

Syrphid Flies (Diptera : Syrphidae) from Kathmandu Valley, Nepal with a Check List of Syrphids of Nepal

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Abstract

22 species of syrphid flies have been reported from various localities in Kathmandu Valley; of these 11 species are recorded for the first time from Nepal. A check list of 98 recorded syrphids from Nepal is provided.

The Syrphidae, hover flies or flower flies, are of some economic importance due to their role in bringing about pollination of cultivated plants and as predators of insect pests like aphids, etc. Besides, some are harmful (e.g. *Eumerus* spp.) in being pests of onions, etc. The family is presently known by about 5,000 species from the world. Brunetti (1923) was the first to publish a comprehensive work on the taxonomy of the syrphid flies of the Indian subcontinent in the Fauna of British India series. He included 248 species in all; of these only 21 species were from Nepal. Since then no revisionary studies on these flies were carried out either in India or in Nepal. Bhatia (1933) described *Syrphus isaaci* from Nepal and India. Coe (1964) was the first among the recent workers to study in detail the fauna of East Nepal and some parts of India. He described 51 species from East Nepal of which 8 species (*Syrphus pellucidipennis*, *S. albipilus*, *Ferdinandea longifacies*, *Volucella varipila*, *Pseudovolucella hingstoni*, *Eristalis brevifacies*, *Callicera nitens* and *C. sanguensis*) were new to science, in addition to many recorded for the first time from Nepal. Thompson (1965) described a new species, *Sphagina (Asiosphagina) hansonii* from Parewair in Nepal. Vockeroth (1971) added *Allograpta javana* (Wiedemann) to the syrphid fauna of Nepal. Lambeck and Klauta (1973) studied a small collection of these flies from Kathmandu and Khumbu Himal region in Nepal. They studied 16 species of which 5 including a new form of *Melanostoma orientale* (Wiedemann) were new records from Nepal. Thompson (1974) described a new species *Spheginobaccha chillocotti* from Balaju (near Kathmandu) in Nepal.

Knutson et. al. (1975) published a catalogue of the Oriental Syrphidae. They listed only 79 species of syrphid flies from Nepal as compared to 266 species from India alone. They did not make any mention of 13 earlier reported species from Nepal. These 13 species have been added, together with the more distributional records, in the check-list

*Based on the part of dissertation, undertaken by the third author for the fulfillments of the requirements of the degree of science in zoology.

given in the end. 145 specimens were collected from various localities in Kathmandu. These have been found to belong to 22 species of which eleven are recorded for the first time from Nepal. Thus, so far only 98 species (including 6 subspecies or varieties and the present 11 new records) are known from Nepal. This number is very small when compared to the Indian species and more than 770 species from the whole of the Oriental Region. There is thus a great need for extensive collections of Syrphidae in Nepal.

The 22 species* given in this paper are arranged in the following lines:

SUBFAMILY	SYRPHINAE
TRIBE	SYRPHINI

1. Allograpta maculipleura (Brunetti, 1913)

Syrphus maculipleura Brunetti, 1913, Rec. Indian Mus., 8:162.
Xanthogramma bouvieri Herve-Bazin, 1923, Bull. Soc. Ent. Fr., 1923:26.

Specimens examined: I ♂, on composite flowers, Horticultural Station, Kirtipur, 25. xi. 1978, Yeeta Rajbhandari.

This species is so far known from Rotung (Himachal Pradesh) in India and Laos.

It is recorded here for the first time from Nepal.

2. Citrogramma citrinum (Brunetti, 1923)

Xanthogramma citrinum Brunetti, 1923, Fn. Brit. India, Dipt. 3:95.
Specimens examined: I ♂, Kirtipur, on composite flowers, 17. vii. 1978, Yeeta Rajbhandari.

Brunetti described it from Mangaldai (Assam-Bhutan Frontier) in Assam, Darjeeling and Coorg in India.

It is reported here for the first time from Nepal.

3. Didea fasciata Macquart, 1834

Didea fasciata Macquart, 1834, Hist. Nat. Ins. Dipt., 1:508.
Specimens examined: I ♀, on clover plant, Chovar, 2. iv. 1978, Yeeta Rajbhandari.

This species ranges from central and South Europe to Japan and India.

It is reported here for the first time from Nepal.

* All the species are with the Zoological Instruction Committee, Tribhuvan University, Kirtipur.

4. Episyrphus balteatus (De Geer, 1776)

Musca balteata De Geer, 1776, Mem. Pour. Serv. Hist. Ins., 6:116.

M. nectareus Fabricius, 1787, Mantissa Inset., 2:341.

Syrphus pleuralis Thomson, 1869, in K. sevenska fregatten Eugenie resa, Zool., Dipt., p. 497.

S. triligatus Walker, 1857, J. Linn. Soc. Lond., 1:19.

Specimens examined: 12 ♂♂, 10 ♀♀, on various flowers, Kirtipur, 23. ii. 1978; 8 ♂♂, 12 ♀♀, Balaju, 11. iv. 1978, Yeeta Rajbhandari.

This species is very common in Kathmandu. It is distributed all over the Oriental Region, Australia, Bonin Islands and the Palaearctic Region. Coe (1964) also recorded it from East Nepal.

5. Metasyrphus (M.) confrater (Wiedemann, 1830)

Syrphus confrater Wiedemann, 1830, Auss. Zweifl. Insekt., 2:120.

S. cranapes Walker, 1852, Insecta Saund., 1:231.

S. mundus Walker, 1852, Ibid., 1:230.

S. trilimbatus Bigot, 1884, Annls. Soc. Ent. Fr., 4(6):86.

Specimens examined: 1 ♂, 1 ♀, on rose, Soyambhu, 15. iii. 1978, Yeeta Rajbhandari.

This species is well distributed in the whole of the Oriental Region. Coe (1964) reported it from various parts of East Nepal. It is also known from New Guinea, Japan and China.

6. M. (M.) corollae (Fabricius, 1794)

Scaeva corollae Fabricius, 1794, Ent. Syst., 4:306.

Specimens examined: 1 ♂, 1 ♀, on rose, Kirtipur, 14. iii. 1978, Yeeta Rajbhandari.

The species is known from India, China, Europe, Madeira, Canaries, North Africa and Asia to Japan.

It is reported here for the first time from Nepal.

7. Scaeva latimaculata (Brunetti, 1923)

Lasiotricus latimaculatus Brunetti, 1923, Fn. Brit. India, Dipt., 3:68.

Specimens examined: 2 ♂♂, on Fabaceae plant, Kirtipur, 29. iii. 1978, Yeeta Rajbhandari.

This species is so far known from India and Pakistan.

It is recorded here for the first time from Nepal.

8. Sphaerophoria indiana Bigot, 1884

Sphaerophoria indiana Bigot, 1884, Annls. Soc. Ent. Fr., 4:(6):99.
S. nigratarsis Brunetti, 1915, Rec. Indian Mus., 11:216.
Specimens examined: 15 ♂♂, 20 ♀♀, on various flowers, Kirtipur,
28. iv. 1978, Yeeta Rajbhandari.

This species is very common in India and Nepal. It is also found in Sri Lanka, Korea and Eastern USSR. Coe (1964) reported it from East Nepal.

9. S. viridaenea Brunetti, 1915

Sphaerophoria viridaenea Brunetti, 1915, Rec. Indian Mus., 11:216.
Specimens examined: 2 ♂♂, 2 ♀♀, on clover and Fabaceae plants,
21. ii. 1978, Yeeta Rajbhandari.

This species is abundant in Darjeeling, Kurseong and Simla in India.

It is reported here for the first time from Nepal.

10. Syrphus aenifrons Brunetti, 1913

Syrphus aenifrons Brunetti, 1913, Rec. Indian Mus., 8:159.
Specimens examined: 2 ♂♂, on Juniperus and Fabaceae plants,
Kirtipur, 15. iii. 1978, Yeeta Rajbhandari.

This species is known from Assam in India.

It is reported here for the first time from Nepal.

11. S. remotus Brunetti, 1923

Syrphus remotus Brunetti, 1923, Fn. Brit. India, Dipt. 3:78.
Specimens examined: 1 ♂, Kirtipur, on jasmine plant, 10. iv. 1978,
Yeeta Rajbhandari.

This species is known from Simla in India.

It is reported here for the first time from Nepal.

TRIBE MELANOSTOMATINI

12. Melanostoma orientale (Wiedemann, 1824)

Syrphus orientale Wiedemann, 1824, Anal. Ent., p. 36.
Specimens examined: 5 ♂♂, on Juniperus plants, Godavari, 10. iv.
1978, Yeeta Rajbhandari.

This species is distributed almost throughout the Oriental Region. Coe (1964) recorded it from East Nepal.

13. M. univittatum (Wiedemann, 1824)

Syrphus univittatum Wiedemann, 1824, Anal. Ent., p. 36.

S. cyathifer Walker, 1857, J. Linn. Soc. Lond., 1:125.

S. planifacies Macquart, 1848, Dipt. Exot. Suppl., 3:43.

Specimens examined: 4 ♂♂, Codavari, on clover plants, 4. iv. 1978;

3 ♂♂, Kirtipur on Fabaceae plants, 2. ii. 1978, Yeeta Rajbhandari.

It is widely distributed in the Oriental and Australian regions. Coe (1964) recorded it from East Nepal.

TRIBE PARAGINI

14. Paragus (Pandasyophthalmus) tibialis tibialis (Fallen, 1817)

Pipiza tibialis Fallen, 1817, Syrphici Svec., p. 60.

Pipizella indicus Brunetti, 1908, Rec. Indian Mus., 2:52.

Specimens examined: 2 ♂♂, on weeds, Kirtipur, 12.vii. 1978;

Yeeta Rajbhandari.

This species is widespread in the Oriental Region. Coe (1964) recorded it from East Nepal.

15. Paragus (P.) bicolor (Fabricius, 1794)

Syrphus bicolor Fabricius, 1794, Ent. Syst., 4:297.

Specimens examined: 3 ♂♂, composite flowers, Kirtipur, 10. iv. 1978, Yeeta Rajbhandari.

This species is distributed all over Europe. It is also known from Quetta in Pakistan.

It is recorded here for the first time from Nepal.

SUBFAMILY ERISTALINAE (= Milesiinae)
TRIBE EUMERINI

16. Psilota sp.

Specimens examined: 1 ♂, on Soyabean, Kirtipur, 10. ii. 1978, Yeeta Rajbhandari.

This is the first record of this genus from the whole of the Indian subcontinent.

TRIBE ERISTALINI

17. Eristalinus laetus (Wiedemann, 1830)

Eristalis laetus Wiedemann, 1830, Ausf. Zweifl. Insekt., 2:192.
E. pallinevris Macquart, 1842, Dipt. Exot., 2 (2):46.
E. obscuritarsis de Meijere, 1908, Tijdschr. Ent., 51:250.
Specimens examined: 1 ♂, 1 ♀, on composite flowers, Kirtipur,
2. vii. 1978, Yeeta Rajbhandari.

The species is widely distributed in the Orient.

18. E. quadristriatus (Macquart, 1846)

Eristalis quadristriatus Macquart, 1846, Dipt. Exot. Suppl., 1:217.
Specimens examined: 3 ♀♀, 5 ♂♂, on composite flowers, Kirtipur,
4. iii. 1978, Yeeta Rajbhandari.

It is Oriental and Palaearctic in distribution. Coe (1964) recorded it from East Nepal.

19. E. quinquestriatus (Fabricius, 1805)

Syrphus quinquestriatus Fabricius, 1794, Ent. Syst., 4:289.
Eristalis aesepeus Walker, 1849, List. Dipt. Colln. Br. Mus., 3:625.
Eristalomyia picta Bigot, 1880, Annl. Soc. Ent. Fr., 10(5):219.
Specimens examined: 3 ♀♀, on composite flowers, Soyambhu, 2. vii.
1978, Yeeta Rajbhandari.

The species is well distributed in Kathmandu, most other parts of the Oriental Region and Japan.

20. Eristalis (Eristalis) tenax (Linnaeus, 1758)

Musca tenax Linnaeus, 1758, Syst. Nat. Ed., 10:591.
Eristalis cognatus Wiedemann, 1824, Anal. Ent., p. 37.
E. sinensis Wiedemann, 1824, Anal. Ent., p. 37.
E. ventralis Thomson, 1869, in K. svenska fregatten Eugenie resa,
Zool., Dipt., p. 489.
Specimens examined: 3 ♀♀, 1 ♂, on composite flowers, Balaju,
14. iii. 1978, 2 ♀♀, 1 ♂, Kirtipur, 18. ii. 1978, Yeeta Rajbhandari.

It is almost cosmopolitan in distribution. Coe (1964) recorded it from East Nepal.

21. E. (Eoseristalis) cerealis Fabricius, 1805

Eristalis cerealis Fabricius, 1805, Syst. Antl., p. 232.
Eristalis solitus Walker, 1849, List. Dipt. Colln. Br. Mus., 3:610.

E. incisuralis Loew, 1858, Wien. Ent. Mschr., 2:108.

E. barbata Bigot, Annl. Soc. Ent. Fr., 10(5):214.

Specimens examined: 8 ♂♂, 5 ♀♀, on composite flowers, Godavari and Kirtipur, 4. ii. 1978, Yeeta Rajbhandari.

It is well distributed in the orient; China and Japan. Coe (1964) recorded it from East Nepal.

TRIBE MILESIINI

22. Milesia balteata Kertész, 1901

M. balteata Kertész, 1901, Term. Fuz., 24:414.

M. himalayensis Brunetti, 1908, Rec. Indian Mus., 2:82.

Specimens examined: 1 ♂, Kirtipur, on composite flowers, 22. x. 1977, V.C. Kapoor.

This species is known from India, Burma, Laos, Malaysia and Thailand.

It is reported here for the first time from Nepal.

Check-list of Syrphidae of Nepal

SUBFAMILY SYRPHINAE
TRIBE SYRPHINI

Genus Allograpta Osten Sacken, 1875.

(= Miogramma Frey, 1946; helenomyia Bankowska, 1962).

1. A. javana (Wiedemann): Vockeroth, 1971 -- Oriental including Nepal;
Melithreptus distinctus Kertész, 1899 -- Australia; Hawaii; Korea;
Japan; New Guinea.
- * 2. A. maculipleura (Brunetti, 1913) -- India; Nepal: Kirtipur;
Laos.

Genus Asarkina Macquart, 1842

(= Ancylosyrphus Bigot, 1882)

Subgenus Asarkina Macquart, 1842.

3. A. (A.) ericetorum (Fabricius, 1781) -- E. Nepal: Sangu (6200 ft);
Syrphus incisuralis Macquart, 1855 Ethiopian; Oriental;
Didea diaphana Doleschall, 1857 Australian; New Guinea.
D. macquarti Daleschall, 1857

Genus Betasyrphus Matsumura, 1917.

4. B. albipilus (Coe, 1965) -- E. Nepal: Arun Valley,
Tumlingtar plateau.

5. B. serarius (Wiedemann, 1830) -- E. Nepal: Sangu; S.E. Asia; Australia; Japan; Korea; New Guinea.
- Genus Citrogramma Vockeroth, 1969
- + 6. C. citrinum (Brunetti, 1923) -- India; Nepal: Kirtipur; Malaysia; Thailand; Sri Lanka.
- Genus Dasysyrphus Enderlein, 1938
7. D. brunetti (Herve-Bazin, 1924) -- E. Nepal: Sangu; India.
Syrphus albostrigatus Brunetti, 1923 not Fallen, 1817.
- Genus Didea Macquart, 1834
- + 8. Didea fasciata Macquart, 1834 -- Nepal: Chovar (Kathmandu); India; Formosa; Palaeartic.
- Genus Dideoides Brunetti, 1908
(= Dideodes Matsumura, 1917; Malayomyia Curran, 1928).
9. D. pellucidipennis (Coe, 1964) -- E. Nepal: above Sangu (9,200 ft.).
- Genus Dideopsis Matsumura, 1917
(= Aegrotomyia Frey, 1946).
10. D. aegrota (Fabricius, 1805) -- Nepal; S.E. Asia;
Syrphus fascipennis Macq., 1834 Australia; Moluccas;
Didea ellenriederi Doleschall, 1857 New Guinea.
Syrphus infirmus Rondani, 1875
- Genus Epistrophe Walker, 1852
Subgenus Epistrophe Walker, 1852.
11. E. (E.) aequalis (Walker, 1852) -- India; Nepal: Tengpoche Gonda (3,840 m) Kathmandu.
12. E. alternans (Macquart, 1842) -- Throughout Oriental region; Australia; Japan; Titet.
13. E. arcifer (Sack, 1927) -- Formosa; Malaysia; Nepal.
- Genus Episyrphus Matsumura and Adachi, 1917
14. E. balteatus (DeGeer, 1776) -- E. Nepal: Sangu; Oriental.
Musca nectareus Fab., 1787
Syrphus pleuralis Thomson, 1869
S. triligatus Walker, 1857.

15. E.b. var. Goe, 1964.

16. E. nectarinus (Wiedemann, 1830)

-- S.E. Asia to Japaj;
Australia; New Guinea.

Genus Eriozona Schiner, 1860

17. E. analis Kertész, 1901

-- India; Nepal.

Genus Ischiodon Sack, 1913

18. I. scutellaris (Fabricius, 1805)

-- E. Nepal: Dobhan (4000 ft);
S.E. Asia to Japan;
Australia; Hawaii;
Micronesia.

Syrphus coromandelensis Macq., 1842

S. splendens Doleschall, 1856

S. erythrogygus Bigot, 1884

Melithreptus novaeguineae Kertész, 1899

I. trochanterica Sack, 1913

I. platychiroides Frey, 1946

Epistrophe magnicornis Shiraki, 1963.

Genus Meliscaeva Frey, 1946

19. M. cinctella (Zetterstedt, 1843)

-- E. Nepal: Sangu (6,200 ft),
East of Kathmandu: Dudh
Kosi Tal (10,350 ft); Sri
Lanka; Formosa; Palaearctic.

Genus Metasyrphus Matsumura, 1917

Subgenus Metasyrphus Matsumura, 1917

20. M. (M.) confrater (Wiedemann, 1830)

-- E. Nepal: above Sangu
(7,000 ft), South of
Kathmandu: Rapti Tal,
Hetora (9,900 ft);
Oriental.

Syrphus cranapes Walker, 1852

S. mundus Walker, 1852

S. trilimbatus Bigot, 1884

+21. M. (M.) corollae (Fabricius, 1974)

-- India; China; Europe;
Madeira; Canaries;
N. Africa; Asia to Japan;
N. America; Nepal.

Genus Scaeva Fabricius, 1805

(= Lasiopticus Rondani, 1845; Catabomba Osten Sacken, 1877)

+22. S. latimaculata (Brunetti, 1923)

-- Nepal: Kirtipur; India;
Pakistan.

Genus Sphaerophoria Lepeletier and Serville, 1828

23. S. bengalensis Macquart, 1842

-- Nepal: Chauni (1,400 m),
Tribhuvan (1,400 m); India;
Pakistan; Iran.

S. flavoabdominalis Brunetti, 1915

24. S. indiana Bigot, 1884 -- E. Nepal: Sangu, Arun Valley; Tumlingtar plateau; India; Sri Lanka; China; Korea; Eastern USSR.
S. nigratarsis Brunetti, 1915
25. S. macrogaster (Thomson, 1869) -- India; Nepal; Sri Lanka; China; Australia; Japan; Korea; Manchuria; New Caledonia; New Guinea; Eastern USSR.
S. koreana Bankowska, 1964
26. S. scripta (Linnaeus, 1758) -- India; Nepal; Palaearctic.
S. brunetti Joseph, 1968
- + 27. S. viridaenea Brunetti, 1915 -- India; Nepal: Chovar (Kathmandu).

Genus Syrphus Fabricius, 1775

28. S. torvus (Osten Sacken, 1875) -- E. Nepal: Sangu; India; Thailand; Formosa; Holarctic.

Genus Syrphus Fabricius, 1775 (Unplaced species of the genus)

- + 29. S. aenifrons (Brunetti, 1913) -- India; Nepal: Kirtipur.
30. S. fulvifacies Brunetti, 1913 -- E. Nepal: Sangu; India; Java; Nepal: Balaju; India.
- + 31. S. remotus (Brunetti, 1923)
32. S. nitens Zetterstedt Var., Coe, 1964 -- E. Nepal: Sangu (6200 ft).
33. S. isaaci Bhattia, 1933 -- India; Nepal.

TRIBE BACCHINI

Genus Baccha Fabricius, 1805
 Subgenus Allobaccha Curran, 1928

34. B. (A.) nublipennis Austen, 1893 -- India; Nepal; Sri Lanka; Formosa; Japan.
35. B. (A.) triangulifera Austen, 1893 India; Nepal; Sri Lanka.
- Subgenus Baccha Fabricius, 1805
36. B. (B.) maculata Walker, 1852 -- E. Nepal: Sangu (6200 ft);
B. tinctipennis Brunetti, 1907 India; Barneo; Formosa;
B. austeni de Meijere, 1908 Java; Malaysia;

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B. tenera de Meijere, 1908

Phillipines; Sumatra,

B. eronis Curran, 1928

Japan.

37. B. (B.) sp. near maculata Walker: -- E. Nepal: Sangu (6200 ft).
Coe, 1964

TRIBE MELANOSTOMATINI

Genus Melanostoma Schiner, 1860

38. M. orientale (Wiedemann, 1824) -- E. Nepal: Sangu (6200 ft),
Dobhan; Oriental.
39. M.o. formmelanoides Lambeck and
Kiauta, 1973 -- E. Nepal; Oriental.
40. M. scalare (Fabricius, 1974) -- Throughout Oriental
M. ceylonense de Meijere, 1911 region; New Guinea;
Palaeartic.
41. M. univittatum (Wiedemann, 1824) -- E. Nepal: Arun Valley,
Syrphus cyathifer Walker, 1857 below Tumlingtar, River
S. planifacies Macq., 1848 Sabhaya (1800 ft); S.E.
Asia; Japan; Fiji; New
Caledonia; Samoa;
Australian region.

Genus Platycheirus Lepeletier and Serville, 1828

42. P. albimanus (Fabricius, 1781) -- E. Nepal: Khumbu, Thang-
poche (13000 ft); India;
Phillipines; Holarctic.
43. P. himalayensis Brunetti, 1915 -- E. Nepal: Khumbu, Thang-
poche (13000 ft); India.

TRIBE CHRYSOTOXINI

Genus Chrysotoxum Meigen, 1800

(= Antiopa Meigen, 1800)

- +44. C. baphyrus Walker, 1849 -- E. Nepal: Arun Valley,
C. indicum Walker, 1852 Tumlingtar plateau
C. sexfasciatum Brunetti, 1907 (2000 ft); India; Sri
C. citronellum Brunetti, 1908 Lanka; Vietnam; Java;
C. mundulum Herve-Bazin, 1923 Laos; Indochina.

TRIBE PARAGINI

Genus Paragus Latreille, 1804

Subgenus Pandasyophthalmus Stuckenberg, 1954

45. P. (P.) bicolor (Fabricius, 1794) -- Nepal: Godavari; Pakistan; Europe.
46. P. (P.) crenulatus Thomson, 1869 -- E. Nepal: Arun Valley, Tumlingtar plateau; Oriental.
47. P. (P.) crenulatus Thomson (Darkform Coe, 1964) -- " " "
- * 48. P. (P.) serratus (Fabricius, 1805) -- India; Nepal: Chitlang; Burma; East Indies: Africa.
49. P. (P.) yerburiensis Stuckenberg, 1954 -- E. Nepal: Arun Valley, Tumlingtar plateau; India; Sri Lanka.
50. P. (P.) tibialis rufiventris Brunetti, 1913 -- E. Nepal: Sangu (6200 ft), Dobhan; India; Sri Lanka; Pakistan.
51. P. (P.) t. tibialis (Fallen, 1817) -- E. Nepal: Sangu; Cosmopolitan.

TRIBE CHEILOSINI

Genus Cheilosia Meigen, 1822

52. C. nigroaenea Brunetti, 1915 -- E. Nepal: Khumbu, Khimdzung (12700 ft) Dudh Kosi Tal (10300 ft); India.

Genus Endoiasimya Bigot, 1882
(= Sonanomyia Shiraki, 1933)

53. E. indiana Bigot, 1882 -- India; Nepal.

Genus Ferdinandea Rondani, 1844

54. F. longifacies Coe, 1964 -- E. Nepal: above Sangu (9200 ft).

Genus Rhingia Scopoli, 1763

55. R. binotata Brunetti, 1908 -- E. Nepal: Sangu (6200 ft), Tamrang Bridge (5550 ft).
56. R. laticincta Brunetti, 1908 -- E. Nepal: above Sangu (18500 ft), below Sangu (6000 ft); India.

*Stuckenberg (1954) stated it to be a complex of many species.

TRIBE CALLICERINI

Genus Callicera Panzer, 1809

57. C. nitens Coe, 1964 -- E. Nepal: Talejung Dist., Sangu (9200 ft).
 58. C. sanguensis Coe, 1964 -- E. Nepal: Sangu (6200 ft).

TRIBE VOLUCCELLINI

Genus Graptomyza Wiedemann, 1820 (= Baryterocera Walker, 1857; Ptilostylomyia Bigot, 1882)

59. C. brevirostris Wiedemann, 1820 -- India; Nepal; Borneo; Burma; Sri Lanka; Java; Malaysia; Phillipines.

Genus Volucella Geoffroy, 1762

60. V. varipila Coe, 1964 -- E. Nepal: Khumbu, Khumdjung (12000 ft), India.

TRIBE CHRYSOGASTERINI

Genus Sphegina Meigen, 1822Subgenus Asiosphegina Stuckenberg, 1953

61. S. (A.) hansonii Thompson, 1964-65 -- Nepal: Parewavir (570 m).

TRIBE SPHEGINOBACCHINI

Genus Spheginobaccha de Meijere, 1908

62. S. chillocotti Thompson, 1974 -- Nepal: Kathmandu, Balaju (4500 ft).

TRIBE SERICOMYINI

Genus Pseudovolucella Shiraki, 1930

63. P. hingstoni Coe, 1964 -- E. Nepal: above Sangu (9200 ft); India.

TRIBE EUMERINI

Genus Eumerus Meigen, 1822 (= Citibaena Walker, 1857)

64. E. nepalensis Brunetti, 1908 -- Nepal: Chonebahl.

Genus Psilota⁺ Meigen, 1822

- ⁺65. P. sp. -- Nepal: Kirtipur.

TRIBE CERIODINI

Genus Ceriana Rafinesque, 1815
(= Tenthredomyia Shannon, 1925)

66. C. ornatifrons (Brunetti, 1915) -- Base of Nepal Himalayan:
Khumdhik; India.

Genus Monoceromyia Shannon, 1922

67. M. javana (wiedemann, 1824) -- India; Nepal; Borneo;
Java; Malaysia; Sumatra.

68. M. obscura (Brunetti, 1907) -- E. Nepal: Bi-Khola (7500-
8850 ft); India.

69. M. polistoides (Brunetti, 1923) -- India; Nepal.

TRIBE ERISTALINI

Genus Eristalinus Rondani, 1845
(= Lathyrophthalmus Mik, 1897)

70. E. arvorum (Fabricius, 1718) -- E. Nepal: Sangu (6200 ft),
Syrphus quadrilineatus F., 1787 Arun Valley: below Tumling-
Eristalis fulvipes Macquart, 1846 tar (1800 ft), South of
E. antidotus Walker, 1849 Kathmandu: Hetaura, Chauni;
E. anticetus Walker, 1849 Oriental; China; Japan;
Eristalomyia fo Bigot, 1880 Australia; Micronesia.
E. eunotata Bigot, 1891

71. E. laetus (Wiedemann, 1830) -- E. Nepal: Sangu (6200 ft);
Eristalis pallinevris Macquart, 1842 India; Java; Sumatra;
Phillippines; Sri Lanka;
China; Formosa; Malaysia;
Sumbawa.

72. E. quinquestriatus (Fab., 1974) -- Throughout Oriental; Japan.
Eristalis aesepeus Walker, 1849
Eristalomyia picta Bigot, 1880

73. E. quadristriatus (Macquart, 1846) -- E. Nepal: Sangu (6200 ft),
India; Sri Lanka; Formosa
Phillippines.

74. E. tarsalis (Macquart, 1855) -- E. Nepal: Sangu; India;
Eristalis ocularius Coquillett, 1898 China; Japan; Korea;
Formosa.

Subgenus Eristalodes Mik, 1897

75. E. (E.) paria (Bigot, 1880) -- E. Nepal: above Sangu
Eristalomya zebrina Bigot, 1880 (6500 ft), Kathmandu,
Eristalis kobusi de Meijere, 1908 Thodung; India; Java;
E. arisanus Matsumura, 1916 Laos; Malaysia; Japan;
E. quinquelineatus var. orientalis Formosa; Sri Lanka.
Brunetti, 1923

76. E. (E.) taeniops (Wiedemann, 1818) -- India; Nepal; Pakistan;
Africa; Canary Islands;
Palaeartic.

Subgenus Merodonoides Curran, 1931

77. E. (M.) multifarius (Walker, 1852) -- E. Nepal: Sangu (6500 ft),
Merodonoides circularia Curran, 1931 Dobhan (4000 ft); India;
M. minutus Hull, 1944 Sri Lanka; Malaysia;
M. czernyi Hull, 1944 Vietnam; Java.
Eristalis kandyensis Keiser, 1958

Genus Eristalis Latreille, 1804
(= Eristaloides Rondani, 1845;
Eristolomya or Eristolamyia
Rondani, 1857)Subgenus Eristalis Latreille, 1804

78. E. (E.) tenax (Linnaeus, 1758) -- Entire Oriental;
Eristalis cognatus Wiedemann, 1824 Cosmopolitan
E. sinensis Wiedemann, 1824
E. ventralis Thomson, 1869

Subgenus Eoseristalis Kanervo, 1938

79. E. (E.) brevifacies Coe, 1964 -- E. Nepal: between Sangu
and Tamrang (5200 ft);
India.
80. E. (E.) cerealis Fabricius, 1805 -- E. Nepal: Sangu, Arun
E. solitus Walker, 1849 Valley (Tumlingtar
E. incisuralis Loew, 1859 plateau); India; China;
E. barbata Bigot, 1880 Japan; Korea; Sakhalin;
throughout Oriental.
81. E. (E.) himalayensis Brunetti, 1908 -- India: Nepal; Burma;
E. ursinus Bigot, 1880 China.

82. E. (E.) intricarioides Brunetti, 1923 -- India: Sikkim; Nepal.
83. E. (E.) simplicipes Curran, 1928 -- Malaysia; E. Nepal:
above Sangu (6200 ft).

Genus Helophilus Meigen, 1822

84. H. aeneus Brunetti, 1907 -- Nepal: Sundarijal.
(= Eumerosyrphus Bigot, 1882)
85. M. bengalensis (Wiedemann, 1819) -- India; Nepal: Kathmandu;
Java; S.E. Asia to New
Guinea and Northern
Australia.
86. M. quadrivittatus (Wiedemann, 1819) -- Nepal: Chhauni, Taudaha,
Kathmandu; India; Malay-
sia; Moluccas (Aru).

Genus Phytomia Guerin-Meneville, 1834
(= Megaspis Macquart, 1842)

Subgenus Dolichomerus Macquart, 1850

87. P. (D.) crassa (Fabricius, 1787) -- India: Nepal: Chhauni
Syrphus megacephalus Fabricius, 1787 (1400 m); Sri Lanka;
Celebes; Laos; Malaysia;
Thailand.

Subgenus Phytomia Guerin-Meneville 1834

88. P. (P.) errans (Fabricius, 1787) -- E. Nepal: Sangu (6200 ft),
Eristalis varipes Macquart, 1842 Arun Valley: Tumlingtar;
E. amphicrates Walker, 1849 throughout S.E. Asia;
E. plistoanax Walker, 1849 China; Japan.
E. aryrus Walker, 1849
E. macquartii Doleschall, 1856
89. P. (P.) zonata (Fabricius, 1787) -- E. Nepal: Sangu (6200 ft),
Eristalis sinensis Gmelin, 1790 Dobhan; S.E. Asia; China;
E. lata Macquart, 1842 Japan; Korea.
E. andraemon Walker, 1849
E. datamus Walker, 1849
E. babyface Walker, 1849
E. exterus Walker, 1849
Megaspis cingulata Vollenhoven, 1863

Genus Pseuderistalis Shiraki, 1930

90. P. nigra (Wiedemann, 1824) -- Throughout S.E. Asia
Eristalis bomboides Walker, 1860 (Nepal?), Moluccas;
E. obscurata Walker, 1861 New Guinea.
E. tortuosa Walker, 1861

TRIBE MILESIINI

Genus Cheiroxylota Hull, 1949

91. C. dimidiata (Brunetti, 1923) -- Nepal: East of Kathmandu, Dudh Kosi Tal (9170 ft); India; Pakistan.

Genus Lycastris Walker, 1857
(= Xiphopheromyia Bigot, 1892)

92. L. flavohirta Brunetti, 1903 -- East Nepal: above Sangu (9200 ft); India.

Genus Milesia Latreille, 1804

- *93. M. balteata Kertész, 1901 -- Nepal: Sundarijal; India; Burma; Laos; Malaysia; Thailand.
94. M. brunettii Herve-Bazin, 1923 -- Nepal; Laos.

Genus Syritta Lepeletier and Serville, 1828

95. S. indica (Wiedemann, 1824) -- India; Formosa; Nepal.
S. rufifacies Bigot, 1883
S. femorata Sack, 1913
96. S. pipiens (Linnaeus, 1758) -- Nepal: Chhauni (1500 m), Kathmandu; India; Holarctic.

SUBFAMILY MICRODONTINAE

Genus Microdon Meigen, 1803Subgenus Microdon Meigen, 1803

97. M. annandalei Brunetti, 1908 -- E. Nepal: Sundarijal; India; Pakistan; Bangladesh.
98. M. bellus Brunetti, 1923 -- E. Nepal: above Sangu (6200 ft); India.

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