Notes on the Sepsidae (Diptera) from India, with description of a new species^{1)–3)}

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Abstract: Nineteen species belonging to seven genera of Sepsidae are recorded from India. Of them, *Meroplius maximus* n. sp. is described and *Meroplius elephantis* Iwasa, *Perochaeta hennigi* Ozerov and *Dicronosepsis prominula* Iwasa are newly recorded from India.

Key words: Diptera, Sepsidae, new species, new records, India.

INTRODUCTION

The Sepsidae of the Southwest Asia has been reported from India (Brunetti, 1909; Duda, 1926; Zuska, 1974, 1977; Iwasa, 1982; Iwasa and Tewari, 1990), Nepal (Zuska, 1968; Iwasa, 1984, 1994), Pakistan (Iwasa, 1989), Bangladesh (Iwasa *et al.*, 1991) and Sri Lanka (Ozerov, 1992; Iwasa and Jayasekera, 1994). Up to the present, 7 genera and 20 species have been known from India, however the knowledge is insufficient.

In the course of the dipterous survey in Indian subcontinent in 1987 and 1993, we got some new materials of the Indian species of Sepsidae. In the present paper, we describe a new species and record 18 species including 3 newly recorded species.

Saltella setigera Brunetti, 1909

Saltella setigera Brunetti, 1909, Rec. Ind. Mus., 3: 368.

Specimens examined. 1♂, Allahabad, Uttar Pradesh, 3–4 Sept. 1987, R. R. Tewari; 3♀, Jabalpur to Piparia, Madhya Pradesh, 13–14 Sept. 1987, M. Iwasa.

Distribution. India, Nepal and Bangladesh.

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***Toxopoda contracta* (Walker, 1853)**

Calobata? contracta Walker, 1853, Ins. Saundersiana, 4: 395.

Toxopoda contracta: Vanschuytbroeck, 1962, Inst. r. Sci. nat. Belg. Bull., 38: 6.

Specimens examined. 1♂, Bangriposhi (200–380 m), Orissa, 24 Sept. 1993, M. Iwasa; 2♂, Amarkantak, Jabalpur, Madhya Pradesh, 8 Sept. 1987, M. Iwasa.

Distribution. Pakistan, India, Bangladesh and Sri Lanka.

***Meroplius beckeri* (De Meijere, 1906)**

Sepsis beckeri De Meijere, 1906, Annl. Mus. natn. hung., 4: 185.

Meroplius beckeri: Duda, 1926, Annl. naturhist. Mus. Wien, 40: 49.

Specimens examined. 5♂, Astrang, Orissa, 28 Sept. 1993, M. Iwasa.

Distribution. India (Bihar, Maharashtra and Orissa), Bangladesh and Nepal.

***Meroplius elephantis* Iwasa, 1994**

Meroplius elephantis Iwasa, 1994, Jpn. J. Ent., 62: 164.

Specimens examined. 12♂, Mudumalai National Park (900 m), Tamil Nadu, 4 Oct. 1994, M. Iwasa; 8♂, Nagarhole National Park (720 m), Karnataka, 10 Oct. 1993, M. Iwasa.

Distribution. Thailand and India (Tamil Nadu and Karnataka). New to India.

***Meroplius maximus* Iwasa, n. sp.**

(Figs. 1–4)

Male. *Head*: eyes brown; frons black and shining; face and gena dark brown; occiput black and subshining; antennal segments dark brown; arista black and bare; vibrissal angle with 1 developed seta; genal lower margin with 12–14 peristomal setae in a line; 1 *oc*, 1 *or* (small), 1 *vti*, 1 *vte*, 1 *pvt*.

Thorax: wholly black; mesonotum, humeral callus and propleuron subshining; mesopleuron and pteropleuron shining; sternopleuron anteriorly shining and posteriorly pruinose; hypopleuron, metapleuron and metanotum shining to subshining; 1 *h*, 1 *n*, 1 *sa*, 1 *pa*, 1 *m*, 1 *ap sc*; *b sc* absent.

Wings: hyaline, slightly tinged with brown; veins brown; humeral cell light brown; alula without a distinct postero-distal lobe and with microtrichia marginally; halteres yellow, darkened basally.

Legs: coxae and trochanters yellow; fore femur yellow with two stout ventral spines at distal one-third, distal one spatulate and inner one slender and pointed (Fig. 1); middle and hind femora yellow in basal half and dark brown in distal half; fore tibia yellow and ventrally with 1 moderate and 2 short setae at near basal one-third (Fig. 1); middle and hind tibiae dark brown; 1st and 2nd tarsal segments yellow and 3rd to 5th segments dark brown in fore and

Figs. 1–4. *Meroplus maximus* Iwasa, n. sp.—1, male fore femur and tibia, anterior view (left); 2, male 4th sternite; 3, male genitalia, lateral view (left); 4, ditto, posterior view. Scales: 0.25 mm.

middle legs; hind tarsi brown.

Abdomen: tergites black, shining and sparsely with short bristles; 2nd and 3rd sternites long, and 4th sternite triangular-shaped (Fig. 2); epandrium large and stout (Figs. 3–4); surstylus with stout projection anteriorly (Fig. 3).

Body length: ♂, 3–4 mm; wing length, 3 mm.

Female: Unknown.

Holotype ♂, Nagarahole National Park, Karnataka, India, 10 Oct. 1993, M. Iwasa (preserved in Obihiro University of Agriculture and Veterinary Medicine, Obihiro, Hokkaido, Japan). Paratypes: 8♂, same data as holotype; 3♂, Mudumalai National Park, Tamil Nadu, India, 4 Oct. 1994, M. Iwasa (a part of paratypes will be preserved in University of Allahabad,

India).

Distribution. India (Tamil Nadu).

Remarks. This species is closely related to *M. beckeri* (De Meijere) and *M. elephantis* Iwasa, but differs from them in the characteristics of male fore femur and surstylus.

***Meroplius fasciculatus* (Brunetti, 1909)**

Sepsis fasciculatus Brunetti, 1909, Rec. Ind. Mus., 3: 365.

Meroplius fasciculatus: Zuska, 1972, Acta ent. bohemoslov., 69: 64

Specimens examined. 1♂, Nandi Hills (1,490 m), Bangalore, Karnataka, 14 Oct. 1993, M. Iwasa; 1♂, Wynad National Park (720 m), Kerala, 11 Oct. 1993, M. Iwasa; 6♂, Amarkantak, Jabalpur, Madhya Pradesh, 9 Sept. 1987, M. Iwasa.

Distribution. Oriental Region and Japan.

***Perochaeta hennigi* Ozerov, 1992**

Perochaeta hennigi Ozerov, 1992, Bull. Moscow Soc. naturalists, Biol. ser., 97: 44.

Specimens examined. 6♂, Naduvattum (1,400 m), Tamil Nadu, India, 7 Oct. 1993, M. Iwasa; 10♂, Gudalur (1,200 m), Tamil Nadu, 7–8 Oct. 1993, M. Iwasa; 1♂, Dodabetta (2,590 m), Tamil Nadu, 8 Oct. 1993, M. Iwasa.

Distribution. Sri Lanka and India (Tamil Nadu). New to India.

***Sepsis albopunctata* Lamb, 1914**

Sepsis albopunctata Lamb, 1914, Trans. Linn. Soc. Lond., 2: 323.

Specimens examined. 3♂, Mudumalai National Park, Tamil Nadu, 4 Oct. 1993, M. Iwasa; 1♂, Gudalur (1,400 m), Tamil Nadu, 9 Oct. 1993, M. Iwasa; 1♂, Bangriposhi (380 m), Orissa, 25 Sep. 1993, M. Iwasa.

Distribution. Widely distributed in the Oriental, Afrotropical and Australasian Regions.

***Sepsis coprophila* de Meijere, 1906**

Sepsis coprophila de Meijere, 1906, Ann. Mus. natn. hung., 4: 176.

Specimens examined. 8♂, Nagarhole National Park, Karnataka, 10–11 Oct. 1993, M. Iwasa; 4♂, Mudumalai National Park, Tamil Nadu, 4 Oct. 1993, M. Iwasa; 1♂, Nandi Hills (1,490 m), Bangalore, Karnataka, 14 Oct. 1993, M. Iwasa.

Distribution. Widely distributed in the Oriental Region.

***Sepsis indica* Wiedemann, 1824**

Sepsis indica Wiedemann, 1824, Analecta Ent.: 57.

Specimens examined. 12♂, Dodabetta (2,590 m), Tamil Nadu, 8 Oct. 1993, M. Iwasa; 3♂, Ootakamund (1,900 m), Tamil Nadu, 9 Oct. 1993, M. Iwasa; 3♂, Gudalur (1,400 m),

Tamil Nadu, 9 Oct. 1993, M. Iwasa; 1♂, Mysore, Karnataka, 12 Oct. 1993, M. Iwasa; 1♂, Nandi Hills (1,490 m), Bangalore, Karnataka, 14 Oct. 1993, M. Iwasa.; 1♂, Joshipur (400 m), Orissa, 25 Sept. 1993, M. Iwasa.

Distribution. Oriental Region, Russia, South Korea and Japan.

***Sepsis lateralis* Wiedemann, 1830**

Sepsis lateralis Wiedemann, 1830, Auss. zweifl. Ins., 2: 468.

Specimens examined. 5♂, Coonoor (1,400 m), Tamil Nadu, 7 Oct. 1993, T. Hayashi; 1♂, Mysore, Karnataka, 12 Oct. 1993, M. Iwasa.

Distribution. Widely distributed in the Oriental and Afrotropical Regions, Mediterranean Subregion and New Guinea.

***Sepsis nitens* Wiedemann, 1824**

Sepsis nitens Wiedemann, 1824, Analecta Ent.: 58.

Specimens examined. 1♂, Astrang, Orissa, 28 Sept. 1993, M. Iwasa; 6♂, Bangriposhi (380 m), Orissa, 24 Sept. 1993, M. Iwasa; 4♂, Joshipur (400 m), Orissa, 25 Sept. 1993, M. Iwasa.

Distribution. Oriental and Australasian Regions.

***Sepsis thoracica* (Robineau-Desvoidy, 1830)**

Micropeza thoracica Robineau-Desvoidy, 1830, Essai Myodaires: 742.

Sepsis thoracica: Duda, 1926, Annl. naturhist. Mus. Wien, 40: 37.

Specimens examined. 5♂, Dodabetta (2,590 m), Tamil Nadu, 8 Oct. 1993, M. Iwasa; 1♂, Ootakamund (1,900 m), Tamil Nadu, 9 Oct. 1993, M. Iwasa; 1♂, 1♀, Gudalur (1,200 m), Tamil Nadu, 6 Oct. 1993, M. Iwasa; 3♂, Mudumalai National Park, Tamil Nadu, 3–4 Oct. 1993, M. Iwasa; 1♂, Nandi Hills (1,490 m), Bangalore, 14 Oct. 1993, M. Iwasa; 1♂, Mysore, Karnataka, 12 Oct. 1993, M. Iwasa.

Distribution. Widely distributed in the Oriental, Palaearctic and Afrotropical Regions.

***Sepsis suwai* Iwasa, 1982**

Sepsis suwai Iwasa, 1982, Kontyû, 50: 604.

Specimens examined. 28♂, 5♀, Dodabetta (2,590 m), Tamil Nadu, 8 Oct. 1993, M. Iwasa; 3♂, 5♀, Gudalur (1,200 m), Tamil Nadu, 6 Oct. 1993, M. Iwasa; 1♂, 1♀, Ootakamund (1,900 m), Tamil Nadu, 9 Oct. 1993, M. Iwasa.

Distribution. India (Tamil Nadu).

***Australosepsis frontalis* (Walker, 1860)**

Sepsis frontalis Walker, 1860, J. Proc. Linn. Lond., Zool., 4: 163.

Australosepsis frontalis: Zuska, 1968, Acta ent. bohemoslov., 65: 472.

Specimens examined. 4♂, Astrang, Orissa, 28 Sept. 1993, M. Iwasa; 1♂, Joshipur (400 m), Orissa, 25 Sept. 1993, M. Iwasa; 3♂, Gudalur (1,200 m), 6 Oct. 1993, M. Iwasa; 1♂, Mudumalai National Park, Tamil Nadu, 3 Oct. 1993, M. Iwasa.

Distribution. Widely distributed in the Oriental Region and New Caledonia.

***Australosepsis niveipennis* (Becker, 1903)**

Sepsis niveipennis Becker, 1903, Mitt. zool. Mus. Berl., 2: 143.

Australosepsis niveipennis: Hennig, 1941, Arb. morph. taxon. Ent. Berl., 8: 146.

Specimens examined. 1♂, Astrang, Orissa, 28 Sept. 1993, M. Iwasa; 1♂, Bangriposhi (380 m), Orissa, 25 Sept. 1993, M. Iwasa; 3♂, Gudalur (1,200–1,400 m), Tamil Nadu, 6–9 Oct. 1993, M. Iwasa.

Distribution. Widely distributed in the Oriental, Afrotropical and Australasian Regions.

***Dicranosepsis bicolor* (Wiedemann, 1830)**

Sepsis bicolor Wiedemann, 1830, Auss. zweifl. Insekt., 2: 468.

Dicranosepsis bicolor: Zuska, 1970, Acta ent. bohemoslov., 67: 50.

Specimens examined. 3♂, Bangriposhi (380 m), Orissa, 26 Sept. 1993, M. Iwasa; 1♂, Ghatgaon, Orissa, 27 Sept. 1993, M. Iwasa; 8♂, Bandipur (900–1,200 m), Karnataka, 5 Oct. 1993, M. Iwasa; 7♂, Nandi Hills (1,490 m), Bangalore, Karnataka, 14 Oct. 1993, M. Iwasa; 5♂, Gudalur (1,400 m), Tamil Nadu, 9 Oct. 1993, M. Iwasa; 2♂, Mudumalai National Park (900 m), Tamil Nadu, 4 Oct. 1993, M. Iwasa; 1♂, Wynad National Park (720 m), Kerala, 11 Oct. 1993, M. Iwasa.

Distribution. Widely distributed in the Oriental and Australasian Regions.

***Dicranosepsis distincta* Iwasa et Tewari, 1990**

Dicranosepsis distincta Iwasa et Tewari, 1990, Jpn. J. Ent., 58: 795.

Specimens examined. 4♂, 1♀, Bangriposhi (380 m), Orissa, 26 Sept. 1993, M. Iwasa; 1♂, Ghatgaon, Orissa, 27 Sept. 1993, M. Iwasa.

Distribution. India (Madhya Pradesh and Orissa).

***Dicranosepsis prominula* Iwasa, 1994**

Dicranosepsis prominula Iwasa, 1994, Jpn. J. sanit. Zool., 45: 59.

Specimens examined. 6♂, Bangriposhi (380 m), Orissa, 26 Sept. 1993, M. Iwasa; 6♂, Ghatgaon, Orissa, 27 Sept. 1993, M. Iwasa; 4♂, Mudumalai National Park (900 m), Tamil Nadu, 4 Oct. 1993, M. Iwasa.

Distribution. Sri Lanka and India (Orissa and Tamil Nadu). New to India.

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摘 要

インドのツヤホソバエ類および1新種の記載 (双翅目)

1987年と1993年に行われたインド亜大陸における双翅目昆虫の調査において採集されたインドのツヤホソバエ類を調べ、1新種 *Meroplius maximus* Iwasa, n. sp. を記載し、3新記録種 *Meroplius elephantis* Iwasa, *Perochaeta hennigi* Ozerov, *Dicranosepsis prominula* Iwasa を含む7属18種を記録した。新種の *Meroplius maximus* Iwasa, n. sp. は、*M. beckeri* (De Meijere) と *M. elephantis* Iwasa に類似しているが、雄の前脚腿節の棘や剛毛の形状および雄交尾器の surstylus の前方に突起を有することなどによりそれらと明確に区別できる。