Additional Notes on Japanese Stag-beetles

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Though the Japanese stag-beetles are well studied, new names are required for insular forms of several species, especially for those from the Ryûkyû Archipelago.

Lucanus maculifemoratus Motschulsky, 1861

This species has three forms in Japan, viz., *maculifemoratus* MOTSCHULSKY, s. str. from central Honshû, *hopei* PARRY, 1862, from Hokkaidô and mountainous areas of Honshû, and *elegans* PLANET, 1898, from hilly areas of Honshû, Shikoku and Kyûshû. These forms are distinguished from one another by the form of the mandibles in the male, but are indistinguishable in the female.

In 1972, Dr. T. Nakane examined the type-specimen of *L. maculifemoratus* Motschulsky preserved in the Zoological Museum, University of Moscow, and found that it is nothing but a medium-sized male of so-called "form *elegans* Planet, 1898". *Lucanus maculifemoratus* var. *elegans* described by M. Planet in 1898 from "Yeso" is a mere synonym of *L. hopei* Parry, 1862, and the name f. *maculifemoratus* Motschulsky, 1861, must be used for the so-called form "*elegans* Planet". Therefore, the new name, *nakanei* m. is herewith given for the so-called form "*maculifemoratus* Motschulsky", because there is no available name for it.

The three forms of this species may be distinguished by the points mentioned in the following key.

Lucanus balachowskyi Lacroix, 1968, described from Mukoda, South Kyûshû, is nothing but a synonym of f. maculifemoratus Motschulsky s. str. Its typespecimen, which is preserved in the Muséum National d'Histoire Naturelle, Paris,

and was examined by the present author, is the minute form of maculifemoratus.

In Hokkaidô, f. hopei Parry is the sole inhabitant, and it is also found in the northern and central hilly areas of Honshû and rarely in the central mountainous part of Kyûshû. On the contrary, the Izu-Hakone district, including Mt. Fuji and the northern Izu Islands, is solely occupied by f. nakanei m. The latter is also rarely found in Sado, northern Honshû and Shikoku, which are mainly occupied by maculifemoratus, a form that has the widest distributional range of the three. The details of their distribution will be discussed in another paper.

Neolucanus saundersi insulicola subsp. nov.

Differing from typical *saundersi* PARRY, 1864, described from North India, in the form of male mandibles, which are robuster, with the basal erect dentation robuster, larger, and about as long as the apical erect dentation.

Length: 32.5–49.0 mm (without mandibles), 37–60 mm (with mandibles) (male), 40.5–44.0 mm (without mandibles), 45–48 mm (with mandibles) (female); width: 15–24 mm (male), 21–23 mm (female).

Holotype: ♂, Funaura, Iriomote-jima I., 1968; allotype and a paratype: 2 ♀♀, Ôhara, Iriomote-jima I., 20–30. xi. 1973, T. IMAIZUMI lgt.; paratypes: 1 ♂, Kabira, Ishigaki-jima I., 30. iii. 1936, T. Kano lgt.; 1 ♂, Ôhara, Iriomote-jima I., 20–30. xi. 1973, T. IMAIZUMI lgt.; 1 ♂, Hiraé, Ishigaki-jima I., v. 1960, MIYARA lgt.; 1 ♂, Ôhara, Iriomote-jima I., 1. xi. 1963, H. HASEGAWA lgt.

Range. Ryûkyû Islands (Yaéyama group).

Neolucanus saundersi protogenetivus subsp. nov.

Differing from the preceding subspecies in the shape of oculofrontal ridge, which is longitudinally truncate and not produced lateroanteriorly.

Length: 48.5 mm (with mandibles), 41 (without mandibles) (male); 43–44 mm (without mandibles), 47–48 mm (with mandibles) (female); width: 20 mm (male), 22.0–22.6 mm (female).

Holotype: Nishikata-son (Setouchi-chô at present), Amami-Oshima I., 25. ix. 1937, Y. Maki lgt.; allotype and a paratype: 2 \copp, Mt. Yuwan-dake, Amami-Ôshima I., 29. ix. 1937, Y. Maki lgt.

Range. Ryûkyû Islands (Amami group).

Prosopocoilus motschulskyi pseudodissimilis subsp. nov.

Differing from typical *motschulskyi* Waterhouse, 1869, known from Formosa in the following points: 1) mandibles slenderer, similar to those of *dissimilis okinawanus* Nomura, 1962, described from Okinawa; 2) body above brighter. From *dissimilis* Boileau, 1898, known from the Amami and Okinawa groups of the Ryûkyû Archipelago, it is distinguishable by the shape of clypeus, which is almost identical with

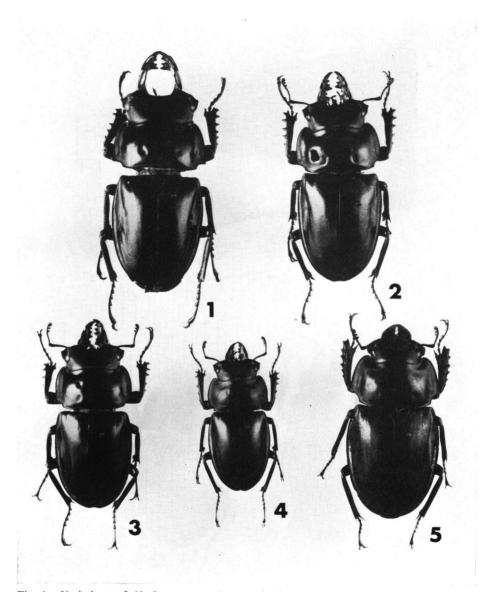


Fig. 1. Variations of *Neolucanus saundersi insulicola* Y. Kurosawa, nov. —— 1–4, Male; 5, female. 1, Holotype; 5, allotype.

that of Formosan motschulskyi WATERHOUSE.

Length: 24.8–38.5 mm (without mandibles), 34.5–55.5 mm (with mandibles) (male), 23.2–26.5 mm (without mandibles), 25.0–28.5 mm (with mandibles) (female); width: 10.0–15.8 mm (male), 11.0–12.3 mm (female).

Holotype and a paratopotype: 2 33, Ishigaki-jima I., 19. vi. 1974, H. MAKI-

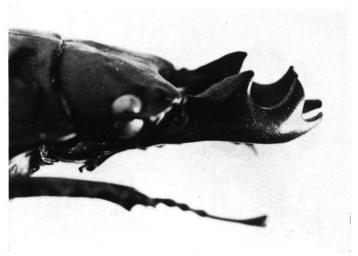


Fig. 2. Head of the maximum male of *Neolucanus saundersi insulicola* Y. Kurosawa, nov., in lateral aspect (holotype).

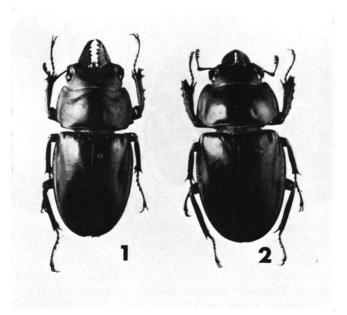


Fig. 3. Neolucanus saundersi protogenetivus Y. Kurosawa, nov. —— 1, Male; 2, female.

HARA lgt.; allotype (♀) and a paratype (♂): 1 ♂ 1 ♀, Ishigaki-jima I., 30. vi. 1969, Y. Kusui lgt.; paratypes: 1 ♂, Shirahama, Iriomote-jima I., 30. v. 1973, Y. Kurosawa lgt.; 1 ♂, Inda, Iriomote-jima I., 6. viii. 1968, H. Ôhira lgt.: 2 ♀♀, Mt. Banna-dake, Ishigaki-jima I., 16 & 25. vi. 1974, H. Makihara lgt.; 1 ♀, Ôhara, Iriomote-jima I.,

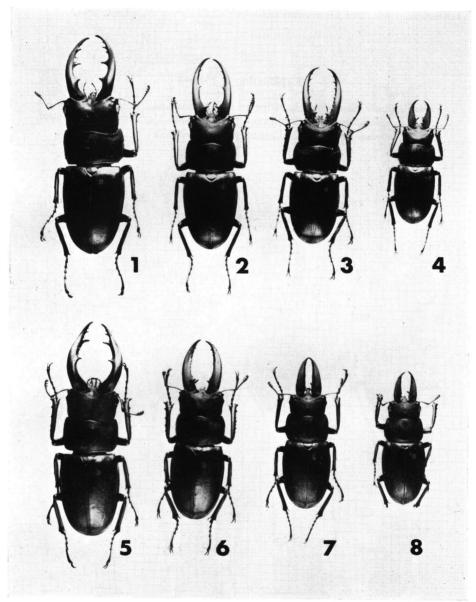


Fig. 4. *Prosopocoilus motschulskyi pseudodissimilis* Y. Kurosawa, nov., from the Yaéyama group of the Ryûkyû Archipelago (1–4) and *Prosopocoilus motschulskyi motschulskyi* Waterhouse, s. str., from Formosa (5–8).

23. vi. 1974, H. Makihara lgt.

Range. Ryûkyû Islands (Yaéyama group).

This subspecies may be placed between Formosan motschulskyi motschulskyi

WATERHOUSE, 1869, and Okinawan dissimilis okinawanus Nomura, 1962.

Explanation of Plate 1

- 1–4. Lucanus maculifemoralis Motschulsky, form nakanei Y. Kurosawa, nov.
- 5-8. L. maculifemoralis Mostchulsky, form maculifemoralis Motschulsky, s. str.
- 9-12. L. maculifemoralis Motschulsky, form hopei Parry.

