

SARCOPHAGID FLIES (DIPTERA : SARCOPHAGIDAE) FROM ANDHRA PRADESH, INDIA

B. C. NANDI*

Department of Zoology, Krishnanagar Govt. College, Nadia, India.

INTRODUCTION

This paper deals with a collection of Sarcophagid flies, made by the author from Andhra Pradesh, under Collaborative Research Project and contractual Services in the Zoological Survey of India, Calcutta. A total of twelve species under five genera are dealt with. Distributional records and bionomics of the species are mentioned whenever these were not reported earlier.

SYSTEMATIC ACCOUNT

Subfamily SARCOPHAGINAE

Tribe SARCOPHAGINI

Subtribe PARAARCOPHAGINA

1. *Parasarcophaga (s.str.) albiceps* (Meigen)

1825. *Sarcophaga albiceps* Meigen, *System. Besch.*, 5 : 22.

1982. *Parasarcophaga (s.str.) albiceps* (Meigen) : Nandi, *Rec. zool. Surv. India*, 80 : 118.

Material : 5 ♂♂, Andhra Pradesh : Eturnagaram, 22.xii.1985; 3 ♂♂, Narsingapur, 22.xii.1985; 6 ♂♂, Nehru Zoological Park, 24.xii.1985; 3 ♂♂, Indira Park, 24.xii.1985; 5 ♂♂, Ananthagiri Hills, 300 m., 25.xii.1985; 1 ♂, Simachalam, 28.xii.1985; 2 ♂♂, Araku, 918 m., 30.xii.1985.

2. *Parasarcophaga (s.str.) knabi* (Parker)

1917 *Sarcophaga knabi* Parker, *Proc. U.S.natn. Mus.*, 54 : 96.

1982. *Parasarcophaga (s.str.) knabi* (Parker) : Nandi, *Rec. zool. Surv. India*, 80 : 118.

Material : 5 ♂♂, Andhra Pradesh : Eturnagaram, 22.xii.1985; 5 ♂♂, Narsingapur, 22.xii.1985; 5 ♂♂, Pakhal, 23.xii.1985; 2 ♂♂, Narsampet, 25.xii.1985; 2 ♂♂, Nehru Zoological Park, 24.xii.1985; 2 ♂♂, Indira Park, 24.xii.1985; 2 ♂♂, Ananthagiri Hills, 300 m., 25.xii.1985. 1 ♂, Vijayawada Municipal Park, 27.xii.1985; 1 ♂, Simachalam, 28.xii.1985; 3 ♂♂, Mangalagiri Temple area, 27.xii.1985; 3 ♂♂, Rajahmundry, 29.xii.1985; 6 ♂♂, Araku, 918 m., 30.xii.1985; 6 ♂♂, Simachalam Temple, 31.xii.1985.

*Present address : Deptt. of Zoology, Presidency College, Calcutta 700073.

3. *Parasacophaga (s.str.) hirtipes* (Wiedemann)

1830. *Sarcophaga hirtipes* Wiedemann, *Ausser. Zweifl. Ins.*, 2 : 661.

1979. *Parasarcophaga (s.str.) hirtipes* (Wiedemann) : Nandi, *Oriental Ins.*, 13(1-2) : 189.

Material : 1 ♂, Andhra Pradesh, Eturnagaram, 22.xii.1985. This species is recorded for the first time from Andhra Pradesh. It can be reared from human excreta. The author has collected the specimens from bush sweeping near human excreta.

4. *Parasarcophaga (s.str.) orchidea* (Böttcher)

1913. *Sarcophaga orchidea* Böttcher, *Ann. Hist. Mus. Nat. Hung.*, 11 : 375.

1982. *Parasarcophaga (s.str.) orchidea* (Böttcher) : Nandi, *Rec. zool. Surv. India*, 80 : 119.

Material : 8 ♂♂, Andhra Pradesh : Eturnagaram, 22.xii.1985; 6 ♂♂, Narsingapur, 22.xii.1985; 12 ♂♂, Pakhal, 23.xii.1985; 10 ♂♂, Narsampet, 23.xii.1985; 4 ♂♂, Nehru Zoological Park, 24.xii.1985; 2 ♂♂, Ananthagiri Hills, 300 m., 25.xii.1985; 6 ♂♂, Mangalagiri Temple area, 27.xii.1985; 1 ♂, Vijayawada Municipal Park, 27.xii.1985; 3 ♂♂, Simachalam Temple, 31.xii.1985; 11 ♂♂, Simachalam, 28.xii.1985; 4 ♂♂, Rajahmundry, 29.xii.1985; 2 ♂♂, Araku, 918 m., 30.xii.1985.

5. *Parasarcophaga (Liopygia) ruficornis* (Fabricius)

1794. *Musca ruficornis* Fabricius, *Ent. Syst.* 4 : 314.

1982. *Parasarcophaga (Liopygia) ruficornis* (Fabricius) : Nandi, *Rec. zool. Surv. India*, 80 : 119.

Material : 2 ♂♂, Andhra Pradesh : Eturnagaram, 22.xii.1985; 2 ♂♂, Narsingapur, 22.xii.1985; 2 ♂♂, Vijayawada Municipal Park, 27.xii.1985; 1 ♂, Simachalam, 28.xii.1985; 1 ♂, Araku, 918 m., 30.xii.1985.

6. *Parasarcophaga (Liosarcophaga) brevicornis* (Ho)

1934. *Sarcophaga brevicornis* HO, *Bull. Fan. meml. Inst. Biol.*, 5 : 23.

1982. *Parasarcophaga (Liosarcophaga) brevicornis* (HO) : Nandi, *Rec. zool. Surv. India*, 80 : 119.

Material : 2 ♂♂, Andhra Pradesh : Araku, 918 m., 30.xii.1985. This is the first record of this species from Andhra Pradesh.

7. *Parasarcophaga (Liosarcophaga) dux* (Thomson)

1868. *Sarcophaga dux* Thomson, *Kongl. Sven. Freg. Eugen. Resa.*, p. 543.

1982. *Parasarcophaga (Liosarcophaga) dux* (Thomson) : Nandi, *Rec. zool. Surv. India*, 80 : 119.

Material : 1 ♂, Andhra Pradesh : Vijayawada Municipal Park, 27.xii.1985; 1 ♂, Rajahmundry, 29.xii.1985.

It is recorded for the first time from Andhra Pradesh. This species can be reared from Oyster, *Achatina fulica*, dead beetle, decaying toad, dead snake and rotten meat of different animals.

Subtribe HARPAGOPHALLINA

8. *Iranihindia futilis* (Senior-White)

1924. *Sarcophaga futilis* Senior-White, *Rec. Indian Mus.*, 26(3) : 246.

1982. *Iranihindia futilis* (Senior-White) : Nandi, *Rec. zool. Surv. India*, 80 : 118.

Material : 1 ♂, Andhra Pradesh : Narsampet, 23.xii.1985.

This species is recorded for the first time from Andhra Pradesh. It is collected from flowering plants.

9. *Iranihindia martellata* (Senior-White)

1924. *Sarcophaga martellata* Senior-White. *Rec. Indian Mus.*, 26(3) : 247.

1979. *Iranihindia martellata* (Senior-White) : Nandi, *Oriental Ins.*, 13(1-2) : 202.

Material : 1 ♂, Andhra Pradesh : Mangalagiri, 27.xii.1985.

It is recorded for the first time from Andhra Pradesh and was collected from flowering plants.

Subtribe SARCOSOLOMONINA

10. *Sarcosolomonina (Parkerimyia) rohdendorfi* Nandi

1976. *Sarcosolomonina (Parkerimyia) rohdendorfi* Nandi, *Oriental Ins.*, 10(1) : 12.

Material : 1 ♂, Andhra Pradesh : Araku, 918 m., 30.xii.1985.

This species is recorded for the first time from Andhra Pradesh and was collected from flowering plants.

Subtribe SENIORWHITEINA

11. *Seniorwhitea krameri* (Böttcher)

1912. *Sarcophaga krameri* Böttcher, *Ent. Mitt.*, 1 : 166.

1982. *Seniorwhitea krameri* (Böttcher) : Nandi, *Rec. zool. Surv. India*, 79 : 460.

Material : 2 ♂ ♂, Andhra Pradesh : Mangalagiri, 27.xii.1985.

It is recorded for the first time from Andhra Pradesh.

Subtribe HARPAGOPHALLINA

12. *Thyrosocnema (Pseudothyrosocnema) indica* Shinonaga and Lopes

1924. *Sarcophaga caudagalli* Senior-White, *Rec. Indian Mus.*, 26(3) : 227.

1975. *Thyrosocnema (Pseudothyrosocnema) indica*, Shinonaga and Lopes, *Pacif. Ins.*, 16(4) : 459.

Material : 1 ♂, Andhra Pradesh : Araku, 918 m., 30.xii.1985.

This species is recorded for the first time from Andhra Pradesh and was collected from bush sweeping.

SUMMARY

Systematic account of twelve species of Sarcophagid flies from Andhra Pradesh is given. *Parasarcophaga* (s.str.) *hirtipes* (Wiedemann), *Parasarcophaga* (*Liosarcophaga*) *dux* (Thomson), *Parasarcophaga* (*Liosarcophaga*) *brevicornis* (Ho), *Iranihindia* *futilis* (Senior-White), *Iranihindia* *martellata* (Senior-White), *Sarcosolomon* (*Parkerimyia*) *rohdendorfi* Nandi, *Senior-whitea* *krameri* (Böettcher), and *Thyrsocnema* (*Pseudothyrsocnema*) *indica* Shinonaga and Lopes, are recorded for the first time from Andhra Pradesh.

ACKNOWLEDGEMENTS

The author is grateful to Dr. Subrata Dutta, Officer-in-Charge, Krishnanagar Govt. College, for laboratory facilities. The author is indebted to The Director, Zoological Survey of India, Calcutta, to permit to work on this group under Collaborative Research Project and Contractual Services in Zoological Survey of India and also for financial help and other facilities during the survey.

REFERENCES

- Böettcher, G. 1912. H. Sauter's, Formosa-Ausbeute, Genus *Sarcophaga*. *Ent. Mitt.*, 1 : 163-170.
- Böettcher, G. 1713. H. Sauter's, Formosa-Ausbeute, Einige neue *Sarcophaga*-Arten. *Ann. Hist. Mus. Nat. Hung.*, 11 : 374-381.
- Fabricius, J. C. 1794. *Entomologie Systematica*, Hafniae. 4 : 314-316.
- Ho, C. 1934. Four new species of the genus *Sarcophaga* from Peiping, China. *Bull. Fan. meml. Inst. Biol.*, 5 : 19-29.
- Meigen, J. W. 1818-1838. *Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten*, 7 fascicules.
- Nandi, B. C. 1976. Two new species of *Sarcosolomon* from India (Diptera; Sarcophagidae). *Oriental Ins.*, 10(1) : 11-17.
- Nandi, B. C. 1979. *Flesh flies (Diptera : Sarcophagidae) in the Agricultural Research Institute, New Delhi*. *Oriental Ins.* 13(1-2) : 201-217.
- Nandi, B. C. 1982. *Sarcophagid flies (Diptera : Sarcophagidae) from Sikkim, India*. *Rec. zool. Surv. India*, 79 : 457-461.

- Nandi, B. C. 1982. Sarcophagid flies (Diptera : Sarcophagidae) from Assam and Arunachal Pradesh, India. *Rec. Zool. Surv. India*, **80** : 117-126.
- Parker, R. R. 1917. New flies of the genus *Sarcophaga* from Guam and the Philippines. *Proc. U.S.natn. Mus.*, **54** : 89-97.
- Senior-White, R. 1924. A revision of the subfamily Sarcophaginae in the Oriental Region. *Rec. Indian Mus.*, **23**(3) : 193-283.
- Shinonaga, S. & Lopes, H. S. 1975. On the subgenus *Pseudothyrsocnema* Rohdendorf with descriptions of three new species (Diptera : Sarcophagidae). *Pacif. Ins.*, **16**(4) : 455-463.
- Thomson, C. G. 1868. Kongliza Svenska Fregatten Eugenie Resa Omkring Jorden, Vetenskapliga Jakttagelser, II, Zoologi I, Insekta Haft 12, Diptera, Stockholm, 1818 (1869-1870), illus.
- Wiedemann, C. R. 1828-1830. Aussereuropaische Zweiflügelige Insekten, also Fortsetzung des Meigenischen Werkes, Hamm, Schulz, 2 vol. t.I. 608 p.p. (1928); t.2, 684 p.p (1830), illuan.