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Author(s)	Matsumura, S.
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SOME NEW BUTTERFLIES FROM KOREA RECEIVED FROM MR. T. TAKAMUKU

By

PROF. S. MATSUMURA

Recently I have received a small lot of the butterflies from Korea sent by Mr. T. TAKAMUKU. Among these butterflies I have found some new forms, which I want to describe in this occasion. These were collected at Kyozyo in the Prov. Kankyohokudo, the northern part of Korea, during May to July in 1928.

1. *Aporia hippia takamukuana* n. subsp.

Differs from the subsp. *japonica* MATS. as follows:

Upperside—Primaries very narrowly fuscous at the termen and apex; at each side of veins not infuscated except near the apices; the discocellular marking narrower, being somewhat enlarged at the lower angle. Secondaries distinctly becomes narrower towards the apico-termen, at the end of vein 6 being not infuscated.

Underside—The veins at each side much narrowerly infuscated, so that the yellowish colouring being more conspicuous, especially on the secondaries.

Hab.—Korea; one male which was collected on the 25th of June, 1928, sent to me for identification.

2. *Neptis hylas curvata* n. f.

Differs from the form *intermedia* PRYR. in having a distinctly longer conical marking at the discocellulars to primaries, upperside, which curves downwardly, accompanied by a small white speck at the outside, in the midway between the marking and submarginal spot-series; the submarginal series of white spots distinct towards the costa. Submarginal white band to secondaries distinctly narrower. Underside more darker brown, the marking being nearly the same with that of the upperside.

Hab.—Korea; at least two males were collected on the 30th of May, 1928, and one of which was sent to me for identification.

3. *Limenitis helmanni chosensis* n. subsp.

Differs from the form *pryeri* MOOR. in the following characters:

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Upperside—Primaries with the longitudinal stripe at the base truncated obliquely at the apex; the spot-series beyond the discocellulars consists of 4 spots, that in the interspace VII being very narrow; the spot in the III very small and inconspicuous.

Secondaries with the submarginal band very inconspicuous, the white lunules to secondaries being much narrower.

Hab.—Korea; two females were collected on the 20th of July, 1928, and one of which was sent to me for identification.

I have also 2 (1 ♂, 1 ♀) specimens of this form collected by F. SHO at Mt. Hakuto (Korea).

4. *Argynnis adippe numerica* n. f.

♀. Differs from the form *xanthodippe* FIXS., upperside, in having smaller black markings and much infuscated ground colour to both wings. The silvery spots at the marginal series to secondaries, underside, much larger, while the basal spots being much smaller, the discal spot roundish and not elongated as in the *xanthodippe*; the brownish spots in the submarginal series smaller, lacking the spot in the interspace IV; in VI with 4 silvery spots, that of the innermost being a spindle-shaped and inconspicuous.

Hab.—Korea; one female specimen which was collected on the 20th of July, 1928, sent to me for identification.

5. *Argynnis adippe non-argentata* n. f.

♂. Closely allied to the form *coredippe* LEECH, but differs from it in having a marginal series of larger spots which mingle some silvery scales; the three basal spots silvery, the discal spot and the spot below it whity, mingling some silvery scales.

Hab.—Korea; one male which was collected on the 20th of July, 1928, sent to me for identification.

6. *Argynnis adippe mumon* n. f.

Differs from the form *vorax* BUTL. in lacking the marginal series of silvery spots to secondaries, underside, which are pale yellowish, mingling very few silvery scales; all the silvery spots smaller, one of which at the end of cell is roundish.

Hab.—Korea; two males were collected on the 20th, July, 1928, and one of which was sent to me for identification.

7. *Argynnis adippe fluvescens* n. f.

♀. Differs from the form *coredippe* LEECH in having darker suffusion, upperside, the yellowish spots being so conspicuous. Underside to secondaries greenish yellow, with no silvery spot; the marginal series of lunular spots pale yellowish, defined outwardly by a dark greenish band.

Hab.—Korea; two females were collected on July 11, 1928, and one of which was sent to me for identification.

8. *Argynnis nerippe acuta* n. f.

♂. Differs from the form *coreana* BUTL. in having more reddish yellow upperside to both wings and all the black spots much smaller; the silvery spots of the medial series larger and conspicuous, lacking the marginal series of silvery spots; the discal silvery spot in the cell narrower, acuminate at both ends.

Hab.—Korea; two males were collected on June 14, 1928, and one of which was sent to me for identification.

9. *Argynnis daphne mediofusca* n. f.

♂. Differs from the form *fumida* BUTL. in having a paler ground colour to both wings, the black spots being distinctly smaller except those of the submarginal series, which are nearly the same with those of the postmedial series; the pale violet lunules of the submarginal series to secondaries, underside, much broader, at the innerside of the ocellar series with a fuscous band which extends from vein 1^b to 5.

Hab.—Korea; two males were collected on July 5, 1928, and one of which was sent to me for identification.

10. *Argynnis laodice producta* n. f.

♂. Differs from the form *japonica* MÉN. in having more deeper purplish colour at the outer half, a narrower antemedial brownish line and broader silvery spots in the interspaces II and V, that in the latter being much produced internally; the violet lunules of the submarginal series much broader, each defined by a dark greenish spot at the innerside.

Hab.—Korea; two males were collected on July 20th, 1928, and one of which was sent to me for identification.

11. *Argynnis aglaia clavimacula* n. f.

♂. Differs from the form *fortuna* JANS. in having the apico-termini to both wings, upperside, entirely black, the black lunules of the submarginal series being contiguous to the marginal line at both ends. The discocellular spot to primaries clavate, somewhat 6-shaped. The geniculated black medial band to

secondaries more acutely produced towards the termen.

The silvery spot in the middle of cell to secondaries, underside, entirely wanted.

Hab.—Korea; two male were collected on June 25, 1928, and one of which was sent to me for identification.

12. *Argynnis selenis takamukuella* n. f.

♀. Differs from the form *onorensis* MATS. from North-Saghalien in having larger black markings which are fused together so as to make some bands; the termen to both wings, upperside, black; the discocellular marking to primaries widely apart from the inner geniculated marking; the dorsal margin except the extreme margin (1^a and 1^b) to secondaries entirely black, the black speck in the middle of cell being contiguous to black dorsum at the lower part.

Compared with the form *sibirica* ERSCH., two white spots respectively in the middle of the interspaces I^c and VII to secondaries, underside, much larger, the white postmedial band being much conspicuous, with a violet shade; at the apex and tornus with each two white spots.

Hab.—Korea; two females were collected on May 30, 1928, and one of which was sent to me for identification.

13. *Melitaea athalia conica* n. f.

♀. Differs from the form *latefascia* FIXS. in having much broader black bands to both wings, upperside, the yellowish brown markings being more conspicuous; the medial and postmedial black bands to primaries, underside, broader and only conspicuous from vein 4 to the costa. The yellowish marking in the middle of cell to secondaries, underside, much larger and of a conical shape; the submarginal brownish band much broader, which is bordered internally with a zigzag black line, being obsolete towards the costa; the yellowish lunules of the submarginal series much smaller.

Hab.—Korea; two females were collected on July 20, 1928, and one of which was sent to me for identification.

14. *Melitaea athalia flavescens* n. f.

♂. Differs from the form *conica* MATS. in having narrower postmedial black bands and smaller yellowish brown spots in the submarginal series to both wings, upperside. The medial and postmedial bands to primaries, underside, narrower, lacking a submarginal series of yellowish spots at the apico-termen; the broad medial white band replaced by fulvous, the black zigzag line at the innerside of the brown submarginal band entirely wanted, the marginal series of yellowish white lunules fulvous, each lunule being much broader.

Hab.—Korea; two males were collected on July 20, 1928, and one of which was sent to me for identification.

15. *Pararge achine chosensis* n. f.

♂, ♀. Differs from the form *achinoides* BUTL. in having very obsolete white postmedial band to primaries, the ocelli to both wings being encircled with much narrower yellowish rings, lacking the ocellus in the interspace 1^c entirely. In the female with a small ocellus in the interspace IV. The postmedial white band to both wings, underside, much narrower, especially so in the secondaries, lacking almost the white discocellular stripe to primaries and white spot to secondaries, which are quite obsolete. The ground colour on both surfaces conspicuously darker than in the *achinoides* BUTL.

Hab.—Korea; one male, which was collected on July 20, 1928, sent to me for identification.

I have a female of this form, which was collected on July 15, at Mt. Daitoku, Korea, by F. SHO.

16. *Augiades slyvanus chosensis* n. f.

♂. Differs from the form *amurensis* MAB. in having the dorsum to primaries, underside, broadly black, this coloured region being interrupted before the base of vein 2 and at the termen, and a conspicuous black spot just below the cell.

This differs from the form *selas* MAB. in having paler markings on both upper- and undersides and a broad black dorsum to primaries, underside.

Hab.—Korea; one male specimen, which was collected on July 20, 1928, sent to me for identification.

摘 要

今回高橋悌吉氏は北方朝鮮の蝶を多数送附し來れるが、その内に上の如き十六の新形を發見したれば茲に發表することにせり。その内タマノエテフ(ミヤマシロテフ)は亞種となすべきものと思考す。終りに同氏に向つて少なからざるの好意を深謝す。