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SPHECOIDEA FROM THE RYUKYUS AND FORMOSA
(Hymenoptera)¹

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V. Trypoxyloninae

30. *Pison (Pison) punctifrons* Shuckard, 1837

Pison fabricator: Strand, Arch. Naturg. Abt. A, 79 (7): 164, 1913 (Formosa).

Pison fabricator: Sonan, Trans. Nat. Hist. Soc. Formosa, 17 (89): 136, 1917;
Ibid., 21 (112): 7, 1931.

Pison fabricator: Yasumatsu, Annot. Zool. Jap., 14 (2): 265, 1933.

* *Pison punctifrons*: Yasumatsu, Ibid., 15 (2): 236, 1935.

* *Pison punctifrons*: Yasumatsu, Jour. Fac. Agr., Kyushu Univ., 10 (2): 145, 1953.

Pison punctifrons: Tsuneki, Life Study, 6 (1): 5, 1962 (Amami-Oshima Is.).

Specimens examined: 2 ♀♀ 3 ♂♂, Formosa: 1 ♂, Taichung Hsien (Taichung), 26. IV. 1965, T. Shirôzu; 1 ♀ 2 ♂♂, Nantou Hsien (Puli), 22, 28. V, 3. VI. 1965, T. Shirôzu; 1 ♀, Tainan Hsien (Paiho), 6. IV. 1965, Y. Hirashima; 1 ♀ 2 ♂♂, Okinoerabu Is., 6-8. VIII. 1963, K. Yasumatsu et K. Yano; 1 ♀, Tokunoshima Is., 27. VII. 1963, Y. Hirashima.

31. *Trypoxylon subpileatum* Strand, 1922

Trypoxylon subpileatum: Tsuneki, Etizenia, 13: 4, 1966.

Specimen examined: 1 ♀, Formosa: Pingtung Hsien (Szuchunghsi), 4. IV. 1965, Y. Hirashima.

32. *Trypoxylon formosicola* Strand, 1922

Trypoxylon formosicola: Tsuneki, Etizenia, 13: 6, 1966.

Specimen examined: 1 ♀, Formosa: Pingtung Hsien (Kenting), 4. IV. 1965, T. Saigusa.

33. *Trypoxylon inornatum* Matsumura, 1926

Trypoxylon inornatum: Tsuneki, Etizenia, 13: 7, 1966.

Specimens examined: 1 ♀, Amami-Oshima Is., 29. VII. 1963, Y. Hirashima; 1 ♀, Tokunoshima Is., 27. VII. 1963, Y. Hirashima.

34. *Trypoxylon ryukyuense* Tsuneki, 1966

Trypoxylon ryukyuense: Etizenia, 13: 9, 1966.

¹ Continued from vol. 35, no. 4, p. 390.

* With the detailed list of literature up to that time.

Specimens examined: 1 ♀, Amami-Oshima Is. (Yuwandake), 6. VIII. 1963, T. Okada; 1 ♀, Tokunoshima Is. (Mikyo), 22. VII. 1963, Y. Hirashima.

35. **Trypoxylon obsonator** Smith, 1873

Trypoxylon obsonator: Tsuneki, Etizenia, 13: 10, 1966.

Specimen examined: 1 ♀, Tokunoshima Is., 27. VII. 1963, Y. Hirashima.

36. **Trypoxylon gracilescens** Smith, 1860

Trypoxylon gracilescens petioloides Strand, Internat. Ent. Zeitschr., 16 (18): 150, 1922.

Trypoxylon gracilescens var. *petioloides*: Yasumatsu, Trans. Nat. Hist. Soc. Formosa, 28 (174): 74, 1938.

Trypoxylon gracilescens var. *petioloides*: Iwata, Ibid., 29 (189): 175, 1939 (biol.).

Trypoxylon gracilescens: Tsuneki, Etizenia, 13: 10, 1966.

Specimen examined: 1 ♀, Formosa: Nantou Hsien (Nanshanchi), 30. IV. 1965, T. Shirôzu.

37. **Trypoxylon takasago** Tsuneki, 1966

Trypoxylon takasago Tsuneki, Etizenia, 13: 11, 1966.

Specimens examined: 2 ♀♀, Formosa: Keeling Shih (Pinglin), 4. IV. 1965, T. Saigusa.

38. **Trypoxylon shirozui** Tsuneki, 1966

Trypoxylon shirozui Tsuneki, Etizenia, 13: 14, 1966.

Specimen examined: 1 ♀, Formosa: Nantou Hsien (Sungkang), 31. V. 1965, T. Shirôzu.

39. **Trypoxylon koshunicon** Strand, 1922

Trypoxylon koshunicon: Tsuneki, Etizenia, 13: 16, 1966.

Specimen examined: 1 ♀, Formosa: Pingtung Hsien (Kenting), 4. IV. 1965, T. Shirôzu.

VI. Pemphredoninae

40A. **Psen (Psen) exaratus intermedius** Tsuneki, 1966

Psen (Psen) exaratus intermedius Tsuneki, Etizenia, 13: 4, 1966.

Specimen examined: 1 ♂, Okinawa Is. (Yona), 27. IV. 1967, Y. Hirashima.

40B. **Psen (Psen) exaratus taiwanus** Tsuneki, 1966

Psen (Psen) exaratus taiwanus Tsuneki, Etizenia, 13: 6, 1966.

Specimen examined: 1 ♀, Formosa: Nantou Hsien (Penpuchi), 26. V. 1965, T. Shirôzu.

41. *Psen* (*Psen*) *hirashimai* Tsuneki, 1966

Psen (*Psen*) *hirashimai* Tsuneki, *Etizenia*, 13: 7, 1966.

Specimen examined: 1 ♀, Amami-Oshima Is. (Yuwan), 29. VII. 1963, Y. Hirashima.

42. *Psen* (*Psen*) *shirozui* Tsuneki, 1966

Psen (*Psen*) *shirozui* Tsuneki, *Etizenia*, 13: 10, 1966.

Specimen examined: 1 ♂, Formosa: Chiayi Hsien (Fenchihu), 12. IV. 1965, T. Shirôzu.

43. *Psenulus* (*Psenulus*) *quadridentatus formosanus* Tsuneki

Psenulus (*Psenulus*) *quadridentatus formosanus* Tsuneki, *Etizenia*, 13: 12, 1966.

Specimens examined: 2 ♂♂, Formosa: Nantou Hsien (Sungkang), 29. VI. 1965, T. Shirôzu.

44. *Psenulus* (*Psenulus*) *formosicola* Strand, 1915

Psenulus formosicola Strand, *Arch. Naturg. Abt. A*, 7: 21, 1915.

Psenulus (*Psenulus*) *formosicola*: Tsuneki, *Etizenia*, 13: 12, 1966.

Specimens examined: 2 ♀♀ 2 ♂♂, Formosa: 1 ♀ 2 ♂♂, Nantou Hsien (Penpu-chi), 2, 26. V. 1965, T. Shirôzu; 1 ♀, Tainan Hsien (Kuantzuling), 7. IV. 1965, Y. Hirashima.

45. *Pemphredon* (*Pemphredon*) *shirozui* Tsuneki, 1966

Pemphredon (*Pemphredon*) *shirozui* Tsuneki, *Etizenia*, 13: 14, 1966.

Specimen examined: 1 ♂, Formosa: Nantou Hsien (Sungkang), 31. V. 1965.

46. *Stigmus* (*Carinostigmus*) *taiwanensis* Tsuneki, 1966

Stigmus (*Carinostigmus*) *taiwanensis* Tsuneki, *Etizenia*, 13: 15, 1966.

Specimen examined: 1 ♂, Formosa: Nantou Hsien (Sungkang), 31. V. 1965, T. Shirôzu.

47. *Stigmus* (*Carinostigmus*) *saigusai* Tsuneki, 1966

Stigmus (*Carinostigmus*) *saigusai* Tsuneki, *Etizenia*, 13: 17, 1966.

Specimen examined: 1 ♂, Formosa: Chiayi Hsien (Chihsinliao), 19. IV. 1965, T. Saigusa.

VII. Crabroninae

48. *Crossocerus* (*Apocrabro*) *aeta* Pate, 1943

* *Crossocerus* (*Apocrabro*) *aeta*: Tsuneki, *Etizenia*, 15: 2, 1966.

Specimen examined: 1 ♂, Formosa: Nantou Hsien (Nanshanchi), 20. VI. 1965, T. Shirôzu.

49. *Crossocerus* (*Crossocerus*) *takasago* Tsuneki, 1966

Crossocerus (*Crossocerus*) *takasago* Tsuneki, *Etizenia*, 15: 3, 1966.

Specimens examined: 1 ♂, Formosa: Chiayi Hsien (Arishan, 2300 m), 9. IV.

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1965, Y. Hirashima; 1 ♀, Formosa: Tainan Hsien (Kuantzuling), 7. IV. 1965, T. Shirôzu leg.

50. *Crossocerus* (*Coelocrabro*) *hirashimai* Tsuneki, 1966

Crossocerus (*Coelocrabro*) *hirashimai* Tsuneki, Etizenia, 15: 5, 1966.

Specimens examined: 2 ♂♂, Amami-Ohshima Is., 29. VII. 1963, Y. Hirashima leg.

51. *Crossocerus* (*Cuphopterus*) *hakusanus* Tsuneki, 1954

Crossocerus (*Cuphopterus*) *hakusanus*: Tsuneki, Etizenia, 15: 6, 1966.

Specimen examined: 1 ♂, Amami-Ohshima Is. (Yuwan), 31. VII. 1963, Y. Hirashima.

52. *Ectemnius* (*Hypocrabro*) *schlettereri* (Kohl, 1888)

* *Ectemnius* (*Hypocrabro*) *schlettereri*: Tsuneki, Etizenia, 15: 7, 1966.

Specimen examined: 1 ♂, Amami-Ohshima Is. (Yuwan), 31. VII. 1963, Y. Hirashima.

53. *Ectemnius* (*Clytochrysus*) *nigrifrons* (Cresson, 1865)

* *Ectemnius* (*Clytochrysus*) *nigrifrons*: Tsuneki, Etizenia, 15: 8, 1966.

Specimen examined: 1 ♀, Formosa: Nantou Hsien (Sungkang), 31. V. 1965, T. Shirôzu.

54. *Ectemnius* (*Cameronitus*) *orius cetonicus* Leclercq, 1958

Ectemnius (*Cameronitus*) *orius cetonicus*: Tsuneki, Etizenia, 15: 8, 1966.

Specimens examined: 2 ♀♀ 3 ♂♂, Formosa: 2 ♀♀ 2 ♂♂, Nantou Hsien (Penpuchi, Nanshanchi), 29. IV. 1965, 20. VI. 1965, T. Shirôzu; 1 ♂, Chiayi Hsien (Chihsinliao), 15. IV. 1965 T. Shirôzu.

55. *Ectemnius* (*Cameronitus*) *flavohirtus* Tsuneki, 1954

Ectemnius (*Cameronitus*) *flavohirtus*: Tsuneki, Etizenia, 15: 9, 1966.

Specimen examined: 1 ♀, Formosa: Tainan Hsien (Kuantzuling), 7. IV. 1965, T. Shirôzu.

56. *Dasyproctus ceylonicus* de Saussure, 1867

* *Ectemnius ceylonicus*: Tsuneki, Etizenia, 15: 11, 1966.

Specimens examined: 3 ♀♀ 2 ♂♂, Formosa: 1 ♂, Taipei Hsien (Yangming-shan), 1. VII. 1965; 3 ♀♀, Nantou Hsien (Penpuchi, Meichi), 29. IV., 13. V. 1965, T. Shirôzu; 1 ♂, Pingtung Hsien (Kenting), 4. IV. 1963, S. Miyamoto.

57. *Rhopalum* (*Calceorhopalum*) *formosanum* Tsuneki, 1966

Rhopalum (*Calceorhopalum*) *formosanum* Tsuneki, Etizenia, 15: 13, 1966.

Specimens examined: 1 ♀ 1 ♂, Formosa: 1 ♀, Chiayi Hsien (Fenchihu), 16. IV. 1965, T. Saigusa; 1 ♂, Nantou Hsien (Sung kang), 29. VI. 1965, T. Shirôzu.

58. *Rhopalum* (*Rhopalum* ?) *tayalum* Tsuneki

Rhopalum (*Rhopalum* ?) *tayalum* Tsuneki, *Etizenia*, 15: 16, 1966.

Specimen examined: 1 ♂, Formosa: Nantou Hsien (Sung kang), 29. VI. 1965.

59. *Rhopalum* (*Latrorhopalum*) *shirozui* Tsuneki, 1965

Rhopalum (*Latrorhopalum*) *shirozui*: Tsuneki, *Etizenia*, 15: 12, 1966.

Specimen examined: 1 ♀, Formosa: Nantou Hsien (Sung kang), 31. V. 1965, T. Shirôzu.

B. Ampulicidae

60. *Ampulex dentata* Matsumura et Uchida, 1926

Ampulex dentata Matsumura et Uchida, *Ins. Matsumurana*, 1 (1): 38, 1926.

Ampulex dentata: Yasumatsu, *Tenthredo*, 1 (2): 187, 1936.

Specimen examined: 1 ♂, Amami-Ohshima Is. (Yuwan), 29. VII. 1963, Y. Hirashima.

61. *Trirhogma caerulea* Westwood, 1840

Trirhogma caerulea: Strand, *Arch. Naturg. Abt. A*, 1913 (7): 156, 1913.

* *Trirhogma caerulea*: Yasumatsu, *Tenthredo*, 1 (2): 215, 1936.

Trirhogma caerulea: Tsuneki, *Etizenia*, 21: 5, 1967.

Specimen examined: 1 ♂, Formosa: Chiayi Hsien (Chuchi), 12. IV. 1965, Y. Hirashima.

62. *Dolichurus abbreviatus* Strand, 1913

Dolichurus abbreviatus Strand, *Arch. Naturg. Abt. A*, 1913 (7): 154, 155, 1913 (♀ ♂).

Dolichurus abbreviatus: Yasumatsu, *Tenthredo*, 1 (2): 221, 1936.

Dolichurus abbreviatus: Tsuneki, *Etizenia*, 21: 5, 1967.

Specimen examined: 1 ♂, Formosa: Taipei Hsien (Yangmingshan), 28. III. 1965, Y. Hirashima.

63. *Dolichurus formosanus* Tsuneki, 1967

Dolichurus formosanus Tsuneki, *Etizenia*, 21: 6, 1967.

Specimen examined: 1 ♀ (holotype), Formosa: Chiayi Hsien (Mt. Ali, 2300 m), 9. IV. 1965, T. Shirôzu leg.; 1 ♀ (paratype), the same place and date, Y. Hirashima leg.

64. *Dolichurus shirozui* Tsuneki, 1967

Dolichurus shirozui Tsuneki, *Etizenia*, 21: 8, 1967.

Specimen examined: 1 ♂ (holotype), Formosa: Nantou Hsien (Penpuchi), 26. V. 1965, T. Shirôzu.