect will prove to be apterous.

ZEUZERIDÆ.

ZEUZERA(?) PENTASEMA, n.sp.

♂. 30 mm. Head and thorax greyish-fuscous, mixed with dull ferruginous. Palpi fuscous, second joint with a few white scales at apex. Antennæ fuscous, base beneath sharply white. Legs light fuscous, tarsi obscurely banded with dull white. [Abdomen broken]. Forewings elongate, moderate, costa straight, termen oblique, little rounded; ashy-grey-whitish, irregularly mixed with ferruginous-brown; groundcolour between base and middle of wing, suffused with whitish, except a moderately broad costal streak; veins on whitish portion sharply outlined with black; a rather large roundish patch of light ochreous-ferruginous, occupying median portion of wing, not reaching margins, containing

several roundish spots of lighter groundcolour, outlined in black, median spots smallest; veins beyond patch outlined in black, the interspaces filled in with five well defined streaks of whitish; cilia ochreous-fuscous, sharply barred with white, being the continuation of the interneural streaks. Hindwings dark fuscous, with a fuscous subterminal line, tips dull whitish.

Dalby, Queensland; one specimen, in November.

ZEUZERA PERIGYPSA, n.sp.

♂. 44 mm. Head fuscous-whitish. Palpi whitish, base of second joint black. Antennæ whitish, pectinations dull orange. Thorax dark fuscous, anteriorly mixed with whitish scales. Abdomen dark fuscous, laterally somewhat mixed with whitish. Legs grey-whitish, posterior tibiæ and tarsi ochreous-tinged. Forewings elongate, costa gently arched, termen very obliquely rounded; dull white, finely reticulated throughout with short, waved, transverse lines, which accumulate more thickly along costal portion of wing; costal edge obscurely dull whitish throughout; cilia fuscous. Hindwings pale whitish-grey, with a few very obscure scattered light fuscous reticulations; cilia as in forewings, becoming darker at extremities of veins.

Broken Hill, N.S.W.; one specimen, in March.

Pyralidina.

PYRAUSTIDÆ.

METALLARCHA GRAMMETALLA, n.sp.

♀. 24 mm. Head, palpi, and thorax orange-yellow, palpi infuscated laterally and beneath. Antennæ fuscous. Abdomen orange-yellow. Legs dark fuscous, posterior pair yellow, tibiæ obscurely banded with fuscous. Forewings elongate, moderate, triangular, costa straight, termen oblique, gently rounded; bright yellow, markings dull leaden-metallic; a moderate costal streak, thickest on basal fourth, at base continued to fold; a moderately thick transverse fascia, strongly indented anteriorly above middle, from costa just before middle to middle of dorsum; a similar fascia parallel to termen, from costa just before apex direct and almost reaching vein two, thence strongly curved inwards so as

to nearly reach first fascia, thence continued to dorsum before anal angle; a short fascia from costal streak at about two-thirds joint curve of previous fascia; a fine line along termen; cilia pale yellow. Hindwings dull purplish-fuscous, becoming pale yellow on costa and basal fifth; a fine line of yellow on upper third of termen; cilia pale greyish-ochreous, becoming yellowish at apex and around anal angle.

Pinnaroo, S.A.; three specimens, in November; taken by Mr. R. S. Lower.

Tineina.

ÆCOPHORIDÆ.

PHILOBOTA MITOLOMA, n.sp.

♂. 2.6 mm. Head orange. Palpi fuscous, internally orange. Antennæ pale yellow. Thorax yellow, anteriorly with purplish-fuscous band. Abdomen orange, two basal segments dull purplish-fuscous. Legs dull purplish-fuscous, posterior pair orange-yellow. Forewings elongate, moderate, costa gently arched, termen rounded, oblique; orange-yellow; a moderately narrow purplish-fuscous streak along costa, from base to five-sixths, extremities somewhat attenuated; a round purplish-fuscous discal dot, just beyond posterior end of cell; cilia fuscous-grey. Hindwings fuscous; cilia as in forewings, but becoming mixed with ochreous towards base.

Pinnaroo, S.A.; two specimens, taken by Mr. R. S. Lower, in November.

PHILOBOTA EREMOSEMA, n.sp.

♂. 2.4 mm. Head, palpi, antennæ, and thorax white, second joint of palpi fuscous externally, except apex, antennæ annulated with fuscous, thorax anteriorly narrowly fuscous, patagia fuscous anteriorly. Abdomen whitish, segmental margins ochreous-fuscous, anal tuft ochreous. Legs silvery-white, posterior pair pale whitish-ochreous. Forewings elongate, moderate, costa hardly arched, termen obliquely rounded, 7 to immediately below apex; white; costal edge narrowly fuscous, from base to one-quarter; a moderate, fuscous, longitudinal streak from base to

apex, slightly above middle, slightly indented at its upper edge at two-thirds, and tending to emit a streak from its lower edge at two-thirds; basal portion of the longitudinal streak somewhat attenuated; cilia white, with some fuscous scales at base along termen. Hindwings and cilia pale whitish-grey, cilia at base yellowish.

Broken Hill, N.S.W.; one specimen, in November.

I should have referred this species to *Nephogenes*, but the general facies appears to indicate *Philobota* as its true generic position.

NEPHOGENES MACULISARCA, n.sp.

♀. 24 mm. Head and palpi fleshy-white, second joint of palpi externally fuscous. Antennæ fuscous. Thorax dark fuscous, mixed with a few white scales. Abdomen ochreous-fuscous, laterally becoming whitish. Legs fuscous, tarsi ringed with white, posterior pair whitish-grey. Forewings elongate, moderate, costa slightly arched towards base, thence straight, termen oblique, little rounded; dark fuscous, mixed with scattered white scales, which coalesce more thickly along dorsum, and median basal third of wings; costa very narrowly white, from base to five-sixths, obsolete in one specimen; markings flesh-colour; an irregular suffused streak along fold, from base to one-quarter; a round spot at extremity of this; a longitudinal series of three spots just above middle of wing, first at anterior edge of cell; second narrow, in middle of cell; third largest, at posterior extremity of cell; an oblique transverse row of six confluent spots, near and parallel to termen, upper largest, all more or less edged with black; groundcolour between these, and last longitudinal spot mixed with white; cilia fuscous, with some blackish scales. Hindwings and cilia fuscous.

Broken Hill, N.S.W., and Pinnaroo, S.A., (R. S. Lower); two specimens, in October.

LINOSTICHA(?) STICHOPTIS, n.sp.

♂. 26 mm. Head, palpi, antennæ, and thorax fleshy-white, antennæ at base and patagia white. Abdomen silvery-grey,

segmental margins white. Legs ochreous-grey. Forewings elongate, moderate, costa evenly arched, apex somewhat prominent, termen sinuate beneath apex, thence obliquely rounded; seven to below apex; fleshy-white, becoming whitish on costal third of wing; all veins neatly outlined with clear white, and more or less finely edged on either side with dull fuscous, especially beyond cell; cilia light fuscous. Hindwings grey-whitish; cilia ochreous-whitish.

Broken Hill, N.S.W.; one specimen, in July.

I should be inclined to propose a new genus for the reception of this species, but for paucity of material. The type was beaten from *Casuarina*, twelve years ago, and I have not met with a second specimen. The termination of vein 7 of forewings is at variance with the characters of *Linosticha*.

LINOSTICHA SERICOPA, n.sp.

♂. 16 mm. Head, palpi, antennæ, and thorax dark fuscous. Abdomen greyish-ochreous. Legs dark fuscous, posterior pair yellow-ochreous. Forewings elongate, moderate, costa gently arched, termen rather strongly oblique; dark fuscous, faintly coppery-tinged; markings obsolete; cilia dark fuscous, mixed with grey at anal angle. Hindwings pale ochreous-fuscous; cilia pale yellow, terminal half mixed with fuscous towards apex.

Broken Hill, N.S.W.; one specimen, in November (at light).

Not unlike some species of *Scieropepla* (*Xyloryctidæ*).

TRACHYNTIS MIMICA, n.sp.

♂. 25 mm. Head and thorax fuscous, patagia mixed with grey-whitish. Palpi fuscous-whitish, becoming white internally on basal joint. Antennæ and legs fuscous, posterior tibiæ and tarsi tinged with ochreous. Abdomen ochreous, segmental margins whitish. Forewings elongate, moderate, costa gently arched, termen rounded, oblique; dull bronzy-ochreous, more or less minutely irrorated throughout with fuscous, which is more dense on upper half of wing, except towards termen; two fuscous discal spots, placed longitudinally, at one-third and two-thirds from base, both edged posteriorly with a spot of ochreous-whitish;

a row of more or less confluent fuscous spots along termen and apical fifth of costa; cilia ochreous-fuscous, becoming ochreous around anal angle. Hindwings greyish-ochreous, becoming fuscous-tinged on costal area, and more ochreous along termen; cilia ochreous, at apex mixed with fuscous.

Broken Hill, N.S.W.; one specimen, in March.

Closely allied to *P. argocentra* Low., but apparently distinct; a longer series may unite them.

GUESTIA DELOSTICHA, n.sp.

♂. 24 mm. Head and thorax fuscous. Palpi whitish, basal joint with a fuscous apical band. Antennæ fuscous, obscurely annulated with greyish. Legs fuscous, mixed with white. Abdomen dull ochreous, segmental margins grey. Forewings elongate, moderate, costa hardly arched, termen rounded, oblique; light fuscous; all veins more or less outlined in white, interspaces appearing dark fuscous; a white line along termen, anteriorly edged with darker groundcolour, and interrupted by blackish streaks; cilia greyish, mixed with fuscous and black scales. Hindwings grey; cilia grey-whitish, with a fuscous basal line.

Broken Hill, N.S.W.; one specimen, in June.

GUESTIA SYMMADELPHA, n.sp.

♂. 25 mm. Head, thorax, and palpi light fuscous, head mixed with some ochreous scales, palpi internally white. Antennæ whitish, annulated with fuscous. Legs fuscous, posterior pair grey-whitish, all tarsi banded with white rings. Abdomen grey-whitish. Forewings elongate, moderate, costa hardly arched, termen very obliquely rounded; cinereous-grey; costal edge narrowly white throughout; a well marked narrow streak of white in middle of cell, posterior termination marked by a narrow transverse fuscous mark, below which is a dull white transverse spot; veins towards termen obscurely outlined with white scales; cilia ashy-grey, paler at base, and with some fuscous sub-basal scales. Hindwings pale fuscous; cilia greyish-ochreous.

Broken Hill, N.S.W.; one specimen, in May.

Probably allied to *G. actinipha* Low., but distinct.

PAURONOTA LASIOPREPES, n.sp.

♂. 22 mm. Head, palpi, thorax, and antennæ rather dark fuscous, internally mixed with whitish. Legs dark fuscous, hairs of posterior pair ochreous-grey, all tarsi ringed with whitish. Abdomen ochreous, anterior segments whitish, segmental margins grey. Forewings rather narrow, elongate, costa hardly arched, termen rounded, oblique; ashy-grey-fuscous; cell and all inter-neural spaces neatly outlined in white, giving the appearance of alternate fuscous and white streaks; a small fuscous dot in anterior end of cell, followed by a narrow elongate fuscous streak to near end of cell; cilia greyish-ochreous, mixed with fuscous and dark fuscous scales. Hindwings pale greyish-ochreous; cilia greyish-ochreous.

Broken Hill, N.S.W.; one specimen, in May.

This species is extremely like *Nephogenes crassinervis* Low., but the fuscous head and stalking of veins 2 and 3 of forewings are sufficient to prevent confusion of the species. I have taken *P. crassinervis* only in August, September, and October.

XYLORYCTIDÆ.

XYLORYCTA AMALOPTIS, n.sp.

♀. 28 mm. Head, thorax, palpi, and antennæ pale whitish-grey, [terminal joint of palpi imperfect]. Legs grey-whitish. Abdomen grey-whitish, second segment dull orange. Forewings elongate, costa gently arched, termen rounded, oblique; pale whitish-grey, somewhat flesh-tinged, all markings obsolete; a fuscous-ferruginous line along termen and apical fifth of costa, obscure on costa and minutely dentate internally on termen; cilia dull ochreous-grey. Hindwings light fuscous, becoming whitish towards base; cilia grey.

Broken Hill, N.S.W.; one specimen, in February.

CRYPTOPHAGA CITRINOPA, n.sp.

♀. 40 mm. Head and face white. Thorax fleshy-pink, patagia orange-ochreous. Antennæ and palpi fleshy-white, palpi more whitish externally, at base. Legs fleshy-ochreous. Abdomen dull ochreous, second segment obscurely orange. Forewings

elongate, costa tolerably arched, termen hardly rounded, faintly sinuate below apex; 2 from four-fifths; orange-yellow, faintly dusted with dull reddish on basal half; a moderately broad, silvery-white, costal streak from base to middle, attenuated posteriorly, and edged beneath throughout by a fine fuscous line; two dark fuscous discal spots, transversely placed in middle of wing at three-fifths from base; cilia dull orange. Hindwings with veins 6 and 7 from a point; 3 and 4 short-stalked; orange-yellow; cilia as in forewings, at base with a ferruginous line.

Broken Hill, N.S.W.; one specimen, in November.



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