Some new Butterflies

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10. Cardiophorus yanagiharana MIWA (n. sp.)
11. Paracardiophorus nigro-apicalis MIWA (n. sp.)
12. Neodiploconus angulatus CANDÈZE
13. Neodiploconus melanopterus CANDÈZE
14. Neodiploconus ciprinus CANDÈZE
15. Neodiploconus ferrugineipennis MIWA (n. sp.)
16. Spheniscoomus pilosulus MIWA (n. sp.)
17. Spheniscoomus horishanus MIWA (n. sp.)
18. Spheniscoomus fuscom FABRICIUS
19. Melanotus ventralis CANDÈZE
20. Melanotus castanipes PAYKULL
21. Melanotus legatus CANDÈZE
22. Cremnostethus tefum CANDÈZE
23. Melittaulacus formosanus MIWA (n. sp.)

SOME NEW BUTTERFLIES

By
PROF. DR. S. MATSUMURA

Papilio memnon thunbergi SIEB. (Pl. III, fig. 1, ♀)
ab. takamukui n. ab.
♀. This differs from thunbergi meta FRUIHST. in the following characters:
1. Secondaries on the upperside lacks entirely the white markings.
2. Secondaries on the underside with a few whitish part in the interspace 2
   at the insides of the upper black patch, which is wanted by thunbergi SIEB.
   This resembles also subsp. agenor L., but differs in lacking a broad band
   which runs along the inner margin of the secondaries.

Hab.—Kiushu; one single specimen was collected by T. TAMANUKI at Kaga-
oshima.

ab. shikokuana n. ab. (Pl. III, fig. 6, ♀)
♀. Differs from subsp. thunbergi SIEB. as follows:
1. Reddish patch at the base on the upperside of the primaries smaller and narrower.

2. 4 discal white patches only on the upperside of the secondaries, while on the underside with only 3; underside of the secondaries lacks reddish lunular markings near the middle of each interspace, which are conspicuous in *thunbergi* Sieb.

Hab.—Shikoku; one single specimen was collected on the 20th of August, 1926, by K. Fujii at Uwajima.

*Papilio thaiwanus watanabei* n. ab. (Pl. III, fig. 2, ♀)

♀. Differs from the typical *thaiwanus* Roths. in lacking rosy lunular spot-series which runs from the anal angle to the patch of the 5th interspace, the latter being smaller and that of the 6th truncated at the outside.

Hab.—Formosa; one single specimen was collected in 1906 at Mt. Gakoki by the late K. Watanabe, chief of policemen at Hoppo.

*Papilio maackii jezoensis* n. subsp.

♂. Differs from the subspecies *raddei* Brem. in the following points:

Upperside—Secondaries with a much broader bluish postdiscal band, at the costal half being concolorous with the ground colour, while in the typical *raddei* the band greenish and the costal half bluish.

Underside—Primaries with the outer ¼ whitish grey, only at the extreme termen being fuscous; secondaries with a broader whitish band which is somewhat expanded at the interspace 3, being nearly twice as broad as that of *raddei*.

Hab.—Hokkaido; 2 male specimens were collected on the 28th of June, 1897, at Atsubetsu near Sapporo.

*Papilio maackii mandschurica* n. subsp.

Differs from *raddei* as follows:

♀. Upperside—Primaries dark brown, scattered with very few golden green scales; postdiscal band pale yellowish green, being somewhat broader than that of *raddei*. Secondaries with much larger reddish lunules, the greenish
postdiscal band somewhat narrower and at the costal half not bluish coloured as in raddei.

Underside—Primaries whitish grey, with a few fuscous scales, a narrow part of the termen and longitudinal stripes in the interspaces as well as in the discoidal cell being fuscous. Secondaries with very large reddish ocellar patches, pupilated with each a velvety black spot.

Hab.—Manchuria; one female specimen was collected on the 14th of July, 1924, by D. Miura at Koshurei.

_Hypolimnas bolina inornata_ n. ab. (Pl. III, fig. 8, δ)

♂. Differs from the typical specimen in having no whitish blue patch on the upperside of secondaries.

Hab.—Formosa; one male specimen was collected on the 21st of July, 1918, by S. Watari at Horisha.

_Argynnis paphia formosicola_ n. subsp.

Closely allied to _paphioides_ ButL., but differs from it in the following points:

♂. Upperside—Primaries somewhat broader, deeper in colour, black patches much larger, those of the marginal series especially larger, being mostly confluent with the marginal black line; in the interspace 1\textsuperscript{b} and 2 with each 3 black patches, while in _paphioides_ lacks the inner spot. Secondaries with also much larger spots in the marginal region.

Underside—Patches of primaries correspond to those of the upperside and much larger; apex dark greenish with 2 or 3 broadly yellowish patches in it. Secondaries more deeply dark green with broader silvery bands, that of the 2\textsuperscript{nd} being broad; on the postmedial region with a series of 4 fuscous spots, having each a paler pupil; at the submarginal region with a dark purplish line.

Hab.—Formosa; one male specimen was collected on the 12th of July, 1925, by T. Uchida, Y. Miwa and H. Kôno.

_Argynnis selene chibiana_ n. subsp. (Pl. III, fig. 4, ☯)

Closely allied to _selene dilutor_ Fix., but differs from it as follows:

♂, ☯. Upperside—Primaries with much larger black spots especially in the cell, at the base being distinctly infuscated; black spots of the marginal series larger and roundish, defined inwardly by a series of roundish yellowish spots. Secondaries at the basal \textfrac{3}{4} infuscated, so that the basal spot of the cell being invisible.

Underside—Markings of the primaries correspond to those of the upperside, being distinctly larger; secondaries with 2 large brownish patches, respectively,
one near the apex and another near the anal angle, so that the black spots of
the submarginal region not conspicuous.

Hab.—Kuriles; numerous male and female specimens were collected on the
first part of August, 1927, by K. Doi at Horomoshuru.

**Melitaea maturna konumensis** n. subsp. (Pl. III, fig. 5, ♀)

Differs from the typical specimens as follows:

♀, ♂. Upperside—Yellowish spots of the marginal series to primaries
much larger, those of the female being similar to those of the submarginal
series; pale yellowish spots of the marginal series to secondaries very small and
not conspicuous, spots of the cell to primaries being much larger.

Underside—Postdiscal yellowish band towards the dorsum not divided into
2 as in the typical specimen.

♂️ 46 mm.; ♀ 50—56 mm.

Hab.—Saghalien; 4 (♀, ♀) were collected on 6th of July, 1927, by Y.
Miwa and S. Minowa at Konuma.


**Thecla eximia watarii** n. subsp. (Pl. III, fig. 3, ♀)

Closely allied to *eximia fixeni* Leech, but differs from it in the following points:

♀. Upperside—Primitives in the middle with a transverse, conical, orange
patch which becomes suddenly narrower from the discocellulars towards the
base, and which extends beyond the postmedial line and ends at the fork of
the 2nd and median veins. Secondaries with 2 orange spots, respectively, one
at the anal angle and another near the end of the interspace 2, that of the anal
angle being obsolete.

Underside—Nearly the same with that of *fixeni* Leech, but the submarginal
series of fuscous spots to primaries prominent, which becomes smaller towards
the interspace 6, that of 6 being very obsolete, and some orange spots being
visible near the hind angle.

Hab.—Formosa; one male specimen was collected on the 14th of June,
1918, by S. Watarai at Horisha.

**Taraka hamada formosana** n. subsp. (Pl. III, fig. 7, ♂)

Closely allied to subsp. *jezoensis* Mats.,* but differs from it in the follow-
ing points:

♂, ♀. Primaries in the middle scarcely paler. Underside with much smaller

*Thousand Insects of Japan, Add. III, p. 735 (1917).
black spots, none of which are not connected with each other; termen of the, primaries with only 2 or 3 spots, while that of the secondaries having none.

Antennae on the inner sides orange yellow.

Hab.—Formosa; 3 (1 ♂, 2 ♀) specimens were collected on the 25th of October, 1926, by K. KIKUCHI at Baibara in the district of Horisha.

Lycaena arionides sugitani ♀ n. subsp. (Pl. III, fig. 10, ♂)

This differs from the typical specimens as follows:

♂. Primaries with a very broad black margin (about 3 mm. in width); discoidal lunule large and not divided into 2 as in the figure 1*b of the typical specimen given by STAUDINGER; underside along the submarginal spot-series much infuscated.

Secondaries with a similar broad black margin as that of the primaries, so that the spot-series on the submarginal region indistinct, having a series of bluish spots on that place; black discal spots distinctly larger; underside with larger spots in a series.

Hab.—Corea; 2 male specimens were collected on 30th, July, 1927, by Prof. I. SUGITANI at Choanji.


Lycaena euphemus shiriyensis ♀ n. subsp. (Pl. III, fig. 9, ♂)

Closely allied to euphemus ogumae from Saghalien, but differs from it in having a broad black margin to both wings (about 3 mm. in primaries and 4 mm. in secondaries); underside much darker, but somewhat paler than that of kasaki moto DRUCE.

Hab.—Honshu (Aomori); 6 (5 ♂, 1 ♀) specimens were collected on 8th, August, 1927, at Shiriya by H. KÔNO.

*Rom. Mém. III, p. 141, pl. VII, fig. 1 a, b, c (1887).

摘要

本文には九の区種と五の異常形を記載せり。此内コゲハラハモンモドキとセフセンオウゴツシウミほ見として日本領土内初めての発表なり。此等の標本は高橋勝吉、渡正監、杉谷保彦、三浦尚哉、内田登一、三輪篤四郎、河野博道、土井久作、笼輪重胤、菊地寛治、藤井吉之達諸氏の模索に係るものなれば、彼等諸氏に向けして深謝の意を表す。
EXPLANATION OF PLATE III

1. *Papilio mnnnon thunbergi takamukui* Mats. (n. ab.) ♀
2. *P. thaiwanus watanabei* Mats. (n. ab) ♀
3. *Thecla eximia watarii* Mats. (n. subsp.) ♀
4. *Argynnis selene chibiana* Mats. (n. subsp.) ♀
5. *Melitaea maturna konumensis* Mats. (n. subsp.) ♀
6. *Papilio mnnnon shikokuana* Mats. (n. ab.) ♀
7. *Taraka hamada formosana* Mats. (n. subsp.) ♂
8. *Hypolimnas bolina inornata* Mats. (n. ab.) ♂
9. *Lycaena ephemer us shiriensis* Mats. (n. subsp.) ♂
10. *L. arioides sugitani* Mats. (n. subsp.) ♂