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MATERIALS FOR THE STUDY OF THE
NEUROPTEROID FAUNA
OF THE KURILE ISLANDS I

By

SATORU KUWAYAMA

Dr. Toichi UCHIDA has kindly asked the present writer to examine and give a report upon the neuropteroid insects of the Kurile Islands, or Chishima, belonging to the Entomological Museum of the Hokkaido Imperial University. The present material is of the collections made by Mr. K. DOI in 1925, 1926 and 1927, Mr. Y. SUGIHARA in 1935, and Dr. T. UCHIDA in 1935. It is a great pleasure to look over this interesting material, because so little is known of the fauna of the Kuriles. Since succeeding expeditions are now planned by the members of the above-mentioned Museum, it is proposed to publish the results of the writer's studies on this fauna from time to time under the above title.

Order NEUROPTERA

Suborder **Planipennia**

Family **Myrmeleontidae**

1. ***Myrmeleon formicarius*** LINNÉ

Hemerobius formicaleo LINNÉ, Syst. Nat., ed. X, p. 550 (1758).

Myrmeleon formicarius LINNÉ, Syst. Nat., ed. XII, p. 914 (1767); OKAMOTO, Wien. ent. Zeit., XXIX, p. 298 (1910); ESBEN-PETERSEN, Ent. Medd., XII, p. 124, Pl. VIII-fig. 25 (1918); OKAMOTO, Icon. Ins. Jap., p. 1532, Fig. 3025 (1932).

Locality: Kunashiri or Kunashir I. (Fushikokotan, 1 ♂, 7. VIII. 1925, K. DOI).

Distribution: Chishima (Kuriles), Karafuto (Saghalien), Hokkaido (Yezo), Honshu (Hondo), Shikoku, Kyushu, Chosen (Korea), Okinawa (Loo-choo), Taiwan (Formosa); China, Siberia, and Europe.

Trivial Name: *Ko-usuba-kagerô*.

Family **Chrysopidae****2. *Nineta vittata* (WESMAEL)**

Chrysopa vittata WESMAEL, Bul. Acad. Brux., VIII, p. 211 (1841); SCHNEIDER, Symb. Monog. Gen. Chrys., p. 65, Pl. VII (1851).

Nineta vittata NAVÁS, Ark. l' Inst. Cienc., 1915, p. 87 (1915); OKAMOTO, Rep. Hokkaido Agr. Exp. Sta., 9, p. 30, Pl. III-figs. 5-8, Pl. V-fig. 2 (1919); KUWAYAMA, Icon. Ins. Jap., p. 1542, Fig. 3046 (1932).

Locality: Shikotan (Shakotan, 1 ♀, 5. VII. 1925, K. DOI); Kunashiri (Maruyama, 2 ♂ ♂, 26. VII. 1935, T. UCHIDA); Uruppu or Urup I. (Tokotan, 1 ♀, 1. IX. 1927, K. DOI).

Distribution: Chishima, Karafuto, Hokkaido, Honshu; Europe.

Trivial Name: *Hoshi-kusa-kagerô*.

3. *Chrysopa intima* MACLACHLAN

Chrysopa intima MACLACHLAN, Trans. Ent. Soc. Lond., 1893, p. 230 (1893); OKAMOTO, Rep. Hokkaido Agr. Exp. Sta., 9, p. 36, Pl. I-fig. 5, Pl. III-figs. 13-16, Pl. VI-fig. 1; KUWAYAMA, Icon. Ins. Jap., p. 1541, Fig. 3044 (1932).

Locality: Etorofu or Yotorup I. (Shana, 1 ♂ 1 ♀, 10-20. VII. 1935, Y. SUGIHARA).

Distribution: Chishima, Karafuto, Hokkaido; Siberia.

Trivial Name: *Kusa-kagerô*.

Family **Osmylidae****4. *Eosomylus harmandinus* (NAVÁS)**

Osmylus harmandinus NAVÁS, Ann. Sec. Scient. Brux., 1910, p. 190 (1910).

Lysmus harmandinus NAVÁS, Revue Russe d' Ent., XI, p. 113 (1911).

Spilosmylus harmandinus NAKAHARA, Ann. Zool. Jap., VIII, p. 508 (1914).

Eosomylus ? ? *harmandinus* KRÜGER, Stett. ent. Zeit., LXXVI, p. 74 (1915); KUWAYAMA, Trans. Sapporo Nat. Hist. Sec., IX, p. 115 (1924).

Eosomylus harmandinus KUWAYAMA, Icon. Ins. Jap., p. 1538, Fig. 3037 (1932).

Locality: Kunashiri (Seseki, 1 ♂ 1 ♀, 27-28. VII. 1935, T. UCHIDA; Niki-shiro, 1 ♀, 17-22. VII. 1935, T. UCHIDA; Fushikokotan, 1 ♀, 7. VIII. 1925, K. DOI; Yambetsu, 1 ♂ 1 ♀, 22-25. VII. 1935, T. UCHIDA).

Distribution: Chishima, Karafuto, Hokkaido, Honshu, and Kyushu.

Trivial Name: *Hiroba-kagerô*.

5. *Osmylus tessellatus* MACLACHLAN

Osmylus tessellatus MACLACHLAN, Trans. Ent. Soc. Lond., 1875, p. 180 (1875), NAKAHARA, Ann. Zool. Jap., VIII, p. 511, Fig. 2 (1914); KRÜGER, Stett. ent. Zeit., LXXVI, p. 75 (1915); KUWAYAMA, Icon. Ins. Jap., p. 1537, Fig. 3036 (1932).

Locality: Kunashiri (Maruyama, 1 ♀, 26. VII. 1935, T. UCHIDA).

Distribution: Chishima, Hokkaido, Honshu, and Kyushu.

Trivial Name: *Unmon-hiroba-kagerô*.

6. *Plethosmylus hyalinatus* (MACLACHLAN)

Osmylus hyalinatus MACLACHLAN, Trans. Ent. Soc. Lond., 1875, p. 181 (1875); NAKAHARA, Ann. Zool. Jap., VIII, p. 516, Fig. 8 (1914).

Plethosmylus hyalinatus KRÜGER, Stett. ent. Zeit., LXXIV, p. 274 (1913); KUWAYAMA, Icon. Ins. Jap., p. 1537, Fig. 3035 (1932).

Locality: Kunashiri (Nikishiro, 1 ♂, 11. VIII. 1925, K. DOI; Maruyama, 1 ♂ 1 ♀, 26. VII. 1935, T. UCHIDA).

Distribution: Chishima, Karafuto, Hokkaido, Honshu, Shikoku; Siberia.

Trivial Name: *Sukashi-hiroba-kagerô*.

7. *Heliosmylus flavicornis* (MACLACHLAN)

Osmylus flavicornis MACLACHLAN, Trans. Ent. Soc. Lond., 1875, p. 179 (1875).

Spilosmylus flavicornis NAKAHARA, Ann. Zool. Jap., VIII, p. 505 (1914).

Heliosmylus flavicornis KRÜGER, Stett. ent. Zeit., LXXVI, p. 84 (1915); KUWAYAMA, Icon. Ins. Jap., p. 1536, Fig. 3034 (1932).

Locality: Etorofu (Shana, 1 ♂, 11-20. VI. 1935, Y. SUGIHARA).

Distribution: Chishima, Hokkaido, Honshu, Shikoku, and Kyushu.

Trivial Name: *Kimadara-hiroba-kagerô*.

Family **Hemerobiidae**

8. *Hemerobius humuli* LINNÉ

Hemerobius humuli LINNÉ, Syst. Nat., ed. X, p. 550 (1758); BANKS, Trans. Am. Ent. Soc., XXXII, p. 32, Pl. IV-fig. 19, Pl. V-figs. 26, 37, 38 (1905); NAKAHARA, Ann. Zool. Jap., IX, p. 24, Fig. 2 (1915); KUWAYAMA, Icon. Ins. Jap., p. 1547, Fig. 3056 (1932).

Locality: Shikotan (Shakotan, 1 ♀, 23-27. VII. 1935, Y. SUGIHARA).

Distribution: Chishima, Hokkaido, Honshu; Siberia, Europe, and North America.

Trivial Name: *Miyama-hime-kagerô*.

9. *Eumicromus alpinus* NAKAHARA

Eumicromus alpinus NAKAHARA, Ann. Zool. Jap., IX, p. 41 (1915).

Locality: Kunashiri (Nikishiro, 1 ♀, 17-22. VII. 1935, T. UCHIDA); Paramushiru or Paramushir I. (Murakami-wan, 2 ♂ ♂, 2. VIII. 1926, K. DOI).

Distribution: Chishima, Karafuto, Hokkaido, and Honshu.

Remarks: NAKAHARA described this species based on the specimens captured on Mt. Yatsugatake and Mt. Tateyama which rise to a height of over 2400 m. and among the highest mountains in central Honshu. The present writer captured a specimen at the point of 1880 m. high on Mt. Kurodake,

a peak of the Taisetsu volcano-range in the center of Hokkaido. The writer also possesses in his collection a specimen captured at Hoi, Southern Karafuto, by Mr. H. IORI. In Chishima, it distributes as far north as Murakami-wan of the Paramushiru-tô, situated in lat. 50°. 45'N. Judging from these facts this species is undoubtedly an inhabitant under chilly climate. It is noteworthy that *E. angulatus* (STEPHENS), so-called "mountain loving species", which is distributed widely in Europe, Siberia, North America and Hokkaido, is not at present known from Chishima and Karafuto.

Trivial Name: *Takane-hime-kagerô*.

Suborder **Megaloptera**

Family **Sialidae**

10. *Sialis sibirica* MACLACHLAN

Sialis sibirica MACLACHLAN, Ann. Soc. Ent. Belg., XV, p. 55, Pl. I-fig. 10 (1872); VAN DER WEELE, Coll. Zool. Edm. Selys Longs., V-1, p. 82, Figs. 65, 66 (1910); KUWAYAMA, Trans. Sapporo Nat. Hist. Soc., IX, p. 96, Fig. 1 (1924).

Locality: Shikotan (Shakotan, 2 ♀ ♀, 5-7. VII. 1925, K. DOI); Kunashiri (Tôfutsu, 2 ♀ ♀, 4-5. VIII. 1925, K. DOI; Nikishiro, 2 ♀ ♀, 17-22. VII. 1935, T. UCHIDA; Yambetsu, 2 ♀ ♀, 22-25. VII. 1935, T. UCHIDA); Etorofu (Rubetsu, 3 ♂ ♂ 1 ♀, 2-10. VII. 1935, Y. SUGIHARA).

Distribution: Chishima, Karafuto, Hokkaido; Siberia.

Remarks: KOBAYASHI¹⁾ recorded already this species from Shikotan.

Trivial Name: *Semburi*.

Order MECOPTERA

Family **Panorpidae**

1. *Panorpa pryeri* MACLACHLAN

Panorpa pryeri MACLACHLAN, Trans. Ent. Soc. Lond., 1875, p. 185 (1875); MIYAKE, Jour. Coll. Agr., Imp. Univ. Tokyo, IV, p. 355, Pl. XXXVI-figs. 13, 14, 15, Pl. XXX-fig. 12, Fig. 2k (1913); ESBEN-PETERSEN, Coll. Zool. Edm. Selys Longs., V-2, p. 39, Pl. I-fig. 9, Figs. 40, 41 (1921); ISSIKI, Icon. Ins. Jap., p. 1518, Fig. 2999 (1932); ISSIKI, Jap. Jour. Zool., IV, p. 406 (1933).

Locality: Kunashiri (Tomari, 1 ♂ 1 ♀, 1. VII. 1925, K. DOI; Uenkotan, 1 ♀, 16. VIII. 1925, K. DOI; Nikishiro, 1 ♀, 17-22. VII. 1935, T. UCHIDA; Yambetsu, 1 ♂ 1 ♀, 22-25. VII. 1935, T. UCHIDA).

Distribution: Chishima, Hokkaido, and Honshu.

Trivial Name: *Pryer-shiriage*.

1) Trans. Kansai Ent. Soc., No. 2, p. 66 (1931).