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10. Cardiophasus yanagiharae MIWA (n. sp.)
11. Paracardiophasus nigro-apicalis MIWA (n. sp.)
12. Neodiploconus angulatus CANDÉZE
13. Neodiploconus melanopterus CANDÉZE
14. Neodiploconus ciprinus CANDÉZE
15. Neodiploconus farrugineipennis MIWA (n. sp.)
16. Spheniscoomus pilosulus MIWA (n. sp.)
17. Spheniscoomus horishanus MIWA (n. sp.)
18. Spheniscoomus fuscus FABRICIUS
19. Melanotus ventralis CANDÉZE
20. Melanotus castanipes PAYKULL
21. Melanotus legatus CANDÉZE
22. Creminostethus telum CANDÉZE
23. Metriaulacus 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 mela_ FRUHST. 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 KAGOSHIMA.

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* RothsCh. 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 ⅜ 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 *jezoensis* Mats. in having a greenish blue band on the upperside of secondaries and a much narrower whitish band on the underside of primaries.

Hab.—Hokkaido; one male specimen was collected on the latter part of May, 1918, by S. Isshiki.

*Papilio maackii isshikii* n. ab.

♂. Differs from *jezoensis* Mats. in having a greenish blue band on the upperside of secondaries and a much narrower whitish band on the underside of primaries.

Hab.—Hokkaido; one male specimen was collected on the latter part of May, 1918, by S. Isshiki.

*Papilio maackii 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 \textit{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.

\textit{Hypolimnas bolina inornata} n. ab. (Pl. III, fig. 8, \&)

\&. 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.

\textit{Argynnis paphia formosicola} n. subsp.

Closely allied to \textit{paphioide\textbf{s} 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 $1_2$ and $2_3$ with each 3 black patches, while in \textit{paphioide\textbf{s}} 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 2nd 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.

\textit{Argynnis selene chibiana} n. subsp. (Pl. III, fig. 4, \&)

Closely allied to \textit{selene dilutior} 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 $\frac{1}{2}$ 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.

Fxp.—♀ 46 mm.; ♂ 50–56 mm.

Hab.—Saghalien; 4 (2 ♀, 2 ♂) 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—Primaries 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. WATARl 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:

Much smaller in size: ♂ 20 mm., ♀ 25 mm.

♂, ♀. 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 1b* 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.

Nom. Jap.:—*Chosen-ogoma-shijimi*.

**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 *kazamoto* 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).*

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**Summary**

This paper concerns the description and the distribution of *Lycaena euphemus shiriyensis* and *Lycaena arionides sugitani*. Both species are new subspecies described in this document. The former is found in Corea, while the latter is from Formosa. The former has a broad black margin on both wings, whereas the latter has a similar margin on the primaries but not on the secondaries. The underside of both is much darker in the new subspecies compared to the typical specimens.

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

1. *Papilio mnnnon thunbergi takamukui* Mats. (n. ab.) ♀
2. *P. thaiwanus watamabei* 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. *Lycana euphemus shiriensis* Mats. (n. subsp.) ♂
10. *L. arioides sugitanii* Mats. (n. subsp.) ♂