

## Records of Some Beetles of the Suborder Adephaga (Coleoptera) from Honshu, Japan<sup>1)</sup>

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**Abstract** Records are given for 4 species of cicindelids, 9 species of carabids and 1 species of dytiscid collected in 1993 in Honshu.

In the summer 1993, Dr. N. V. KURZENKO and A. S. LELEJ took part in a joint field survey in Honshu with Dr. Sk. YAMANE and other Japanese entomologists. The main task was to collect any kind of wasps in different biotopes but a small number of beetles were also collected. In this paper the results of our study on the beetles of the suborder Adephaga is given. The list contains 4 species of cicindelids, 9 species of carabids and 1 species of dytiscid. All materials mentioned here were collected by A. S. LELEJ and deposited in the collection of the Institute of Biology and Pedology, Vladivostok. The taxonomic part of this paper was prepared by G. Sh. LAFER. Most species contained in the list are well known in Japan but we hope that new records of some of them may be interesting for coleopterists.

Before going further, we should mention herewith that we are much indebted to Prof. A. SHIBATANI of Kyoto Seika University, Prof. Sk. YAMANE of Kagoshima University, Mr. S. SUGI, Tokyo, Dr. S. MORIUTI of the University of Osaka Prefecture, Dr. Y. MAETA of Shimane University, Dr. S. YAMANE of Ibaraki University, Dr. A. SHIMIZU, Mr. T. TANO, Mrs. C. NOZAKA, Mr. H. KUROKAWA, Mr. T. MUROTA, Mr. Y. HANEDA, Mr. E. NOZAKI, Mr. H. ITAMI and Mr. T. NAMBU for their kind help during the collecting trip in Honshu. We also wish to express our hearty thanks to Dr. Shun-ichi UÉNO of the National Science Museum (Nat. Hist.), Tokyo, for critically reading the original manuscript of this paper and for its publication.

### Fam. Cicindelidae

1. *Cicindela (Apterodela) ovipennis* LEWIS

1 ♂, Plateau Akakura-kôgen, 1,000 m in altitude, Niigata Pref., on a hard ground road in a broadleaved forest, 27–VII–1993.

2. *Cicindela (Eugrapha) elisae* MOTSCHULSKY

2 ♂♂, 1 ♀, Sanri-hama, Fukui Pref., on sand at the mouth of a small stream, 28–VII–1993.

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3. *Cicindela (Cicindela) japana* MOTSCHULSKY

1 ♂, Plateau Kurohime-kôgen, 900 m in altitude, Nagano Pref., forest glades and roads, 26–VII–1993. The basic colour of body is black. 1 ♀, Plateau Akakura-kôgen, 1,000 m in altitude, Niigata Pref., on hard ground roads and bald spots among grass on glades in a broadleaved forest, 27–VII–1993. 1 ♀, Taniyama, 500–600 m in altitude, Ôno-shi, Fukui Pref., on glades in a broadleaved forest, 29–VII–1993. The basic colour of both the females are greenish-coppery with dark blue points.

4. *Cicindela (Sophiodela) chinensis japonica* THUNBERG

1 ♀, Ogura Park in Mino-shi, Gifu Pref., 4–VIII–1993, a forest glade at the top of a hill.

## Fam. Carabidae

1. *Carabus (Ohomopterus) insulicola insulicola* CHAUDOIR

1 ♀, Plateau Akakura-kôgen, 1,000 m in altitude, Niigata Pref., in a broadleaved forest with Sasa, 27–VII–1993.

2. *Poecilus (Macropoecilus) fortipes* CHAUDOIR

1 ♀, Plateau Akakura-kôgen, 1,000 m in altitude, Niigata Pref., a glade in a broadleaved forest, 27–VII–1993.

3. *Amara (Amara) silvestrii* BALIANI

2 ♂♂, Akuta, Hachiman-chô, Gifu Pref., 4–VIII–1993.

This rare species described from Yunnan Province, China, is characterized by rather vast range of distribution. HIEKE (1981, p. 196) reported it from the south of Ussuri Region, Korea, eastern and southeastern China, northern Burma and from southern Japan, but he did not indicate detailed localities. This species was included in "A Check List of Japanese Insects, Vol. 1" (1989) from "southern Japan" but was not mentioned by K. TANAKA (1985) in "The Coleoptera of Japan in Color, Vol. 2." This is why we hope that new occurrence of *A. silvestrii* in Honshu will be interesting for Japanese specialists. In the Primorye Territory, this species is found only on the two small islands (Bolshoi Pelis Il. and Furugelm Il.) in Peter the Great Bay.

From two related species of the subgenus *Amara* (s. str.), *A. similata chalcites* DEJEAN and *A. congrua* A. MORAWITZ, with which it shares the basal setiferous pores on the elytra and two-coloured legs, *A. silvestrii* is distinguished by notably larger size and peculiar armature of endophallus, which bears a large dark, more or less cylindrical structure with rounded apical end at the left lateral wall (HIEKE, 1975, p. 309, fig. 34; LAFER, 1989, pp. 160, 165, figs. 104–3 and 109–3). From *A. similata chalcites*, it is easily distinguished by deep and close punctures on the metepisterna. The aedeagus was investigated in one of these specimens. In spite of being slightly immature, they are good for study. The size and standard ratios of the body parts are as follows: L 10.0, 9.50; Ls 9.70, 9.75; EL 6.00, 6.00; EW 4.50, 4.45; HL 0.90, 1.05; HW 1.95, 1.95; PA 2.15; 2.20; PW 4.05, 4.03; PB 4.00, 3.85; PL 2.80, 2.70; PLm 2.45, 2.50; PW/HW 2.08, 2.07; PW/PL 1.45, 1.49; PB/PA 1.86, 1.75; EL/EW 1.33, 1.35; EL/PL 2.14, 2.22;

EW/PW 1.11, 1.10. The sculpture of the basal area of pronotum is variable in these specimens. In one of the two, both the basal foveae, inner and outer, are obviously more distinctive, and each covered with a few punctures. In the other, close punctures cover almost whole the basal area except for the middle part, so that the basal foveae are not quite distinctive.

4. *Amara (Amara) similata chalcites* DEJEAN

1 ♂, Taniyama, 500–600 m in altitude, Ōno-shi, Fukui Pref., 29–VII–1993.

5. *Harpalus (Harpalus) tinctulus* BATES

12 ♂♂, Niigata-shi, Niigata Pref., 19–VIII–1993. Slightly immature specimens.

6. *Chlaenius (Lissauchenius) posticalis* A. MORAWITZ

1 ♂, Plateau Kurohime-kôgen, 900 m in altitude, Nagano Pref., 26–VII–1993.

7. *Chlaenius (Chlaenius) virgulifer* CHAUDOIR

1 ♀, Shinshitsuko Oh-ike, Tsuchiura-shi, Ibaraki Pref., near a bog, 17–VIII–1993.

8. *Parena laesipennis* (BATES)

1 ♀, Matsue-shi, Shimane Pref., in a bamboo grove, 9–VIII–1993.

9. *Planetes puncticeps* ANDREWES

1 ♂, Mt. Haku-san, 300 m in altitude, Oguchi, Ishikawa Pref., 1–VIII–1993.

### Fam. Dytiscidae

1. *Eretes sticticus* (LINNÉ)

1 ♂, 1 ♀, Esaki, Gifu-shi, Gifu Pref., in a pool on a road near a river, 5–VIII–1993.

### 要 約

G. Sh. LAFER • A. S. LELEJ: 本州産オサムシ亜目甲虫類の記録。——1993年の日ロ合同調査で、本州各地からえられたハンミョウ科4種、オサムシ科9種およびゲンゴロウ科1種の甲虫類を記録した。これらの多くはよく知られている種であるが、岐阜県八幡町で採集されたウンナンマルガタゴミムシ *Amara silvestrii* BALIANI は、確実な産地の記録として重要である。

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