

STUDIES ON INDIAN ICHNEUMONIDÆ
(HYMENOPTERA)

Part I. Subfamily *Mesochorinæ*

Part II. Subfamily *Diplazoninæ*

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PART I

SUBFAMILY MESOCHORINÆ

INTRODUCTION

In a previous paper the importance of the parasitic family Ichneumonidæ (Hymenoptera) has been stressed from the point of view of its applied

importance in the biological control of insect pests. No work has been done in India on the subfamily Mesochorinæ. Morley mentioned Mesochorides as tribe of Ophioninæ in *Fauna British India, Hymen.*, 3 (1913). This subfamily has now been created according to recent trends in the taxonomic work of this family. All the available references to the various species have been verified and the recent views of the specialists on the synonymy of this group has been adopted.

ZOOLOGICAL NOMENCLATURE

International rules on zoological nomenclature as supplemented by opinions have formed the basis for this systematic work. All the super-generic names are based on the oldest included genus.

ACKNOWLEDGEMENT

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ARRANGEMENT

Superspecific classifications and 'Trivial' names have been adopted from Muesebeck *et al.* (1951) and described accordingly.

POSITION OF INDIAN MESOCHORINÆ

Davis (1897) treated *Mesochorus* Grav. in a tribe Mesochorini of the subfamily Ophioninæ. Ashmead (1900) treated *Mesochorus* Grav. besides other related genera in a tribe Mesochorini of the subfamily Ophioninæ. Dalla Torre (1901-02) put *Mesochorus* Grav. and related genera in a subfamily Mesochorinæ of Ophionoidæ section. Szepligeti (1911) treated *Mesochorus* Grav. and related genera in subfamily Mesochorinæ in group Mesochoroidæ (Ophionoidæ part). The Mesochorides have been treated by Morley (1913) as tribe of Ophioninæ. But the genus *Mesochorus* of Gravenhorst, Ratzeburg, and Halmgren has been raised by recent taxonomists, namely, Muesebeck, Krombein, Townes and others (1951) to the rank of a definite subfamily.

So far no work has been done on the Indian Mesochorinæ. Morley (1913) placed the genus *Tetragonalys* Morley in the tribe Paniscides of the subfamily Ophioninæ and the genera *Astrophromma* Forst, *Mesochorus* Grav. and

Edinsa Cam. in tribe Mesochorides of the subfamily Ophioninæ. Very recently the genera *Pseudochorus* Rao and *Mesochorella* Szepligetii have been put in the tribe Mesochorini. We are of opinion that a more natural system of classification would be to include them also along with four in the subfamily Mesochorinæ.

The members of this subfamily are readily recognised from the remainder of the Ichneumonidæ by the peculiar shape of alar areolet which is oblique square (large Rhomboidal) that is to say that it has angle at the top, bottom and either side in place of two on radial nervures and two below as in Cryptinæ and by two stylid projections at the apex of the abdomen of male. Spiracles are at or behind the centre never before as in most Ophioninæ.

The Mesochorides are parasites on Lepidoptera and other Hymenoptera and have been bred from Chrysomelid and Curculionid, but are most often met with in an injurious role as hyperparasites of beneficial Braconids of the subfamily Microgasterinæ of caterpillar pests.

Systematically Arranged Catalogue of Indian Species

Subfamily MESOCHORINÆ

Mesochoroidæ Forster, *Verh. Naturh. Ver. Preuss. Rheinl.*, **17**: 143, 170, (1868).

Mesochorinæ Dalla Torre, *Cat. Hymen.*, **3**: (1901-02). Szepligetii, *Genera Insect.*, *fas.* 114: 42, (1911). Townes, *Mem. Amer. ent. Soc.*, **11** (2): 748, (1945). Muesebeck, Krombein, Townes and others, *U.S. Dep. Agric. Monograph*, **2**: 405, (1951).

Cidaphus Forster

Cidaphus Forster, *Verh. Naturh. Ver. Preuss. Rheinl.*, **25**: 149, (1868), (Type of genus: *Cidaphus thuringiacus* Brauns). Desig. by Viereck, 1914. Townes, *Mem. Amer. ent. Soc.*, **11** (2): 748, (1945). Muesebeck, Krombein and others, *U.S. Dep. Agric. Monograph*, **2**: 405, (1951).

Plesiophthalmus Forster, *Verh. Naturh. Ver. Preuss. Rheinl.*, **25**: 170, (1868). Preoccupied by Motschoulsky, (1858). Townes, *Mem. Amer.*

- ent. Soc.*, **11** (2): 748, (1945). Muesebeck, Krombein, Townes and others, *U.S. Dep. Agric. Monograph*, **2**: 405, (1951).
- Mater* Schulz, *Zool. Ann.*, **4**: 44, (1911). (New name for *Plesiophthalmus* Forster.) Townes, *Mem. Amer. ent. Soc.*, **11** (2): 748, (1945). Muesebeck, Krombein, Townes and others, *U.S. Dep. Agric. Monograph*, **2**: 405, (1951).
- Tetragonalys* Morley, *Rev. Ichn. Brit. Mus.*, **2**: 132, (1913); *Fauna Brit. India, Hymen.*, **3**: 359, (1913).¹ Townes, *Mem. Amer. ent. Soc.*, **11** (2): 748, (1945). Muesebeck, Krombein, Townes and others, *U.S. Dep. Agric. Monograph*, **2**: 405, (1951). ¹ Range. Himalayas.
- Plesiophthalmidea* Viereck, *Bull. U.S. Nat. Mus.*, **83**: 119, (1914). Townes, *Mem. Amer. ent. Soc.*, **11** (2): 748, (1945). Muesebeck, Krombein, Townes and others, *U.S. Dep. Agric. Monograph*, **2**: 405, (1951).
- Ophthalmochorus* Rohman, *Archivfor Zoologi*, **17 A** (4): 29, (1925). N. name for *Plesiophthalmus*. Townes, *Mem. Amer. ent. Soc.*, **11** (2): 748, (1945). Muesebeck, Krombein, Townes and others, *U.S. Dep. Agric. Monograph*, **2**: 405, (1951).
- barbarica* (Morley), n. comb.
- Tetragonalys barbarica* Morley, *Rev. Ichn. Brit. Mus.*, **2**: 132, (1913).¹ ¹ Tibet: Gyangtse.

Astiphromma Forster

- Astiphromma* Forster, *Verh. Naturh. Ver. Preuss. Rheinl.*, **25**: 170, (1868), (Type of genus: *Mesochorus scutellatus* Gravenhorst). Dalla Torre, *Cat. Hymen.*, **3**: 60, (1901-02). Szepligeti, *Genera Insect., fas. 114*: 43, (1911). Morley, *Ichn. Brit.*, **5**: 306, (1913); *Fauna Brit. India, Hymen.*, **3**: 516 (1913).¹ Townes, *Mem. Amer. ent. Soc.*, **11** (2): 749, (1945). Muesebeck, ¹ United States, Europe, Ceylon,

Krombein, Townes and others, *U.S. Dep. Agric. Monograph*, 2: 405, (1951).

Astiphrommus Thomson, *Soc. Ent. France, Ann.*, 5 (6): 327, (1886).

petiolata Morley

Astiphromma petiolata Morley, *Fauna Brit. India, Hymen.*, 3: 516, (1913). ♀¹.

¹ Ceylon: Peradeniya.

Mesochorus Gravenhorst

Mesochorus Gravenhorst, *Echn. Eur.*, 2: 960, (1829), (Type of genus: *Mesochorus splendidulus* Grav.) Dalla Torre, *Cat. Hymen.*, 3: 51, (1901-02). Szepligeti, *Genera Inesct., fas.* 114: 44, (1911). Morley, *Ichn. Brit.*, 5: 313, (1906); *Fauna Brit. India, Hymen.*, 3: 517, (1913).¹ Dutt, *Mem. Dep. Agric. India, Ent.*, 8 (2): 22, (1923). Townes, *Mem. Amer. ent. Soc.*, 11 (2): 750, (1945). Muesebeck, Krombein, Townes, and others, *U.S. Dep. Agric. Monograph*, 2: 406, (1951).

¹ North America, Europe, Sikkim, Assam & Burma.

Stictopisthus Thomson, *Soc. Ent. France Ann.*, 5 (6): 327, (1886).

claristigmaticus Morley

Mesochorus claristigmaticus Morley, *Fauna Brit. India, Hymen.*, 3: 519, (1913). ♀¹

¹ Sikkim: Darjeeling.

confusus Holmgren

Mesochorus confusus Holmgren, *Svensk. Vet. Akad. Handl.*, 2 (2): 129, (1858). ♂, ♀. Szepligeti, *Genera Insect., fas.* 114: 45, (1911). Dutt, *Mem. Dep. Agric. India, Ent.*, 8 (2): 22, (1923).¹

¹ Assam: Shillong.

facialis Bridgman

Mesochorus facialis Bridgman, *Trans. Ent. Soc. Lond.*, 431, (1884). Thomson, *Soc. Ent. France Ann.*, 343, (1886). ♂, ♀. Dalla Torre,

Cat., Hymen., 3: 54, (1901-02). Szepligeti, *Genera Insect., fas.* 114: 45, (1911). Morley, *Ichn. Brit.*, 5: 334, (1913); *Fauna Brit. India, Hymen.*, 3: 518, (1913). ♂, ♀.¹ Dutt, *Mem. Dep. Agric. India, Ent.*, 8 (2): 22, (1923).²

¹ Bengal: Pusa, Chopra; Assam: Sadiya, Europe.

² Bengal: Pusa, Chopra.

fragilis Morley

Mesochorus fragilis Morley, *Fauna Brit. India, Hymen.*, 3: 519, (1913). ♂.¹

¹ Tenasserim.

hupalia Rao

Mesochorus hupalia Rao, *Indian For. Rec.*, New series, 8 (8): 200, (1953). ♀.¹

¹ Wynaad (Madras).

indica Cushman

Mesochorus indica Cushman, *Indian For. Rec. Delhi*, 20 (12): 8, (1934). ♂, ♀.¹

¹ Rohatgoon, Hoshangabad, Central Provinces, India.

panti Rao

Mesochorus panti Rao, *Indian For. Rec.*, New series, 8 (8): 198, (1951). ♀.¹

¹ Wynaad (Madras).

Edrisa Cameron

Edrisa Cameron, *Tijds. Ent.*, 111, (1907), (Type of genus: *E. pilicornis* Cam.). Morley, *Fauna Brit. India, Hymen.*, 3: 520, (1913).¹

¹ Range. Sikkim.

pilicornus Cameron

Ednisa pilicornus Cameron, *Tijds. Ent.*, 112, (1907), ♀. Morley, *Fauna Brit. India, Hymen.*, 3: 521, (1913). ♀.¹

¹ Sikkim.

Pseudochorus Rao

Pseudochorus Rao, *Indian For. Rec.* New series, 8 (8): 195, (1953), (Type of genus: *Pseudochorus kuriani* Rao).

kuriani Rao

Pseudochorus kuriani Rao, *Indian For. Rec.*, New series, 8 (8): 195, (1953). ♂, ♀.¹ ¹ Agra (U.P.).

Mesochorella Szepligeti

Mesochorella Szepligeti, *Genera Insect.*, fas. 114: 48, (1911), (Type of genus: *M. nigriceps* Brischke).

indica Rao

Mesochorella indica Rao, *Indian For. Rec.*, New series, 8 (8): 201, (1953). ♀.¹ ¹ Dehra Dun (U.P.).

PART II

Subfamily DIPLAZONINÆ

The Bassides have been given as tribe of Tryphoninæ by Morley (1913). It has now been raised to the subfamily Diplazoninæ in accordance with the recent trends in the taxonomic work of this family. No work has been done in India on the subfamily Diplazoninæ. They have common host relationship namely Sphryphidæ and not Tenthredinidæ which is mostly attacked by the members of the subfamily Tryphoninæ. They oviposit into the egg or young larva or the host and emerge from puparium. The adults have the head broader than deep, clypeus separated, mandibles, which have the superior tooth divided or notched at the tip, so that in appearance there are 3 teeth to each mandible, antennæ filiform composed of from 20 to 25 joints, normal scutellum and metathorax in part Carinated. The peculiar conformation of the strongly deplanate and sessile basal segment is also distinctive.

Systematically Arranged Catalogue of Indian Species

Subfamily DIPLAZONINÆ

Diplazoninæ Townes, *Mem. Amer. ent. Soc.*, 11 (2): 553, (1945). Muesebeck, Krombein, Townes and others, *U.S. Dep. Agric. Monograph*, 2: 349, (1951).

Diplazon Nees

Bassus of authors and not of the type of genus.
Diplazon Nees, *Acta Acad. Nat. Nov.*, 9: 202,

(1818), (Type of genus: *Ichneumon lætatorius* Fabricius). Townes, *Mem. Amer. ent. Soc.*, 11 (2): 553, (1945). Muesebeck, Krombein, Townes and others, *U.S. Dep. Agric. Monograph*, 2: 348, (1951).

clotho (Morley), n. Comb.

Bassus clotho Morley, *Fauna Brit. India, Hymen.*, 3: 281, (1913). ♂, ♀.¹

¹ Kashmir, 6000-7000 ft.; Bengal: Pusa; Central Provinces: Nagpur, Bombay: Surat and Poona.

lætatorius (Fabricius) n. Comb

Ichneumon lætatorius Fabricius, *spec. Ins.*, 1: 424, (1781); *Mant. Ins.*, 1: 262, (1787); *Piez.*, 63, (1804). Panzer, *Faun. Germ.*, 19: 19. Villers, *C. Linnæi Entom.*, 3: 150, n. 46, (1789). Gmelin, *Linne: Syst. Nat. Ed.*, 13^a, 1 (5): 2682, n. 99, (1790). Rossi, *Mant. Insect.*, 116, n. 254, (1792). Olivier, *Encycl. Method. Insect.*, 7: 220, n. 83, (1792). Cederhjelm, *Faun. Ingric Prodr.*, 158, n. 487, (1798). Schrank, *Fauna Boica II*, 2: 287, n. 2097, (1802). Schnokenstein, *Verz. d. Halbkofer*, etc., 25, n. 68, (1802). Latreille, *Hist. Nat. Insect.*, 13: 185, n. 21, (1805). Lamarck, *Hist. Nat. aim.*, 8 vert., 4: 116, (1807). ♀. Thanberg, *Bull. Acad. Sc. st. Peterburg*, 7: 277, (1822); *Mem. Acad. Sc. st. Peterburg*, 9: 353, (1824). Trentopol, *Isis*, 298, n. 64, (1826). ♀. V. D. Hoven, *Bijdr. natuurk wet.*, 1: 439, n. 12, (1826). Morley, *Fauna Brit. India, Hymen.*, 3: 276, (1913). Townes, *Mem. Amer. ent. Soc.*, 11 (2): 553, (1945).

Ichneumon dichrous Schrank, *Ent. Insect. Austr.*, 352, n. 710, (1781). ♂. Gmelin, *Linne. Syst. Nat. Ed.* 13^a, 1 (5): 2683, n. 110, (1790).

Bassus lætatorius Panzer, *Krit. Revis.*, 2: 74, (1806). Gravenhorst, *Ichn. Eur.*, 3: 353, (1829). Zetterstedt, *Ins. Lapp.*, 377. Ratzeburg, *Ichn. d. Forst.*, 2: 109. Blanchard, *Hist. nat. Insect.*, 3: 321, 461, (1840). Westwood, *Introd. mad. classif. Insect. II* Synops., 59, (1840). Holmgren, *Svenska. Vet. Akad. Handl.*, pl. 9, fig. 24, 353, (1855). Vallenhoven, *Pinac.*, pl. 1, fig. 1. Thomson, *Opusc. ent.*, 14: 1470 (!), Fyles, *Ann. Rpt. Ent. Soc. Ent.*, 25: 54, (1894). Davis, *Trans. Amer. Ent. Soc.*, 22: 19, (1895). Bridwell, *Trans. Kans. Acad. Sci.*, 16: 204, (1899). Ashmead, *Ann. Rpt. N.Z. Bd. Agr.* 27 Suppl., 579, (1900). Johnson, *Canad. Ent.*, 32: 59, (1900). (!) Viereck, *Trans. Kans. Acad. Sci.*, 17: 292, (1905); *Ann. Rpt. N.J. Mus.*, for 1909, 1910, p. 622. Nason, *Ent. News*, 17: 169, (1905). Morley, *Trans. Ent. Soc.*, 425, (1905). ♂, ♀; *Fauna Brit. India, Hymen.*, 3: 276, (1913);¹ *Rev. Ichn. Brit. Mus.*, 3: 125, (1914). (!) Tucker, *Trans. Kans. Acad. Sci.*, 22: 291, (1909). Roman, *Ent. Tidjskr.*, 31: 149, (1910).

Cryptus lætatorius Lamarck, *Hist. Nat. aim. S. vert.*, 4: 116, (1807). ♀.

Anomalon lætatorius Jurine, *Nouv. Meth.*, 116, (1807). ♀. Morley, *Fauna Brit. India, Hymen.*, 3: 276, (1913). (!) Washburn, *Ann. Rpt. state Ent. Minn.* 17: 172, (1918). Townes, *Mem. Amer. ent. Soc.*, 11 (2): 554, (1945).

Anomalon attractus Say, *Boston Jour. Nat., Hist.*, 1: 241, (1836). Townes, *Mem. Amer. ent. Soc.*, 11 (2): 553, (1945).

Bassus albovarius Wolloston, *Ann. Nat. Hist.*, 1: 23, (1858). ♂. Morley, *Fauna Brit. India, Hymen.*, 3: 277, (1913).

Bassus sycophanta Cresson, *Trans. Amer. Ent. Soc.*, 2: 112, (1868). ♂, ♀; *Trans. Amer. Ent. Soc.*, 4:

¹ Baluchistan:

Quetta; Kashmir;
Punjab: Gojra,

Ferozepur; Raj-
putana. Cosmopo-
litan.

- 167, (1872); Walsh, *Trans. Acad. Sci. St. Louis*, 3: 86, (1873). ♀. Provancher, *Nat. Canad.*, 6: 31, 56, (1874); *Nat. Canad.*, 11: 276, (1879); *Nat. Canad.*, 16: 24, (1887). Ashmead, *Bull. Colo. Biol. Ass.*, 1: 44, (1890). Cook, *Ann. Rpt. Mich. Agr. Exp. Sta.*, 4: 132, (1891). Riley and Howard, *Insect Life*, 3: 450, (1891). Bidwell, *Trans. Kans. Acad. Sci.*, 16: 204, (1899). Townes, *Mem. Amer. ent. Soc.*, 11 (2): 554, (1945).
- Bassus tripicticus* Walsh, *Trans. Acad. Sci. St. Louis*, 3: 85, (1873). ♂, ♀. Morley, *Fauna Brit. India, Hymen.*, 13: 277, (1913). Fyles, *Ann. Rpt. Ent. Soc. Ont.*, 46: 57, (1916). Townes, *Mem. Amer. ent. Soc.*, 11 (2): 554, (1945).
- Scolobates varipes* Smith, *Trans. Ent. Soc., Lond.*, 3, (1878). Morley, *Fauna Brit. India, Hymen.*, 3: 277, (1913).
- Bassus ventulus* Saussure, *Grandidier, Hist. Madagascar Hym.*, pl. 15, fig. 23, ♂. Morley, *Fauna Brit. India, Hymen.*, 3: 277, (1913).
- Diplazon lætatorius* Kelley, *Jour. Econ. Ent.*, 7: 294-97, (1914). McGregor and McDonough, *Bull. U.S. Dep. Agric.*, 416: 53, (1917). Viereck, *Bull. Cann. Geol. Nat. Hist. Surz.*, 22: 303, (1917). ♀. Hauser, Guyton and Lowry, *Bull. Ohio Agr. Exp. Sta.*, 317: 80, (1917). (1) Davidson, *Canad. Ent.*, 51: 236, (1919). Cushman and Gahan, *Proc. Ent. Soc. Wash.*, 23: 154, (1921). Campbell and Davidson, *Bull. So. Calif. Acad. Sci.*, 23: 9, (1924). Kamal, *Jour. Econ. Ent.*, 19: 724, 727, (1926). Bradley, *Bull. Lloyd. libr.*, 27: 170, (1926). Cushman, *Proc. Ent. Soc. Wash.*, 28: 44, (1926); *Mem. Cornell Univ. Agr. Exp. Sta.*, 101: 249, (1928). Johnson, *Biol. Surv. Mt. Desert Region*, 1: 136, (1927); *Pub. Nantucket Maria Mitchell Ass.*,

2 (3): 103, (1930). Criddle, *Ann. Rpt. Ent. Soc. Ont.*, 58: 102, (1928). Poos, *Proc. Ent. Soc., Wash.*, 30: 150, (1928). Fluke, *Res. Bull. Wis. Agr. Exp. Sta.*, 193: 23, 42, (1929). Schopp, *Jour. Kans. Ent. Soc.*, 4: 35, (1931). Cole, *Jour. Econ. Ent.*, 26: 862, (1933). Heiss, *Ill. Bio. Monogr.*, 36 (1): 19, 99, 100, (1938). Brimley, *Insect. of N.C.*, 413, (1938). Telford, *Bull. Minn. Agr. Exp. Sta.*, 140: 10, (1939). Knowlton and Hormston, *Proc. Ut. Acad. Sci. Arts Letters*, 16: 61, (1939). Townes, *Mem. Amer. ent. Soc.*, 11 (2): 553, (1945). Muesebeck, Krombein, Townes and others, *U.S. Dep. Agric. Monograph.*, 2: 348, (1951).

Diplazon sycophanta Viereck, *Bull. Conn. Geol. Nat. Hist. Surv.*, 22: 303, (1917). ♂, ♀. Townes, *Mem. Amer. ent., Soc.*, 11 (2): 554, (1945).

multicolor (Gravenhorst), n. Comb.

Bassus multicolor Gravenhorst, *Ichn. Eur.*, 3: 352, (1829). ♀. Vollenhoven, *Pinac.*, pl. 1, fig. 4. ♂. Holmgren, *Svenska. Vet. Akad. Handl.*, 335, (1855). Brischke, *Schrift. Naturf. Ges. Danzig., N.F.*, 4 (3): 111, (1878). ♂. Jacob and Tosquinet, *Ann. Soc. Entom. Belgique*, 14: 119, (1890). Dalla Torre, *Cat. Hymen.*, 3: 248, (1901-02). Morley, *Trans. Ent. Soc. Lond.*, 425, (1905). ♂, ♀. *Fauna Brit. India, Hymen.*, 3: 279, (1913).¹

¹ Bengal: Patna and Pusa; Bombay. Europe.

Bassus deletus Thomson, *Opusc. ent.*, 14: 1471, (1890). ♂, ♀. Morley, *Fauna Brit. India, Hymen.*, 3: 279, (1913).

orientalis (Cameron), n. Comb.

Bassus orientalis Cameron, *Spol. Zeyl.*, 731, (1905). ♂. Morley, *Fauna Brit. India, Hymen.*, 3: 280, (1913). ♂.¹

¹ Assam: Shillong; Bengal: Bettia and

tricinctus (Gravenhorst), n. Comb.Katihor; Ceylon:
Peradeniya.

Bassus albosignatus var. 4. Gravenhorst, *Ichn. Eur.*, 3: 345, (1829). ♂. Morley, *Fauna Brit. India, Hymen.*, 3: 278, (1913).

Bassus tricinctus Gravenhorst, *Ichn. Eur.*, 3: 351, (1829). ♂. Dalla Torre, *Cat. Hymen.*, 3: 251, (1901-02). Morley, *Trans. Ent. Soc. Lond.*, 425, (1905). ♂. ♀; *Fauna Brit. India, Hymen.*, 3: 278, (1913).¹ cf. Brischke, *Schr. Nat. Ges. Danz.*, 111, (1878).

¹ Sikkim: Darjeeling;
Bengal: Kotihar;
Rajputana: Mt.
Abu. Palæarctic
Region.

Bassus flavolineatus Zetterstedt (nec Grav.), *Ins. Lapp.*, 1: 378, excl. ♀ et var. Morley, *Fauna Brit. India, Hymen.*, 3: 278, (1913).

Bassus nemoralis Holmgren, *Svenska. Vet. Akad. Handl.*, 354, (1855); Vollenhoven, *Pinac.*, pl. 1, fig. 3. Thomson, *Opusc. ent.*, 14: 1469, ♂, ♀. Morley, *Fauna Brit. India, Hymen.*, 3: 278, (1913).

varicoxa (Thomson), n. Comb.

Bassus albosignatus var. 1. Gravenhorst, *Ichn. Eur.*, 3: 344, (1829). ♀. (?); Var. 3, Holmgren, *Svenska. Vet. Akad. Handl.*, 354, (1855). Morley, *Fauna Brit. India, Hymen.*, 3: 278, (1913).

Bassus varicoxa Thomson, *Opusc. ent.*, 14: 1640, (1890). Morley, *Fauna Brit. India, Hymen.*, 3: 278, (1913).

Syrphoctonus Forster

Syrphoctonus Forster, *Verh. Naturh. Ver. Preuss. Rheinl.*, 25: 162, (1868), (Type of genus: *Bassus biguttatus* Gravenhorst). Townes, *Mem. Amer. ent. Soc.*, 11 (2): 561, (1945). Muesebeck, Krombein, Townes and others, *U.S. Dep. Agric. Monograph*, 2: 350, (1951).

Homotropus Forster, *Verh. Naturh. Ver. Preuss. Rheinl.*, 162, (1868) (Part). Morley, *Fauna Brit. India, Hymen.*, 3: 282, (1913).

Homoporus Thomson, *Opusc. ent.*, 16: 1488, (1890). Preoccupied by Thomson, 1878. Townes, *Mem. Amer. ent. Soc.*, 11 (2): 561, (1945). Muesebeck, Krombein, Townes and others, *U.S. Dep. Agric. Monograph*, 2: 350, (1951).

Homocidus Horley, *Ichn. Brit.*, 4: 87, (1911); *Fauna Brit. India, Hymen.*, 3: 282, (1913).¹ New name for *Homoporus* Thomson. Townes, *Mem. Amer. ent. Soc.*, 11 (2): 561, (1945). Muesebeck, Krombein, Townes and others, *U.S. Dep. Agric. Monograph*, 2: 350 (1951).

¹ Range. Palæarctic and Nearctic Regions.

cinctus (Gravenhorst), n. Comb.

Bassus cinctus Gravenhorst, *Ichn. Eur.*, 3: 327, (1829). Holmgren, *Svenska. Vet. Akad. Handl.*, 356, (1855). Vollenhoven, *Pinac.*, pl. 1, fig. 6, ♂; *Tijds. Ent.*, 162, (1878). ♀. Morley, *Trans. Ent. Soc. Lond.*, 426, (1905). ♂. ♀; *Fauna Brit. India, Hymen.*, 3: 283, (1913).¹

¹ Sikkim: Darjeeling. Europe.

Bassus lateralis Gravenhorst, *Ichn. Eur.*, 3: 342, (1829). ♂. Holmgren, *Svenska. Vet. Akad. Handl.*, 355, (1855) Vollenhoven, *Pinac.*, pl. 1, fig. 5, ♂, ♀. Morley, *Fauna Brit. India, Hymen.*, 3: 283, (1913).

Bassus albicinctus Desvignes, *Trans. Ent. Soc. Lond.*, 218, (1862). ♂. Morley, *Fauna Brit. India, Hymen.*, 3: 283, (1913).

Bassus hyperboreus Marshall, *Ent. Month. Mag.*, 13: 241, (1877). ♂. Morley, *Fauna Brit. India, Hymen.*, 3: 283, (1913).

Homoporus lateralis Thomson, *Opusc. ent.*, 14: 1492, (1890). ♂, ♀. Morley, *Fauna Brit. India, Hymen.*, 3: 283, (1913).

Homoporus cinctus Morley, *Trans. Ent. Soc. Lond.*, 426, (1905), ♂, ♀. *Fauna Brit. India, Hymen.*, 3: 283, (1913).

dimidiatus (Schrank), n. Comb.

Ichneumon dimidiatus Schrank, *Fauna Boica*, 2: 293, Gravenhorst, *Ichn. Eur.*, 3: 950, (1829).
♂. Morley, *Fauna Brit. India, Hymen.*, 3: 296, (1913).

Bassus pictus Gravenhorst, *Ichn. Eur.*, 3: 336, ♂, ♀. Holmgren, *Svenska. Vet. Akad. Handl.*, 361, (1855). ♀. Morley, *Fauna Brit. India, Hymen.*, 3: 286, (1913).

Bassus planus Desvignes, *Trans. Ent. Soc. Lond.*, 220, (1862). ♂, ♀. Morley, *Fauna Brit. India, Hymen.*, 3: 286, (1913).

Homoporus pictus Thomson, *Opusc. ent.*, 14: 1511, (1890): Morley, *Fauna Brit. India, Hymen.*, 3: 286, (1913).

Homoporus dimidiatus Morley, *Trans. Ent. Soc. Lond.*, 428, (1905). ♂, ♀.; *Fauna Brit. India, Hymen.*, 3: 286, (1913).

Homocidus dimidiatus Morley, *Fauna Brit. India, Hymen.*, 3: 286, (1913).¹

¹ Sikkim: Darjeeling.
Europe.

ornatus (Gravenhorst), n. Comb.

Bassus deplanatus Gravenhorst, *Ichn. Eur.*, 3: 340, (1829). (excl. ♂). Morley, *Fauna Brit. India, Hymen.*, 3: 285, (1913).

Bassus ornatus Gravenhorst, *Ichn. Eur.*, 3: 341, (1829). Brischke, *Schr. Nat. Ges. Danz.*, 113, (1878). ♂. Morley, *Fauna Brit. India, Hymen.*, 3: 285, (1913).

Bassus frenator Desvignes, *Trans. Ent. Soc., Lond.*, 218, (1862). ♂. Morley, *Fauna Brit. India, Hymen.*, 3: 285, (1913).

Homoporus ornatus Thomson, *Opusc. ent.*, 14: 1505, (1890). Morley, *Trans. Ent. Soc., Lond.*, 427, (1905). ♂, ♀. *Fauna Brit. India, Hymen.*, 3: 285, (1913).

Var. *Bassus deplanatus* Holmgren, *Svenska. Vet. Akad. Handl.*, 362, (1855). Morley, *Fauna Brit. India, Hymen.*, 3: 285, (1913).

Homocidus ornatus Morley, *Fauna Brit. India, Hymen.*, 3: 285, (1913).¹

¹ Punjab: Kangra Valley.

Tarsatorius (Panzer), n. Comb.

Bassus tarsatorius Panzer, *Faun. Germ.*, 9: 102, (1805). Gravenhorst, *Ichn. Eur.*, 3: 293, (1829). Morley, *Fauna Brit. India, Hymen.*, 3: 283, (1913).

Bassus exultous Gravenhorst, *Ichn. Eur.*, 3: 328, (1829). ♂. Ratzeburg, *Ichn. d. Forst.*, 1: 122. Holmgren, *Svenska. Vet. Akad. Handl.*, 359, (1855). ♂. ♀. excl. var. 1. Morley, *Fauna Brit. India, Hymen.*, 3: 283, (1913).

Bassus insignis Gravenhorst, *Ichn. Eur.*, 3: 349, (1913). Holmgren, *Svenska. Vet. Akad. Handl.*, 360, (1855). Brischke, *Schr. Nat. Ges. Danz.*, 112, (1878). ♀. Morley, *Fauna Brit. India, Hymen.*, 3: 284, (1913).

Bassus pulchellus Desvignes (nec. Holmg.), *Trans. Ent. Soc. Lond.*, 221, (1862). ♂. Morley, *Fauna Brit. India, Hymen.*, 3: 284, (1913).

Bassus desvignesii Marshall, *Cat. Brit. Hymen.*, 82, (1872). Morley, *Fauna Brit. India, Hymen.*, 3: 284, (1913).

Homoporus tarsatorius Thomson, *Opusc. ent.*, 14: 1503, (1890). Morley, *Trans. Ent. Soc. Lond.*, 427, (1905). ♂, ♀.; *Fauna Brit. India, Hymen.*, 3: 284, (1913).

Morley, *Fauna Brit. India, Hymen.*, 3: 288, (1913).

Bassus festivus Vars. 2 et 3. Gravenhorst, *Ichn. Eur.*, 3: 316, (1829). ♂, ♀. Morley, *Fauna Brit. India, Hymen.*, 3: 288, (1913).

Bassus pulchellus Holmgren (nec. Desv.), *Svenska. Vet. Akad. Handl.*, 366, (1955). ♂, ♀. Brischke, *Schr. Nat. Ges. Danz.*, 113, (1878). Morley, *Fauna Brit. India, Hymen.*, 3: 288, (1913).

Promethus pulchellus Thomson, *Opusc. ent.*, 14: 1483, (1890). Morley, *Trans. Ent. Soc., Lond.*, 429, (1905). ♂, ♀; *Fauna Brit. India, Hymen.*, 3: 288, (1913).¹

¹ Punjab: Simla.

Sussaba bicarinata Cameron, *Jour. Bombay Nat. Hist. Soc.*, 728, (1909). ♀. Morley, *Fauna Brit. India, Hymen.*, 3: 288, (1913).

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