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**A LIST OF PIMPLINAE OF SAGHALIEN AND THE KURILES
IN THE COLLECTION OF THE ENTOMOLOGICAL
INSTITUTE, HOKKAIDO UNIVERSITY
(HYMENOPTERA: ICHNEUMONIDAE)**

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In the collection of the Entomological Institute, Hokkaido University, there are many ichneumon-flies belonging to the subfamily Pimplinae collected in Saghalien and the Kuriles. Most of these already have been informed by S. Matsumura (1911, 1912 & 1930), T. Uchida (1925, 1928, 1929, 1930, 1934, 1935, 1936 & 1941), and T. Uchida and S. Momoi (1958 & 1959) as in the following publications:—

- Matsumura, S. 1911. Erster Beitrag zur Insekten-Fauna von Saghalien. Jour. Coll. Agr., Tohoku Imp. Univ. 4: 1-144.
- Matsumura, S. 1912. Thousand Insects of Japan, Supplement 4.
- Matsumura, S. 1930. Illustrated Thousand Insects of Japan, Volume 2.
- Uchida, T. 1925. Ueber zwei parasitischen Hymenopteren-Arten von *Pieris rapae* L. Trans. Sapp. Nat. Hist. Soc. 16: 501-510.
- Uchida, T. 1928. Dritter Beitrag zur Ichneumoniden-Fauna Japans. Jour. Fac. Agr., Hokk. Imp. Univ. 25: 1-115.
- Uchida, T. 1929. Drei neue Gattungen, neunzehn neue Arten und fünf neue Varietäten der Ichneumoniden aus Japan, Korea und Formosa. Ins. Mats. 3: 168-187.
- Uchida, T. 1930. Beschreibungen der neuen echten Schlupfwespen aus Japan, Korea und Formosa. Ins. Mats. 4: 121-132.
- Uchida, T. 1934. Beiträge zur Systematik der Tribus Acoenitini Japans. Ins. Mats. 9: 41-54.
- Uchida, T. 1935. Beiträge zur Kenntnis der Ichneumonidenfauna der Kurilen. Ins. Mats. 9: 108-122.
- Uchida, T. 1936. Erster Nachtrag zur Ichneumonidenfauna der Kurilen (Subfam. Cryptinae und Pimplinae). Ins. Mats. 11: 39-55.
- Uchida, T. 1941. Beiträge zur Systematik der Tribus Polysphinctini Japans. Ins. Mats. 15: 112-122.
- Uchida, T. et S. Momoi. 1958. On the species of *Polysphincta* Gravenhorst and *Zatypota* Förster from Japan. Ins. Mats. 22: 22-30.
- Uchida, T. et S. Momoi. 1959. On the species of the genera *Laufeia* and *Lycorina* occurring in Japan. Ins. Mats. 22: 82-87.

In the course of my studies on the Pimplinae I have had the opportunity to examine the collection. In this paper are listed 58 species of the Pimplinae occurring in Saghalien and the Kuriles in total, among which 12 species seem to be new to Saghalien and 3 species new to the Kuriles.

On this occasion I wish to express my sincere gratitude to Prof. Emeritus T. Uchida and Prof. C. Watanabe of the Hokkaido University under whose kind direction the present list has been conducted. I owe also my cordial thanks to Dr. J. F. Perkins and Dr. G. J. Kerrich of the British Museum (Nat. Hist.) and to Dr. L. M. Walkley of the U. S. National Museum for their kind advice.

Tribe **Ephialtini**

1. ***Ephialtes hokkaidonis*** Uchida, 1928

Ephialtes hokkaidonis Uchida, 1928: 86 (Saghalien).

Ephialtes manifestator f. *hokkaidensis* Uchida, 1936: 51 (Kuriles).

Saghalien: 1♀, without detailed data; 1♀, Konuma, date unknown, S. Matsumura leg.; 1♀, Tarandomari, 25-27/vii. 1934, C. Watanabe et T. Inoue leg.

Kuriles: 1♀, Nikishiro, Kunashiri, 17-22/vii. 1935, T. Uchida leg.

2. ***Dolichomitus crassigenus*** (Uchida, 1928)

Ephialtes crassigenus Uchida, 1936: 53 (Kuriles).

Kuriles: 3♂, Seseki, Kunashiri, 16-17/vii. 1936, Y. Sugihara leg.; 1♂, Nikishiro, Kunashiri, 17-22/vii. 1935, T. Uchida leg.

3. ***Dolichomitus chui*** (Uchida, 1934)

Saghalien*: 1♀, without detailed data, S. Matsumura leg.

4. ***Dolichomitus nonmanifestator*** (Uchida, 1936)

Ephialtes antefurcalis Matsumura (nec Thomson), 1911: 97 (Saghalien).

Ephialtes antefurcalis Matsumura (nec Thomson), 1912: 137 (Saghalien).

Ephialtes manifestator Uchida (nec Linné), 1928: 90 (Saghalien).

Ephialtes manifestator Matsumura (nec Linné), 1930: 133 (Saghalien).

Ephialtes nonmanifestator Uchida, 1936: 52 (Saghalien).

Saghalien: 1♀, Todoroki, 13/vii. 1930, C. Watanabe leg.

5. ***Dolichomitus mesocentrus*** (Gravenhorst, 1829)

Ephialtes mesocentrus Uchida, 1928: 90 (Saghalien).

Saghalien: 1♀, Sakaihamma, 27/viii. 1924, collector unknown; 1♀, Konuma, 28/ix. 1927, K. Tamanuki leg.; 1♀, Ichinosawa, 9/vii. 1930, C. Watanabe leg.

6. ***Dolichomitus tuberculatus*** (Fourcroy, 1785)

Ephialtes tuberculatus Uchida, 1928: 88 (Saghalien).

Saghalien: 1♀, Furumaki, 26/vii. 1924, 2♀, without detailed data, S. Matsumura leg.; 1♀, Ohdomari, 28/vii. 1914, J. Adachi et S. Issiki leg.

7. ***Dolichomitus macropunctatus*** (Uchida, 1928)

Ephialtes macropunctatus Uchida, 1936: 52 (Kuriles).

Kuriles: 1♀, Nikishiro, Kunashiri, 17-22/vii. 1935, T. Uchida leg.

* This mark indicates that the species is new to Saghalien or the Kuriles.

8. *Iseropus stercorator* (Fabricius, 1804)

Iseropus graminellae Uchida, 1928: 56 (Kuriles).

Iseropus holmgreni Uchida, 1935: 114 (Kuriles).

Saghalien*: 1♀, 1♂, detailed locality unknown, 20/vii. 1923, S. Tabata leg., host—*Dendrolimus superans* Butler.

Kuriles: 1♀, Shana, Etorofu, 10/vii. 1927, 1♀, Iribushi, Kunashiri, 17/vii. 1927, K. Doi leg.; 1♀, Seseiki, Kunashiri, 27–28/vii. 1935, T. Uchida leg.

9. *Acropimpla persimilis* (Ashmead, 1906)

Epiurus persimilis Uchida, 1928: 62 (Saghalien).

Epiurus persimilis Uchida, 1936: 54 (Kuriles).

Saghalien: 1♀, without detailed data, S. Matsumura leg.

Kuriles: 1♀, Yambetsu, Kunashiri, 22–25/vii. 1925, T. Uchida leg.

10. *Acropimpla jezoensis* (Matsumura, 1926)

Epiurus jezoensis Uchida, 1936: 54 (Kuriles).

I have never found any specimens of this species from the Kuriles in the collection.

11. *Acropimpla pictipes* (Gravenhorst, 1829)

Saghalien*: 1♀, without detailed data, S. Matsumura leg.

12. *Scambus inquisitor* (Scopoli, 1763)

Kuriles*: 1♀, Nikishiro, Kunashiri, 17–22/vii. 1935, T. Uchida leg.

13. *Scambus annulitarsis* (Ashmead, 1906)

Epiurus annulitarsis Uchida, 1928: 61 (Saghalien).

Saghalien: 1♀, Ohtani, 22/vii. 1914, S. Issiki et J. Adachi leg.

14. *Scambus kuwajamai* (Uchida, 1928)

Saghalien*: 1♀, Takinosawa, 8/viii. 1930, C. Watanabe leg.

Kuriles*: 3♀, Sahamambe, Etorofu, 19–20/vii. 1936, Y. Sugihara leg.

15. *Tromatobia variabilis* (Holmgren, 1854)

Saghalien*: 1♂, Ohdomari, 28/vii. 1914, J. Adachi et S. Issiki leg.; 1♀, Maoka, 24/vii. 1934, C. Watanabe et T. Inoue leg.

Kuriles*: 1♀, Yambetsu, Kunashiri, 22–25/vii. 1935, T. Uchida leg.

16. *Tromatobia ovivora* (Boheman, 1821)

Tromatobia ovivora Uchida, 1936: 54 (Kuriles).

Saghalien*: 1♀, Hoyo, 16/viii. 1933, T. Uchida et al. leg.; 2♀, Kaibato, 30/vii.–2/viii. 1934, C. Watanabe et T. Inoue leg.

Kuriles: 1♀, Yambetsu, Kunashiri, 22–26/vii. 1925, T. Uchida, leg.

17. *Zaglyptus varipes* (Gravenhorst, 1829)

Saghalien*: 1♀, Tarandomari, 25–27/vii. 1934, 1♀, Kurashi, 8/viii. 1934, C. Watanabe et T. Inoue leg.

Kuriles*: 2♀, 2♂, Uruppu, 9-23/viii. 1936, Y. Sugihara leg.

Tribe Polysphinctini

18. *Zatypota albicoxa* (Walker, 1874)

Poysphinctopsis eximia f. *nigrithorax* Uchida, 1936: 54 (Kuriles).

Zatypota albicoxa f. *nigrithorax* Uchida, 1941: 122 (Kuriles).

Zatypota albicoxa Uchida et Momoi, 1958: 29 (Kuriles).

Kuriles: 1♀, Yambetsu, Kunashiri, 22-25/vii. 1935, T. Uchida leg.

19. *Schizopyga nipponica* Uchida, 1928

Schizopyga nipponica Uchida, 1936: 54 (Kuriles).

Schizopyga nipponica Uchida, 1941: 115 (Kuriles).

Kuriles: 2♀, 1♂, Seseki, Kunashiri, 27-28/vii. 1935, T. Uchida leg.; 1♂, Tokotan, Uruppu, 8/ix. 1927, K. Doi leg.; 1♀, *ibid.*, 9-22/vii. 1936, Y. Sugihara leg.

20. *Laufeia stigmata* (Uchida, 1941)

Laufeia stigmata Uchida et Momoi, 1959: 83 (Saghalien).

Saghalien: 1♀, Kaibato, 30/vii-2/viii. 1934, C. Watanabe leg.

Tribe Theronini

21. *Delomerista mandibralis* (Gravenhorst, 1829)

Kuriles*: 1♀, Sahamambe, Etorofu, 19-20/vii. 1936, Y. Sugihara leg.

22. *Perithous japonicus* Uchida, 1928

Perithous japonicus Uchida, 1928: 91 (Saghalien).

Saghalien: 1♀, 1♂, Horo, 23/vii. 1933, T. Uchida et al. leg.

23. *Theronia atalantae* (Poda, 1761)

Theronia japonica Matsumura, 1911: 96 (Saghalien).

Theronia japonica Matsumura, 1912: 146 (Saghalien).

Theronia japonica Uchida, 1925: 501 (Saghalien).

Theronia atalantae Uchida, 1928: 40 (Saghalien; Kuriles).

Theronia atalantae Matsumura, 1930: 138 (Saghalien).

Theronia atalantae Uchida, 1935: 114 (Kuriles).

Saghalien: 5♀, 1♂, without detailed data, S. Matsumura leg.; 1♂, Toyohara, 24/viii. 1914, J. Adachi et S. Issiki leg.

Kuriles: 1♀, Yambetsu, Kunashiri, 22-25/vii. 1935, T. Uchida leg.

Tribe Rhyssini

24. *Rhyssa persuasoria* (Linné, 1758)

Rhyssa persuasoria Uchida, 1928: 81 (Saghalien; Kuriles).

Rhyssa persuasoria Uchida, 1935: 115 (Kuriles).

Saghalien: 3♀, without detailed data, S. Matsumura leg.; 1♀, detailed locality unknown, 20/vii. ?, K. Tamanuki leg.; 4♀, Motodomari, 17/viii. 1914, 1♀, *ibid.*, 16/viii.

1914, J. Adachi et S. Issiki leg.; 1 ♀, Konuma, 1 ♀, Kamiyo, 27/vii. 1924, S. Matsumura leg.; 1 ♂, Toyohara, 1/vii. 1925, F. Scriba leg.; 1 ♀, detailed locality unknown, 10/vii. 1933, 1 ♀, Tomarikishi, 21/vii. 1933, 1 ♀, Horo, 24/vii. 1933, T. Uchida et al. leg.

Kuriles: 1 ♀, Nikishiro, Kunashiri, 17-22/vii. 1935, 2 ♀, Maruyama, Kunashiri, 26/vii. 1935, T. Uchida leg.

25. *Rhyssa joxana* Matsumura, 1912

Rhyssa persuasoria var. *amoena* Uchida (nec Gravenhorst), 1928: 82 (Saghalien; Kuriles).

Rhyssa persuasoria Matsumura (nec Linné), 1930: 135 (Saghalien).

Rhyssa persuasoria f. *amoena* Uchida (nec Gravenhorst), 1935: 115 (Kuriles).

Saghalien: 8 ♀, without detailed data, 1 ♀, Furumaki, 26/vii. 1924, S. Matsumura leg., 1 ♂, Toyohara, 11/vii. 1926, F. Scriba leg.; 1 ♀, Tomarikishi, 21/vii. 1933, collector unknown.

Kuriles: 4 ♀, 2 ♂, Maruyama, Kunashiri, 26/vii. 1935, T. Uchida leg.

26. *Rhyssela approximinator* (Fabricius, 1793)

Saghalien*: 1 ♂, Konuma, 31/vii. 1929, K. Tamanuki leg.; 1 ♂, *ibid.*, 23/vii. 1934, C. Watanabe et T. Inoue leg.

27. *Rhyssela furanna* (Matsumura, 1921)

Rhyssa approximinator Uchida (nec Fabricius), 1936: 51 (Kuriles).

Kuriles: 1 ♀, Seseki, Kunashiri, 16-18/vii. 1936, Y. Sugihara leg.; 1 ♀, Nikishiro, Kunashiri, 17-22/vii. 1935, T. Uchida leg.

28. *Megarhyssa superba* (Schränk, 1790)

Thalessa superba Uchida, 1928: 83 (Saghalien; Kuriles).

Megarhyssa superba Uchida, 1935: 116 (Kuriles).

Saghalien: 2 ♀, Konuma, 13/vii. 1924, S. Takano et K. Tamanuki leg.; 1 ♀, Kawakami, 30/vii. 1924, S. Matsumura leg.

Kuriles: 1 ♂, Nikishiro, Kunashiri, 17-22/vii. 1935, 2 ♂, Maruyama, Kunashiri, 26/vii. 1935, T. Uchida leg.

29. *Epirhyssa japonica* Cameron, 1886

Epirhyssa japonica Uchida, 1936: 51 (Kuriles).

Kuriles: 1 ♂, Nikishiro, Kunashiri, 20/vii. 1935, T. Uchida leg.

30. *Epirhyssa karafutonis* Matsumura, 1911

Epirhyssa karafutonis Matsumura, 1911: 59 (Saghalien).

This species was originally described from one female specimen collected at Chipsani, Saghalien. However, I have never found the type in the collection.

Tribe **Neoxoridini**

31. *Deuteroxorides orientalis* (Uchida, 1928)

Deuteroxorides albitarsus f. *orientalis* Uchida, 1936: 50 (Kuriles).

Kuriles: 1♂, Nikishiro, Kunashiri, 17-22/vii. 1935, 1♂, Maruyama, Kunashiri, 26/vii. 1935, T. Uchida leg.

32. *Neoxorides collaris* (Gravenhorst 1829)

Xorides collaris Uchida, 1928: 27 (Saghalien).

Saghalien: 1♀, Ichinosawa, 25/vii. 1925, 1♀, 1♂, Kiminai, 28/vii. 1924, T. Uchida leg.

Tribe **Xoridini**

33. *Odontocolon geniculatum* (Kriechbaumer, 1889)

Saghalien*: 1♀, Toyohara, vii. 1923, collector unknown; 1♀, Horo, 23/vii. 1933, T. Uchida leg.; 1♀, Kurashi, 8/vii. 1934, C. Watanabe leg.

34. *Odontocolon karafutonis* (Uchida, 1928)

Odontomerus karafutonis Uchida, 1928: 17 (Saghalien).

Odontomerus jezoensis Uchida (nec Uchida, 1928), 1936: 51 (Kuriles).

Saghalien: 1♀ (type), Konuma, 17/vii. 1924, S. Takano et K. Tamanuki leg.

Kuriles: 3♂, Rubetsu, Etorofu, 2-10/vii. 1935, 1♂, Shakotan, Shikotan, 23-27/vi. 1935, Y. Sugihara leg.; 2♂, Nikishiro, Kunashiri, 17-22/vii. 1935, T. Uchida leg.

35. *Odontocolon microclausum* Uchida, 1955

Odontomerus nikkoensis Uchida (nec Ashmead), 1936: 50 (Kuriles).

Saghalien*: 1♀, Suzuya, 13/viii. 1930, C. Watanabe leg.; 1♂, Konuma, 23/vii. 1934, 3♀, 5♂, Kurashi, 8/viii. 1934, C. Watanabe et T. Inoue leg.

Kuriles: 1♂, Maruyama, Kunashiri, 26/vii. 1935, 2♂, Nikishiro, Kunashiri, 17-22/vii. 1935, T. Uchida leg.

36. *Xorides konumensis* (Uchida, 1928)

Xylonomus konumensis Uchida, 1928: 19 (Saghalien).

Xorides konumensis Uchida, 1936: 49 (Kuriles).

Saghalien: 1♀, (type), Konuma, 20/vii. 1927, K. Tamanuki leg.

Kuriles: 1♂, Furukamappe, Kunashiri, 29/vii. 1935, Y. Sugihara leg.

37. *Xorides brachylabris* (Kriechbaumer, 1889)

Xylonomus sachalinensis Uchida, 1928: 20 (Saghalien). **Syn. nov.**

Saghalien: 1♀ (type of *sachalinensis*), Konuma, 15/vii. 1927, K. Tamanuki leg.

The present specimen is darker in ground color than European specimens.

38. *Xorides irrigator* (Fabricius, 1793)

Saghalien*: 2♂, without detailed data, S. Matsumura leg.; 1♂, Takinosawa, 8/viii. 1930, C. Watanabe leg.

39. *Xorides sepulchralis* (Holmgren, 1860)

Saghalien*: 1♀, Noda, 6/viii. 1934, 1♀, Tarandomari, 25-27/vii. 1934, C. Watanabe et T. Inoue leg.

Tribe **Coleocentrini**40. ***Coleocentrus exitator*** (Poda, 1761)

Lytares sapporensis Matsumura, 1911: 96 (Saghalien).

Coleocentrus sapporensis Matsumura, 1912: 142 (Saghalien).

Coleocentrus exitator Uchida, 1928: 30 (Saghalien; Kuriles).

Coleocentrus exitator Uchida, 1934: 44 (Saghalien; Kuriles).

Coleocentrus exitator Uchida, 1935: 114 (Kuriles).

Saghalien: 1♂, Hoya, 1♂, Konuma, 1♀, Tarandomari, dates and collectors unknown; 1♀, Kusunnai, 6/viii. ?, K. Oguma leg.; 3♀, Kiminai, 27/vii. 1924, S. Matsumura leg.
Kuriles: 7♀, Nikishiro, Kunashiri, 17-22/vii. 1935, 1♀, Maruyama, Kunashiri, 26/vii. 1935, T. Uchida leg.

41. ***Coleocentrus caligatus*** Gravenhorst, 1829

Lytares chipsanii Matsumura, 1911: 97 (Saghalien).

Coleocentrus chibisanii Matsumura, 1912: 139 (Saghalien).

Coleocentrus chipsanii Uchida, 1928: 30 (Saghalien; Kuriles).

Coleocentrus chibisanii Matsumura, 1930: 134 (Saghalien).

Coleocentrus caligator f. *chipsanii* Uchida, 1934: 45 (Saghalien; Kuriles).

Coleocentrus caligatus f. *chipsanii* Uchida, 1935: 115 (Kuriles).

Saghalien: 1♂, Kina, 13/vii. ?, 1♀ (type of *chipsanii*), Chipsani, 23/vii. ?, K. Oguma leg.; 1♀, Furumaki, 26/vii. 1924, S. Matsumura leg.; 1♀, Tarandomari, 25-27/vi. 1934, 1♀, Tomarikishi, 25-27/vi. 1934, C. Watanabe leg.; 1♀, Hoya, 16/vii. 1933, T. Uchida et al. leg.

Kuriles: 1♀, Naibo, 23/vii. 1927, K. Doi leg.

Tribe **Acaenitini**42. ***Yamatarotes chishimensis*** (Uchida, 1929)

Pseudarotes chishimensis Uchida, 1929: 179 (Kuriles).

Pseudarotes chishimensis Uchida, 1934: 49 (Kuriles).

Pseudarotes chishimensis Uchida, 1935: 115 (Kuriles).

Kuriles: 1♂ (type), Arimoe, Etorofu, 14/viii. 1927, 1♂, Sanku, Etorofu, 1/viii. 1927, K. Doi leg.

43. ***Yamatarotes bicolor*** Uchida, 1929

Yamatarotes bicolor Uchida, 1936: 55 (Kuriles).

Kuriles: 1♂, Seseki, Kunashiri, 27-28/vii. 1935, T. Uchida leg.; 1♂, Nikishiro, Kunashiri, 17-22/vii. 1935, 1♀, 2♂, Maruyama, Kunashiri, 26/vii. 1935, T. Uchida leg.

44. ***Arotes odontus*** Uchida, 1934

Arotes odontus Uchida, 1934: 47 (Saghalien).

Saghalien: 1♀ (type), Ichinosawa, 24/vii. 1927, T. Uchida leg.

45. ***Phaenolobus karafutonis*** Matsumura, 1912

Phaenolobus karafutonis Matsumura, 1912: 140 (Saghalien).

Phaenolobus karafutonis Matsumura, 1930: 135 (Saghalien).

I have never found the type of this species in the collection.

Tribe **Pimplini**

46. *Apechthis rufata* (Gmelin, 1790)

Apechthis rufata Uchida, 1928: 51 (Saghalien).

Apechthis rufata Uchida, 1936: 54 (Kuriles).

Saghalien: 1♂, Ohtani, 22/vii. 1914, J. Adachi et S. Issiki leg.

Kuriles: 1♀, Seseiki, Kunashiri, 27-28/vii. 1935, T. Uchida leg.

47. *Apechthis capulifera* (Kriechbaumer, 1887)

Apechthis capulifera Uchida, 1936: 53 (Kuriles).

Kuriles: 1♀, Nikishiro, Kunashiri, 17-22/vii. 1935, T. Uchida leg.

48. *Apechthis compunctor* (Linné, 1746)

Apechthis brassicae Uchida, 1928: 49 (Saghalien).

Saghalien: 2♂, without detailed data, host—*Dendrolimus superans* Butler; 1♀, Tobuchi, 8/ix. 1925, N. Ohba leg.

49. *Itoplectis tabatai* (Uchida, 1930)

Pimpla tabatai Uchida, 1930: 127 (Saghalien).

Saghalien: 1♀ (type), Toyohara, date unknown, S. Tabata leg.

This species is closely related to *Itoplectis alternans* (Gravenhorst), from which it differs by the prepectal carina distinctly sinuate above the fore coxa, the propodeum more extensively hairy on each side of the dorsal surface, and the coxae entirely and the trochanters at the base black.

50. *Pimpla turionellae* (Linné, 1758)

Pimpla examiner Uchida, 1928: 45 (Kuriles).

Pimpla turionellae Uchida, 1935: 113 (Saghalien; Kuriles).

Saghalien: 1♀, Enkotan, 23/vii. 1927, K. Tamanuki leg.

Kuriles: 3♀, 1♂, Uruppu, 9-23/vii. 1936, 1♀, Shana, Etorofu, 22-25/vii. 1936, Y. Sugihara leg.

51. *Pimpla disparis* Viereck, 1911

Pimpla aterrima var. *disparis* Uchida, 1928: 44 (Saghalien).

I have never found any specimens of this species from Saghalien in the collection.

52. *Pimpla insigator* (Fabricius, 1804)

Pimpla insigator Uchida, 1928: 45 (Saghalien).

Pimplidea insigator Uchida, 1936: 53 (Kuriles).

Saghalien: 2♀, 2♂, without detailed data, 1♀, Dainino-bo, 31/vii. 1916, S. Matsumura leg.; 1♂, Kaibato, 20/vii. 1920, 1♂, Toyohara, vii. 1923, collectors unknown; 1♂, Kaibato, 14/vi. 1928, 1♀, Ogawa, 2/vii. 1929, 1♀, Ohnuma, 9/vii. 1929, K. Tamanuki

leg.; 1 ♀, Kaibato, 30/vii.-2/viii. 1934, C. Watanabe et T. Inoue leg.

Kuriles: 1 ♀, Nikishiro, Kunashiri, 17-22/vii. 1935, 2 ♀, 1 ♂, Yambetsu, Kunashiri, 22-25/vii. 1935, T. Uchida leg.

53. *Pimpla parnarac* Viereck, 1911

Pimpla luctuosa Uchida (nec Smith) (in part), 1928: 47 (Kuriles).

Kuriles: 1 ♀, Shakotan, Shikotan, 27-31/vii. 1936, Y. Sugihara leg.

54. *Pimpla luctuosa* Smith, 1874

Pimpla pluto Uchida (nec Ashmed), 1928: 47 (Saghalien).

Pimpla luctuosa Uchida (in part), 1935: 114 (Kuriles).

Saghalien: 1 ♂, without detailed data, S. Matsumura leg.

Kuriles: 2 ♂, Tokotan, Uruppu, 6/ix. 1927, 1 ♀, Iribushi, Kunashiri, 17/vii. 1927, K. Doi leg.

55. *Pimpla pluto* Ashmead, 1906

Pimpla luctuosa Uchida (nec Smith) (in part), 1935: 114 (Kuriles).

Kuriles: 1 ♀, Tokotan, Uruppu, 23/ix. 1927, K. Doi leg.; 2 ♀, Nikishiro, Kunashiri, 17-22/vii. 1935, 1 ♀, Yambetsu, Kunashiri, 22-25/vii. 1935, T. Uchida leg.; 1 ♀, Shana, Etorofu, 11-20/vii. 1935, 1 ♂, Uruppu, 4-23/viii. 1936, Y. Sugihara leg.

56. *Pimpla aquilonia* Cresson, 1870

Pimpla turionellae Uchida (nec Linné), 1928: 42 (Saghalien; Kuriles).

Pimpla turionellae var. *melanaria* Uchida (nec Hellén) (in part), 1928: 43 (Kuriles).

Pimpla contemplator Uchida (nec Müller), 1935: 113 (Kuriles).

Saghalien: 1 ♀, Kashiho, 1/viii. 1932, H. Kôno et al. leg.

Kuriles: 49 ♀, 7 ♂, from Kunashiri, Etorofu, Uruppu and Shikotan.

57. *Pimpla nipponica* Uchida, 1928

Pimpla spuria var. *nipponica* Uchida, 1928: 45 (Saghalien).

Saghalien: 1 ♀, Kawakami, 30/vii. 1924, S. Matsumura leg.

58. *Pimpla melacris* Perkins, 1941

Pimpla turionellae var. *melanaria* Uchida (nec Hellén) (in part), 1928: 43 (Saghalien).

Saghalien: 2 ♀, Nr. Horonaigawa, 26/vii. 1932, H. Kôno et al. leg.; 1 ♀, Ichino-sawa, 25/vii. 1924, 2 ♀, without detailed data, S. Matsumura leg.; 1 ♀, Tonnai, 24/vii. 1927, K. Tamanuki leg.

BOOK REVIEWS

THE CICINDELIDAE OF CANADA. By J. B. Wallis. 10+74 pages, 4 colour plates, 4 figures & 16 maps. University of Toronto Press, 1961. Price \$ 5.00.

Mr. J. B. Wallis is one of Canada's most distinguished amateur entomologists, who has been so fond of the Cicindelidae or tiger beetles for years. This book is the fruit of his long course of study. An introduction (taxonomic categories and classification) including the definition of the family Cicindelidae and the discussion of the species and subspecies problem opens this book. The biology of tiger beetles, the genera of Canadian tiger beetles, and a key to 27 species of *Cicindela* occurring in Canada are included. The discussion of each species is brief and to the point, being accompanied by the geographical variation and subspecies, synonymy, relationships, habitat, and localities. It is desirable, however, to add a full bibliographic reference for each species. Distribution maps accompanying the study show in detail the known localities of occurrence in Canada for each species. This work will be of especial assistance to entomologists concerned with tiger beetles in Canada and to other persons who are interested in this family.

C. WATANABE

INSECTA JAPONICA. Series 1, 1961. Hokuryukan Publishing Co., Ltd., No. 55, 1 chome, Jimbo-cho, Kanda, Chiyoda-ku, Tokyo. Price \$ 8.00 (post-paid).

The first series of this new publication has been received. It consists of the following four parts, each part being a manual for the identification of Japanese insects belonging to a certain family:-

ODONATA: **Libellulidae**. By Syoziro Asahina. Series 1, Part 1, 90 pages, 178 text-figures & 7 plates.

HEMIPTERA: **Cicadidae**. By Tamotsu Ishihara. Series 1, Part 2, 35 pages, 12 text-figures & 4 plates.

HEMIPTERA: **Gerridae**. By Shoichi Miyamoto. Series 1, Part 3, 40 pages, 126 text-figures.

LEPIDOPTERA: **Geometridae** (1). By Hiroshi Inoue. Series 1, Part 4, 160 pages, 193 text-figures & 7 plates.

Although the main part of this publication is stated in Japanese, the summary in English including the keys and brief discussion of each species, and the illustrations in colour and in black and white make possible it to identify the species for foreign workers.

C. WATANABE