# SOME NEW EASTERN LEPIDOPTERA.

BY THE HON. WALTER ROTHSCHILD, Ph.D.

### PAPILIONIDAE.

## 1. Troides aeacus formosanus subsp. nov.

3. Differs from the Indian form of aeacus in the white spots of the fringe of the forewing being much smaller, in the wedge-shaped internervular portions of the black marginal band of the hindwing being longer, in the abdomen being clothed with red hairs beneath at the base and bearing (like aeacus from Central and West China) two rows of black spots on each side ventrally.

Hab. South Cape, Formosa (received from Monsieur de la Touche), 2 ♂ ♂.

## 2. Papilio nubilus musianus subsp. nov.

3. Differs from the Bornean form of nubilus, Iris VII. p. 314 (1894) (Brunei), in the following points: Forewing above with three postdiscal white patches, the uppermost between SC<sup>3</sup> and SC<sup>4</sup>, the following two longer, between SC<sup>5</sup> and R<sup>2</sup>, all three sinuate externally, an indication of a fourth patch between R<sup>2</sup> and R<sup>3</sup>, 7 mm. from edge of wing; marginal spots nine in number, uppermost between SC<sup>3</sup> and SC<sup>4</sup>, spot between SC<sup>4</sup> and SC<sup>5</sup> extremely small, visible only with a lens.—Hindwing above as in nubilus nubilus, no submarginal spots.

Underside.— Forewing with four postdiscal patches from SC<sup>3</sup> to R<sup>3</sup>, upper three just beyond apex of cell, fourth smaller, a little closer to cell than to outer margin; in inner angle, between M<sup>2</sup> and SM<sup>2</sup>, a small patch with a small spot in front.— Hindwing: submarginal lunules R<sup>3</sup>—M<sup>2</sup> very faintly marked; third discal patch measuring 10 mm. in length, externally obliquely cut off, slightly concave, the fourth more regular, 9½ mm. long.

Hab. Upper Palembang district, 3° s. lat., 103° long.; 1 &, received from Mr. J. Völcker.

#### NYMPHALIDAE.

# 3. Cynthia obiensis sp. nov.

3. Wings above deeper in tint than in arsinoë from Amboina——Forewing: median series of bars heavy, very oblique, upper one close to upper angle of cell, bar M²—SM² 6 to 7 mm. from tip of SM²; admarginal line of lunules as in arsinoë, submarginal lunules very faint, except the last.——Hindwing: median series of bars very heavy, the line broken at veins, upper bar curved like letter S, bar R³—M¹ more or less longitudinal, being mostly placed along D⁴, bar M²—(SM¹) also marked.

Underside from base to median lines of bars rufous red, especially on hindwing.—Forewing: median bars not so heavy as above, but also placed in a very oblique row; apical white spots larger than in arsinoë, brown spot in inner angle small.—Hindwing: outer half rather heavily shaded with rufous red; median line of bars somewhat concave.

2. Upperside much darker than in arsinoë, hence the cell-bars and the bars in marginal region not very conspicuous, mummy-brown. A broad pure white band across disc, 91 to 101 mm. wide at SC1.5, its inner edge oblique (as line of bars in 3), indented at R1, M1 and M2, very oblique between (SM1) and SM2; the band is limited distally between SC4.5 and R2 by two blackish brown lunules, the upper lunule nearly entirely fused with the blackish brown marginal area, there being only a very few white scales at its distal side; the second lunule more distinct, separated by a luniform white spot from the band; a third, very indistinct, brown lunule in the white band between R2 and R3; postdiscal bars appearing as black spots just at the outer edge of the band between R2 and SM2; two small submarginal white dots between SC4 and R1, the second in one of the two specimens absent. -- Hindwing mummy-brown up to median line of bars; these bars heavy as in 3, followed by a russet tawny band, which becomes grey behind C, outer edge of band ill-defined, nearly straight, touching eye-spots; area between this band and submarginal line of bars darker brown; eye-spots with a rather large blue dot.

Underside russet, outer half paler.—Forewing: white band as above, discal and postdiscal luniform bars feeble, submarginal line indistinct behind, admarginal distinct, but not strongly marked.—Hindwing: discal band much paler than above, becoming whitish from R<sup>1</sup> to C.

Hab. Laiwui, Obi I., September 1897 (W. Doherty), 5 & d, 2 ♀♀.

Easily distinguished from all races of arsinoë by the obliquely placed series of median bars of the forewing.

# 4. Acraea parce buruensis subsp. nov. -

3?. Differs from A. parce parce Staud., Iris IX. p. 193. t. 1. f. 8 (1896), from Mangiola, Sula Archipelago, in the following points: The basal half of the forewing from cell to internal margin is much more diaphanous, there being much less black scales on the upperside. On the underside of the hindwing the discal band and the submarginal spots are more ochreous; the partially scaleless patch in and before cell is very variable in extent, but it is always much smaller than in the Mangiola race, the posterior half of the cell remaining always black; the subbasal patch between costal and subcostal nervules is also much smaller, often absent. The submarginal spots are generally somewhat smaller than in parce parce; the posterior ones much shaded with black in 3, sometimes scarcely traceable.

Hab. Mount Mada, Buru, September 1898, 3000 feet (Dumas).

#### PIERIDAE.

# 5. Delias funerea buruana subsp. nov.

3. Differs from the Halmahera form of my funerea, figured in Smith & Kirby, Rhop. Exot. II. Delias t. VI. f. 1. 2 (1896), in the apex of the forewing above, the fringe of the forewing (except at inner angle) and of the hindwing, being black; the apical black area is small, extending 7 mm. along lower subcostals, but black colour of cellule before R<sup>2</sup> very restricted.

Underside: black apical area of forewing much smaller than in funerea funerea, the spots in it yellow, not white. Red markings of hindwing thinner, outer margin shaded with white scales.

Hab. Mount Mada, Buru, September 1898, 3000 feet (Dumas).

### SPHINGIDAE.

## 6. Cephanodes titan sp. nov.

This is the largest species of the genus, only being approached by Cephanodes woodfordi Butl.

9. Upperside: wings diaphanous, base, costal margin, and apex black, this apex 13 mm. wide between lower subcostal nervures, inner margin also black along its basal half. Base and abdominal margin of hindwings black.

Underside same as above, but margins brown, and base of both wings orange. Head, palpi, thorax, and abdomen above deep velvety black with iridescent steel-blue lights. Anal tuft orange-tawny in the centre. Underside, palpi buff, legs and thorax orange, abdomen as above, sixth and seventh segments strongly intermixed with orange, anal tuft more heavily marked with tawny orange than above, eyes bordered with white beneath.

Length of body 41 mm.

" " forewing 38 mm.

Hab. Amboina.

## 7. Panacra buruensis sp. nov.

This very distinct species is most nearly allied to P. mira Wlk. (= turneri Misk.).

Head and thorax above blackish chocolate, both with a stripe on each side fawn-colour, thorax besides with a central stripe of the same colour; abdomen dark brown, with a whitish grey middle line, sides much mixed with red. Underside of body deep dragon's-blood red (Ridgway, Nomencl. of Col. Pl. VII. 8). Palpi above dark fawn-colour, more reddish below.

Wings above brown.——Forewing much clouded with deep chocolate, this colour forming a large irregular patch extending from R³ to costal margin, narrowing in front, connected by a narrow band with a second patch situated at internal margin, both patches ill-defined, a third patch at internal margin near hinder angle of wing; from the inner side of this last patch runs a deep chocolate line to the apex of the wing, the line curved distad between the nervules, 5 mm. distant from outer margin at R¹, slightly curving outwards from M² to R¹; disc at proximal side of this line with glossy grey scaling; a band of 1½ mm. width from apex of wing R³, curved, not composed of lunules, continued as an indistinct line to patch at inner edge of wing, 3 mm. distant from postdiscal line at M¹, touching it in front, interspace faintly tinged with ochreous; a submarginal line, consisting of lunules curved proximad, less distinct than postdiscal line.——Hindwing: Prout's brown (Ridgway, l.c. Pl. III. 11), paler towards base, a deeper brown submarginal band, very ill-defined, shading off at both sides into ground-colour; fringe up to middle of outer margin nearly white.

Underside dark rufous; interno-basal area of forewing and outer margin of fore- and hindwing dark drab-brown; two parallel lines across disc of both wings of same colour, upper ends somewhat curved proximad, with an indication of a third line between the two.

Length: forewing 34 mm.

" hindwing 20 mm.

Hab. Mount Mada, Buru, 3000 feet, September 1898 (Dumas)

### SATURNIIDAE.

### 8. Coscinocera hercules heros subsp. nov.

3. Differs from the three known forms of hercules (see Nov. Zool. V. p. 99.

1898) especially in the shape of the small eye-spots.

Upperside somewhat darker than in hercules hercules, the bands a little more obscure. Eye-spot of forewing  $3\frac{1}{2}$  mm. distant from discal band, oblique, irregularly ovate, costal and basal sides forming almost a semicircle, outwardly as bluntly pointed as in omphale, diameters 11 and 7 mm.; hyaline centre 6 mm. long, standing obliquely to veins, triangular, but the angles rounded off, upper edge only  $2\frac{1}{2}$  mm. long (in the direction of veins). Eye-spot of hindwing transverse,  $7\frac{1}{2}$  mm. long, slightly oblique, ovate, pointing backwards, 5 mm. wide, outer side more oblique than inner side, 6 mm. distant from black discal line; hyaline centre transverse, a mere dash, of barely 1 mm. width.

On underside the hyaline spots are encircled with a dirty ochraceous line upon which follows costally and proximally a purplish black line, the hyaline spot of the

hindwing longer than above and wider.

Hab. Rossel I., Louisiade Archipelago (A. S. Meek, March 1898), 1 3.

I have also received a pair of Coscinocera hercules from Sudest Island; the 3 (which is badly damaged, both tails being wanting) agrees with the type of hercules heros almost perfectly, only the eye-spots of the wings being more rounded and slightly smaller. The 2 has the bands on both wings much more strongly and clearly marked than the 3, the eye-spots agree in shape with those of the 3, but are larger; widest distance of black ring of the spot of the forewing from black half-moon of cell 4½ mm., shortest distance from discal black line 1½ mm.; black ring of the spot of the hindwing 9 mm. distant from subbasal black line, 4 mm. from discal black line.

#### GEOMETRIDAE.

# 9. Milionia pumilio sp. nov.

Q. Body above and below glossy metallic green-blue; abdomen black beneath. Wings black. Upperside, forewing without gloss, except at extreme base, faintly blue in sidelight, a short streak at base before SM<sup>2</sup>, and a curved band across disc orange-ochraceous; the band of nearly even width, 4 mm. broad at R<sup>3</sup>, more distal anteriorly than in lativitta, and more distal posteriorly than in glauca glauca; fringe all black as in glauca.—Hindwing as in glauca from the Southern

Underside: band as above, metallic gloss as in glauca, more green-blue.

Length of forewing: 21½ mm.

Moluccas.

Hab. Sumba, September 1896 ; 1  $\,^\circ$  , received from Mr. H. Fruhstorfer Probably only a small race of glauca.

#### AGARISTIDAE.

# 10. Episteme conspicua sumatrana subsp. nov.

?. Body as in Bornean conspicua, Nov. Zool. III. p. 29. n. 6. (1896), but spots on mesonotum larger, with a bluish tint.

Forewing: whitish blue basal spots much larger than in conspicua, a small pale yellow spot at base of cell, extending a little beyond M; a transverse spot of same colour beyond middle of cell, 3 mm. broad, extending beyond SC, but not reaching edge of wing, followed behind by a large trapeziform patch, that expands between cell and SM<sup>2</sup>, with a few yellow scales behind SM<sup>2</sup>, widest behind, deeply concave proximally; discal band as in conspicua conspicua, deeper yellow; a series of eight small white submarginal dots between SC<sup>3</sup> and SM<sup>2</sup>, the last of which before SM<sup>2</sup> in the same place where there stands a larger yellow spot in Bornean conspicua, the upper six dots closer to band than in conspicua.—Hindwing as in conspicua, black discal half-band narrower.

Underside: postmedian cell-spot of forewing and patch behind it fused to form a pale yellow band; both this band and the discal one deeper in colour than in conspicua conspicua; submarginal spots all white as above (inclusive of posterior one).

Hab. Padang Sidempoean, West Sumatra (Ericsson, 1898), 1 2.

E. conspicua was hitherto known only from Mount Kina Balu, North Borneo.

#### SYNONYMICAL NOTE.

Ambulyx sexoculata Grote is not a variety of A. gannascus. The description given by Grote agrees exactly with the beautiful insect figured by Oberthür as A. depuiseti, Et. d'Ent. VI. p. 31. t. 5. f. 3 (1881). I possess three specimens from Colombia and Merida, Venezuela; the one Colombian example was caught by Professor Bürger in Bogota, in December 1896, at the electric light. The name of depuiseti sinks as a synonym of sexoculata.

A. crethon Boisd. from Peru (?) and schausi Rothsch. from Petropolis are the same species as A. eurysthenes Feld. from Colombia, though they represent most

likely geographical forms. Felder's name has priority.

"Eusemia" glossatrix Westwood (1881), erroneously said to be from South Africa, is a synonym of Scrobigera vulcania Butl. (1875) from Burma.



Rothschild, Lionel Walter Rothschild. 1899. "Some new eastern Lepidoptera." *Novitates zoologicae : a journal of zoology in connection with the Tring Museum* 6, 67–71.

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