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NOTES ON THE CHRYSOPIDAE OF KOREA

(NEUROPTERA)

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I am deeply indebted to Dr. Goroku Takagi for the opportunity to study Chrysopidae taken by him and his colleagues in Korea. As a few of species of this family have been recorded from Korea, the present material is highly valuable. On this occasion I have taken the liberty to include together with this material a lot of the Korean Chrysopidae preserved in the collection of the Entomological Institute, Faculty of Agriculture, Hokkaido University.

Family **Chrysopidae**
Subfamily **Chrysopinae**
Genus *Chrysopa* Leach

1. *Chrysopa formosana* Matsumura

Chrysopa vittata var. *formosana* Matsumura, Schäd. u. Nützl. Ins. Zuckerrohr Formosas, p. 45, Pl. XXVIII-fig. 4 (1910).

Chrysopa formosana Matsumura, Inj. & Benef. Ins. Sugarcane Formosa, p. 78, Pl. XXVIII-fig. 4 (1910).

Chrysopa sauteri Esben-Petersen, Ent. Mitt., II, p. 258, Fig. 8 (1913).

Chrysopa yamamurae Nakahara, Ann. Ent. Soc. Am., VIII, p. 122, Pl. VIII-figs. 8-9 (1915).

Specimens examined: 1 ♂, Hampyong, 6. VIII, 1935, G. Takagi leg.; 1 ♀, Tanyang, 27. VII, 1933, G. Takagi leg.; 1 ♂, Chongryangni near Seoul, 5. VIII, 1933, W. S. Yoon leg.

Distribution: Korea, Japan, Loo-choo, Formosa.

This species is new to the fauna of Korea.

2. *Chrysopa cognatella* Okamoto

Chrysopa cognatella Okamoto, Jour. Coll. Agr., Tohoku Imp. Univ., VI, p. 70 (1914).

Chrysopa parabola Okamoto, Rep. Hok. Agr. Exp. Sta., IX, p. 51, Pl. IV-figs. 7-8, Pl. VI-fig. 5 (1919).

Distribution: Korea, China, Formosa, Loochoo, Japan, Sachalin.

Though this species has been recorded from Korea (Pusan) by Okamoto, I did not encounter any specimen to be identified with *Ch. cognatella*.

3. *Chrysopa septempunctata* Wesmael

Chrysopa septempunctata Wesmael, Bul. Acad. Roy. Brux., VIII, p. 210 (1841).

Chrysopa cognata MacLachlan, Jour. Linn. Soc., IX, p. 249 (1867); Okamoto, Bul. Agr. Exp. Sta., Gov.-Gen. Chosen, I, p. 69 (1924); Takagi, Zool. Mag., XLIV, p. 477 (1932).

Specimens examined: 1 ♂, Shariwon, 10. VIII, 1934, H. K. Kim leg.; 1 ♂ 3 ♀ ♀,

Suwon, 8-13. VII, 1922, T. Uchida leg.; 2♂♂, Chungju, 21. VII, 1933, G. Takagi et T. Suzuki leg.; 1♀, Tanyang, 4. VI, 1933, G. Takagi leg.; 1♀, Chongryangni near Seoul, 11. V, 1935, W. S. Yoon leg.; 5♂♂ 2♀♀ 1?, ditto, 6, VII-12. IX, 1934, H. S. Cha leg.

Distribution: Korea, China, Cambodia, Formosa, Japan, Sachalin, Siberia, Europe.

Okamoto (1924) states that this species is plentiful on Quelpart Island (Cheju Is.) as well as in Korea. Takagi found in the suburb of Seoul that the adults of this species often assembled on the leaves of *Actinidia polygama* Planchon and ate them.

4. *Chrysopa prasina* Burmeister

Chrysopa prasina Burmeister, Handb. Ent., II, p. 981 (1839).

Chrysopa ventralis prasina Killington, Mon. Brit. Neur., II, p. 205 (1937).

Chrysopa sachalinensis Matsumura, Jour. Coll. Agr., Tohoku Imp. Univ., IV, p. 14 (1911).

Chrysopa nikkoënsis Okamoto, Jour. Coll. Agr., Tohoku Imp. Univ., VI, p. 69 (1914).

Specimen examined: 1?, Nankok, 19. VI, 1933, G. Takagi leg.

Distribution: Korea, Japan, Kuriles, Sachalin, Turkestan, Europe, Algeria, Morocco. This species is here recorded from Korea for the first time.

5. *Chrysopa formosa* Brauer

Chrysopa formosa Brauer, Haid. Nat. Abh., IV (4), p. 8, Pl. II-fig. 3 (1851).

Chrysopa japana Okamoto, Rep. Hok. Agr. Exp. Sta., IX, p. 42, Pl. I-fig. 9, Pl. III-figs. 17-18, Pl. VII-fig. 10 (1919).

Specimens examined: 1?, Suwon, 8. VIII, 1922, T. Uchida leg.; 2♂♂ 2♀♀, Chongryangni near Seoul, 12. VII-10. IX, 1934, H. S. Cha leg.; 1♂ 3♀♀, ditto, 9. VIII, 1933, 11. IX, 1934, 5. IX, 1935, G. Takagi leg.; 13♂♂ 8♀♀ 2??, ditto, 7-11. V-7. VII, 1935, W. S. Yoon leg.

Distribution: Korea, China, Japan, Siberia, Europe.

Under the name of *Ch. japana*, Okamoto already reported the occurrence of this species in Suwon and Pusan. It seems to be very common in Korea.

6. *Chrysopa phyllochroma* Wesmael

Chrysopa phyllochroma Wesmael, Bul. Acad. Roy. Brux., VIII, p. 209 (1841).

Chrysopa sapporensis Okamoto, Jour. Coll. Agr., Tohoku Imp. Univ., VI, p. 60 (1914).

Specimens examined: 1♂, Shiniju, 29. VIII, 1926, K. Ito leg.; 1♂, Chaeryong, 21. VII, 1934, H. K. Kim leg.

Distribution: Korea, China, Japan, Kuriles, Siberia, Europe.

Presumably this is the first record of this species from Korea.

7. *Chrysopa intima* MacLachlan

Chrysopa intima MacLachlan, Trans. Ent. Soc. Lond., 1893, p. 230 (1893).

Specimens examined: 1?, Najin, 7. VIII, 1940, S. Matsumura leg.; 1♂ 5♀♀, Nankok, 3. VI, 1932, 19. VI, 1933, 23. VI, 1935, G. Takagi leg.

Distribution: Korea, China, Japan, Kuriles, Sachalin.

So far as I am aware, there was no certain record of the occurrence of this species in Korea in the past.

Genus *Nothochrysa* MacLachlan8. *Nothochrysa japonica* MacLachlan

Nothochrysa japonica MacLachlan, Trans. Ent. Soc. Lond., 1875, p. 182 (1875); Okamoto, Bul. Agr. Exp. Sta., Gov.-Gen. Chosen, I, p. 70 (1924).

Distribution: Korea (Quelpart Is.), China, Formosa, Loo-choo, Japan.

Okamoto reported the occurrence of this species in Quelpart Island. However, I have been unable to see any specimen of this species from Korea.

A NEW ADDITION TO THE PSYLLID-FAUNA OF JAPAN (HEMIPTERA-HOMOPTERA).

Professor K. Yasumatsu collected quite many specimens of an interesting psyllid swarming on *Pinus pumila* on July 17, 1955, at the foot of Volcano Atosanuppuri, Akan National Park, Hokkaido, and was kind enough to present me some of them. Fortunately, I had the opportunity to observe the psyllid above-mentioned at the same place on June 28, 1961, and found that this species infested *Ledum palustre* var. *yessoense* which is associated with *P. pumila* forming dense thicket. After my taxonomic examination I came to the conclusion that it is *Psylla ledi* hitherto unrecorded to our fauna.

***Psylla ledi* Flor**

Psylla ledi Flor, Rhynch. Livl., II, p. 473 (1861); Löw, Verh. d. zool.-bot. Ges., Wien, XXXVI, p. 157 (1866); Oshanin, Verz. paläarkt. Hemip., II, p. 358 (1907); Šulc, Sitz.-ber. Königl. Böhm. Ges. wiss., Prag, 1909, p. 21, 38 (1910); Oshanin, Kat. paläarkt. Hemip., p. 127 (1912); Aulmann, Psyllid. Cat., p. 18 (1913); Šulc, Ann. Mus. Nat. Hung., XI, p. 431, abb. 6 (1913).

Chermes lutea Thomson, Opusc. ent., VIII, p. 833 (1878).

Distribution: Hokkaido, Japan (new locality); Siberia; north and middle Russia; Scandinavia; Hungary.

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