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HOST RECORDS OF ICHNEUMONIDAE (Hymenoptera)

By Jinhaku Minamikawa

*Laboratory of Japan Plant Protection Association
Suzuki-cho, Kodaira-shi, Tokyo*

In the present studies I have had the opportunity to examine a lot of Ichneumonid specimens which have been bred from various hosts. In this paper are given 48 species of Ichneumonidae, of which only relevant synonymy is included herein after. Detailed synonymy of each species may be found in Townes, Momoi & Townes (1965). Furthermore, undetermined species will be discussed in another paper in near future.

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Family ICHNEUMONIDAE

Subfamily EPHIALTINAE

1. *Acropimpla persimilis* (Ashmead)

Epiurus persimilis Ashmead, 1906. Proc. U.S. Nat. Mus. 30: 180.

Eeristes roborator: Kuwana, Ishii & Kurosawa, 1939, Bull. Imp. Seric. Expt. Sta. 9: 469.

Specimens examined: 1 ♀, 1 ♂, Tokyo, 1960, bred from *Margaronia pyloalis*, J. Kuwana & G. Ishii leg.

2. *Apistephaltes* sp.

Ephialtes nakamurai: Kuwana, Ishii & Kurosawa, 1940. Nippon Sanshigaku Zasshi 11: 246.

Specimens examined: 2 ♀♀, 2 ♂♂, Tokyo, 1960, bred from *Marogaronia pyloalis*, J. Kuwana & G. Ishii leg.

3. *Coccygomimus disparis* (Viereck)

Pimpla (Pimpla) disparis Viereck, 1911. Proc. U. S. Nat. Mus. 40: 480.

Pimpla alterrima: Ishii, 1932. In Esaki et al.: Iconographia insectorum japonicorum: 404.

Specimens examined: 1 ♂, Tachikawa, Tokyo-to, 30-vi-65, A. Shinkaji leg., 1 ♂, Hiratsuka, Kanagawa-ken, 2-ix-65, N. Shinkaji leg. & 1 ♀, 3 ♂♂, Atsugi, Kanagawa-ken, 26-vi-66, N. Shinkaji leg., all bred from *Dichocrois punctiferalis*; 1 ♀, 1 ♂, Hiratsuka, 10-x-62, bred from *Oraecia excavata*, N. Oho leg.; 1 ♀, Tokyo, 5-viii-49, E. Yoshida leg., 2 ♀♀, Takazaki, Gunma-ken, v-66, C. Ishizuka leg., 4 ♀♀, Tanashi, Tokyo-to, viii-66, Y. Kishi leg. & 1 ♀, Sagami-hara, Kanagawa-ken, ii-66, S. Takazawa leg., all bred from *Hyphantria cunea*; 1 ♀, Warabi, Saitama-ken, iv-63, bred from *Pieris rapae crucivora*, A. Habu leg.; 2 ♀♀, 1 ♂, Tokyo, vi-56, bred from *Cryptothoelea pryri* or *Mahasena minuscula*, I. Hattori leg.

4. *Coccygomimus luctuosus* (Smith)

Pimpla luctuosa Smith, 1874. Trans. Ent. Soc. London 1874: 394.

Specimens examined: 1 ♀, Kanaya, Shizuoka-ken, 9-vii-54, bred from *Homona magnanima*, J. Minamikawa leg.; 1 ♂, Kanaya, 1-vii-60, & 1 ♀, 11-vii-60, bred from *Euproctis pseudoconspersa*, J. Minamikawa leg.; 1 ♀, Tokyo, vi-36, bred from *Ivela auripes*, N. Kumasawa leg.; 1 ♀, Tokyo, 1910, bred from *Hyphantria cunea*, T. Ichinose leg.; 1 ♀, Tokyo, 1938, bred from *Malacosoma neustria testacea*, collector unknown; 1 ♀, Tokyo, 22-iii-37, bred from *Byasa alcinous*, T. Ishii leg.; 1 ♀, Tsu, Mie-ken, 31-i-67, & 1 ♂, Toyosato-mura, Mie-ken, bred from *Lampides boeticus*, Z. Yamashita leg.

5. *Coccygomimus nipponicus* (Uchida)

Pimpla spuria var. *nipponica* Uchida, 1928. Jour. Fac. Agr. Hokkaido Imp. Univ. 25: 45.

Specimens examined: 1 ♀, Kanaya, Shizuoka-ken, 10-v-51, bred from *Mattsumuraes phaseoli*, J. Minamikawa leg.

6. *Coccygomimus parnarae* (Viereck)

Pimpla (Pimpla) parnarae Viereck, 1912. Proc. U. S. Nat. Mus. 43: 593.

Specimens examined: 1 ♀, Musashi-cho, Saitama-ken, 16-vi-60, bred from *Homona magnanima*, J. Minamikawa leg.; 2 ♀♀, Kyoto-shi, 10-x-54, bred from *Mythimna separata*, S. Iwao leg. 1 ♂, Takazaki, Gunma-ken, v-66, C. Iizuka leg. & 1 ♀, Tanashi, Tokyo-to, viii-66, K. Kishi leg. bred from *Hyphantria cunea*; 1 ♀, 1 ♂, Shizuoka-shi, 20-ix-59, bred from *Parnara guttata*, S. Nakada leg.; Kodaira, Tokyo-to, 1-vi-64, bred from *Orgyia thyellina*, J. Minamikawa leg.; 1 ♀, 1 ♂, Atsugi, Kanagawa-ken, 30-vi-66, bred from *Dichocrois punctiferalis*, N. Shinkaji leg.; 1 ♀, Tsu, Mie-ken, 31-i-67, bred from *Lampides boeticus*, Z. Yamashita leg.

7. *Coccygomimus turioneillae* (Linnaeus)

Ichneumon turionellae Linnaeus, 1758. Systema naturae...edition 10, 1: 564.

Specimens examined: 1 ♀, Tokyo, 10-vii-66, bred from *Mahasena minuscula*, J. Minamikawa leg.; 1 ♀, Toyosato-mura, Mie-ken, 8-ii-67, bred from *Lampides boeticus*, Z. Yamashita leg.

8. *Ephialtes capulifera* (Kriechbaumer)

Pimpla capulifera Kriechbaumer, 1887. Ent. Nachr. 13: 119.

Apechthis japonica Matsumura, 1931. 6000 Illustrated Insects of Japan-Empire: 37.

Apechthis sapporensis (!) Ishii, 1932. In Esaki et al.: Iconographia insectorum japonicorum: 407.

Specimens examined: 1 ♀, Tokyo, 14-vii-30, bred from *Euproctis similis*, collector unknown; 2 ♀♀, Tokyo, 16-vi-36, bred from *Ivera auripes*, collector unknown; 1 ♀, Fuchu, Tokyo-to, 4-v-38, bred from *Plusia* sp., T. Ishii leg.; 2 ♀♀, Kamikochi, Nagano-ken, 7-vii-30, H. Yuasa leg. & 2 ♀♀, Kamikochi, A. Kawada leg. bred from *Aporia hippa japonica*; 1 ♀, Kamikochi, 19-vi-29, bred from *Lethe diana*, collector unknown; 1 ♀, Ochi-ai, Mie-ken, 29-ix-66, bred from *Vanessa indica*, Z. Yamashita leg.

9. *Gregopimpla himalayensis* (Cameron)

Pimpla himalayensis Cameron, 1899. Mem. & Proc. Manchester Lit. Phil. Soc. 43 (3): 173.

Epiurus hakonensis Ashmead, 1906. Proc. U.S. Nat. Mus. 30: 179.

Epiurus persimilis Kuwana, Ishii & Kurosawa, 1940. Nippon Sanshigaku Zasshi 11: 244.

Specimens examined: 2 ♀♀, 2 ♂♂, Tokyo, 1960, bred from *Margaronia pyloalis*, J. Kuwana & G. Ishii leg.; 1 ♀, Kanaya, Shizuoka-ken, 20-vi-53, bred from *Malacosoma neustria testacea*, J. Minamikawa leg.

10. *Itopectis alternans spectabilis* (Matsumura)

Pimpla (Pimpla) spectabilis Matsumura, 1926. Jour. Fac. Agr. Hokkaido Imp. Univ. 18: 30.

Specimens examined: 1 ♀, 2 ♂♂, Tsu, Mie-ken, vi-62, bred from *Plutella xylostella* (*P. maculipennis*), Z. Yamashita leg.; 1 ♂, Morioka, Iwate-ken, 15-vii-65, bred from *Mahasena nitobei* J. Minamikawa leg.; 1 ♀, Nagasaki-shi, 1927, bred from *Canephora asiatica*, T. Ishii leg.; 1 ♂, Kanaya, Shizuoka-ken, 12-vi-49 & 8 ♀♀, 6 ♂♂, Kameyama, Mie-ken, 19-vi-49, bred from *Caloptilia theivora*, J. Minamikawa leg.; 1 ♀, Tsu, bred from *Rhodophaea pirivorella*, K. Tsutsui leg.; 2 ♀♀, 1 ♂, Shizuoka-shi, 5-v-40, bred from *Adoxophyes orana*, K. Kamiya leg.; 1 ♀, Toyosato-mura, Aki-gun, 8-ii-67, bred from *Lampides boeticus*, Z. Yamashita leg.

11. *Itopectis narangae* (Ashmead)

Nesopimpla naranyae (!) Ashmead, 1906. Proc. U.S. Nat. Mus. 30: 180.

Itopectis narangae (emend.): Watanabe, 1966. Mushi 39: 98.

Specimens examined: 1 ♀, 1 ♂, Tsu, Mie-ken, vi-62, bred from *Plutella xylostella* (*P. maculipennis*), Z. Yamashita leg.; 1 ♀, 1 ♂, Shizuoka-shi,

20-ix-59, bred from *Parnara guttata*, M. Nakada leg.; 1 ♀, 1 ♂, Shizuoka-shi, 28-vi-40 & 1 ♀, Shizuoka-shi, 5-vii-40, bred from *Adoxophyes orana*, K. Kamiya leg.; 1 ♀, Kodaira, Tokyo-to, 22-v-64, bred from *Chilo suppressalis*, J. Minamikawa leg.

12. *Megarhyssa praezellens* (Tosquinet)

Thalessa praezellens Tosquinet, 1889, Ann. Soc. Ent. Belgique 33: 134

Megarhyssa japonica Ashmead, 1906. Proc. U.S. Nat. Mus. 30: 176.

Thalessa superbiens Morley, 1913. Revision of the Ichneumonidae in the British Museum...2: 18.

Specimens examined: 1 ♀, 3 ♂♂, Kochi-ken, 17-vii-56 & 1 ♀, Kochi-ken, 20-vii-56, bred from *Urocerus japonicus*, K. Kojima leg.

13. *Rhyssa persuasoria* (Linnaeus)

Ichneumon persuasorius Linnaeus, 1758. Systema naturae,...edition 10, 1: 562.

Specimen examined: 1 ♀, Hongawa, Kochi-ken, 29-vi-59, bred from *Xeris spectrum*, K. Kojima leg.

14. *Scambus (Ateleophadnus) divergens* Uchida & Momoi

Scambus divergens Uchida & Momoi, 1957. Ins. Mats. 21: 6.

Specimens examined: 1 ♀, Kanaya, Shizuoka-ken, 29-v-49, bred from *Cryptothoelea pryori*, J. Minamikawa leg.; 3 ♀♀, Tsu, Mie-ken, 3-vi-58, bred from *Pectinophora gossypiella*, K. Tsutsui leg.; 2 ♀♀, Habikino, Osaka-fu, 31-v-63, bred from *Rhodophaea pirivorella*, K. Kida leg.; 1 ♀, Shizuoka-shi, 30-v-55, bred from *Ostrinia nubilalis*, Y. Nagai leg.

15. *Scambus (Endromopoda) annulitarsis* (Ashmead)

Epiurus annulitarsis Ashmead, 1906. Proc. U.S. Nat. Mus. 30: 179.

Specimens examined: 3 ♀♀, Tsu, Mie-ken, 3-vi-58, bred from *Pectinophora gossypiella*, K. Tsutsui leg.

16. *Scambus (Scambus) glycinivorellae* (Kuwayama)

Epiurus glycinivorellae Kuwayama, 1928. Jour. Fac. Agr. Hokkaido Imp. Univ. 19: 276.

Specimen examined: 1 ♀, Atsugi, Kanagawa-ken, 17-iv-63, bred from *Grapholitha molesta*, N. Shinkaji leg.

17. *Sericopimpla sagrae sauteri* (Cushman)

Philopsyche sauteri Cushman, 1933. Ins. Mats. 8: 38.

Specimens examined: 3 ♀♀, Morioka, Iwate-ken, 10-vii-64, H. Sugawara leg. & 1 ♀, Morioka, 15-vii-66, J. Minamikawa leg., bred from *Mahasena nitobei*.

18. *Theronia (Theronia) atalantae gestator* (Thunberg)

Ichneumon gestator Thunberg, 1822. Mem. Acad. Imp. Sci. St. Petersburg 8: 262.

Specimens examined: 1 ♀, 1 ♂, Tanashi, Tokyo-to, viii-66, bred from *Hyphantria cunea*, Y. Kishi leg.; 1 ♂, Ishida, Kyoto-fu, 13-ix-53, & 2 ♀♀, 4 ♂♂, Ishida, 27-viii-54, bred from *Adoxophyes orana*, O. Maeda leg.; 1 ♂, Tokyo, 17-vi-30, bred from *Ivela auripes* N. Kumazawa leg.; 1 ♂, Tokyo, 10-vi-51, & 1 ♀, Tokyo, 22-vi-51, bred from *Lymantria dispar*, J. Minamikawa leg.

Subfamily GELINAE

19. *Agrothereutes lanceolatus* (Walker)

Ichneumon lanceolatus Walker, 1874. Cistula Ent. 1: 302.

Specimens examined: 1 ♀, Wakayama-ken, 18-v-39, bred from *Tryporyza incertulas*, collector unknown; 1 ♀, Chiba-shi, 5-vii-61, H. Kobayashi leg., 4 ♀♀, 4 ♂♂, Ami, Ibaragi-ken, 22-vii-64, Y. Kimura leg., 1 ♀, Angyo, Saitama-ken, 25-vii-66, N. Shinkaji leg., & 1 ♀, Atsugi, Kanagawa-ken, 26-vi-66, N. Shinkaji leg., all bred from *Dichocrocis punctiferalis*; 1 ♀, Tsu, Mie-ken, vii-58, bred from *Rhodophaea pirivorella*, K. Tsutsui leg.; 2 ♀♀, 2 ♂♂, Tokyo, 1960, bred from *Margaronia pyloalis*, J. Kuwana & G. Ishii leg.; 1 ♀, 1 ♂, Kodaira, Tokyo-to, 30-vi-65, J. Minamikawa leg., 1 ♂, Kodaira, 20-vi-66, J. Minamikawa leg., 1 ♂, Hiratsuka, Kanagawa-ken, 23-vi-66, N. Shinkaji leg., & 1 ♀, Hiratsuka, 25-vi-66, N. Shinkaji leg., all bred from *Illiberis pruni*.

20. *Gambrus tricoloropsis* Uchida

Gambrus tricoloropsis Uchida, 1932. Ins. Mats. 6: 150.

Specimen examined: 1 ♀, Nishigahara, Tokyo-to, vii-56, bred from *Chilo suppressalis*, S. Kamano leg.

21. *Gelis asozanus* (Uchida)

Pezomachus asozanus Uchida, 1930. Jour. Fac. Agr. Hokkaido Imp. Univ. 25: 344.

Specimen examined: 1 ♀, Shizuoka-shi, 20-vi-66, bred from *Apanteles glomeratus*, Y. Jinpo leg.

22. *Mesoleptus laticinctus* (Walker)

Mesostemus (?) *laticinctus* Walker, 1874. Cistula Ent. 1: 304.

Mesoleptus laevigatus laticinctus Townes, Momoi & Townes, 1965. Mem. Amer. Ent. Inst. No. 5: 148.

Mesoleptus laticinctus Momoi, 1966. Kontyû 39: 208.

Specimens examined: 3 ♀♀, Kanaya, Shizuoka-ken, 20-xi-46, & 2 ♀♀, Kanaya, 26-ix-53, bred from *Calliphora lata*, J. Minamikawa leg.

23. *Phygadeuon akaashii* Uchida

Phygadeuon akaashii Uchida, 1930, Jour. Fac. Agr. Hokkaido Imp. Univ. 25: 338.

Specimens examined: 2 ♀♀, 3 ♂♂, Fuchu, Tokyo-to, 1964, bred from *Sarcophaga* sp., T. Ichinose leg.

24. *Trachysphyrus vittatorius* (Jurine)

Ichneumon vittatorius Jurine, 1807. Nouvelle méthode de classer les hyménoptères et les diptères, p. 107.

Specimens examined: 1 ♀, Nagasaki-shi, 1927, bred from *Canephora asiatica*, T. Ishii leg.; 1 ♀, Sagamihara, Kanagawa-ken, ii-66, bred from *Hyphantria cunea*, S. Takezawa leg.

Subfamily BANCHINAE

25. *Lycorina ornata* Uchida & Momoi

Lycorina ornata Uchida & Momoi, 1959. Ins. Mats. 22: 86.

Specimens examined: 1 ♂, Ishida, Kyoto-fu, 23-ix-53, & 2 ♀♀, 4 ♂♂, Ishida, 27-viii-54, bred from *Adoxophyes orana*, O. Maeda leg.

26. *Teleutaea minamikawai* Momoi

Teleutaea minamikawai Momoi, 1963. Ins. Mats. 25: 100.

Specimens examined: 1 ♀, Kanaya, Shizuoka-ken, 13-v-52, 1 ♀, Kanaya, 15-v-57 & Kanaya, 2-ix-59, bred from *Homona magnanima*, J. Minamikawa leg.

Subfamily PORIZONTINAE

27. *Charops bicolor* (Szépligeti)

Agrypon bicolor Szépligeti, 1906. Ann. Mus. Nat. Hungarici 4: 124.

Specimens examined: 1 ♀, Ashikubo, Shizuoka-ken, 22-vi-58, bred from *Naranga aenescens*, J. Minamikawa leg.; 1 ♂, Ibaragi-ken, 20-vii-54, bred from *Plusia festata*, J. Minamikawa leg.

28. *Devorgilla canescens* (Gravenhorst)

Campoplex canescens Gravenhorst, 1829, Ichneumonologia europaea 3: 555.

Specimens examined: 4 ♀♀, Kanaya, Shizuoka-ken, 11-ix-50, bred from *Cadra cautella*, J. Minamikawa leg.

29. *Hyposter takagii* (Matsumura)

Casinarina takagii Matsumura, 1926. Jour. Fac. Agr. Hokkaido Imp. Univ. 18: 28.

Specimens examined: 4 ♀♀, Kashima, Ibaragi-ken, 6-iv-50, J. Nakahara leg. & 1 ♂, Meguro, Tokyo-to, 18-iv-19, collector unknown, bred from *Dendrolimus spectabilis*.

30. *Sinophorus exartemae* (Uchida)

Limnerium exartemae Uchida, 1928. Jour. Fac. Agr. Hokkaido Imp. Univ. 21: 282.

Specimens examined: 1 ♀, 2 ♂♂, Okitsu, Shizuoka-ken, 26-v-58, *Archips fuscocupreana*, J. Fukuda leg.

Subfamily CREMASTINAE

31. *Temelucha biguttula* [Munakata]

Ophionellus biguttulus [Munakata], 1912. Extra Rep. Agr. Exp. Sta. Aomori 2: 67.

Specimens examined: 1 ♂, Tokyo, 15-vi-38, 2 ♀, 3 ♂♂, Tokyo, 17-vi-38, 8 ♂♂, Tokyo, 23-vii-38, 1 ♂, Tokyo, 1-vii-38, 1 ♂, Tokyo, 11-i-35, 1 ♂, Tokyo, 19-ii-35, & 2 ♀♀, 1 ♂, Tokyo, 19-ii-35, Y. Hama leg., 1 ♀, Tokyo, 18-vi-58, H. Inoue leg., all bred from *Chilo suppressalis*.

32. *Trathala flavoorbitalis* (Cameron)

Tarytia flavo-orbitalis Cameron, 1907. Jour. Bombay Nat. Hist. Soc. 17: 589.

Specimens examined: 1 ♂ Kodaira, Tokyo-to, 4-vi-64, & 1 ♀, Kodaira, 8-vii-64, bred from *Chilo suppressalis*, J. Minamikawa leg.; 1 ♀, Hiratsuka, Kanagawa-ken, 29-iv-65, bred from *Dichocrocis punctiferalis*, N. Shinkaji leg.; 1 ♀, Kanaya, Shizuoka-ken, 30-x-52, *Ostrinia nubilalis*, J. Minamikawa leg.; 3 ♂♂, Futago-tamagawa, Tokyo-to, 3-v-33, bred from *Grapholitha molesta*, Y. Mizutani leg.; 2 ♂♂, Tokyo, 6-vii-66, bred from *Adoxophyes orana*, K. Tachibana leg.

Subfamily MESOCHORINAE

33. *Mesochorus discitergus* (Say)

Cryptus discitergus Say, 1836. Boston Jour. Nat. Hist. 1: 231.

Specimens examined: 40 ♀♀, 35 ♂♂, Shimizu-shi, Shizuoka-ken, 26-vi-53, & 4 ♀♀, 9 ♂♂, Ibaragi-ken, 4-vii-54, bred from *Apanteles ruficrus*, J. Minamikawa leg.

Subfamily METOPIINAE

34. *Metopius* (*Metopius*) *rufus browni* (Ashmead)

Metopius browni Ashmead, 1905. Proc. U.S. Nat. Mus. 29: 117.

Specimens examined: 1 ♂, Toyama-shi, 28-x-61, S. Iwata leg. & 1 ♂, Chikugo-shi, Fukuoka-ken, xii-65, H. Inoue leg., bred from *Prodenia litura*.

Subfamily DIPLAZONTINAE

35. *Diplazon laetatorius* (Fabricius)

Ichneumon laetatorius Fabricius, 1781. Species insectorum...1: 424.

Specimens examined: 1 ♀, Kanaya, Shizuoka-ken, 14-vi-54, bred from *Epistrophe balleata*, J. Minamikawa leg.; 1 ♀, Kanaya, 20-iii-62, bred from *Epistrophe omogensis*, J. Minamikawa leg.; 1 ♀, Kodaira, Tokyo-to, 15-

iii-62, bred from *Metasyrphus corollae*, J. Minamikawa leg.; 1 ♀, Kodaira, 20-iii-62, bred from *Metasyrphus nitens*, J. Minamikawa leg.; 1 ♀, Kodaira, 22-ii-62, bred from *Platycheirus urakawense*, J. Minamikawa leg.; 1 ♀, Kodaira, 20-ii-62, bred from *Sphaerophoria formosana*, J. Minamikawa leg.; 1 ♀, Kodaira, vii-62, bred from *Syrphus ribesii*, J. Minamikawa leg.; 1 ♀, Kodaira, 14-vi-57, bred from *Syrphus serarius*, J. Minamikawa leg.; 1 ♀, Kodaira, 28-iii-62, bred from *Syrphus vitripennis*, J. Minamikawa leg.

36. *Homotropus tarsatorius* (Panzer)

Bassus tarsatorius Panzer, 1809. Faunae insectorum Germanicae...Heft 102.

Specimens examined: 1 ♀, Kodaira, Tokyo-to, 30-iv-62, bred from *Syrphus vitripennis*, J. Minamikawa leg.; 1 ♂, Kodaira, 28-iii-62, bred from *Epistrophe omogensis*, J. Minamikawa leg.

Subfamily ICHNEUMONINAE

37. *Amblyjoppa cognatoria* (Smith)

Ichneumon cognatorius Smith, 1874. Trans. Ent. Soc. London 1874: 287.

Specimens examined: 1 ♂, Tokyo, 4-v-26, bred from *Gurelca himachala sangaica*, collector unknown; 1 ♂, Kodaira, Tokyo-to, vi-64, bred from *Theretra oldenlandiae*, J. Minamikawa leg.

38. *Callajoppa pepsoides* (Smith)

Trogus pepsoides Smith, 1852. Trans. Ent. Soc. London (n. s) 2: 33.

Specimens examined: 1 ♂, Tokyo, 14-x-67, & 1 ♂, Tokyo, 16-x-67, bred from *Psilogramma increta*, K. Sadanaga leg.

39. *Cobunus pallidiolus* (Matsumura)

Ichneumon pallidiolus Matsumura, 1912. Thousand Insects of Japan, Supplement 4: 235.

Specimens examined: 1 ♀, 1 ♂, Tokyo, 5-vi-28, collector unknown; 2 ♀♀, Tokyo, 1936, T. Ishii leg. & 3 ♂♂, Tokyo, 17-vi-36, N. Kumazawa leg. all bred from *Ivela auripes*.

40. *Cratichneumon doliturus* (Smith)

Ichneumon doliturus Smith, 1874. Trans. Ent. Soc. London 1874: 388.

Specimens examined: 2 ♂♂, Takazaki, Gunma-ken, v-66, C. Iizuka leg., 1 ♂, Akita-shi, 12-v-66, H. Hasegawa leg. & 1 ♂, Sagamihara, Kanagawa-ken, ii-66, T. Takezawa leg. all bred from *Hyphantria cunea*.

41. *Diphyus akaashii* (Uchida)

Amblyteles trifasciatus Uchida, 1926. Jour. Fac. Agr. Hokkaido Imp. Univ. 18: 121. (Partim)

Amblyteles trifasciatus var. *akaashii* Uchida, 1955. Jour. Fac. Agr. Hokkaido Univ. 50: 109.

Specimen examined: 1 ♂, Kanaya, Shizuoka-ken, 4-vi-46, bred from *Ama-thes c-nigrum*, J. Minamikawa leg.

42. **Eutanyacra picta** (Schrank)

Ichneumon pictus Schrank, 1776, Beytraege zur Naturgeschichte p. 88.

Specimens examined: 1 ♀, Tokyo, 9-iii-54, H. Santa leg. & 1 ♀, Kodaira, Tokyo, 30-iv-68, J. Minamikawa leg., bred from *Mamestra brassicae*.

43. **Goedartia alboguttata** (Gravenhorst)

Trogus albpoguttata Gravenhorst, 1829. Ichneumonologia europaea 2: 373.

Specimen examined: 1 ♀, Tokyo, 1938, bred from *Dasychira argentata*, T. Ishii leg.

44. **Platyjoppa naxae** Uchida

Platyjoppa naxae Uchida, 1932. Ins. Mats. 6: 145.

Specimen examined: 1 ♀, Seijo, Tokyo-to, 1-vii-37, bred from *Naxa seriaria*, N. Kumazawa leg.

45. **Pterocormus generosus** (Smith)

Ichneumon generosus Smith, 1874. Trans. Ent. Soc. London 1874: 387.

Specimen examined: 1 ♀, Atsugi, Kanagawa-ken, 29-vi-66, bred from *Dichocrocis punctiferalis*, N. Shinkaji leg.

46. **Trogus lapidator lapidator** (Fabricius)

Ichneumon lapidator Fabricius, 1787. Mantissa insectorum...1: 266.

Specimen examined: 1 ♀, Matsumoto, Nagano-ken, 23-vi-47, bred from *Hestina japonica*, E. Inui leg.

47. **Ulesta agitata** (Matsumura & Uchida)

Chasmias agitatus Matsumura & Uchida, 1926. Jour. Fac. Agr. Hokkaido Imp. Univ. 18: 72.

Specimen examined: 1 ♂, Gunma-ken, 26-vi-52, bred from *Favonius orientalis*, C. Hirano leg.

48. **Vulgichneumon leucaniae** (Uchida)

Melanichneumon leucaniae Uchida, 1924. Jour. Sapporo Soc. Agr. Forest. 16: 207.

Specimens examined: 1 ♀, Tokyo, 24-vii-38, collector unknown & 1 ♂, Kyoto, 10-x-54, S. Iwao leg. bred from *Mythimna separata*.

Host List

Host	Parasite
PSYCHIDAE	
* <i>Canephora asiatica</i> (Staudinger).....	<i>Itopectis alternans spectabilis</i> (Matsumura)

* This is a new host record.

- C. asiatica* (Staudinger) *Trachysphyrus vittatorius* (Jurine)
Cryptothelea pryri (Leech)
 *Scambus* (*Ateleophadnus*) *divergens* (Uchida & Momoi)
C. pryri (Leech) or *Mahasena minuscula* (Butler)
 *C. disparis* (Viereck)
 **M. minuscula* (Butler) *C. turionellae* (Linnaeus)
M. minuscula (Butler) *Sericopimpla sagrae asueri* (Cushman)
 **M. minuscula* (Butler) *Itopectis alternans spectabilis* (Matsumura)
M. nitobei (Matsumura) *I. alternans spectabilis* (Matsumura)
M. nitobei (Matsumura) *Sericopimpla sagrae sauteri* (Cushman)

GRACILARIIDAE

- **Caloptilia theivora* (Walsingham) ... *Itopectis alternans spectabilis* (Matsumura)

PLUTELLIDAE

- Plutella xylostella* (Linnaeus) (= *P. maculipennis* Curtis)
 *I. alternans spectabilis* (Matsumura)
P. xylostella (Linnaeus) *I. narangae* (Ashmead)

GELECHIIDAE

- **Pectinophora gossypiella* (Saunders)
 *Scambus* (*Ateleophadnus*) *divergens* (Uchida & Momoi)
 **P. gossypiella* (Saunders)
 *S. (Endromopoda) annulitarsis* (Ashmead)

TORTRICIDAE

- Adoxophyes orana* (Fischer von Roeslerstamm)
 *Itopectis alternans spectabilis* (Matsumura)
A. orana (Fischer von Roeslerstamm) *I. narangae* (Ashmead)
 **A. orana* (Fischer von Roeslerstamm)
 *Theronia* (*Theronia*) *atalantae gestator* (Thunberg)
A. orana (Fischer von Roeslerstamm)
 *Lycorina ornata* Uchida & Momoi
 **A. orana* (Fischer von Roeslerstamm)
 *Trathala flavoorbitalis* (Cameron)
 **Archips fuscocupreana* (Walsingham) *Sinophorus exartemae* (Uchida)
Homona magnanima Diakonoff *Coccygomimus luctuosa* (Smith)
H. magnanima Diakonoff *C. parnarae* (Viereck)
H. magnanima Diakonoff *Teleutaea minamikawai* Momoi

OLETHREUTIDAE

- Grapholitha molesta* (Busck) ... *Scambus* (*Scambus*) *glycinivorellae* (Kuwayama)
G. molesta (Busck) *Trathala flavoorbitalis* (Cameron)
Matsumuraeses phaseoli (Matsumura) *Coccygomimus nipponicus* (Uchida)

PYRALIDAE

- Chilo suppressalis* (Walker) *Itopectis narangae* (Ashmead)
C. suppressalis (Walker) *Gambrus tricoloropsis* Uchida
C. suppressalis (Walker) *Trathala flavoorbitalis* (Cameron)

- Chilo suppressalis* (Walker) *Temelucha biguttula* [Munakata]
Cadra cautella (Walker) *Devorgilla canescens* (Gravenhorst)
Dichocrocis punctiferalis (Guenée) *Coccygomimus disparis* (Viereck)
**D. punctiferalis* (Guenée) *C. parnarae* (Viereck)
**D. punctiferalis* (Guenée) *Agrothereutes lanceolatus* (Walker)
**D. punctiferalis* (Guenée) *Trathala flavoorbitalis* (Cameron)
D. punctiferalis (Guenée) *Pterocormus generosus* (Smith)
Margaronia pyloalis (Walker) *Apistephialtes* sp.
M. pyloalis (Walker) *Acropimpla persimilis* (Ashmead)
M. pyloalis (Walker) *Gregopimpla himalayensis* (Cameron)
M. pyloalis (Walker) *Agrothereutes lanceolatus* (Walker)
**Ostrinia nubilalis* (Hübner)
..... *Scambus (Ateleophadnus) divergens* (Uchida & Momoi)
O. nubilalis (Hübner) *Trathala flavoorbitalis* (Cameron)
Rhodophaea pirivorella (Matsumura)
..... *Scambus (Ateleophadnus) divergens* (Uchida & Momoi)
**R. pirivorella* (Matsumura) *Itopectis alternans spectabilis* (Matsumura)
**R. pirivorella* (Matsumura) *Agrothereutes lanceolatus* (Walker)
**Tryporyza incertulas* (Walker) *A. lanceolatus* (Walker)

ZYGAENIDAE

- *Illiberis pruni* Dyar *A. lanceolatus* (Walker)

GEOMETRIDAE

- Naxa seriaria* (Motschulsky) *Platyjoppa naxae* Uchida

LASIOCAMPIDAE

- Dendrolimus spectabilis* (Butler) *Hyposter takagii* (Matsumura)
Malacosoma neustria testacea (Motschulsky) *Coccygomimus luctuosus* (Smith)
M. neustria testacea (Motschulsky)
..... *Gregopimpla himalayensis* (Cameron)

LYMANTRIIDAE

- *Dasychira argentata* Butler *Goedartia alboguttata* (Gravenhorst)
**Euproctis similis* (Fuessly) *Ephialtes capulifera* (Kriechbaumer)
E. pseudoconspersa Strand *Coccygomimus luctuosus* (Smith)
Ivela auripes (Butler) *Cobunus pallidiolus* (Matsumura)
I. auripes (Butler) *Theronia (Theronia) atalantae gestator* (Thunberg)
I. auripes (Butler) *Ephialtes capulifera* (Kriechbaumer)
I. auripes (Butler) *Coccygomimus luctuosus* (Smith)
Lymantria dispar (Linnaeus) *Theronia (Theronia) atalantae gestator* (Thunberg)
**Orgyia thyellina* Butler *Coccygomimus parnarae* (Viereck)

NOCTUIDAE

- *Amathes c-nigrum* (Linnaeus) *Diphyus akaashii* (Uchida)
**Mamestra brassicae* (Linnaeus) *Eutanyacra picta* (Schrank)
Mythimna separata (Walker) *Coccygomimus parnarae* (Viereck)
M. separata (Walker) *Vulgichneumon leucaniae* (Uchida)
Naranga aenescens Moore *Charops bicolor* (Szépligeti)

- Oraesia excavata* (Butler) *Coccygomimus disparis* (Viereck)
 **Plusia festata* Graeser *Charops bicolor* (Szépligeti)
P. sp. *Ephialtes capulifera* (Kriechbaumer)
 **Prodenia litura* (Fabricius) *Metopius* (*Metopius*) *rufus browni* (Ashmead)

ARCTIIDAE

- Hyphantria cunea* (Drury) *Coccygomimus disparis* (Viereck)
H. cunea (Drury) *C. luctuosus* (Smith)
H. cunea (Drury) *C. parnarae* (Viereck)
 **H. cunea* (Drury) *Theronia* (*Theronia*) *atalantae gestator* (Thunberg)
 **H. cunea* (Drury) *Trachysphyrus vittatorius* (Jurine)
H. cunea (Drury) *Cratichneumon doliturus* (Smith)

SPHINGIDAE

- Gurelca himachala sangaica* (Butler) *Amblyjoppa cognatoria* (Smith)
Psilogramma increta (Walker) *Callajoppa pepsoidea* (Smith)
Theretra oldenlandiae (Fabricius) *Amblyjoppa cognatoria* (Smith)

HESPERIDAE

- Parnara guttata* (Bremer & Grey) *Coccygomimus parnarae* (Viereck)
 **P. guttata* (Bremer & Grey) *Itoplectis narangae* (Ashmead)

PAPILIONIDAE

- **Byasa alcinous* (Klug) *Coccygomimus luctuosus* (Smith)

PIERIDAE

- **Aporia hippa japonica* (Matsumura) *Ephialtes capulifera* (Kriechbaumer)
Pieris rapae crucivora (Boisduval) *Coccygomimus disparis* (Viereck)

LYCAENIDAE

- **Favonius orientalis* (Murray) *Ulesta agitata* (Matsumura & Uchida)
 **Lampides boeticus* (Linnaeus) *Coccygomimus luctuosus* (Smith)
 **L. boeticus* (Linnaeus) *C. parnarae* (Viereck)
 **L. boeticus* (Linnaeus) *C. turionellae* (Linnaeus)
 **L. boeticus* (Linnaeus) *Itoplectis alternans spectabilis* (Matsumura)

NYMPHALIDAE

- **Hestina japonica* Felder & Felder *Trogus lapidator lapidator* (Fabricius)
 **Vanessa indica* (Herbst) *Ephialtes capulifera* (Kriechbaumer)

SATYRIDAE

- **Lethe diana* (Butler) *E. capulifera* (Kriechbaumer)

SIRICIDAE

- **Urocerus japonicus* (Smith) *Megaryssa praececellens* (Tosquinet)
 **Xeris spectrum* (Linnaeus) *Rhyssa persuasoria* (Linnaeus)

BRACONIDAE

- Apanteles glomeratus* (Linnaeus) *Gelis asozanus* (Uchida)
A. ruficrus Haliday *Mesochorus discitergus* (Say)

SYRPHIDAE

- Epistrophe balteata* (Degeer) *Diplazon laetatorius* (Fabricius)
 **E. omogensis* Shiraki & Edashige *D. laetatorius* (Fabricius)
 **E. omogensis* Shiraki & Edashige *Homotropus tarsatorius* (Panzer)
Metasyrphus corollae (Fabricius) *Diplazon laetatorius* (Fabricius)
M. nitens (Zetterstedt) *D. laetatorius* (Fabricius)
 **Platycheirus urakawense* (Matsumura) *D. laetatorius* (Fabricius)
 **Sphaerophoria formosana* (Matsumura) *D. laetatorius* (Fabricius)
Syrphus ribesii (Linnaeus) *D. laetatorius* (Fabricius)
 **S. serarius* Wiedeman *D. laetatorius* (Fabricius)
 **S. vitripennis* Meigen *D. laetatorius* (Fabricius)
S. vitripennis Meigen *Homotropus tarsatorius* (Panzer)

CALLIPHORIDAE

- Calliphora lata* Coquillett *Mesoleptus laticinctus* (Walker)

SARCOPHAGIDAE

- **Sarcophaga* sp. *Phygadeuon akaashii* Uchida

新 著 紹 介

Pacific Insects Monograph 21

R. G. Fennah, 1969 : Fulgoroidea (Homoptera) from New Caledonia and the Loyalty Islands. 116 pp.

ニューカレドニアの昆虫相は極めて特異であるといわれている。このビワハゴロモ上科のモノグラフは、ニューカレドニアとその東海上約 100 km に点在する島からなる Loyalty 群島産の種類を扱ったもので、主としてビショップ博物館のコレクションに基づいて 16 新属 68 新種の記載と 24 未記録種の追加を行なっている。これで同地域のビワハゴロモ上科は 56 属 117 種となつた。同地域の本上科の分布で特異な事実は、フィリピンからニューギニア、クイーンズランドやフィジーにかけて広く分布している *Swezeyia* 属或は *Lamenia* 属が全く発見されないことだという。このほかニューカレドニアのビワハゴロモ相について概説する。南太平洋地域の生物地理学的考究には欠かせない文献であろう。定価 1,400 円 (上製 1,800 円), 送料共。申し込みは九大農学部昆虫学教室内パシフィック・インセクツ宛。

(平嶋義宏)