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A CHECKLIST OF HOVERFLIES (DIPTERA: SYRPHIDAE) IN THE WESTERN HIMALAYA, INDIA

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A checklist of hoverfly species recorded from Indian Western Himalaya is reported based on literature records. Altogether 55 genera and 169 valid species are currently known from the area. Synonyms, notes about type localities, depositories and distribution are included. The list, which provides a synthesis of the regional taxonomical work carried out until now, can serve as a baseline survey for future studies.

Key words: Diptera, Syrphidae, checklist, Himalaya, India.

INTRODUCTION

The hoverflies have a worldwide distribution, with almost 6,000 species described worldwide (MIRANDA *et al.* 2013, PAPE & EVENHUIS 2013). Hoverflies provide crucial ecosystem services as pollinators, biological control agents and in environmental assessment (KEVAN 1999, 2002, SSYMANK *et al.* 2008, MENGUAL & THOMPSON 2011). Hoverflies warrant attention not only because of their impressive diversity and economic importance, but also for their conspicuous habits and frequently eye-catching appearance (MIRANDA *et al.* 2013). However, hoverflies like most of the other organisms, especially in developing nations like ours, have faced the neglect in recent times. Since BRUNETTI'S (1923) fauna work, no thorough analysis has ever been undertaken. The intent of this paper is to facilitate future research of the Western Himalayan hoverfly fauna by providing the first comprehensively researched species inventory. The species list presented here includes the names of all hoverfly species recorded from the region that are available in the literature.

Species checklists are the foundation for biodiversity research. They serve to consolidate our level of understanding and at the same time reveal areas most in need of further investigation. Increasing environmental threats such as deforestation, mining, agriculture and the spread of invasive species give urgency to surveying these poorly sampled regions. In order to assess how these threats affect native biodiversity, it is important to establish baseline inventories before local populations and endemic species are driven extinct (BHARTI & WACHKOO 2013, SARNAT *et al.* 2013).

MATERIALS AND METHODS

Study area – Himalaya means “abode of snow”, in Sanskrit. It is a young mountain chain, forming an arc of over 2,500 km covering Afghanistan, Pakistan, India, Nepal, Bhutan and China. Depending upon the climatic conditions and geographical distribution, Himalaya is broadly divided into Western, Central and Eastern Himalaya. Western Himalayan region in India is represented by the states of Jammu and Kashmir in the west, Himachal Pradesh in the middle and Uttarakhand in the east. Western Himalaya represents a highly complex and diversified system both in terms of biological and physical attributes. Depending upon the physiographic conditions, the Western Himalaya is broadly divided into Shivalik Hills (foothills of Punjab, Haryana, Uttarakhand, Himachal Pradesh and Jammu and Kashmir), Lower or lesser Himalaya (Dhauladhar range, Pirpanjal range and Southern part of Kumaon and Garhwal Himalaya), Great Himalaya (North of Kashmir valley, Pangi valley and Northern parts of Kumaon and Garhwal Himalaya) and Trans Himalaya (including Karakoram, Ladakh and Zaskar ranges).

Faunal diversity of Western Himalaya is rich and diversified due to varied climatic conditions ranging from tropical in Shivalik foothills to very cold environment in the Trans Himalaya. There is a dominance of Palaeartic and endemic fauna above timber line (3000 m) and Oriental and some Palaeartic and Ethiopian elements at lower and middle altitudes (SIDHU *et al.* 2012).

Data sources – The checklist (see supplementary material) is mostly based on available literature rather than on extensive new taxonomic work. Most of the names of described species presented are in accordance with the most recent Syrphidae classification following *Systema Dipteroorum* (PAPE & EVENHUIS 2013).

Arrangement – Genera and species names are arranged in alphabetical order, to make easier the search for a given taxon (see supplementary material). Original descriptions plus local references are listed for all species (references cited in the supplementary material are included as part of the main reference list). The acronyms used for collections (in supplementary material) follow the standard of the *Systema Dipteroorum* (PAPE & EVENHUIS 2013), and their equivalents are listed below: BMNH: The Natural History Museum, London; HNHM: Hungarian Natural History Museum, Budapest, Hungary; HUS: Hokkaido University, Sapporo, Hokkaido, Japan; LSL: Linnaen Society of London; MCZ: Museum of Comparative Zoology, Cambridge, USA; MNHN: Muséum National d’Histoire Naturelle, Paris, France; MZLS: Museo Zoologico La Specola, Florence, Italy; NMW: Naturhistorisches Museum Wien, Vienna, Austria; NRS: Naturhistoriska Riksmuseet, Stockholm, Sweden; SMF: Forschungsinstitut und Naturmuseum Senckenberg, Frankfurt, Germany; UMO: Oxford University Museum of Natural History, England; USNM: National Museum of Natural History, Smithsonian Institute, Washington, D.C., USA; UZMC: Universitetets Zoologiske Museum, Copenhagen; ZIL: Zoological Institute, Lund University, Lund, Sweden; ZISP: Zoological Institute, Academy of Sciences, St. Petersburg, Russia; ZMA: Zoölogische Museum, University of Amsterdam; ZMHU: Museum für Naturkunde der Humboldt-Universität, Berlin, Germany, ZMUC: Zoological Museum, University of Copenhagen, Copenhagen, Denmark; ZSI: Zoological Survey of India, Kolkata.

RESULTS

Perusal of literature revealed that the hoverfly species list from Western Himalaya, India comprises 169 valid species, distributed in 55 genera. The checklist with synonyms is shown as "Supplementary material", following alphabetical order. Notes about type localities and depositories are also included. The checklist also contains the references of the general distribution of the listed species.

The most diverse genera in terms of species are *Eumerus* with 12 species followed by *Paragus* with 10 species. *Criorhina* represents 9 species while *Eristalinus* and *Platycheirus* each signify 7 species. *Chrysotoxum*, *Eristalis*, *Eupeodes*, *Sphaerophoria* and *Syrphus* each are represented by 6 species. *Cheilosia* represents 5 species while *Betasyrphus*, *Orthonoeva*, *Rhingia*, *Scaeva* and *Sphagina* each are represented by 4 species. *Asarkina*, *Ceriana*, *Dasysyrphus*, *Ferdinandea*, *Melanostoma*, *Meliscaeva*, *Monoceromyia*, *Syritta* and *Volucella* each are represented by 3 species with *Allobaccha*, *Allograpta*, *Baccha*, *Callicera*, *Epistrophe*, *Episyrphus*, *Graptomyza*, *Leucozona*, *Lycastris*, *Microdon*, *Parasyrphus* and *Phytomia* each represented by 2 species. *Agnisyrphus*, *Blera*, *Chalcosyrphus*, *Didea*, *Dideopsis*, *Eriozona*, *Ischiodon*, *Megasyrphus*, *Melangyna*, *Milesia*, *Myolepta*, *Pararctophila*, *Rohdendorfia*, *Sphiximorpha*, *Temnostoma*, *Tuberculanostoma*, *Xanthandrus* and *Xylota* each are represented by a single species. Although, Indian Western Himalaya has a very high number of hoverfly species compared with the remaining India (MITRA *et al.* 2008), the majority of genera are represented by only one or a handful of species. The high species richness of the Western Himalaya hoverfly fauna is due to multiple climatic regions and geological history with barrier-forming mountain ranges and isolated valleys (MITTAL *et al.* 2000, SIDHU *et al.* 2012, BHARTI & WACHKOO 2013). Considering that most areas of the Western Himalaya are unexplored for hoverflies, the true number of species in the region is undoubtedly larger than reported here, perhaps half of the hoverflies are still to be discovered. In this study, a checklist of the hoverflies of Western Himalaya was prepared for the first time and therefore, can facilitate future research of the Western Himalayan hoverfly fauna.

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SUPPLEMENTARY MATERIAL*

- Agnisyrphus angara*** Ghorpade, 1994
 TL: Mussoorie (India: Uttarakhand). TD: USNM
 D: India (Uttarakhand)
 R: GHORPADE 1994, 2007, PAPE & EVENHUIS 2013
- Allobaccha amphithoe*** (Walker, 1849)
Baccha amphithoe Walker, 1849
Baccha pedicellata Doleschall, 1856
Baccha bicincta Meijere, 1910
Baccha flavopunctata Brunetti, 1913
Baccha fulvicostalis Matsumura, 1916
 TL: East Indies/Moulmein. TD: BMNH
 D: Burma, China, India (Arunachal Pradesh, Assam, Karnataka, Kerala, Meghalaya, Mizoram, Sikkim, Tripura, Uttarakhand, West Bengal), Japan, Sri Lanka
 R: GHORPADE 1994, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Allobaccha apicalis*** (Loew, 1858)
Baccha apicalis Loew, 1858
Baccha nigricosta Brunetti, 1907
Baccha apicenotata Brunetti, 1915
 TL: Japan. TD: ZMHU
 D: Burma, China, India (Assam, Bihar, Goa, Himachal Pradesh, Karnataka, Kerala, Meghalaya, Mizoram, Tamil Nadu, Uttarakhand, West Bengal), Japan, Nepal, Sri Lanka
 R: BRUNETTI 1915, 1923, GHORPADE 1994, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Allograpta javana*** (Wiedemann, 1824)
Syrphus javanus Wiedemann, 1824
Xanthogramma nakamurae Matsumura, 1918
 TL: Java (Indonesia). TD: NMW
 D: Australia, Borneo, Burma, China, Fiji, India (Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Delhi, Karnataka, Kerala, Madhya Pradesh, Manipur, Meghalaya, Mizoram, Orissa, Sikkim, Tamil Nadu, Tripura, Uttarakhand, West Bengal), Indonesia, Japan, Malaysia, Nepal, New Guinea, Solomon Islands, Sri Lanka, Sumatra
 R: BRUNETTI 1923, GHORPADE 1994, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Allograpta maculipleura*** (Brunetti, 1913)
Syrphus maculipleura Brunetti, 1913
Xanthogramma bouvieri Herve-Bazin, 1923
 TL: Rotung (India: Arunachal Pradesh). TD: ZSI
 D: Burma, India (Arunachal Pradesh, Assam, Himachal Pradesh)
 R: BRUNETTI 1923, NAYAR 1968a, GHORPADE 1994, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Asarkina assimilis*** (Macquart, 1846)
Syrphus assimilis Macquart, 1846
 TL: India. TD: UMO
 D: India (Himachal Pradesh)
 R: Nayar, 1968a, PAPE & EVENHUIS 2013
- Asarkina incisuralis*** (Macquart, 1855)
Syrphus incisuralis Macquart, 1855
Asarkina formosae Bezzi, 1908
 TL: Inde. TD: UMO
 D: Bangladesh, China, India (Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chandigarh, Gujarat, Jammu & Kashmir, Karnataka, Kerala, Manipur, Meghalaya, Mizoram, Nagaland, Puducherry, Sikkim, Tamil Nadu, Tripura, Uttarakhand, West Bengal), Nepal, Sri Lanka
 R: DATTA & CHAKRABORTI 1984, 1986, GHORPADE 1994, 2009, MITRA *et al.* 2008
- Asarkina porcina*** (Coquillett, 1898)
Syrphus porcina Coquillett, 1898
 TL: Japan. TD: USNM
 D: Burma, China, India (Assam, Meghalaya, Sikkim, Uttarakhand, West Bengal), Japan, Nepal, Sri Lanka
 R: GHORPADE 1994, PAPE & EVENHUIS 2013
- Baccha bistriatus*** KOHLI, Kapoor et Gupta, 1988
 TL: Pantnagar (India: Uttarakhand). TD: Unknown
 D: India (Uttarakhand)
 R: KOHLI *et al.* 1988, PAPE & EVENHUIS 2013

* Abbreviations used: type locality = TL, type depository = TD, distribution = D, References = R.

- Baccha maculata*** Walker, 1852
Baccha tinctipennis Brunetti, 1907
Baccha austeni Meijere, 1908
Baccha tenera Meijere, 1910
Baccha eronis Curran, 1928
Baccha eoa Violovitsh, 1976
Baccha pulla Violovitsh, 1976
 TL: East Indies. TD: BMNH
 D: Borneo, China, Indonesia, India (Arunachal Pradesh, Himachal Pradesh, Meghalaya, Uttarakhand, West Bengal), Malaya
 R: BRUNETTI 1923, KNUTSON *et al.* 1975, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Betasyrphus aeneifrons*** (Brunetti, 1913)
Syrphus aeneifrons Brunetti, 1913
Syrphus transversus Brunetti, 1913
 TL: Between Kalek & Misshing (India: Arunachal Pradesh). TD: ZSI
 D: India (Arunachal Pradesh, Assam, Sikkim, Uttarakhand, West Bengal), Nepal
 R: BRUNETTI 1923, GHORPADE 1994, 2009, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Betasyrphus bazini*** (Brunetti, 1925)
Pipizella rufiventris Brunetti, 1911
Syrphus bazini Brunetti, 1925
Syrphus albipilus Coe, 1964
 TL: Kausani (India: Uttarakhand). TD: ZSI
 D: India (Jharkhand, Sikkim, Uttarakhand, West Bengal), Nepal
 R: BRUNETTI 1923, GHORPADE 1994, 2009, PAPE & EVENHUIS 2013
- Betasyrphus isaaci*** (Bhatia, 1933)
Syrphus isaaci Bhatia, 1933
 TL: Bihar (India). TD: ZSI
 D: Burma, India (Arunachal Pradesh, Assam, Bihar, Himachal Pradesh, Jammu & Kashmir, Meghalaya, Punjab, Uttarakhand, West Bengal), Nepal
 R: BHATIA & SHAFFI 1933, DATTA & CHAKRABORTI 1984, GHORPADE 1994, 2009, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Betasyrphus serarius*** (Wiedemann, 1830)
Syrphus serarius Wiedemann, 1830
 TL: China. TD: ZMUC
 D: Australia, Buru, China, India (Arunachal Pradesh, Assam, Bihar, Karnataka, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, Uttarakhand, West Bengal), Java, Nepal, New Guinea, Pakistan, Sri Lanka
 R: BRUNETTI 1923, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Blera himalaya*** Thompson, 2000
 TL: Shimla (India: Himachal Pradesh). TD: BMNH
 D: India (Himachal Pradesh)
 R: THOMPSON 2000, PAPE & EVENHUIS 2013
- Callicera christiani*** Ghorpade, 1982
 TL: Himachal Pradesh (India). TD: Ghorpade collection
 D: India (Himachal Pradesh)
 R: GHORPADE 1982, PAPE & EVENHUIS 2013
- Callicera robusta*** Coe, 1964
 TL: Northeast India, Naini Hills (India). TD: BMNH
 D: India (Uttarakhand), Nepal
 R: COE, 1964, PAPE & EVENHUIS 2013
- Ceriana brevis*** (Brunetti, 1923)
Ceria brevis Brunetti, 1923
 TL: Pusa (India). TD: BMNH
 D: India (Bihar, Jammu & Kashmir), Pakistan
 R: BRUNETTI 1923, KNUTSON *et al.* 1975, ASLAM-KHAN *et al.* 1997, PAPE & EVENHUIS 2013
- Ceriana compacta*** (Brunetti, 1907)
Ceria compacta Brunetti, 1907
 TL: Mussoorie (India: Uttarakhand). TD: BMNH
 D: India (Uttarakhand)
 R: BRUNETTI 1923, PAPE & EVENHUIS 2013
- Ceriana dimidiatipennis*** (Brunetti, 1923)
Ceria dimidiatipennis Brunetti, 1923
 TL: Hangu & Abbottabad (Pakistan). TD: BMNH
 D: India (Jammu & Kashmir), Pakistan
 R: BRUNETTI 1923, KNUTSON *et al.* 1975, ASLAM-KHAN *et al.* 1997, PAPE & EVENHUIS 2013
- Chalcosyrphus ornata*** (Brunetti, 1915)
Merodon ornata Brunetti, 1915
 TL: Bhowali, Kumaon (India: Uttarakhand). TD: ZSI
 D: India (Uttarakhand)
 R: BRUNETTI 1915, 1923, PAPE & EVENHUIS 2013
- Cheilosia himalayensis*** (Brunetti, 1915)
Eriozona himalayensis Brunetti, 1915
 TL: Kumaon (India: Uttarakhand). TD: ZSI
 D: India (Uttarakhand)
 R: BRUNETTI 1915, 1923, PAPE & EVENHUIS 2013

- Cheilosia kalatopensis*** Nayar, 1968
 TL: Kalatop, Lakkarmandi, Bridal Path (India: Himachal Pradesh). TD: ZSI
 D: India (Himachal Pradesh)
 R: NAYAR 1968a, KNUTSON *et al.* 1975, PAPE & EVENHUIS 2013
- Cheilosia nigroaenea*** Brunetti, 1915
 TL: Matiana & Shimla (India: Himachal Pradesh). TD: ZSI
 D: India (Himachal Pradesh, Sikkim), Nepal
 R: BRUNETTI 1915, 1923, KNUTSON *et al.* 1975, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Cheilosia plumbiventris*** Brunetti, 1915
 TL: Shimla (India: Himachal Pradesh). TD: ZSI
 D: India (Himachal Pradesh)
 R: BRUNETTI 1915, 1923, KNUTSON *et al.* 1975, PAPE & EVENHUIS 2013
- Cheilosia songarea*** (Becker, 1894)
Chilosia songarea Becker, 1894
 TL: Lepsa (?Austria). TD: NMW
 D: Austria, India (Jammu & Kashmir)
 R: DOESBURG 1955, LAMBECK & BRINK 1973, PAPE & EVENHUIS 2013
- Chrysotoxum antiquum*** Walker, 1852
Chrysotoxum violaceum Brunetti, 1923
 TL: East Indies. TD: BMNH
 D: Burma, India (Himachal Pradesh, Uttarakhand, West Bengal), Nepal
 R: BRUNETTI 1923, GHORPADE 1994, 2012, PAPE & EVENHUIS 2013
- Chrysotoxum baphyrum*** Walker, 1849
Chrysotoxum indicum Walker, 1852
Chrysotoxum sexfasciatum Brunetti, 1907
Chrysotoxum citronellum Brunetti, 1908
Chrysotoxum testaceum Sack, 1913
Chrysotoxum mundulum Herve-Bazin, 1923
Chrysotoxum fasciatus KOHLI, Kapoor & Gupta, 1988
 TL: North Bengal (India). TD: BMNH
 D: Burma, China, India (Arunachal Pradesh, Chandigarh, Himachal Pradesh, Jammu & Kashmir, Karnataka, Meghalaya, Tamil Nadu, Uttarakhand, Uttar Pradesh, West Bengal), Indonesia, Nepal, Sri Lanka
 R: BRUNETTI 1923, DATTA & CHAKRABORTI 1984, KOHLI *et al.* 1988, GHORPADE 1994, 2012, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Chrysotoxum convexum*** Brunetti, 1915
 TL: Andarban, Garhwal (India: Uttarakhand). TD: ZSI
 D: China, India (Mizoram, Uttarakhand)
 R: BRUNETTI 1923, GHORPADE 1994, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Chrysotoxum corbetti*** Ghorpade, 1994
 TL: Mussoorie (India: Uttarakhand). TD: UZMC
 D: India (Uttarakhand)
 R: GHORPADE 1994, PAPE & EVENHUIS 2013
- Chrysotoxum fasciolatum*** (De Geer, 1776)
Musca fasciolata De Geer, 1776
Syrphus lineola Preyssler, 1793
Syrphus vernus Panzer, 1804
Chrysotoxum costale Wiedemann, 1822
Chrysotoxum marginatum Meigen, 1822
Chrysotoxum albopilosum Strobl, 1893
Chrysotoxum sachalinensis Matsumura, 1911
 TL: Sweden. TD: NRS
 D: Europe, China, India (Jammu & Kashmir, Uttarakhand), USA
 R: VIOLOVITSH 1974, GHORPADE 1994, PAPE & EVENHUIS 2013
- Chrysotoxum intermedium*** Meigen, 1822
Chrysotoxum lunulatum Brullé, 1833
Chrysotoxum monticola Schummel, 1841
Chrysotoxum italicum Rondani, 1845
Chrysotoxum graecum Walker, 1852
Chrysotoxum stipatum Walker, 1852
Chrysotoxum gymnophthalmum Giglio-Tos, 1890
Chrysotoxum fuscomarginatum Brunetti, 1923
Chrysotoxum ladakense Shannon, 1926
 TL: Sweden. TD: MNHN
 D: Afghanistan, Europe, India (Himachal Pradesh, Jammu & Kashmir), Iran, Northern Africa, Pakistan, Sweden
 R: BRUNETTI 1923, VIOLOVITSH 1974, PECK 1988, GHORPADE 1994, 2012, PAPE & EVENHUIS 2013
- Criorhina excavata*** Curran, 1929
 TL: Chakrata, Deoban (India: Uttarakhand). TD: Unknown
 D: India (Uttarakhand)
 R: CURRAN 1929, PAPE & EVENHUIS 2013
- Criorhina dentata*** Brunetti, 1908
 TL: Kodiali, Shimla (India: Himachal Pradesh). TD: ZSI
 D: India (Himachal Pradesh)
 R: BRUNETTI 1923, KNUTSON *et al.* 1975, PAPE & EVENHUIS 2013

- Criorhina imitator*** Brunetti, 1915
 TL: Onari, Garhwal (India: Uttarakhand). TD: ZSI
 D: India (Jammu & Kashmir, Uttarakhand),
 Pakistan
 R: BRUNETTI 1923, KNUTSON *et al.* 1975, ASLAM-
 KHAN *et al.* 1997, PAPE & EVENHUIS 2013
- Criorhina pallidipes*** Curran, 1929
 TL: Chakrata, Deoban (India: Uttarakhand). TD:
 Unknown
 D: India (Uttarakhand)
 R: CURRAN 1929, PAPE & EVENHUIS 2013
- Criorhina pallipilosa*** Hull, 1944
Criorhina bicolorata Hull, 1950
 TL: Gulmarg, Kashmir (India: Jammu & Kash-
 mir). TD: BMNH
 D: India (Jammu & Kashmir)
 R: HULL 1944, COE 1964, KNUTSON *et al.* 1975,
 PAPE & EVENHUIS 2013
- Criorhina rubropilosa*** Hull, 1950
 TL: Gulmarg, Kashmir (India: Jammu & Kash-
 mir). TD: BMNH
 D: India (Jammu & Kashmir)
 R: HULL 1950, KNUTSON *et al.* 1975, PAPE & EVEN-
 HUIS 2013
- Criorhina spinatarsis*** Curran, 1929
 TL: Dehradun, Rishikesh (India: Uttarakhand).
 TD: Unknown
 D: India (Uttarakhand)
 R: CURRAN 1929, PAPE & EVENHUIS 2013
- Criorhina tripilosa*** Coe, 1964
 TL: Kumaon, Barasu (India: Uttarakhand). TD:
 BMNH
 D: India (Uttarakhand)
 R: COE 1964, PAPE & EVENHUIS 2013
- Criorhina vivida*** Brunetti, 1923
 TL: Kashmir (India: Jammu & Kashmir). TD:
 BMNH
 D: India (Jammu & Kashmir), Pakistan
 R: BRUNETTI 1923, KNUTSON *et al.* 1975, ASLAM-
 KHAN *et al.* 1997, PAPE & EVENHUIS 2013
- Dasysyrphus darada*** Ghorpade, 1994
 TL: Drass (India: Jammu & Kashmir). TD: Ghor-
 pade collection
 D: India (Jammu & Kashmir)
 R: GHORPADE 1994, PAPE & EVENHUIS 2013
- Dasysyrphus orsua*** (Walker, 1852)
Syrphus orsua Walker, 1852
Syrphus Brunettii Herve-Bazin, 1923
 TL: East Indies. TD: BMNH
 D: India (Himachal Pradesh, Jammu & Kashmir,
 Sikkim, Uttarakhand, West Bengal), Nepal,
 Sri Lanka, Sumatra
 R: BRUNETTI 1923, MITRA *et al.* 2008, GHORPADE
 1994, 2009, PAPE & EVENHUIS 2013
- Dasysyrphus pandu*** Ghorpade, 1994
 TL: Leh (India: Jammu & Kashmir). TD: Ghor-
 pade collection
 D: India (Jammu & Kashmir)
 R: GHORPADE 1994, PAPE & EVENHUIS 2013
- Didea vockerothi*** Ghorpade, 1994
 TL: Gulmarg (India: Jammu & Kashmir). TD:
 UZMC
 D: India (Jammu & Kashmir)
 R: NAYAR 1968a, GHORPADE 1994, PAPE & EVEN-
 HUIS 2013
- Dideopsis aegrota*** (Fabricius, 1805)
Eristalis aegrotus Fabricius, 1805
Syrphus fascipennis Macquart, 1834
Didea ellenriederi Doleschall, 1857
Syrphus infirmus Rondani, 1875
 TL: Tharangambadi (India: Tamil Nadu). TD:
 UZMC
 D: Australia, Bangladesh, Borneo, China, India
 (Arunachal Pradesh, Assam, Karnataka,
 Kerala, Madhya Pradesh, Maharashtra, Ma-
 nipur, Meghalaya, Mizoram, Sikkim, Tamil
 Nadu, Uttarakhand, West Bengal), Indonesia,
 Malaysia, Nepal, New Guinea, Sri Lanka
 R: GHORPADE 1994, MITRA *et al.* 2008, PAPE &
 EVENHUIS 2013
- Epistrophe aequalis*** (Walker, 1852)
Xylota aequalis Walker, 1852
Syrphus distinctus Brunetti, 1915
 TL: East Indies. TD: BMNH
 D: Burma, India (Himachal Pradesh, Uttara-
 khand), Java
 R: BRUNETTI 1923, NAYAR 1968a, GHORPADE 1994,
 PAPE & EVENHUIS 2013

***Epistrophe griseocincta* (Brunetti, 1923)**

Syrphus griseocinctus Brunetti, 1923
 TL: Kumaon, Bagarkote (India: Uttarakhand).
 TD: ZSI

D: Burma, China, India (Jammu & Kashmir, Meghalaya, Tripura, Uttarakhand, West Bengal), Nepal

R: BRUNETTI 1923, NAYAR 1968a, GHORPADE 1994, MITRA *et al.* 2008, PAPE & EVENHUIS 2013

***Episyrphus balteatus* (De Geer, 1776)**

Musca cannabina Scopoli, 1763
Musca palustris Scopoli, 1763
Musca balteata De Geer, 1776
Musca scitule Harris, 1780
Musca scitulus Harris, 1780
Musca alternata Schrank, 1781
Syrphus nectareus Fabricius, 1787
Musca elegans Villers, 1789
Musca nectarina Gmelin, 1790
Syrphus pleuralis Thomson, 1869
Syrphus andalusiacus Strobl, 1899
Episyrphus fallaciosus Matsumura, 1917
Episyrphus hirayamae Matsumura, 1918
Syrphus cretensis Becker, 1921
Syrphus proximus Abreu, 1924
Syrphus signatus Abreu, 1924
 TL: Sweden. TD: NRS

D: Afghanistan, Africa, Australia, China, Europe, India (Arunachal Pradesh, Assam, Himachal Pradesh, Jammu & Kashmir, Karnataka, Kerala, Manipur, Meghalaya, Mizoram, Nagaland, Orissa, Punjab, Sikkim, Tamil Nadu, Tripura, Uttarakhand, West Bengal), Japan, Pakistan
 R: BRUNETTI 1923, RAHMAN 1940, NAYAR 1968a, LAMBECK & BRINK 1973, DATTA & CHAKRABORTI 1984, 1986, PECK 1988, ABROL 1993, GHORPADE 1994, MITRA *et al.* 2008, PAPE & EVENHUIS 2013

***Episyrphus viridaureus* (Wiedemann, 1824)**

Syrphus viridaureus Wiedemann, 1824
Syrphus nectarinus Wiedemann, 1830
Syrphus alternans Macquart, 1842
Syrphus triligatus Walker, 1857
Syrphus heterogaster Thomson, 1869
Syrphus formosae Sack, 1913
Syrphus graptus Hull, 1944

TL: Java (Indonesia). TD: Unknown
 D: Bali, Bacan islands, Bangladesh, Borneo, China, India (Arunachal Pradesh, Assam, Bihar, Delhi, Gujarat, Harayana, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Meghalaya, Mizoram, Sikkim, Tamil Nadu,

Uttarakhand, West Bengal), Java, Laos, Lombok, Malaya, Nepal, New Caledonia, New Caledonia, New Guinea, New Hebrides, Obi Islands, Pakistan, Philippines, Sri Lanka, Sulawesi, Sumatra, Thailand

R: DATTA & CHAKRABORTI 1984, GHORPADE 1994, 2009, PAPE & EVENHUIS 2013

***Eriozona analis* Kertész, 1901**

Eriozona ruficauda Brunetti, 1907
 TL: Sikkim (India). TD: HNHM
 D: China, India (Sikkim, Uttarakhand), Nepal
 R: GHORPADE 1994, MITRA *et al.* 2008, PAPE & EVENHUIS 2013

***Eristalinus aeneus* (Scopoli, 1763)**

Conops aeneus Scopoli, 1763
Musca punctata Müller, 1764
Musca leucocephala Gmelin, 1790
Musca ochroleuca Gmelin, 1790
Musca macrophthalma Preyssler, 1791
Syrphus aeneus Fabricius, 1794
Eristalis cuprovittatus Wiedemann, 1830
Eristalis taphicus Wiedemann, 1830
Conops stygius Newman, 1835
Eristalis sincerus Harris, 1841
Eristalis aenescens Macquart, 1842
Eristalis sincerus Walker, 1849
Syrphus auricalcicus Rondani, 1865
Eristalis concolor Philippi, 1865
Lathyrphthalmus nigrolineatus Herve-Bazin, 1923
 TL: Idrija (Slovenia). TD: Unknown
 D: Afghanistan, Australia, China, Gilbert Islands, Hawaii, India (Delhi, Jammu & Kashmir, Maharashtra, Uttarakhand, Uttar Pradesh), Pakistan, Wake Island
 R: BRUNETTI 1923, RAHMAN 1940, DATTA & CHAKRABORTI 1984, PECK 1988, PAPE & EVENHUIS 2013

***Eristalinus arvorum* (Fabricius, 1787)**

Syrphus arvorum Fabricius, 1787
Syrphus arvorum Fabricius, 1787
Syrphus quadrilineatus Fabricius, 1787
Musca tranquebarica Gmelin, 1790
Eristalis fulvipes Macquart, 1846
Eristalis anicetus Walker, 1849
Eristalis antidotus Walker, 1849
Eristalomyia fo Bigot, 1880
Eristalomyia eunotata Bigot, 1890
Eristalis okinawensis Matsumura, 1916
 TL: Tharangambadi (India: Tamil Nadu). TD: UZMC

- D: Australia, China, Hawaii, India (Arunachal Pradesh, Jammu & Kashmir, Manipur, Meghalaya, Mizoram, Orissa, Sikkim, Tripura, West Bengal), Japan, Marianas, Micronesia, Pakistan, Seychelles, Southeast Asia
 R: BRUNETTI 1923, DATTA & CHAKRABORTI 1984, MITRA *et al.* 2008, GHORPADE *et al.* 2011, PAPE & EVENHUIS 2013
- Eristalinus megacephalus* (Rossi, 1794)**
Syrphus megacephalus Rossi, 1794
Eristalis laetus Wiedemann, 1830
Eristalis fasciatus Meigen, 1835
Eristalis fasciatus Meigen, 1838
Eristalis pallinevis Macquart, 1842
Eristalis fasciatus Germar, 1844
Eristalis quinquefasciatus Schiner, 1849
Eristalis quinquevittatus Macquart, 1849
Eristalis ridens Walker, 1849
Eristalis obscuritarsis Meijere, 1908
Lathyrrophthalmus ishigakiensis Shiraki, 1968
 TL: Toscana (Italy). TD: Unknown
 D: Afghanistan, China, Egypt, Guam, India (Andhra Pradesh, Bihar, Gujarat, Jammu & Kashmir, Karnataka, Kerala, Maharashtra, Meghalaya, Orissa, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttarakhand, West Bengal), Java, Nepal, Pakistan, Singapore, South Africa, Sri Lanka
 R: BRUNETTI 1923, RAHMAN 1940, DATTA & CHAKRABORTI 1986, PECK 1988, MITRA *et al.* 2008, GHORPADE *et al.* 2011, PAPE & EVENHUIS 2013
- Eristalinus paria* (Bigot, 1880)**
Eristalomyia paria Bigot, 1880
Eristalomyia zebrina Bigot, 1880
Eristalis kobusi Meijere, 1908
Eristalis arisanus Matsumura, 1916
 TL: Sri Lanka. TD: BMNH
 D: China, India (Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Karnataka, Manipur, Meghalaya, Mizoram, Sikkim, Tamil Nadu, Uttarakhand, West Bengal), Java, Moluccas, Sri Lanka
 R: BRUNETTI 1923, NAYAR 1968b, KNUTSON *et al.* 1975, DATTA & CHAKRABORTI 1984, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Eristalinus quinquestriatus* (Fabricius, 1794)**
Syrphus quinquestriatus Fabricius, 1794
Eristalis aesepeus Walker, 1849
- Eristalomyia picta* Bigot, 1880
Lathyrrophthalmus basalis Shiraki, 1968
 TL: Tharangambadi (India: Tamil Nadu). TD: Unknown
 D: Buru, China, India (Arunachal Pradesh, Assam, Bihar, Karnataka, Kerala, Madhya Pradesh, Meghalaya, Nagaland, Orissa, Tamil Nadu, Tripura, Uttarakhand, West Bengal), Indonesia, Japan, Nepal
 R: BRUNETTI 1923, DATTA & CHAKRABORTI 1984, 1986, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Eristalinus sepulchralis* (Linnaeus, 1758)**
Musca sepulchralis Linnaeus, 1758
Musca ater Harris, 1776
Musca melanius Harris, 1776
Syrphus tristis Fabricius, 1794
Eristalis impunctata Strobl, 1910
Eristalis miki Mutin & Barkalov, 1999
 TL: Sweden. TD: LSL
 D: Afghanistan, China, Europe, India (Jammu & Kashmir), Pakistan
 R: BRUNETTI 1923, ASLAMKHAN *et al.* 1997, PAPE & EVENHUIS 2013
- Eristalinus taeniops* (Wiedemann, 1818)**
Eristalis taeniops Wiedemann, 1818
Helophilus pulchriceps Wiedemann, 1822
Eristalis aegyptius Walker, 1849
Eristalis secretus Walker, 1849
Eristalis torridus Walker, 1849
Eristalis communis Adams, 1905
Eristalis completa Abreu, 1924
Eristalis concinna Abreu, 1924
 TL: Cape of Good Hope (South Africa: Cape). TD: NMW
 D: Afghanistan, Africa, Europe, India (Arunachal Pradesh, Himachal Pradesh, Meghalaya, Sikkim, West Bengal), Nepal, Pakistan, USA
 R: BRUNETTI 1923, RAHMAN 1940, KNUTSON *et al.* 1975, PECK 1988, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Eristalis albibasis* Bigot, 1880**
 TL: India. TD: Unknown
 D: India (Himachal Pradesh), China
 R: BRUNETTI 1923, KNUTSON *et al.* 1975, PAPE & EVENHUIS 2013
- Eristalis arbustorum* (Linnaeus, 1758)**
Musca arbustorum Linnaeus, 1758
Musca nemorum Linnaeus, 1758
Musca lyra Harris, 1776

- Musca parralleli* Harris, 1776
Musca parralleli Harris, 1776
Volucella tricincta Müller, 1776
Syrphus deflagratus Preyßler, 1793
Syrphus succinctus Panzer, 1804
Eristalis sachalinensis Matsumura, 1916
Eristalis bulgarica Szilády, 1934
Eristalis polonica Szilády, 1934
Eristalis strandi Duda, 1940
Eristalomya distincta Shiraki, 1968
 TL: Sweden. TD: LSL
 D: Afghanistan, Africa, Canada, China, Europe, India (Arunachal Pradesh, Jammu & Kashmir, Meghalaya, Sikkim, West Bengal), Iran, Pakistan, Siberia, USA
 R: BRUNETTI 1923, DOESBURG 1955, KNUTSON *et al.* 1975, DATTA & CHAKRABORTI 1984, PECK 1988, ASLAMKHAN *et al.* 1997, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Eristalis brevifacies* Coe, 1964**
 TL: Taplejung, Between Sangu & Tamrang (Nepal). TD: BMNH
 D: India (Jammu & Kashmir), Nepal
 R: COE 1964, PAPE & EVENHUIS 2013
- Eristalis cerealis* Fabricius, 1805**
Eristalis solitus Walker, 1849
Eristalis incisuralis Loew, 1858
Eristalis barbata Bigot, 1880
 TL: Tharangambadi (India: Tamil Nadu). TD: UZMC
 D: Buma, China, India (Arunachal Pradesh, Assam, Himachal Pradesh, Jammu & Kashmir, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, Tamil Nadu, Uttarakhand, West Bengal), Japan, Nepal, Russia
 R: BRUNETTI 1923, COE 1964, NAYAR 1968b, KNUTSON *et al.* 1975, DATTA & CHAKRABORTI 1984, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Eristalis himalayensis* Brunetti, 1908**
Eristalis ursinus Bigot, 1880
 TL: India. TD: Unknown
 D: Burma, China, India (Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal), Nepal
 R: BRUNETTI 1923, COE 1964, NAYAR 1968b, KNUTSON *et al.* 1975, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Eristalis tenax* (Linnaeus, 1758)**
Musca tenax Linnaeus, 1758
Conops vulgaris Scopoli, 1763
- Musca apiformis* Geoffroy, 1785
Eristalis campestris Meigen, 1822
Eristalis hortorum Meigen, 1822
Eristalis sylvaticus Meigen, 1822
Eristalis vulpinus Meigen, 1822
Eristalis cognatus Wiedemann, 1824
Eristalis sinensis Wiedemann, 1824
Eristalis columbica Macquart, 1855
Eristalis ventralis Thomson, 1869
Eristalis alpinus Strobl, 1893
Eristalis claripes Abreu, 1924
 TL: Sweden. TD: LSL
 D: Afghanistan, Australia, Burma, China, Easter Island, Hawaii, India (Arunachal Pradesh, Jammu & Kashmir, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, Uttarakhand, West Bengal), Japan, New Zealand, Pakistan, Sri Lanka
 R: BRUNETTI 1923, RAHMAN 1940, LAMBECK & BRINK 1973, DATTA & CHAKRABORTI 1984, PECK 1988, ABROL 1993, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Eumerus aeneithorax* Brunetti, 1915**
 TL: Shimla (India: Himachal Pradesh). TD: ZSI
 D: India (Himachal Pradesh, West Bengal)
 R: BRUNETTI 1923, KNUTSON *et al.* 1975, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Eumerus albifrons* Walker, 1852**
Eumerus halictiformis Brunetti, 1915
 TL: East Indies. TD: BMNH
 D: India (Himachal Pradesh, Jammu & Kashmir, Orissa, Tamil Nadu), Java
 R: BRUNETTI 1923, ABROL 1993, PAPE & EVENHUIS 2013
- Eumerus ammophilus* Paramonov, 1926**
Eumerus quadrimotatus Doesburg, 1955
 TL: Repetek (Turkmenistan). TD: Paramonov collection
 D: India (Jammu & Kashmir), Turkmenistan
 R: DOESBURG 1955, PAPE & EVENHUIS 2013
- Eumerus aurifrons* (Wiedemann, 1824)**
Pipiza aurifrons Wiedemann, 1824
Eumerus similis Keiser, 1958
Eumerus albipes Keiser, 1971
 TL: Indes Orientales [Either Java or Bengal]. TD: NMW, UZMC
 D: Australia, Hawaii, India (Jammu & Kashmir, Maharashtra), Indonesia, Philippines, Sri Lanka
 R: BRUNETTI 1923, KNUTSON *et al.* 1975, PAPE & EVENHUIS 2013

Eumerus halictoides Brunetti, 1915

TL: Darjeeling (India: West Bengal). TD: ZSI
 D: India (Himachal Pradesh, West Bengal)
 R: BRUNETTI 1923, KNUTSON *et al.* 1975, MITRA *et al.* 2008, PAPE & EVENHUIS 2013

Eumerus kashmerensis Kohli, Kapoor et Gupta, 1988

Eumerus kashmerensis Kohli, 1987
 TL: Srinagar (India: Jammu & Kashmir). TD: Unknown
 D: India (Jammu & Kashmir)
 R: KOHLI *et al.* 1988, PAPE & EVENHUIS 2013

Eumerus nepalensis Brunetti, 1908

TL: Chonebal (Nepal). TD: ZSI
 D: Afghanistan, Borneo, India (Jammu & Kashmir), Nepal
 R: BRUNETTI 1923, ABROL 1993, PAPE & EVENHUIS 2013

Eumerus nicobarensis Schiner, 1868

TL: Nicobar Islands (India). TD: NMW
 D: Afghanistan, Borneo, China, India (Assam, Jammu & Kashmir, Nicobar Islands, West Bengal), Malaya, Sri Lanka
 R: BRUNETTI 1923, KNUTSON *et al.* 1975, MITRA *et al.* 2008, PAPE & EVENHUIS 2013

Eumerus perpensus Brunetti, 1917

TL: Phagu, Shimla (India: Himachal Pradesh). TD: ZSI
 D: India (Himachal Pradesh)
 R: BRUNETTI 1923, KNUTSON *et al.* 1975, PAPE & EVENHUIS 2013

Eumerus perplexus Brunetti, 1917

TL: Shimla (India: Himachal Pradesh). TD: ZSI
 D: India (Himachal Pradesh)
 R: BRUNETTI 1923, KNUTSON *et al.* 1975, PAPE & EVENHUIS 2013

Eumerus pulverulentus Brunetti, 1923

TL: Pusa (India). TD: BMNH
 D: India (Jammu & Kashmir, Rajasthan)
 R: BRUNETTI 1923, KNUTSON *et al.* 1975, PAPE & EVENHUIS 2013

Eumerus sexvittatus Brunetti, 1915

TL: Bhowali, Kumaon (India: Uttarakhand). TD: ZSI
 D: India (Uttarakhand)
 R: BRUNETTI 1923, PAPE & EVENHUIS 2013

Eupeodes bucculatus (Rondani, 1857)

Syrphus bucculatus Rondani, 1857
Metasyrphus frequens Matsumura, 1917
Metasyrphus hideonis Matsumura, 1917
Syrphus latilumulatus Collin, 1931
Metasyrphus pseudonitens Dusek et Láska, 1980
 TL: Parma (Italy). TD: MZLS
 D: Afghanistan, Bhutan, Czech Republic, Great Britain, Hungary, India (Himachal Pradesh, Jammu & Kashmir, Punjab, Uttarakhand, West Bengal), Italy, Japan, Norway, Pakistan, Russia, Slovakia, Spain, Finland, Switzerland
 R: PECK 1988, GHORPADE 1994, PAPE & EVENHUIS 2013

Eupeodes confrater (Wiedemann, 1830)

Syrphus confrater Wiedemann, 1830
Syrphus cranapes Walker, 1852
Syrphus mundus Walker, 1852
Syrphus macropterus Thomson, 1869
Syrphus trilimbatus Bigot, 1884
Syrphus torvodes Meijere, 1914
Syrphus okinawae Matsumura, 1917
 TL: China. TD: Unknown
 D: Afghanistan, Australia, China, India (Arunachal Pradesh, Assam, Bihar, Delhi, Gujarat, Himachal Pradesh, Jammu & Kashmir, Karnataka, Manipur, Meghalaya, Punjab, Sikkim, Tamil Nadu, Uttarakhand, West Bengal), Nepal, New Guinea, Pakistan, Sri Lanka, Sumatra
 R: BRUNETTI 1923, BHATTIA & SHAFFI 1933, NAYAR 1968a, ABROL 1993, GHORPADE 1994, 2009, MITRA *et al.* 2008, PAPE & EVENHUIS 2013

Eupeodes corollae (Fabricius, 1794)

Musca vorax Geoffroy, 1785
Syrphus corollae Fabricius, 1794
Musca pyrorum Schrank, 1803
Scaeva olitoria Fallén, 1817
Syrphus lacerus Meigen, 1822
Syrphus crenatus Macquart, 1829
Syrphus flaviventris Macquart, 1829
Syrphus fulvifrons Macquart, 1829
Syrphus nigrifemoratus Macquart, 1829
Syrphus terminalis Wiedemann, 1830
Scaeva annularis Curtis, 1837
Scaeva octomaculata Curtis, 1837
Syrphus disjunctus Macquart, 1842
Syrphus algirus Macquart, 1849
Syrphus corolloides Macquart, 1850
Syrphus dentatus Walker, 1852
Syrphus cognatus Loew, 1858
Syrphus berber Bigot, 1884

- Metasyrphus candidus* Matsumura, 1918
Metasyrphus libyensis Nayar, 1978
 TL: Kiel (Germany). TD: Unknown
 D: Afghanistan, Africa, China, Europe, Germany, India (Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Meghalaya, Punjab, Uttarakhand, West Bengal), Japan, Pakistan
 R: BRUNETTI 1923, NAYAR 1968a, LAMBECK & BRINK 1973, ABROL 1993, GHORPADE 1994, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Eupeodes latifasciatus* (Macquart, 1829)
Syrphus latifasciatus Macquart, 1829
Syrphus affinis Loew, 1840
Scaeva abbreviata Zetterstedt, 1849
Syrphus affinis Palma, 1864
Syrphus submaculatus Frey, 1918
Syrphus pallifrons Curran, 1925
Metasyrphus depressus Fluke, 1933
Metasyrphus chillcotti Fluke, 1952
 TL: Fortifications of Arras (France). TD: MNHN
 D: Afghanistan, China, Europe, India (Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Nagaland, Uttarakhand), Nepal, Pakistan, USA
 R: BRUNETTI 1923, COE 1964, NAYAR 1968a, LAMBECK & BRINK 1973, KNUTSON *et al.* 1975, DATTA & CHAKRABORTI 1984, PECK 1988, GHORPADE 1994, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Eupeodes luniger* (Meigen, 1822)
Syrphus luniger Meigen, 1822
Syrphus maricolor Enderlein, 1938
Syrphus azureus Szilády, 1940
Syrphus transcendens Szilády, 1940
Metasyrphus astutus Fluke, 1952
Metasyrphus vockerothi Fluke, 1952
 TL: France. TD: MNHN
 D: Afghanistan, British China, Columbia, Europe, Greenland, India (Himachal Pradesh), Punjab, USA
 R: BRUNETTI 1923, KNUTSON *et al.* 1975, PECK 1988, PAPE & EVENHUIS 2013
- Eupeodes nuba* (Wiedemann, 1830)
Syrphus nuba Wiedemann, 1830
Syrphus interruptens Walker, 1871
Syrphus rufinasutus Bigot, 1884
Didea annandalei Brunetti, 1919
Syrphus novigradensis Coe, 1960
 TL: Sudan. TD: SMF
 D: Afghanistan, Armenia, China, Egypt, Europe, India (Jammu & Kashmir, Himachal Pradesh), Iran, Israel, Mongolia, Morocco, Nepal, Palestine, Sudan, Syria, Yugoslavia
 R: NAYAR 1968a, PECK 1988, GHORPADE 1994, 2009, PAPE & EVENHUIS 2013
- Ferdinandea longifacies* Coe, 1964
 TL: Eastern Taplejung (Nepal). TD: BMNH
 D: India (Arunachal Pradesh, Uttarakhand), Nepal
 R: COE 1964, PAPE & EVENHUIS 2013
- Ferdinandea isabella* Hull, 1942
 TL: Gulmarg, Kashmir (India: Jammu & Kashmir). TD: BMNH
 D: India (Jammu & Kashmir)
 R: HULL 1942, COE 1964, KNUTSON *et al.* 1975, PAPE & EVENHUIS 2013
- Ferdinandea montana* Hull, 1942
 TL: Gulmarg, Kashmir (India: Jammu & Kashmir). TD: BMNH
 D: India (Jammu & Kashmir)
 R: HULL 1942, COE 1964, KNUTSON *et al.* 1975, PAPE & EVENHUIS 2013
- Graptomyza brevirostris* Wiedemann, 1820
Graptomyza brevirostris Henning, 1832
 TL: Java (Indonesia). TD: UZMC
 D: Borneo, Burma, China, India (Arunachal Pradesh, Jammu & Kashmir, Nicobar Islands, Tamil Nadu), Java, Sri Lanka
 R: BRUNETTI 1923, DATTA & CHAKRABORTI 1984, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Graptomyza flavonotata* Brunetti, 1917
 TL: Between Kufri & Phagu (India: Himachal Pradesh). TD: ZSI
 D: India (Himachal Pradesh)
 R: BRUNETTI 1917, 1923, KNUTSON *et al.* 1975, PAPE & EVENHUIS 2013
- Ischiodon scutellaris* (Fabricius, 1805)
Scaeva scutellaris Fabricius, 1805
Syrphus coromandelensis Macquart, 1842
Sphaerophoria annulipes Macquart, 1855
Syrphus splendens Doleschall, 1856
Syrphus nodalis Thomson, 1869
Syrphus erythropygus Bigot, 1884
Syrphus ruficauda Bigot, 1884
Melithreptus novaeguineae Kertész, 1899
Ischiodon trochanterica Sack, 1913
Melithreptus ogasawarensis Matsumura, 1916

- Ischiodon boninensis* Matsumura, 1919
Epistrophe platychiroides Frey, 1946
Ischiodon penicillatus Hardy, 1952
Epistrophe magnicornis Shiraki, 1963
Sphaerophoria Macquarti Goot, 1964
 TL: Tharangambadi (India: Tamil Nadu). TD: UZMC
 D: Afghanistan, Africa, Australia, Burma, China, India (Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chandigarh, Delhi, Gujarat, Harayana, Himachal Pradesh, Jammu & Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Nagaland, Orissa, Pudicheery, Punjab, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttarakhand, West Bengal), Japan, Micronesia, Nepal, Pacific Islands, Pakistan, Sri Lanka
 R: BRUNETTI 1915, 1923, RAHMAN 1940, DATTA & CHAKRABORTI 1984, 1986, PECK 1988, ABROL 1993, GHORPADE 1994, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Leucozona brunetti* Ghorpade, 1994
 TL: Mussoorie (India: Uttarakhand). TD: UZMC
 D: India (Uttarakhand)
 R: GHORPADE 1994, PAPE & EVENHUIS 2013
- Leucozona virendra* Ghorpade, 1994
 TL: Dhakuri (India: Uttarakhand). TD: Ghorpade collection
 D: India (Uttarakhand)
 R: GHORPADE 1994, PAPE & EVENHUIS 2013
- Lycastris albipes* Walker, 1857
Xiphophomyia glossata Bigot, 1892
 TL: India. TD: BMNH
 D: India (Himachal Pradesh, Uttarakhand, West Bengal)
 R: BRUNETTI 1923, COE 1964, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Lycastris flavohirta* Brunetti, 1907
 TL: Darjeeling (India: West Bengal). TD: BMNH
 D: India (Himachal Pradesh, West Bengal), Nepal
 R: COE 1964, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Megasyrphus himalayensis* Kohli, Kapoor *et Gupta*, 1988
Megasyrphus himalayensis Kohli, 1987
 TL: Kalatop, Dalhousie (India: Himachal Pradesh). TD: Unknown
 D: India (Himachal Pradesh)
 R: GHORPADE 1994, PAPE & EVENHUIS 2013
- Melangyna remota* (Brunetti, 1923)
Syrphus remotus Brunetti, 1923
 TL: Shimla Hills, Kufri (India: Himachal Pradesh). TD: ZSI
 D: India (Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand)
 R: BRUNETTI 1923, MITRA *et al.* 2008, GHORPADE 2009, PAPE & EVENHUIS 2013
- Melanostoma orientale* (Wiedemann, 1824)
Syrphus orientale Wiedemann, 1824
 TL: Indes Orientales. TD: Unknown
 D: China, India (Arunachal Pradesh, Assam, Himachal Pradesh, Jammu & Kashmir, Karnataka, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, Tamil Nadu, Tripura, Uttarakhand, West Bengal), Pakistan, Sri Lanka, throughout the Oriental Region
 R: BRUNETTI 1923, LAMBECK & BRINK 1973, DATTA & CHAKRABORTI 1984, 1986, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Melanostoma pedius* (Walker, 1852)
Syrphus cothonea Walker, 1852
Syrphus pedius Walker, 1852
 TL: East Indies. TD: BMNH
 D: India (Himachal Pradesh), Java
 R: KNUTSON *et al.* 1975, PAPE & EVENHUIS 2013
- Melanostoma univittatum* (Wiedemann, 1824)
Syrphus univittatum Wiedemann, 1824
Syrphus planifacies Macquart, 1848
Syrphus cyathifer Walker, 1856
 TL: Indes Orientales. TD: Unknown
 D: Australia, Burma, Buru, China, Japan, India (Arunachal Pradesh, Assam, Bihar, Himachal Pradesh, Karnataka, Kerala, Manipur, Meghalaya, Mizoram, Sikkim, Tamil Nadu, Tripura, Uttarakhand, West Bengal), Indonesia, Malaysia, Nepal, Singapore
 R: BRUNETTI 1923, NAYAR 1968a, DATTA & CHAKRABORTI 1986, MITRA *et al.* 2008, PAPE & EVENHUIS 2013

- Meliscaeva cinctella*** (Zetterstedt, 1843)
Scaeva cinctella Zetterstedt, 1843
Syrphus diversipes Macquart, 1850
Syrphus formosana Shiraki, 1930
 TL: Karketorp, Ostergotland (Sweden). TD: ZIL
 D: China, Europe, India (Himachal Pradesh, Meghalaya, Sikkim, West Bengal), Nepal, USA
 R: BRUNETTI 1923, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Meliscaeva lefroyi*** Ghorpade, 1994
 TL: Gulmarg, Kashmir (India: Jammu & Kashmir). TD: UZMC
 D: India (Himachal Pradesh, Jammu & Kashmir, Uttarakhand)
 R: GHORPADE 1994, PAPE & EVENHUIS 2013
- Meliscaeva tribeni*** (Nayar, 1968)
Baccha tribeni Nayar, 1968
 TL: Narkanda (India: Himachal Pradesh). TD: ZSI
 D: India (Himachal Pradesh, Uttarakhand)
 R: NAYAR 1968a, GHORPADE 1994, 2009, PAPE & EVENHUIS 2013
- Microdon amandalei*** Brunetti, 1907
 TL: Soondrijal (Nepal). TD: ZSI
 D: Bangladesh, Burma, India (Assam, Himachal Pradesh, Meghalaya, Uttarakhand), Nepal, Pakistan
 R: BRUNETTI 1923, KNUTSON *et al.* 1975, PAPE & EVENHUIS 2013
- Microdon bellus*** Brunetti, 1923
 TL: Mussoorie (India: Uttarakhand). TD: BMNH
 D: China, India (Uttarakhand), Nepal
 R: BRUNETTI 1923, PAPE & EVENHUIS 2013
- Milesia ferruginosa*** Brunetti, 1913
Milesia moalana Yang *et Cheng*, 1993
 TL: Kumaon, Darjeeling (India). TD: ZSI
 D: China, India (Assam, Meghalaya, Sikkim, Uttarakhand, West Bengal), Laos
 R: BRUNETTI 1923, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Monoceromyia crux*** (Brunetti, 1915)
Ceria crux Brunetti, 1915
 TL: Kousanie, Kumaon (India: Uttarakhand). TD: ZSI
 D: India (Uttarakhand)
 R: BRUNETTI 1923, PAPE & EVENHUIS 2013
- Monoceromyia multipunctata*** (Hull, 1941)
Cerioides multipunctata Hull, 1941
 TL: Koolos (India). TD: MCZ
 D: India (Himachal Pradesh)
 R: KNUTSON *et al.* 1975, PAPE & EVENHUIS 2013
- Monoceromyia polistoides*** (Brunetti, 1923)
Ceria polistoides Brunetti, 1923
 TL: Shimla (India: Himachal Pradesh). TD: BMNH
 D: India (Himachal Pradesh), Nepal
 R: BRUNETTI 1923, KNUTSON *et al.* 1975, PAPE & EVENHUIS 2013
- Myolepta himalayana*** Brunetti, 1915
 TL: Matiana, Shimla (India: Himachal Pradesh). TD: ZSI
 D: India (Himachal Pradesh)
 R: BRUNETTI 1923, KNUTSON *et al.* 1975, PAPE & EVENHUIS 2013
- Orthonevra aenethorax*** Kohli, Kapoor *et Gupta*, 1988
Orthonevra aenethorax Kohli, 1987
 TL: Kasauli (India: Himachal Pradesh). TD: Unknown
 D: India (Himachal Pradesh, Jammu & Kashmir)
 R: KOHLI *et al.* 1988, PAPE & EVENHUIS 2013
- Orthonevra indica*** Brunetti, 1915
 TL: Kangra Valley (India: Himachal Pradesh). TD: ZSI
 D: India (Himachal Pradesh, West Bengal)
 R: BRUNETTI 1923, KNUTSON *et al.* 1975, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Orthonevra kozlovi*** (Stackelberg, 1952)
Orthonevra kozlovi Stackelberg, 1952
 TL: Bomim & Northern Tsajdam (China). TD: ZISP
 D: Afghanistan, China, India (Jammu & Kashmir)
 R: LAMBECK & BRINK 1973, PECK 1988, PAPE & EVENHUIS 2013
- Orthonevra nobilis*** (Fallén, 1817)
Eristalis nobilis Fallén, 1817
Chrysogaster nigricollis Meigen, 1822
Chrysogaster byzantina Strobl, 1902
Orthonevra anomala Becker, 1921
 TL: Scania, Esperod (Sweden). TD: NRS
 D: China, India (Jammu & Kashmir), Sweden
 R: DOESBURG 1955, PAPE & EVENHUIS 2013

Paragus amandalei Ghorpade, 1992

TL: Shimla (India: Himachal Pradesh). TD: Ghorpade collection

D: India (Himachal Pradesh, Jammu & Kashmir, Uttarakhand)

R: DATTA & CHAKRABORTI 1984, THOMPSON & GHORPADE 1992, PAPE & EVENHUIS 2013

Paragus atratus Meijere, 1906

TL: Manowari (New Guinea). TD: ZMA

D: India (Assam, Uttarakhand), Indonesia, Malaysia, New Guinea, Singapore

R: BRUNETTI 1923, THOMPSON & GHORPADE 1992, MITRA *et al.* 2008, PAPE & EVENHUIS 2013

Paragus bicolor (Fabricius, 1794)

Musca cruentatus Geoffroy, 1785

Syrphus bicolor Fabricius, 1794

Paragus arcuatus Meigen, 1822

Paragus ater Meigen, 1822

Paragus taeniatus Meigen, 1822

Paragus testaceus Meigen, 1822

Paragus ruficauda Zetterstedt, 1843

Paragus tacchettii Rondani, 1865

TL: Barbariae. TD: UZMC

D: Afghanistan, Barbaria, China, Europe, India (Jammu & Kashmir), Pakistan, USA

R: BRUNETTI 1923, PECK 1988, THOMPSON & GHORPADE 1992, PAPE & EVENHUIS 2013

Paragus femoratus Kohli, Kapoor et Gupta, 1988

Paragus femoratus Kohli, 1987

TL: Pantnagar (India: Uttarakhand). TD: Unknown

D: India (Assam, Uttarakhand)

R: KOHLI *et al.* 1988, PAPE & EVENHUIS 2013

Paragus politus Wiedemann, 1830

Pipizella indicus Brunetti, 1908

Paragus rufiventris Brunetti, 1913

TL: China. TD: Unknown

D: Australia, China, India (Arunachal Pradesh, Assam, Bihar, Himachal Pradesh, Jammu & Kashmir, Kerala, Manipur, Meghalaya Mizoram, Punjab, Sikkim, Tripura, Uttarakhand, Uttar Pradesh, West Bengal), Indonesia, Malaysia, Nepal, Pakistan, Philippines, Thailand, Sri Lanka

R: BRUNETTI 1923, DATTA & CHAKRABORTI 1984, 1986, THOMPSON & GHORPADE 1992, MITRA *et al.* 2008, PAPE & EVENHUIS 2013

Paragus quadrifasciatus Meigen, 1822

Syrphus concinnus Wiedemann, 1822

Syrphus quadrivittatus Macquart, 1829

Syrphus bifasciatus Macquart, 1834

Paragus pulcherrimus Strobl, 1893

Paragus variofasciatus Becker, 1907

Paragus sexnotatus Szilády, 1940

Paragus niger Suster, 1959

TL: France. TD: MNHN

D: Afghanistan, China, France, India (Jammu & Kashmir)

R: DATTA & CHAKRABORTI 1984, PECK 1988, THOMPSON & GHORPADE 1992, PAPE & EVENHUIS 2013

Paragus rufocincta (Brunetti, 1908)

Pipizella rufocincta Brunetti, 1908

TL: Rangoon (Burma). TD: ZSI

D: Burma, China, India (Himachal Pradesh, Jammu & Kashmir, Karnataka, Meghalaya, Punjab, Tamil Nadu, West Bengal), Nepal, Sri Lanka

R: BRUNETTI 1923, DATTA & CHAKRABORTI 1984, THOMPSON & GHORPADE 1992, PAPE & EVENHUIS 2013

Paragus serratus (Fabricius, 1805)

Mulio serratus Fabricius, 1805

TL: Tharangambadi (India: Tamil Nadu). TD: UZMC

D: Afghanistan, Africa, China, India (Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chandigarh, Delhi, Goa, Gujarat, Jammu & Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Mizoram, Orissa, Punjab, Sikkim, Tamil Nadu, Tripura, Uttarakhand, Uttar Pradesh, West Bengal), Nepal, Pakistan

R: BRUNETTI 1923, KNUTSON *et al.* 1975, DATTA & CHAKRABORTI 1984, 1986, PECK 1988, THOMPSON & GHORPADE 1992, MITRA *et al.* 2008, GHORPADE *et al.* 2011, PAPE & EVENHUIS 2013

Paragus tibialis (Fallén, 1817)

Pipiza tibialis Fallén, 1817

Paragus aeneus Meigen, 1822

Paragus femoratus Meigen, 1822

Paragus obscurus Meigen, 1822

Paragus zonatus Meigen, 1822

Ascia analis Macquart, 1839

Paragus dispar Schummel, 1841

Paragus numdia Macquart, 1849

Paragus mundus Wollaston, 1858

- Orthonevra varipes* Bigot, 1880
Paragus meridionalis Becker, 1921
Paragus monogolicus Kanervo, 1938
 TL: Vestergothia (Sweden). TD: NRS
 D: China, India (Arunachal Pradesh, Bihar, Himachal Pradesh, Jammu & Kashmir, Kerala, Manipur, Meghalaya, Mizoram, Tripura, Uttarakhand, West Bengal), Sweden
 R: THOMPSON & GHORPADE 1992, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Paragus yerburiensis*** Stuckenberg, 1954
 TL: Velvery (Sri Lanka). TD: BMNH
 D: India (Andhra Pradesh, Bihar, Delhi, Karnataka, Kerala, Madhya Pradesh, Orissa, Puducherry, Tamil Nadu, Uttarakhand, West Bengal), Nepal, Sri Lanka
 R: THOMPSON & GHORPADE 1992, PAPE & EVENHUIS 2013
- Pararctophila oberthuri*** Herve-Bazin, 1914
Arctophila simplicipes Brunetti, 1915
Syngenicomyia pellicea Becker, 1921
 TL: India, Padong, British Bootan. TD: MNHN
 D: China, India (Uttarakhand), Siberia
 R: BRUNETTI 1915, 1923, PAPE & EVENHUIS 2013
- Parasyrphus kashmiricus*** Ghorpade, 1994
 TL: Pahalgam (India: Jammu & Kashmir). TD: Ghorpade collection
 D: India (Jammu & Kashmir)
 R: GHORPADE 1994, PAPE & EVENHUIS 2013
- Parasyrphus thompsoni*** Ghorpade, 1994
 TL: Gulmarg, Kashmir (India: Jammu & Kashmir). TD: Ghorpade collection
 D: India (Himachal Pradesh, Jammu & Kashmir, Uttarakhand)
 R: GHORPADE 1994, PAPE & EVENHUIS 2013
- Phytomia crassa*** (Fabricius, 1787)
Syrphus crassus Fabricius, 1787
Syrphus megacephalus Fabricius, 1798
Phytomyia sculptata Wulp, 1868
 TL: Tharangambadi (India: Tamil Nadu). TD: Unknown
 D: India (Arunachal Pradesh, Assam, Bihar, Goa, Karnataka, Kerala, Meghalaya, Sikkim, Tamil Nadu, Uttarakhand, West Bengal), Sulawesi
 R: BRUNETTI 1923, DATTA & CHAKRABORTI 1986, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Phytomia errans*** (Fabricius, 1787)
Syrphus errans Fabricius, 1787
Eristalis varipes Macquart, 1842
Eristalis agyrus Walker, 1849
Eristalis amphicrates Walker, 1849
Eristalis babytace Walker, 1849
Eristalis plistoanax Walker, 1849
Eristalis Macquartii Doleschall, 1856
Phytomia aryrus Knutson, Thompson et Vockeroth, 1975
 TL: Tharangambadi (India: Tamil Nadu). TD: UZMC
 D: Burma, China, Southeast Asia, Japan, India (Arunachal Pradesh, Assam, Bihar, Jammu & Kashmir, Kerala, Manipur, Meghalaya, Mizoram, Tamil Nadu, Tripura, West Bengal), Indonesia, Sri Lanka
 R: BRUNETTI 1923, DATTA & CHAKRABORTI 1984, 1986, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Platycheirus albimanus*** (Fabricius 1781)
Syrphus albimanus Fabricius, 1781
Syrphus albimanus Macquart, 1834
Syrphus cyaneus Walker, 1851
Platycheirus albimanus Rondani, 1857
 TL: England. TD: BMNH
 D: Alaska, Britain, Canada, China, Europe, Greenland, Iceland, India (Himachal Pradesh, Jammu & Kashmir, Meghalaya, West Bengal), Japan, Philippines, Russia, Siberia, USA
 R: BRUNETTI 1923, LAMBECK & BRINK 1973, KNUTSON *et al.* 1975, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Platycheirus ambiguus*** (Fallén 1817)
Scaeva ambiguus Fallén, 1817
Syrphus monochaetus Loew, 1871
 TL: Sweden. TD: NRS
 D: China, Eurasia, Europe, India (Himachal Pradesh, Jammu & Kashmir), Ireland, Japan
 R: BRUNETTI 1923, SACK 1935, DOESBURG 1955, KNUTSON *et al.* 1975, PECK 1988, NIELSEN 2004b
- Platycheirus angustatus*** (Zetterstedt, 1843)
Scaeva angustatus Zetterstedt, 1843
Platycheirus major Szilády, 1940
 TL: Skane Lund, Ostergotland (Sweden). TD: ZIL
 D: Canada, China, Europe, India (Jammu & Kashmir), USA
 R: SACK 1935, DOESBURG 1955, LAMBECK & BRINK 1973, PAPE & EVENHUIS 2013

Platycheirus cryophilus Nielsen, 2007

TL: Tehrong Valley, Karakorum near Siachien gletscher (India: Jammu & Kashmir). TD: ZMA

D: India (Jammu & Kashmir)

R: NIELSEN 2007, PAPE & EVENHUIS 2013

Platycheirus himalayensis Brunetti, 1915

TL: Garhwal (India: Uttarakhand). TD: ZSI

D: India (Sikkim, Uttarakhand), Nepal

R: BRUNETTI 1923, MITRA *et al.* 2008, PAPE & EVENHUIS 2013

Platycheirus kashmiricus Nielsen, 2004

TL: Aghil-Gebirge Polu, Karakorum (India: Jammu & Kashmir). TD: ZMA

D: India (Jammu & Kashmir)

R: NIELSEN 2004a, PAPE & EVENHUIS 2013

Platycheirus peteri (Doesburg, 1955)

Pseudoplatycheirus peteri Doesburg, 1955

TL: Aghil Mts, Polu, Karakorum (India: Jammu & Kashmir). TD: ZMA

D: India (Jammu & Kashmir), Tajikistan

R: DOESBURG 1955, PAPE & EVENHUIS 2013

Rhingia angusticincta Brunetti, 1908

TL: Between Kufri & Shimla (India: Himachal Pradesh). TD: ZSI

D: India (Himachal Pradesh)

R: BRUNETTI 1923, KNUTSON *et al.* 1975, PAPE & EVENHUIS 2013

Rhingia laticincta Brunetti, 1907

Rhingia fasciata Brunetti, 1908

TL: Darjeeling & Mussoorie (India). TD: ZSI

D: China, India (Himachal Pradesh, Punjab, Uttarakhand, West Bengal)

R: BRUNETTI 1923, NAYAR 1968a, KNUTSON *et al.* 1975, MITRA *et al.* 2008, PAPE & EVENHUIS 2013

Rhingia semicinerea Brunetti, 1923

TL: Naini Tal (India: Uttarakhand). TD: ZSI

D: India (Uttarakhand)

R: BRUNETTI 1923, PAPE & EVENHUIS 2013

Rhingia siwalikensis Nayar, 1968

TL: Kalatop, Dalhousie (India: Himachal Pradesh). TD: ZSI

D: India (Himachal Pradesh)

R: NAYAR 1968a, KNUTSON *et al.* 1975, PAPE & EVENHUIS 2013

Rohdendorfia dimorpha Smirnov, 1924

Platycheirus nigripes Enderlein, 1933

Platycheirus nigripes Szilády, 1940

Chilosia reinigi Lindner, 1954

Platycheirus sziladyi Goot, 1964

Rohdendorfia bactriana Violovitsh, 1984

TL: Samarkand, Dzhizak (Uzbekistan). TD: Unknown

D: Afghanistan, China, India (Jammu & Kashmir), Turkestan, Uzbekistan

R: SACK 1935, DOESBURG 1955, PECK 1988, PAPE & EVENHUIS 2013

Scaeva albomaculata (Macquart, 1842)

Syrphus albomaculatus Macquart, 1842

Lasiopticus gemellarii Rondani, 1845

Lasiopticus sulphureus Sack, 1935

Olbiosyrphus scufinus Dzhafarova, 1974

TL: Mont Sinai (Egypt); Algeria. TD: MNHN

D: Afghanistan, Algeria, Cape Verde Islands, China, Egypt, Europe, India (Jammu & Kashmir), Iran, North Africa, Pakistan

R: SACK 1935, RAHMAN 1940, DOESBURG 1955, PECK 1988, GHORPADE 1994, PAPE & EVENHUIS 2013

Scaeva latimaculata (Brunetti, 1923)

Lasiopticus latimaculata Brunetti, 1923

Xanthogramma pruthii Deoras, 1942

Xanthogramma indica Nayar, 1968

Scaeva montana Violovitsh, 1975

TL: Allahabad (India: Uttar Pradesh). TD: BMNH

D: Afghanistan, China, India (Delhi, Himachal Pradesh, Jammu & Kashmir, Punjab, Rajasthan, Uttar Pradesh, Uttarakhand, West Bengal), Iran, Pakistan, Tadjikistan

R: BRUNETTI 1923, NAYAR 1968a, PECK 1988, GHORPADE 1994, 2009, PAPE & EVENHUIS 2013

Scaeva pyrastris (Linnaeus, 1758)

Musca pyrastris Linnaeus, 1758

Musca mellina Harris, 1780

Scaeva corrusca Gravenhorst, 1807

Scaeva affinis Say, 1823

Scaeva unicolor Curtis, 1834

Syrphus flavoscutellatus Girschner, 1884

TL: Sweden. TD: LSL

D: Afghanistan, Canada, China, Europe, India (Jammu & Kashmir, Punjab, Uttarakhand), Pakistan, USA

R: DUSEK & LASKA 1985, PECK 1988, ABROL 1993, GHORPADE 1994, PAPE & EVENHUIS 2013

Scaeva selenitica (Meigen, 1822)*Syrphus seleniticus* Meigen, 1822

TL: Germany. TD: MNHN

D: China, Eurasia, Europe, Germany, India (Arunachal Pradesh, Himachal Pradesh, Meghalaya, Sikkim, Uttarakhand), Siberia

R: BRUNETTI 1923, MITRA *et al.* 2008, PAPE & EVENHUIS 2013***Sphaerophoria bengalensis*** Macqurt, 1842*Sphaerophoria flavobdominalis* Brunetti, 1915*Sphaerophoria turkmenica* Bankowska, 1964

TL: Bengal (India). TD: Unknown

D: Afghanistan, India (Bihar, Delhi, Himachal Pradesh, Jammu & Kashmir, Maharashtra, Punjab, Uttarakhand, West Bengal), Iran, Nepal, Pakistan, Turkmenistan

R: LAMBECK & BRINK 1973, PECK 1988, ABROL 1993, GHORPADE 1994, 2009, PAPE & EVENHUIS 2013

Sphaerophoria indiana Bigot, 1884*Sphaerophoria nigratarsis* Brunetti, 1915*Melithreptus minutus* Matsumura, 1916*Melithreptus kumamotoensis* Matsumura, 1916

TL: Indes. TD: UMO

D: Bhutan, Burma, China, India (Arunachal Pradesh, Assam, Bihar, Delhi, Himachal Pradesh, Jammu & Kashmir, Karnataka, Kerala, Maharashtra, Manipur, Meghalaya, Mizoram, Punjab, Sikkim, Tripura, Uttarakhand, Uttar Pradesh, West Bengal), Korea, Nepal, Pakistan, Sri Lanka

R: BRUNETTI 1915, 1923, RAHMAN 1940, DATTA & CHAKRABORTI 1984, PECK 1988, ABROL 1993, GHORPADE 1994, MITRA *et al.* 2008, PAPE & EVENHUIS 2013***Sphaerophoria ladakhensis*** Ghorpade, 1994

TL: Drass (India: Jammu & Kashmir). TD: Ghorpade collection

D: India (Jammu & Kashmir)

R: GHORPADE 1994, PAPE & EVENHUIS 2013

Sphaerophoria rueppellii (Wiedemann, 1830)*Syrphus incertus* Wiedemann, 1830*Syrphus rueppellii* Wiedemann, 1830*Sphaerophoria calceolata* Macquart, 1842*Sphaerophoria flavicauda* Zetterstedt, 1843*Sphaerophoria nitidicollis* Zetterstedt, 1849*Sphaerophoria serpilli* Rondani, 1857*Syrphus olandri* Rondani, 1857*Sphaerophoria pictipes* Boheman, 1864*Ischiodon libycum* Nayar, 1978

TL: Sudan. TD: SMF

D: Abyssinia, Afghanistan, Algeria, Canary Islands, China, Egypt, Eritrea, Ethiopia, Europe, India (Jammu & Kashmir), Israel, Kenya, Korea, Mongolia, Morocco, Syria, Yemen

R: PECK 1988, GHORPADE 1994, 2009, PAPE & EVENHUIS 2013

Sphaerophoria scripta (Linnaeus, 1758)*Musca scripta* Linnaeus, 1758*Musca libatrix* Scopoli, 1763*Musca invisito* Harris, 1780*Sphaerophoria strigata* Staeger, 1845*Sphaerophoria scutellata* Portevin, 1909*Sphaerophoria violacea* Abreu, 1924*Sphaerophoria Brunettii* Joseph, 1967

TL: Sweden. TD: LSL

D: Afghanistan, China, Europe, Greenland, India (Jammu & Kashmir), Sweden

R: DATTA & CHAKRABORTI 1984, PECK 1988, GHORPADE 1994, PAPE & EVENHUIS 2013

Sphaerophoria viridaenea Brunetti, 1915

TL: Shimla (India: Himachal Pradesh). TD: ZSI

D: Afghanistan, China, India (Himachal Pradesh, Jammu & Kashmir, Mizoram, Sikkim, Uttarakhand, West Bengal), Nepal

R: BRUNETTI 1923, NAYAR 1968a, PECK 1988, GHORPADE 1994, MITRA *et al.* 2008, PAPE & EVENHUIS 2013***Sphagina bispinosa*** Brunetti, 1915

TL: Margherita (India: Assam). TD: ZSI

D: India (Assam, Uttarakhand, West Bengal)

R: BRUNETTI 1923, MITRA *et al.* 2008, PAPE & EVENHUIS 2013***Sphagina Guptai*** Mutin, 1998

TL: Rahla (India: Himachal Pradesh). TD:

Unknown

D: India (Himachal Pradesh)

R: MUTIN 1998, PAPE & EVENHUIS 2013

Sphagina kumaoniensis Mutin, 1998

TL: Kumaon Himalaya, Khati (India: Uttarakhand). TD: Unknown

D: India (Uttarakhand)

R: MUTIN 1998, PAPE & EVENHUIS 2013

***Sphagina tricoloripes* Brunetti, 1915**

TL: Bhowali, Kumaon (India: Uttarakhand). TD: ZSI

D: China, India (Himachal Pradesh, Uttarakhand)

R: BRUNETTI 1923, KNUTSON *et al.* 1975, PAPE & EVENHUIS 2013

***Sphiximorpha fulvescens* (Brunetti, 1915)**

Ceria fulvescens Brunetti, 1915

TL: Bhowali, Kumaon (India: Uttarakhand). TD: ZSI

D: India (Uttarakhand)

R: BRUNETTI 1923, PAPE & EVENHUIS 2013

***Syrirta indica* (Wiedemann, 1824)**

Eumerus indica Wiedemann, 1824

Syrirta ruffifacies Bigot, 1884

Syrirta femorata Sack, 1913

TL: East Indies. TD: Unknown

D: Burma, China, India (Assam, Bihar, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Puducherry, Tamil Nadu, Uttarakhand, West Bengal), Nepal, Sri Lanka,

R: BRUNETTI 1923, DATTA & CHAKRABORTI 1986, GHORPADE *et al.* 2011, PAPE & EVENHUIS 2013

***Syrirta orientalis* Macquart, 1842**

Senogaster lutescens Doleschall, 1856

Syrirta amboinensis Doleschall, 1858

Syrirta illucida Walker, 1859

TL: Puducherry (India). TD: MNHN

D: Australia, China, Hawaii, India (Bihar, Himachal Pradesh, Puducherry, Tamil Nadu, Uttarakhand, West Bengal), Java, Micronesia, Pakistan, Singapore

R: BRUNETTI 1923, MITRA *et al.* 2008, PAPE & EVENHUIS 2013

***Syrirta pipiens* (Linnaeus, 1758)**

Musca pipiens Linnaeus, 1758

Musca pipines Fourcroy, 1785

Xylota proxima Say, 1824

Syrirta obscuripes Strobl, 1899

Syrirta albicincta Abreu, 1924

Syrirta flavicans Szilády, 1940

Syrirta vicina Szilády, 1940

Spheginoides tenofemorus Dzhafarova, 1974

TL: Sweden. TD: LSL

D: Afghanistan, Africa, British Columbia, Canada, Europe, India (Himachal Pradesh, Jammu & Kashmir, Uttarakhand, Uttar Pradesh, West Bengal), Nepal, Pakistan, USA

R: BRUNETTI 1923, LAMBECK & BRINK 1973, DATTA & CHAKRABORTI 1984, 1986, PECK 1988,

LYNEBORG & BARKEMYER 2005, GHORPADE *et al.* 2011, PAPE & EVENHUIS 2013

***Syrphus dalhousiae* Ghorpade, 1994**

TL: Dalhousie (India: Himachal Pradesh). TD: Ghorpade collection

D: India (Himachal Pradesh, Jammu & Kashmir, Uttarakhand)

R: GHORPADE 1994, PAPE & EVENHUIS 2013

***Syrphus fulvifacies* Brunetti, 1913**

TL: Rotung (India: Arunachal Pradesh). TD: ZSI

D: China, India (Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Meghalaya, Sikkim, Uttarakhand, West Bengal), Java, Laos, Nepal, Pakistan

R: BRUNETTI 1923, COE 1964, GHORPADE 1994, ASLAMKHAN *et al.* 1997, MITRA *et al.* 2008, PAPE & EVENHUIS 2013

***Syrphus howletti* Ghorpade, 1994**

TL: Srinagar (India: Jammu & Kashmir). TD: Ghorpade collection

D: India (Jammu & Kashmir)

R: GHORPADE 1994, PAPE & EVENHUIS 2013

***Syrphus ribesii* (Linnaeus, 1758)**

Musca ribesii Linnaeus, 1758

Musca vacua Scopoli, 1763

Musca blandus Harris, 1780

Scaeva concava Say, 1823

Syrphus philadelphicus Macquart, 1842

Syrphus vittafrons Shannon, 1916

Syrphus japonicus Matsumura, 1917

Syrphus jezoensis Matsumura, 1917

Syrphus moiwanus Matsumura, 1917

Syrphus similis Jones, 1917

Syrphus yamahanensis Matsumura, 1917

Syrphus maculifer Matsumura, 1918

Syrphus teshikaganus Matsumura, 1918

Syrphus bigelowi Curran, 1924

Syrphus interruptus Ringdahl, 1930

Syrphus brevicinctus Kanervo, 1938

Syrphus nigrigena Enderlein, 1938

Syrphus jonesii Fluke, 1949

Syrphus autumnalis Fluke, 1954

Syrphus himalayanus Nayar, 1968

Syrphus beringi Violovitsh, 1975

TL: Sweden. TD: LSL

D: Afghanistan, China, Canada, England, Europe, India (Himachal Pradesh, Jammu & Kashmir, Uttarakhand), Japan, Mongolia, Russia, USA

R: NAYAR 1968a, PECK 1988, GHORPADE 1994, 2009, PAPE & EVENHUIS 2013

- Syrphus torvus*** Osten Sacken, 1875
Syrphus discretus Szilády, 1940
 TL: New Hampshire, Mount Washington (USA).
 TD: MCZ
 D: China, Europe, Greenland, India (Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal), Nepal, USA
 R: BRUNETTI 1923, GHORPADE 1994, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Syrphus vitripennis*** Meigen, 1822
Syrphus topiarius Meigen, 1822
Scaeva confinis Zetterstedt, 1838
Syrphus akakurensis Matsumura, 1917
Syrphus chujenjianus Matsumura, 1917
Syrphus tsukisappensis Matsumura, 1917
Syrphus agitatus Matsumura, 1918
Syrphus campestris Matsumura, 1918
Syrphus candidus Matsumura, 1918
Syrphus conspicuus Matsumura, 1918
Syrphus dubius Matsumura, 1918
Syrphus kitakawae Matsumura, 1918
Syrphus kuccharensis Matsumura, 1918
Syrphus kushirensis Matsumura, 1918
Syrphus okadensis Matsumura, 1918
Syrphus palliventralis Matsumura, 1918
Syrphus shibechensis Matsumura, 1918
Syrphus tenuis Matsumura, 1918
Syrphus velox Matsumura, 1918
Syrphus strandi Duda, 1940
 TL: Germany. TD: MNHN
 D: Afghanistan, Canada, China, Eurasia, Europe, India (Arunachal Pradesh, Jammu & Kashmir, Meghalaya, Sikkim), Iran, Japan, Mongolia, Russia, Siberia, USA
 R: PECK 1988, GHORPADE 1994, 2009, MITRA *et al.* 2008, PAPE & EVENHUIS 2013
- Temnostoma nigrimanus*** Brunetti, 1915
 TL: Garhwal (India: Uttarakhand). TD: ZSI
 D: India (Uttarakhand)
 R: BRUNETTI 1923, PAPE & EVENHUIS 2013
- Tuberculanostoma solitarium*** Doesburg, 1955
 TL: Aghil Mts. Polu, Karakorum (India: Jammu & Kashmir). TD: ZMA
 D: India (Jammu & Kashmir)
 R: DOESBURG 1955, PAPE & EVENHUIS 2013
- Volucella flavoscutella*** Sack, 1928
 TL: North Kumaon, Sangcha (India: Uttarakhand). TD: BMNH
 D: India (Uttarakhand)
 R: SACK 1928, PAPE & EVENHUIS 2013
- Volucella pellucens*** (Linnaeus, 1758)
Musca pellucens Linnaeus, 1758
Conops dryaphilus Scopoli, 1763
Syrphus putescens Schellenberg, 1803
 TL: Sweden. TD: LSL
 D: China, Europe, India (Uttarakhand), Japan, Korea, Malaya, Mongolia, Russia, Tunisia
 R: BRUNETTI 1923, PAPE & EVENHUIS 2013
- Volucella varipila*** Coe, 1964
 TL: Khumbu, Khumdzung (Nepal). TD: BMNH
 D: India (Jammu & Kashmir), Nepal
 R: COE 1964, PAPE & EVENHUIS 2013
- Xanthandrus garhwalensis*** (Kohli, Kapoor et Gupta, 1988)
Indosyrphus garhwalensis Kohli, 1987
Indosyrphus garhwalensis Kohli, Kapoor et Gupta, 1988
 TL: Dehradun, Ramgarh (India: Uttarakhand).
 TD: Unknown
 D: India (Uttarakhand)
 R: KOHLI *et al.* 1988, PAPE & EVENHUIS 2013
- Xylota nursei*** Brunetti, 1923
 TL: Shimla (India: Himachal Pradesh). TD: BMNH
 D: India (Himachal Pradesh, West Bengal)
 R: BRUNETTI 1923, KNUTSON *et al.* 1975, MITRA *et al.* 2008, PAPE & EVENHUIS 2013