

DIPTERA FROM NEFA AND ASSAM FOOT HILLS
PART III, SIANG FRONTIER DIVISION AND
NORTH LAKHIMPUR

By

A. N. T. JOSEPH AND P. PARUI

Zoological Survey of India, Calcutta

INTRODUCTION

This part deals with the Diptera material collected during third NEFA Survey by Dr. S. K. Tandon and Sri G. S. Arora, who surveyed Siang Frontier Division and North Lakhimpur from September to November, 1966. The distributional records are given only in cases where the species were not reported in 1968.

SYSTEMATIC ACCOUNT

Family TIPULIDAE

1. *Nephrotoma consimilis* (Brunetti)

1911. *Pachyrhina consimilis* Brunetti, *Rec. Indian Mus.*, 6: 268.
1912. *Pachyrhina consimilis* Brunetti: Brunetti, *Fauna Brit. India, Diptera, Nematocera*: 346.
1961. *Nephrotoma consimilis* (Brunetti): Alexander, *Rec. Indian Mus.*, 59: 21.

Material.—1 ex., NEFA, Siang Division, Bame Village, 600 m., 30.x.1966.

2. *Nephrotoma serricornis* (Brunetti)

1912. *Pachyrhina serricornis* Brunetti, *Fauna Brit. India, Diptera, Nematocera*: 341.
1961. *Nephrotoma serricornis* (Brunetti): Alexander, *Rec. Indian Mus.*, 59: 21.

Material.—1 ex., NEFA, Siang Division, Tappi, 600 m., 23.x.1966.

Remarks.—Recorded from Darjeeling, Siliguri and Kurseong, Darjeeling District; Pusa, Bihar; also from Gangtok, Sikkim.

3. *Dicranomyia saltans* (Doleschall)

1857. *Limnobia saltans* Doleschall, *Nat. Tijds. Ned. Ind.*, **14**: 390.
 1912. *Dicranomyia saltans* (Doleschall): Brunetti, *Fauna Brit. India, Diptera, Nematocera*: 373.

Material.—(I) 8 exs., Assam, N. Lakhimpur, Baliwari, 2.x.1966 and (II) 2 exs., NEFA, Siang Division, Tachidoni, 400 m., 24.x.1966.

Remarks.—Head blackish. Basal third of metatarsus black. Brunetti reported the species from Nedumangad, S. India; also known to occur in Java and Philippines.

4. *Hexatoma (Eriocera) gravelyi* (Brunetti)

1918. *Eriocera gravelyi* Brunetti, *Rec. Indian Mus.*, **15**: 337.
 1961. *Hexatoma (Eriocera) gravelyi* (Brunetti): Alexander, *Rec. Indian Mus.*, **59**: 29.

Material.—(I) 1 ex., NEFA, Siang Division, Megha Basti, 125 m., 8.x.1966 and (II) 2 exs., NEFA, Siang Division, Pading Village, 260 m., 11.x.1966.

Remarks.—Marginal cross vein with a small white spot. Recorded from Pashok, Darjeeling District; Tura, Assam.

5. *Eriocera nepalensis* (Westwood)

1835. *Caloptera nepalensis* Westwood, *Ann. Soc. Ent. France*, **4**: 681.
 1912. *Eriocera nepalensis* (Westwood): Brunetti, *Fauna Brit. India, Diptera, Nematocera*: 543.

Material.—3 exs., NEFA, Siang Division, Bame Village, 600 m., 30.x.1966.

Remarks.—Male hypopygium reddish-yellow.

6. *Gonomyia (Protogonomyia) nigripes* (Brunetti)

1912. *Mesocyphona nigripes* Brunetti, *Fauna Brit. India, Diptera, Nematocera*: 458.
 1961. *Gonomyia (Protogonomyia) nigripes* (Brunetti): Alexander, *Rec. Indian Mus.*, **59**: 31.

Material.—2 exs., NEFA, Siang Division, Lekhabali, 50 m., 7.x.1966.

Remarks.—Originally described from Darjeeling District.

7 *Conosia irrorata* (Wiedemann)

1828. *Limnobia irrorata* Wiedemann, *Ausser. Zweifl.*, **1**: 574.

1912. *Conosia irrorata* (Wiedemann): Brunetti, *Fauna Brit. India, Diptera, Nematocera*: 497.

Material.—1 ex., NEFA, Siang Division, Old Jining, 500 m., 20.x.1966.

Remarks.—Specimen damaged; antennae and legs missing. The range of distribution includes throughout the Orient; also occurring in China; Japan; Australia.

Family BIBIONIDAE

8. *Plecia fulvicollis* (Fabricius)

1805. *Hirtea fulvicollis* Fabricius, *Syst. Antl.*: 53.

1912. *Plecia fulvicollis* (Fabricius): Brunetti, *Fauna Brit. India, Diptera, Nematocera*: 163.

Material.—(I) 1 ex., Assam, N. Lakhimpur, Bhali Gaon, 2.x.1966; (II) 1 ex., Assam, N. Lakhimpur, Kashi Pather, 2.x.1966; (III) 20 exs., Assam, N. Lakhimpur, Officers Mess, 2.x.1966 and (IV) 5 exs., NEFA, Siang Division, Dali Camp, 300 m., 10—11.x.1966.

Remarks.—In some examples coxae and trochanters black. Recorded from numerous localities in India; also widely distributed throughout the Orient.

9. *Plecia tergorata* Rondani

1875. *Plecia tergorata* Rondani, *Ann. Mus. Civ. Genova*, 8: 462.

1912. *Plecia tergorata* Rondani: Brunetti, *Fauna Brit. India, Diptera, Nematocera*: 164.

Material.—(I) 1 ex., NEFA, Siang Division, Jeep Camp, 140 m., 6.x.1966 and (II) 6 exs., NEFA, Siang Division, Siji Village, 165 m., 8.x.1966.

Remarks.—Reported from Uttar Pradesh; W Bengal; Assam; S. India; also from Upper Burma; Borneo; Java.

Family MYCETOPHILIDAE

10. *Sciara rufithorax* Wulp

1881. *Sciara rufithorax* Wulp, *Dipt. Sumatra Exped.*: 6.

1912. *Sciara rufithorax* Wulp: Brunetti, *Fauna Brit. India, Diptera, Nematocera*: 128.

Material.—1 ex., NEFA, Siang Division, Tarak Village, New Jining, 200 m., 18.x.1966.

Remarks.—Specimen damaged. Recorded from W Bengal ; Assam ; S. India ; also from Ceylon ; Burma.

11. *Sciara rufoabdominalis* Brunetti

1912. *Sciara rufoabdominalis* Brunetti, *Fauna Brit. India, Diptera, Nematocera* : 129.

Material.—(I) 1 ex., NEFA, Siang Division, Dali Village, 200 m., 10.x.1966 and (II) 1 ex., NEFA, Siang Division, Dali Camp, 300 m., 11.x.1966.

Remarks.—Brunetti (l.c.) erected the species on one female from Manipur.

12. *Sciara indica* Walker

1856. *Sciara indica* Walker, *Ins. Saund., Dipt.*, pt. 5 : 419.

1912. *Sciara indica* Walker : Brunetti, *Fauna Brit. India, Diptera, Nematocera* : 130.

Material.—1 ex., NEFA, Siang Division, Basar Village, 550 m., 31.x.1966.

Remarks.—Brunetti (l.c.) redescribed the species on several females from Darjeeling, Kurseong and Siliguri, W Bengal ; Bhim Tal, Uttar Pradesh.

Family SIMULIIDAE

13. *Simulium indicum* Becher

1844. *Simulium indicum* Becher, *J. Asiat. Soc. Bengal*, 53 : 191, pl. 14.

1912. *Simulium indicum* Becher : Brunetti, *Fauna Brit. India, Diptera, Nematocera* : 191.

Material.—(I) 2 exs., NEFA, Siang Division, Tappi, 600 m., 23.x.1966 and (II) 3 exs., NEFA, Siang Division, Tachidoni, 400 m., 24.x.1966.

Family TABANIDAE

14. *Tabanus striatus* Fabricius

1794. *Tabanus striatus* Fabricius, *Ent. Syst.*, 4 : 371.

1911. *Tabanus striatus* Fabricius : Ricardo, *Rec. Indian Mus.*, 4 : 149.

Material.—(I) 1 ex., Assam, N. Lakhimpur, Bhal Gaon, 2.x.1966 and (II) 2 exs., Assam, N. Lakhimpur, Gila Gudi, 4.x.1966.

Remarks.—Distributed widely in India ; also recorded from Ceylon ; Burma ; Malaya ; Sumatra ; Philippines.

15. *Tabanus rubidus* Wiedemann

1821. *Tabanus rubidus* Wiedemann, *Dipt. Exot.*, 69: 14.

1911. *Tabanus rubidus* Wiedemann: Ricardo, *Rec. Indian Mus.*, 4: 155.

Material.—(I) 2 exs., Assam, N. Lakhimpur, Gila Gudi, 4.x.1966 and (II) 1 ex., NEFA, Siang Division, Kambang, 200 m., 15.x.1966.

Remarks.—Reported from Maharashtra ; Bihar ; W Bengal ; Assam ; also from Burma ; Java ; Malaya ; Sumatra ; Siam.

16. *Tabanus fuscomaculatus* Ricardo

1911. *Tabanus fuscomaculatus* Ricardo, *Rec. Indian Mus.*, 4: 183.

Material.—1 ex., NEFA, Siang Division, Dali Village, 200 m, 10.x.1966.

Remarks.—Originally described from Sima, Upper Burma ; and Sikkim.

17 *Corizoneura longirostris* Fabr subsp. *varipes* Ricardo

1911. *Corizoneura longirostris* Fabr. subsp. *varipes* Ricardo, *Rec. Indian Mus.*, 4: 367.

Material.—1 ex., NEFA, Siang Division, Dali Camp, 300 m., 12.x.1966.

Remarks.—Ricardo (l.c.) described the subspecies from Darjeeling, W Bengal ; Sadiya and Mergherita, Assam ; Himalaya ; Trivandrum, S. India ; also from Nepal and Sikkim.

18. *Chrysops designata* Ricardo

1911. *Chrysops designata* Ricardo, *Rec. Indian Mus.*, 4: 383.

Material.—(I) 2 exs., NEFA, Siang Division, Dali Camp, 300 m., 12.x.1966 ; (II) 1 ex., NEFA, Siang Division, Kambang, 200 m., 16.x.1966 and (III) 3 exs., NEFA, Siang Division, Lekhabali, 50 m., 2.xi.1966.

Family BOMBYLIIDAE

19. *Hyperalonia oenomaus* Rondani

1875. *Hyperalonia oenomaus* Rondani, *Ann. Mus. Gen.*, 7: 453.
 1920. *Hyperalonia oenomaus* Rondani: Brunetti, *Fauna Brit. India. Diptera, Brachycera*: 185.
Material.—1 ex., NEFA, Siang Division, Kambang, 200 m., 15.x.1966.

Family ASILIDAE

20. *Astochia maculipennis* (Walker)

1855. *Trupanea maculipennis* Walker, *List Diptera British Museum, London*, 7: suppl. 3: 605.
 1960. *Astochia maculipennis* (Walker); Ratan Lal, *Catalogue of Indian Insects, Part 29, Asilidae, Diptera*: 21.
Material.—(I) 1 ex., NEFA, Siang Division, Siji Village, 165 m., 8.x.1966 and (II) 1 ex., NEFA, Siang Division, Dali Camp, 300 m., 12.x.1966.
Remarks.—Blackish-brown stripes of mesonotum indistinct. Reported from Khasi Hills, Assam; also from Hongkong. A specimen from Darjeeling also present in ZSI collections.

21. *Heligmoneura gnava* (Wulp)

1872. *Mochtherus gnava* Wulp, *Tijdschr Ent.*, (2) 7: 243.
 1960. *Heligmoneura gnava* (Wulp): Ratan Lal, *Catalogue of Indian Insects, Part 29, Asilidae, Diptera*: 34.
Material.—1 ex., NEFA, Siang Division, Tachidoni, 400 m., 24.x.1966.
Remarks.—Male terminalia blackish. Recorded from Kumaon and Dehradun, Uttar Pradesh; also from Java, Sulawesi and Gilolo. Specimens from Sadiya and Mergherita, Assam also present in ZSI collections.

22. *Philodicus femoralis* Ricardo

1921. *Philodicus femoralis* Ricardo, *Ann. Mag. nat. Hist.*, (9) 8: 190.
 1960. *Philodicus femoralis* Ricardo: Ratan Lal, *Catalogue of Indian Insects, Part 29, Asilidae, Diptera*: 35.
Material.—1 ex., NEFA, Siang Division, Dulla Tappi, 500 m., 22.x.1966.

23. *Philodicus javanus* (Wiedermann)

1819. *Asilus javanus* Wiedermann, *Zool. Mag.*, 1 (3): 4.

1960. *Philodicus javanus* (Wiedermann). Ratan Lal, *Catalogue of Indian Insects*, Part 29, Asilidae, Diptera: 36.

Material.—1 ex., Assam, N Lakhimpur, Bhali Gaon, 2.x.1966.

Remarks.—Abdomen with black and white bristles at sides.

Reported from Madras, S. India; also from Ceylon; Sikkim; Banglades; Pakistan; Timor Islands; Borneo; Java; Sumatra. ZSI. Collections also contain specimens from Rajmahal, Bihar; Calcutta and Sukna, W. Bengal; Mazbat, Assam.

24. *Laphria (Pagidolaphria) alternans* Wiedermann

1828. *Laphria alternans* Wiedermann, *Aussereurop. Zweifl. Ins.*, 1: 511.

1960. *Laphria (Pagidolaphria) alternans* Wiedermann: Ratan Lal, *Catalogue of Indian Insects*, Part 29, Asilidae, Diptera: 63.

Material.—1 ex., NEFA, Siang Division, Rimi Bridge, 300 m., 11.x.1966.

Remarks.—Widely distributed in Oriental Region.

Family CONOPIDAE

25. *Physocephala bicolor* Brunetti

1923. *Physocephala bicolor* Brunetti, *Fauna Brit. India, Diptera*, 3: 357.

Material.—1 ex., NEFA, Siang Division, Kambang, 200 m., 16.x.1966.

Remarks.—Brunetti (l.c.) described the species from Darjeeling District; Khasi Hills; Kumaon District; also from Sikkim.

Family SYRPHIDAE

26. *Paragus indicus* (Brunetti)

1908. *Pipizella indica* Brunetti, *Rec. Indian Mus.*, 2: 52.

1923. *Paragus indicus* (Brunetti): Brunetti, *Fauna Brit. India, Diptera*, 3: 33.

Material.—1 ex., NEFA, Siang Division, Old Jining, 500 m., 20.x.1966.

27. *Paragus rufiventris* Brunetti

1913. *Paragus rufiventris* Brunetti, *Rec. Indian Mus.*, 8: 157.

1923. *Paragus rufiventris* Brunetti: Brunetti, *Fauna Brit. India, Diptera*, 3: 34.

Material.—1 ex., NEFA, Siang Division, Tarak Village, 200 m., 18.x.1966.

Remarks.—Hind tibia paler at middle. Recorded from Chapra, Bihar; Sadiya, Assam; Mangaldi, Assam-Bhutan Border; Dhikala, Garhwal District; Bijrani, Naini Tal District; Allahabad; Maddathorai; S. India; also from Pakistan; Ceylon.

28. *Melanostoma orientale* (Wiedemann)

1824. *Syrphus orientale* Wiedemann, *Analec. Ent.*: 36.

1923. *Melanostoma orientale* (Wiedemann): Brunetti, *Fauna Brit. India, Diptera*, 3: 48.

Material.—(I) 1 ex., NEFA, Siang Division, Kambang (around camp), 200 m., 16.x.1966 and (II) 2 exs., NEFA, Siang Division, Old Jining, 500 m., 20.x.1966.

29. *Asarcina ericetorum* (Fabricius)

1781. *Syrphus ericetorum* Fabricius, *Spec. Ins.*, 2: 425.

1923. *Asarcina ericetorum* (Fabricius): Brunetti, *Fauna Brit. India, Diptera*, 3: 63.

Material.—(I) 3 exs., NEFA, Siang Division, Dali Village, 200 m., 10.x.1966; (II) 1 ex., NEFA, Siang Division, Kambang, 200 m., 16.x.1966; (III) 2 exs., NEFA, Siang Division, Tappi, 600 m., 23.x.1966; (IV) 1 ex., NEFA, Siang Division, Tachidoni, 400 m., 24.x.1966 and (V) 1 ex., NEFA, Siang Division, Bame Village, 600 m., 30.x.1966.

30. *Asarcina aegrota* (Fabricius)

1805. *Eristalis aegrota* Fabricius, *Syst. Antl.*: 143.

1923. *Asarcina aegrota* (Fabricius): Brunetti, *Fauna Brit. India, Diptera*, 3: 64.

Material.—(I) 3 exs., NEFA, Siang Division, Dali Camp, 300 m., 12.x.1966; (II) 1 ex., NEFA, Siang Division, Kambang

(around camp), 200 m., 16.x.1966 ; (III) 2 exs., NEFA, Siang Division, Tappi, 600 m., 23.x.1966 ; (IV) 1 ex., NEFA, Siang Division, Tachidoni, 400 m., 24.x.1966 and (V) 2 exs., NEFA, Siang Division, Lekhabali, 50 m., 2.xi.1966.

31. *Syrphus serarius* Wiedemann

1830. *Syrphus serarius* Wiedemann, *Aussereurop. Zweifl. Ins.*, 2: 128.

1923. *Syrphus serarius* Wiedemann: Brunetti, *Fauna Brit. India, Diptera*, 3: 73.

Material.—(I) 1 ex., NEFA, Siang Division, Dali Village, 200 m., 10.x.1966 and (II) 1 ex., NEFA, Siang Division, Bame Village, 600 m., 30.x.1966.

32. *Syrphus balteatus* (De Geer)

1776. *Musca balteata* De Geer, *Mem. Insectes*, 6: 116.

1923. *Syrphus balteatus* (De Geer): Brunetti, *Fauna Brit. India, Diptera*, 3: 82.

Material.—(I) 1 ex., Assam, N. Lakhimpur, Bhali Gaon, 2.x.1966 ; (II) 1 ex., Assam, N. Lakhimpur, Kashi Pathar, 2.x.1966 ; (III) 3 exs., NEFA, Siang Division, Jeep Camp, 140 m., 6.x.1966 ; (IV) 1 ex., NEFA, Siang Division, Siji Village, 165 m., 8.x.1966 ; (V) 1 ex., NEFA, Siang Division, Dali Village, 200 m., 10.x.1966 ; (VI) 1 ex., NEFA, Siang Division, Sirum Bridge, 200 m., 14.x.1966 ; (VII) 15 exs., NEFA, Siang Division, Kambang, 200 m., 16.x.1966 ; (VIII) 11 exs., NEFA, Siang Division, Tarak Village, 200 m., 18.x.1966 ; (IX) 4 exs., NEFA, Siang Division, New Jining, 200 m., 19.x.1966 ; (X) 2 exs., NEFA, Siang Division, Old Jining, 500 m., 20.x.1966 ; (XI) 6 exs., NEFA, Siang Division, Dulla Tappi, 500 m., 22.x.1966 ; (XII) 8 exs., NEFA, Siang Division, Tappi, 600 m., 23.x.1966 ; (XIII) 5 exs., NEFA, Siang Division, Tachidoni, 400 m., 24.x.1966 ; (XIV) 3 exs., NEFA, Siang Division, Bame Village, 600 m., 30.x.1966 ; (XV) 10 exs., NEFA, Siang Division, Basar Village, 550 m., 31.x.1966 and (XVI) 5 exs., NEFA, Siang Division, Lekhabali, 50 m., 2.xi.1966.

Remarks.—Abdominal colouration extremely varying, so much so in a few examples the yellow marked with dark brown.

33. *Miogramma javana* (Wiedemann)

1824. *Syrphus javanus* Wiedemann, *Anal. Ent.*: 34.

1923. *Sphaerophoria javana* (Wiedemann): Brunetti, *Fauna Brit. India, Diptera*, **3**: 101.

1945. *Miogramma javana* (Wiedemann): Frey, *Notul. ent.*, **25**: 165.
Material.—(I) 1 ex., NEFA, Siang Division, Jeep Camp, 140 m., 6.x.1966; (II) 1 ex., NEFA, Siang Division, Megha Basti, 125 m., 8.x.1966; (III) 1 ex., NEFA, Siang Division, Siji Village, 165 m., 8.x.1966; (IV) 15 exs., NEFA, Siang Division, Dali Village, 200 m., 10.x.1966; (V) 3 exs., NEFA, Siang Division, Rimi Bridge, 300 m., 11.x.1966; (VI) 1 ex., NEFA, Siang Division, Sirum Bridge, 200 m., 14.x.1966; (VII) 1 ex., NEFA, Siang Division, Kambang, 200 m., 16.x.1966; (VIII) 1 ex., NEFA, Siang Division, Tarak Village, 200 m., 18.x.1966; (IX) 1 ex., NEFA, Siang Division, Tachidoni, 400 m., 24.x.1966 and (X) 5 exs., NEFA, Siang Division, Lekhobali, 50 m., 2.xi.1966.

Remarks.—In some examples hind tibia almost wholly dark brown. In a few cases, the yellow marking of second abdominal segment indistinct.

34. *Baccha maculata* Walker

1852. *Baccha maculata* Walker, *Ins. Saund., Diptera*, **3**: 223.

1923. *Baccha maculata* Walker: Brunetti, *Fauna Brit. India, Diptera*, **3**: 119.

Material.—1 ex., NEFA, Siang Division, Dulla Tappi, 500 m., 22.x.1966.

Remarks.—Recorded from Uttar Pradesh (several localities); Simla Hills, Himachal Pradesh; Darjeeling, Kurseong and Siliguri, W. Bengal; Shillong, Cherrapunji and Tura, Assam.

35. *Megaspis errans* (Fabricius)

1787. *Syrphus errans* Fabricius, *Mant. Ins.*, **2**: 337.

1923. *Megaspis errans* (Fabricius): Brunetti, *Fauna Brit. India, Diptera*, **3**: 199.

Material.—1 ex., NEFA, Siang Division, Lekhabali, 50 m., 2.xi.1966.

36. *Megaspis zonatus* (Fabricius)

1787. *Syrphus zonatus* Fabricius, *Mant. Ins.*, **2**: 337.

1923. *Megaspis zonatus* (Fabricius): Brunetti, *Fauna Brit. India, Diptera*, **3**: 203.

Material.—2 exs., NEFA, Siang Division, Kambang, 200 m., 16.x.1966.

Remarks.—More than half of arista plumose. Generally distributed throughout the East as far as Japan.

37 *Helophilus insignis* Walker

1856. *Helophilus insignis* Walker, *Proc. Linn. Soc. London*, 1: 17.

1923. *Helophilus insignis* Walker: Brunetti, *Fauna Brit. India*, Diptera, 3: 207.

Material.—1 ex., Assam, N Lakhimpur, Rangajan, 3.x.1966.

Remarks.—Reported from Calcutta to Assam; also from Burma; Borneo.

38. *Chrysotoxum baphyrus* Walker

1849. *Chrysotoxum baphyrus* Walker, *List. Dipt. Brit. Mus.*, 3: 542

1923. *Chrysotoxum baphyrus* Walker: Brunetti, *Fauna Brit. India*, Diptera, 3: 296.

Material.—1 ex., NEFA, Siang Division, Tarak Village, 200 m., 16.x.1966.

Remarks.—Fourth abdominal tergum blackish; fifth tergum black.

Family SEPSIDAE

39. *Sepsis dissimilis* Brunetti

1909. *Sepsis dissimilis* Brunetti, *Rec. Indian Mus.*, 3: 355.

Material.—(I) 1 ex., Assam, N. Lakhimpur, Bhali Gaon, 2.x.1966 and (II) 1 ex., NEFA, Siang Division, Tappi, 600 m., 23.x.1966.

Remarks.—Brunetti (l.c.) described the species from Rajmahal, Bihar; Garhwal District, Uttar Pradesh; Shasthancottah, S. India.

40. *Sepsis indica* Wiedemann

1830. *Sepsis indica* Wiedemann, *Aussereurop. Zweifl. Ins.*, 2: 467.

1909. *Sepsis indica* Wiedemann: Brunetti, *Rec. Indian Mus.*, 3: 357-359, pl. 13, figs. 9-13.

Material.—(I) 1 ex., Assam, N Lakhimpur, Bhali Gaon, 2.x.1966; (II) 2 exs., NEFA, Siang Division, Dali Village, 200 m., 10.x.1966; (III) 1 ex., NEFA, Siang Division, Dali

Camp, 300 m., 12.x.1966 ; (IV) 3 exs., NEFA, Siang Division, Kambang, 200 m., 15.x.1966 and (V) 1 ex., NEFA, Siang Division, Dulla Tappi, 500 m., 22.x.1966.

41. *Sepsis rufa* Macquart

1850. *Sepsis rufa* Macquart, *Dipt. Exot., Suppl.*, 4: 269.

1909. *Sepsis rufa* Macquart: Brunetti, *Rec. Indian Mus.*, 3: 359.

Material.—1 ex., NEFA, Siang Division, Kambang, 200 m., 15.x.1966.

42. *Sepsis adjuncta* Brunetti

1909. *Sepsis adjuncta* Brunetti, *Rec. Indian Mus.*, 3: 361.

Material.—(I) 1 ex., NEFA, Siang Division, Dali Camp, 300 m., 12.x.1966 and (II) 10 exs., NEFA, Siang Division, Kambang, 200 m., 15.x.1966.

Remarks.—Specimen bearing Reg. No. 4328/H6 with an additional small spine in the fore femur. Originally described from Pallode, S. India.

43. *Sepsis pubipes* Brunetti

1909. *Sepsis pubipes* Brunetti, *Rec. Indian Mus.*, 3: 365.

Material.—(I) 3 exs., NEFA, Siang Division, Dali Village, 200 m., 10.x.1966 ; (II) 5 exs., NEFA, Siang Division, Dali Camp, 300 m., 12.x.1966 ; (III) 6 exs., NEFA, Siang Division, Kambang, 200 m., 15.x.1966 ; (IV) 1 ex., NEFA, Siang Division, Tarak Village, 200 m., 18.x.1966 and (V) 1 ex., NEFA, Siang Division, Bame Village, 600 m., 30.x.1966.

Remarks.—In 12 specimens (Reg. No. 4322/H6 to 4333/H6), fore femur with five long spines in a row towards the tip.

New to India. Originally described from Thamaspur, Nepal ; and Shamdang, Sikkim.

44. *Sepsis viduata* Thomson

1868. *Sepsis viduata* Thomson, *Eugene Resa*: 587.

1909. *Sepsis viduata* Thomson: Brunetti, *Rec. Indian Mus.*, 3: 366.

Material.—(I) 1 ex., NEFA, Siang Division, Dali Camp, 300 m., 12.x.1966 ; (II) 1 ex., NEFA, Siang Division, Tarak Village, 200 m., 18.x.1966 and (III) 1 ex., NEFA, Siang Division, Bame Village, 600 m., 30.x.1966.

Remarks.—Abdominal whitish cross bands faint. Reported from Sukna, Berhampur and Calcutta, W Bengal; Margherita, Assam; Mussoorie, Uttar Pradesh; Maddathorai and Pallode, S. India; also from Burma; Java; Philippines; China.

Family TEPHRITIDAE

45. *Acidia fossata* (Fabricius)

1805. *Tephritis fossata* Fabricius, *Syst. Antl.*, 20: 320.

1913. *Acidia fossata* (Fabricius): Bezzi, *Mem. Indian Mus.*, 3: 144.

Material.—(I) 3 exs., NEFA, Siang Division, Dali Village, 200 m., 10.x.1966; (II) 1 ex., NEFA, Siang Division, Rimi Bridge, 300 m., 11.x.1966; (III) 4 exs., NEFA, Siang Division, Dali Camp, 300 m., 12.x.1966 and (IV) 1 ex., NEFA, Siang Division, Tappi, 600 m., 23.x.1966.

Remarks.—Widely distributed in the Oriental Region.

46. *Sphenisomyia sexmaculata* (Macquart)

1842. *Urophora sexmaculata* Macquart, *Mem. Soc. Lille*, 2: 379.

1913. *Sphenisomyia sexmaculata* (Macquart): Bezzi, *Mem. Indian Mus.*, 3: 148.

Material.—1 ex., NEFA, Siang Division, Basar Village, 550 m., 31.x.1966.

Remarks.—Recorded from Calcutta; Naini Tal, Uttar Pradesh; also from Bangladesh; Malaya; Sulawesi; Ceram; Philippines; Formosa; China; S. Africa.

Family DIOPSIDAE

47 *Teleopsis quadriguttata* (Walker)

1857. *Diopsis quadriguttata* Walker, *Journ. Proc. Linn. Soc.*, 1: 37.

1928. *Teleopsis quadriguttata* (Walker): Brunetti, *Ann. Mag. nat. Hist.*, (10) 2: 270.

Material.—2 exs., NEFA, Siang Division, Tappi, 600 m., 23.x.1966.

Remarks.—Originally described from Malacca; widely distributed in Oriental Region.

Family MUSCIDAE

48. *Musca (Musca) domestica* Linnaeus

1758. *Musca domestica* Linnaeus, *Syst. nat.*, 10: 596.

1965. *Musca (Musca) domestica* Linnaeus: Emden, *Fauna India, Diptera*, 7 (1): 54.
Material.—3 exs., NEFA, Siang Division, Dali Village, 200 m., 10.x.1966.

49. *Musca (Musca) domestica vicina* Macquart

1851. *Musca vicina* Macquart, *Mem. Soc. Agric. Arts Lille*, 1850: 226.
 1965. *Musca (Musca) domestica vicina* Macquart: Emden, *Fauna India, Diptera*, 7 (1): 55.
Material.—3 exs., NEFA, Siang Division, Dali Village, 200 m., 10.x.1966.

50. *Musca (Byomyia) ventrosa* Wiedemann

1830. *Musca ventrosa* Wiedemann, *Aussereurop. Zweifl. Ins.*, 2: 656.
 1965. *Musca (Byomyia) ventrosa* Wiedemann: Emden, *Fauna India, Diptera*, 7 (1): 60.
Material.—1 ex., NEFA, Siang Division, Tarak Village, New Jining, 200 m., 18.x.1966.

51. *Musca (Byomyia) sorbens* Wiedemann

1830. *Musca sorbens* Wiedemann, *Aussereurop. Zweifl. Ins.*, 2: 418.
 1965. *Musca (Byomyia) sorbens* Wiedemann: Emden, *Fauna India, Diptera*, 7 (1): 61.
Material.—(I) 1 ex., Assam, N. Lakhimpur, Kashi Pathar, 2.x.1966; (II) 4 exs., NEFA, Siang Division, Lekhabali, 50 m., 6.x.1966; (III) 1 ex., NEFA, Siang Division, Lekhabali, Bank of river, 50 m., 7.x.1966; (IV) 1 ex., NEFA, Siang Division, Dulla Tappi, 500 m., 22.x.1966; (V) 1 ex., NEFA, Siang Division, Bame Village, 600 m., 30.x.1966 and (VI) 1 ex., NEFA, Siang Division, Basar Village, 550 m., 31.x.1966.

52. *Musca (Philaematomyia) crassirostris* Stein

1903. *Musca crassirostris* Stein, *Mitt. Zool. Mus. Berlin*, 2: 99.
 1965. *Musca (Philaematomyia) crassirostris* Stein: Emden, *Fauna India, Diptera*, 7(1): 71.
Material.—(I) 2 exs., Assam, N. Lakhimpur, Bhali Gaon, 2.x.1966; (II) 1 ex., Assam, N. Lakhimpur, Kashi Pathar, 2.x.1966; (III) 2 exs., NEFA, Siang Division, Megha Basti, 125 m., 8.x.1966; (IV) 1 ex., NEFA, Siang Division, Siji Village, 165 m., 8.x.1966; (V) 1 ex., NEFA, Siang Division,

Sirum Bridge, 200 m., 14.x.1966 ; (VI) 1 ex., NEFA, *Siang Division, Tarak Village, New Jining*, 200 m., 18.x.1966 and (VII) 2 exs., NEFA, *Siang Division, Basar Village*, 550 m., 31.x.1966.

53. *Musca (Ptilolepis) inferior* Stein

1909. *Musca inferior* Stein, *Tijdschr. Ent.*, 52: 213.

1965. *Musca (Ptilolepis) inferior* Stein: Emden, *Fauna India, Diptera*, 7 (1): 89.

Material.—1 ex., NEFA, *Siang Division, Dali Village*, 200 m., 10.x.1966.

Remarks.—A blood sucking species attacking cattle and horses. Reported from W Bengal (several localities) ; Assam ; Palni Hills and Nilgiri Hills, S. India ; Andaman Islands ; also from Burma ; Malaya ; Indonesia ; Philippines ; Formosa ; S. China.

54. *Orthellia coerulea* (Wiedemann)

1819. *Musca coerulea* Wiedemann, *Zool. Mag.*, 3: 23.

1965. *Orthellia coerulea* (Wiedemann): Emden, *Fauna India, Diptera*, 7 (1): 124.

Material.—(I) 1 ex., NEFA, *Siang Division, Megha Basti*, 125 m., 8.x.1966 ; (II) 1 ex., NEFA, *Siang Division, Siji Village*, 165 m., 8.x.1966 ; (III) 2 exs., NEFA, *Siang Division, Dali Village*, 200 m., 10.x.1966 ; (IV) 2 exs., NEFA, *Siang Division, Sirum Bridge*, 200 m., 14.x.1966 ; (V) 2 exs., NEFA, *Siang Division, Kambang*, 200 m., 15.x.1966 ; (VI) 1 ex., NEFA, *Siang Division, Kambang, around camp*, 200 m., 16.x.1966 ; (VII) 11 exs., NEFA, *Siang Division, Tarak Village*, 200 m., 18.x.1966 ; (VIII) 2 exs., NEFA, *Siang Division, New Jining* (along road), 200 m., 19.x.1966 ; (IX) 17 exs., NEFA, *Siang Division, Dulla Tappi*, 500 m., 22.x.1966 ; (X) 10 exs., NEFA, *Siang Division, Tappi*, 600 m., 23.x.1966 ; (XI) 6 exs., NEFA, *Siang Division, Tachidoni*, 400 m., 24.x.1966 ; (XII) 11 exs., NEFA, *Siang Division, Bame Village*, 600 m., 30.x.1966 and (XIII) 21 exs., NEFA, *Siang Division, Basar Village*, 550 m., 31.x.1966.

Remarks.—A specimen (Reg. No. 4362/H6) with 3 *prst dc* on the left side. Another specimen bearing Reg. No. 4363/H6 with 2 anterior mesopleurals on the right side. The inner facets of compound eyes in males exhibit variation in size as reported in Part II of the series.

55. *Orthellia indica* (Robineau-Desvoidy)

1830. *Lucilia indica* Robineau-Desvoidy, *Myodaires*: 453.

1965. *Orthellia indica* (Robineau-Desvoidy): Emden, *Fauna India*, *Diptera*, 7(1): 126.

Material.—(I) 1 ex., Assam, N. Lakhimpur, Bhali Gaon, 2.x.1966 and (II) 1 ex., Assam, N. Lakhimpur, Kashi Pathar, 2.x.1966.

56. *Orthellia coeruleifrons* (Macquart)

1851. *Lucilia coeruleifrons* Macquart, *Dipt. Exot. Suppl.*, 4: 248.

1965. *Orthellia coeruleifrons* (Macquart): Emden, *Fauna India*, *Diptera*, 7(1): 127.

Material.—(I) 1 ex., NEFA, Siang Division, Jeep Camp, 140 m., 6.x.1966 and (II) 2 exs., NEFA, Siang Division, Tachidoni, 400 m., 24.x.1966.

57. *Orthellia claripennis* Malloch

1923. *Orthellia claripennis* Malloch, *Ann. Mag. nat. Hist.*, (9) 12: 515.

1965. *Orthellia claripennis* Malloch: Emden, *Fauna India*, *Diptera*, 7(1): 130.

Material.—(I) 1 ex., NEFA, Siang Division, Dulla Tappi, 500 m., 22.x.1966; (II) 3 exs., NEFA, Siang Division, Tappi, 600 m., 23.x.1966; (III) 1 ex., NEFA, Siang Division, Tachidoni, 400 m., 24.x.1966 and (IV) 1 ex., NEFA, Siang Division, Basar Village, 550 m., 31.x.1966.

58. *Orthellia chalybea faceta* (Enderlein)

1934. *Neomyia faceta* Enderlein, *Sitzber. Ges. naturf. Fr.*, 1934: 420.

1965. *Orthellia chalybea faceta* (Enderlein): Emden, *Fauna India*, *Diptera*, 7(1): 131.

Material.—(I) 1 ex., NEFA, Siang Division, Tappi, 600 m., 23.x.1966 and (II) 1 ex., NEFA, Siang Division, Bame Village, 600 m., 30.x.1966.

59. *Orthellia diffidens* Walker

1857. *Musca (Pyrellia) diffidens* Walker, *Journ. Proc. Linn. Soc.*, 1: 26.

1965. *Orthellia diffidens* (Walker): Emden, *Fauna India*, *Diptera*, 7(1): 132.

Material.—(I) 4 exs., NEFA, Siang Division, Dali Village,

200 m., 10.x.1966 ; (II) 1 ex., NEFA, Siang Division, Rimi Bridge, 300 m., 11.x.1966 ; (III) 4 exs., NEFA, Siang Division, Tappi, 600 m., 23.x.1966 and (IV) 1 ex., NEFA, Siang Division, Lekhabali, 50 m., 2.xi.1966.

Remarks.—Distributed in India ; Burma ; Malaya ; Java ; Sumatra ; Borneo ; Siam ; Sulawesi.

60. *Stomoxys calcitrans* (Linnaeus)

1758. *Conops calcitrans* Linnaeus, *Syst. Nat.*, 10: 604.

1965. *Stomoxys calcitrans* Linnaeus: Emden, *Fauna India, Diptera*, 7 (1): 160.

Material.—(I) 5 exs., Assam, N. Lakhimpur, Bhali Gaon, 2.x.1966 and (II) 1 ex., NEFA, Siang Division, Bame Village, 600 m., 20.x.1966.

Family CALLIPHORIDAE

61. *Chrysomya megacephala* (Fabricius)

1784. *Musca megacephala* Fabricius, *Syst. Ent.*, 4: 317.

1940. *Chrysomya megacephala* (Fabricius): Senior-White, Aubertin and Smart, *Fauna Brit. India, Diptera*, 6: 138.

Material.—(I) 3 exs., NEFA, Siang Division, Lekhabali (around camp), 50 m., 6.x.1966 ; (II) 2 exs., NEFA, Siang Division, Dulla Tappi, 500 m., 22.x.1966 ; (III) 1 ex., NEFA, Siang Division, Tachidoni, 400 m., 24.x.1966 and (IV) 1 ex., NEFA, Siang Division, Lekhabali, 50m., 2.xi.1966.

Family HIPPOBOSCIDAE

62. *Hippobosca longipennis* Fabricius

1805. *Hippobosca longipennis* Fabricius, *Syst. Antliat.*: 338.

1967. *Hippobosca longipennis* Fabricius: Maa, *Pacific Insects*, 9 (4): 743.

Material.—4 exs., Assam, N. Lakhimpur, Bhali Gaon, 2.x.1966.

Remarks.—A common parasite of dogs in Old World tropics and subtropics.

SUMMARY

Sixty two species of Diptera from NEFA and Assam are reported in this paper. Of these, one species, i.e. *Sepsis pubipes*

Brunetti (Family, Sepsidae), is recorded for the first time from India. The total number of examples studied are 430.

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