



Fauna of India Checklist

A CHECKLIST OF ODONATA (INSECTA) OF INDIA

K. A. Subramanian & R. Babu

(As updated on 25-09-2017)



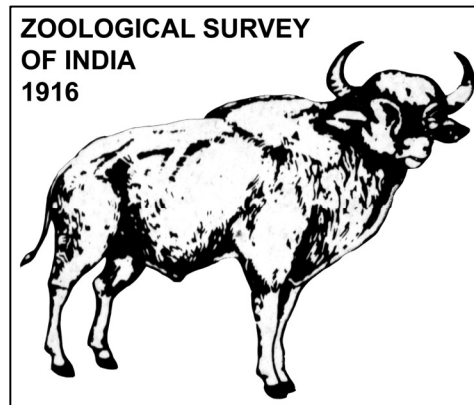
Euphaea cardinalis (Fraser, 1924)

Zoological Survey of India

Prani Vigyan Bhawan, M-Block, New Alipore, Kolkata- 700 053

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Cover Photo: *Euphaea cardinalis* (Fraser, 1924) from Palani Hills, Tamil Nadu. Endemic to southern Western Ghats. Photo: K.A. Subramanian

Table of Contents

1. Abstract	01
2. Brief History of Indian Odonatology	01
3. Diversity of Odonata	03
4. Distribution	04
5. Threats	05
6. Conservation and Human Significance	06
7. Classification of Odonata of India	07
8. List of genera	08
9. Species Checklist	12
10. Changes in nomenclature	37
11. Taxa additions	40
12. Taxa deletions	41
13. <i>Species inquirenda</i>	41
14. Acknowledgment	42
15. References	42

Checklist of Odonata (Insecta) of India

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Abstract

Dragonflies and Damselflies (Insecta: Odonata) are key components of wetland ecosystem. Odonata of India is represented by 488 species and 27 subspecies in 154 genera and 18 families. The Suborder Zygoptera comprise of 211 species under 59 genera and 9 families; Anisozygoptera one species under one genera and one family; Anisoptera 276 species under 94 genera and 8 families. One species in Zygoptera is considered as *incertae sedis*. High diversity and endemism is found in the hill streams and rivers of Western Ghats and eastern Himalaya. The taxonomy of adult is well worked out, however the descriptions of larva and their ecology remains as a major gap area, especially for several elusive hill stream breeding species. Geographically, the central India, eastern ghats, eastern Himalaya and Andaman Nicobar islands remains under explored where new species and records are still awaiting formal scientific description. In the current checklist, with reference to Version 2.0 (2014), there are 58 nomenclatural changes, 30 new additions, 10 deletions and 7 species are kept under doubtful status.

Key Words: Aquatic insects, dragonflies, damselflies, diversity, India.

Brief History of Indian Odonatology

Pre-1900: Dragonflies are commonly mentioned in folklores and stories from time immemorial in different Indian cultures. In fact, in the dry plains of southern India, it is widely believed among farmers and common people that the swarms of *Pantala flavescens* are harbingers of rains. The first scientific descriptions available on odonates found in India are that of *Neurobasis chinensis* Linnaeus (1758), *Aeshna juncea* (Linnaeus, 1758), *Libellula quadrimaculata* Linnaeus, 1758, *Orthetrum cancellatum* (Linnaeus, 1758) and *Sympetrum vulgatum* (Linnaeus, 1758). These species descriptions were based on specimens collected beyond the biogeographic boundaries of Indian subcontinent. However, *Rhyothemis variegata* (Linnaeus, 1763) was the first dragonfly to be described scientifically based on specimens from India. During 18th century, Drury (1770, 1773) and Fabricius (1775-1798) described many species from India. Numerous species were described by Selys-Longschamps (1840-1891) and Rambur (1842).

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1901-1947: After Selys, Laidlaw (1914 - 1932) and Fraser (1918-1953) contributed significantly to the knowledge on Indian Odonata. In addition workers like Williamson, (1904, 1907) and Ris (1909a,b, 1910, 1913) also worked on Indian Odonata. Between 1918 and 1935 Fraser published a series of papers in *Records of Indian Museum*, *Memoires of Indian Museum* and *Journal of Bombay Natural History Society* which was eventually compiled into three volumes of *Fauna of British India-Odonata* (Fraser, 1933-1936). These volumes still remain as a basic reference source for identification of Indian Odonata. Fraser (1938-1953) added some more species to the fauna. The studies by Laidlaw were mostly confined to some families of dragonflies and damselflies. Both Fraser and Laidlaw restricted their studies mostly in Western Ghats and Eastern Himalaya. A significant contribution to Indian Odonatology during this period was the discovery of Anisozygoptera species, *Epiophlebia laidlawi* by Tillyard (1921) from Darjeeling. Other significant worker during this period was Needham (1930, 1932).

1948 to 2017: Immediately after independence, workers like Bhasin (1953), Singh and Baijal (1954), Baijal (1955), Singh *et al.* (1955), Singh (1955, 1963), Sahni (1964) contributed to the knowledge on Indian Odonata. The several new species descriptions of Sahni, Singh and Baijal from the Himalaya were later found to be synonyms of widespread common species by subsequent workers. Asahina (1958-1995) conducted several studies on odonates from western and eastern Himalaya and described several new taxa. During this period Lieftinck (1960, 1964, 1968, 1971, 1984) also significantly contributed to the Indian Odonata. After this period, the focus was on to survey unexplored and underexplored areas of the country. The scientists of Zoological Survey of India (ZSI) surveyed many conservation areas, wetlands and states to document the odonate fauna. In Zoological Survey of India, scientists viz., Kumar, Lahiri, Mitra, Prasad, Singh, Sinha, Srivastava, Ram, Kulkarni, Radhakrishnan, Emiliyamma, Babu, Gaurav Sharma, Supriya Nandy, Subramanian, Jaffer and Talmale published fauna of many states and conservation areas (Babu and Srinivasan, 2016; Babu *et al.*, 2013; Emiliyamma and Palot, 2016; Emiliyamma *et al.*, 2007; Kumar and Prasad, 1978, 1981; Lahiri, 1977, 1979; Mitra, 2002a,b, 2003; Mitra and Babu, 2010; Mitra *et al.*, 2013; Nair and Subramanian, 2014; Prasad, 1996a,b, 2001; Prasad and Varshney, 1988, 1995; Ram *et al.*, 2000; Subramanian, 2009ab, 2012, 2014; Subramanian *et al.*, 2013). The contributions on Odonata of eastern India by Mitra and Lahiri are worth special mentioning (Lahiri, 1987, 2003; Lahiri *et al.*, 2007; Mitra, 2002b). They also described several new species and new records from Eastern India. Hämäläinen (1989, 2002, 2011, 2013), Hämäläinen *et al.* (1999) and Yeh and Veenakumari (2000) contributed significantly to the knowledge on Indian Odonata. Recently, researchers from other organizations such as Ashish Tiple, David Raju, Kiran, Krushnamegh Kunte, Pankaj Khorpade, Parag Rangnaker, Raymond Andrew, Shantanu Joshi and others has contributed to the growth of knowledge on Indian Odonata diversity (Joshi and Kunte, 2014, 2017; Joshi *et al.*, 2016, 2017; Kiran *et al.*, 2015). Prof. Tembhare and his student Prof. Raymond Andrew at Hislop College, Nagpur studied endocrine system, reproductive anatomy, behaviour and Odonata fauna of

Checklist of Odonata (Insecta) of India, Version 3.0 (2017)

Central India. Dr. G. K. Walia and her students from Punjabi University, Patiala made substantial progress to the cytogenetics of Indian odonates.

Diversity of Odonata

Globally 6256 species in 686 genera of odonates are known of this, 487 species, and 27 subspecies in 152 genera and 18 families exist in India. Extant Odonata is broadly divided into three suborders the Zygoptera or damselflies, Anisozygoptera and the Anisoptera or dragonflies. The Anisozygoptera with three relict species was earlier recognized as a third suborder of Odonata. However, recent studies groups Anisozygoptera with Anisoptera and some authors bring them together under a new name Epiprocta (Anisoptera + Anisozygoptera) (Trueman, 1996, 2007; Lohmann, 1996; Rehn, 2003; Kalkaman *et al.*, 2008). An over view of extant global, Oriental and Indian Odonata diversity is provided in table-1 (Schorr and Paulson, 2017).

Table-1: Odonata Species Diversity

Suborder	Family	World		India	
		Genera	Species	Genera	Species
Zygoptera	Hemiphlebiidae#	1	1	0	0
	Perilestidae#	2	19	0	0
	Synlestidae	9	38	1	6
	Lestidae	9	153	5	25
	Platystictidae	9	262	3	15
	Amphipterygidae#	1	5	0	0
	Argiolestidae#	20	114	0	0
	Calopterygidae	21	180	6	9
	Chlorocyphidae	20	156	8	22
	Devadattidae#	1	13	0	0
	Dicteriadidae#	2	2	0	0
	Euphaeidae	9	75	6	19
	Heteragrionidae#	2	56	0	0
	Hypolestidae#	1	3	0	0
	Lestoideidae#	2	9	0	0
	Megapodagrioniidae#	3	29	0	0
	Pentaplebiidae#	1	3	0	0
	Philogangidae	1	4	1	1
Philogeniidae#	2	40	0	0	
Philosinidae#	2	12	0	0	

Checklist of Odonata (Insecta) of India, Version 3.0 (2017)

	Polythoridae#	7	60	0	0
	Pseudolestidae#	1	1	0	0
	Rimanellidae#	1	1	0	0
	Thaumatoneuridae#	2	5	0	0
	Isostictidae#	12	45	0	0
	Platycnemididae	43	455	15	53
	Coenagrionidae	121	1351	12	60
	Genera <i>Incertae sedis</i>	14	71	1	1
Anisozygoptera	Epiophlebiidae	1	3	1	1
Anisoptera	Austropetaliidae#	4	11	0	0
	Aeshnidae	54	480	13	49
	Petaluridae#	5	11	0	0
	Gomphidae	101	1010	29	85
	Chlorogomphidae	3	52	3	8
	Cordulegastridae	3	55	3	9
	Neopetaliidae#	1	1	0	0
	Synthemistidae	26	147	2	15
	Macromiidae	4	123	2	17
	Corduliidae	21	165	2	2
	Libellulidae	144	1035	40	91
Total Diversity		686	6256	152	487

Distribution

Diversity: Though 487 species and 27 subspecies of Odonata are found in India, high diversity and endemism is restricted to southern Western Ghats, Eastern Himalaya, Western Himalaya and Andaman and Nicobar islands. Western Ghats and Eastern Himalaya have 191 and 256 species respectively. High diversity is found in hill streams, and forested riverine habitats and most of the endemic species are restricted to this habitat. Habitats like ponds, lakes, coastal marshes, irrigation canals and paddy fields have common and wide spread species (Mitra *et al.*, 2010; Subramanian, 2009, 2012; Subramanian *et al.*, 2011).

Endemism: One hundred and eighty six taxa, including subspecies belonging to 69 genera are endemic to India (Babu *et al.*, 2013; Subramanian, 2007; Subramanian and Babu, 2017). Highest endemism is found in Western Ghats and Sri Lanka. Within Western Ghats, high endemism is found in mountains south of Coorg in Karnataka. Here, the streams and rivers of Coorg, Wayanad, Nilgiris, Anamalai's, Cardamom Hills and Agasthyamalai are rich in endemic species.

Checklist of Odonata (Insecta) of India, Version 3.0 (2017)

High endemism is found in family Gomphidae and genera such as *Protosticta*, *Macromia* and *Idionyx*. In the Eastern Himalaya, high endemism is found in Khasi Hills, and Darjeeling-Sikkim Himalaya. Species of Platycnemididae and Gomphidae are highly diversified here with many endemics (Babu *et al.*, 2013; Mitra, 2002a; Subramanian, 2007). The Distribution of endemic species across different regions of India is provided in Table 2.

Table 2. Distribution of Endemic Species

Superfamily	Family	Eastern Himalaya	Western Himalaya	Western Ghats	Andaman & Nicobar	Peninsular India
Coenagrionoidea	Coenagrionidae	4	3	6	1	5
	Platycnemididae	10	1	14	2	7
Platystictoidea	Platystictidae	2	1	12	1	-
Lestoidea	Lestidae	4	-	2	-	1
	Synlestidae	2	-	-	-	-
Calopterygoidea	Calopterygidae	2	-	2	-	1
	Chlorocyphidae	3	-	2	3	1
	Euphaeidae	6	-	4	-	1
	Genera <i>incertae sedis</i>	1	-	-	-	-
Aeshnoidea	Aeshnidae	11	1	-	2	3
Gomphoidea	Gomphidae	17	4	28	2	7
Cordulegasteroidea	Chlorogomphidae	3	-	2	-	-
	Cordulegasteridae	-	1	-	-	-
	Corduliidae	1	-	-	-	-
Libelluloidea	Macromiidae	2	1	8	-	2
	Synthemistidae	3	-	12	-	-
	Libellulidae	3	2	2	-	-

Threats: Recent studies conducted in Eastern Himalaya and Peninsular India demonstrate that odonate fauna of the subcontinent is threatened due to anthropogenic activities such as habitat destruction, agricultural expansion, pesticide and industrial pollution. Current IUCN Redlist Assessment (2016) categorizes two Endangered, fifteen Vulnerable and eight Near Threatened species from India (Table 3).

Table 3. IUCN Threat Status of Indian Odonata (Version 2016-3)

Sl. No.	Species	IUCN Status
1	<i>Idionyx galeata</i>	Endangered
2	<i>Libellago balus</i>	Endangered
3	<i>Anormogomphus kiritshenkoi</i>	Near Threatened
4	<i>Asiagomphus personatus</i>	Near Threatened
5	<i>Elatoneura atkinsoni</i>	Near Threatened
6	<i>Epiophlebia laidlawi</i>	Near Threatened
7	<i>Heliogomphus promelas</i>	Near Threatened
8	<i>Idionyx optata</i>	Near Threatened
9	<i>Indocypha vittata</i>	Near Threatened
10	<i>Indolestes indicus</i>	Near Threatened
11	<i>Indothemis carnatica</i>	Near Threatened
12	<i>Megalogomphus hannyingtoni</i>	Near Threatened
13	<i>Melanoneura bilineata</i>	Near Threatened
14	<i>Merogomphus martini</i>	Near Threatened
15	<i>Neallogaster ornata</i>	Near Threatened
16	<i>Phylloneura westermanni</i>	Near Threatened
17	<i>Planaeschna intercedens</i>	Near Threatened
18	<i>Bayadera hyalina</i>	Vulnerable
19	<i>Chlorogomphus xanthoptera</i>	Vulnerable
20	<i>Chloropetalia selysi</i>	Vulnerable
21	<i>Coeliccia fraseri</i>	Vulnerable
22	<i>Disparoneura apicalis</i>	Vulnerable
23	<i>Libellago andamanensis</i>	Vulnerable
24	<i>Platysticta deccanensis</i>	Vulnerable
25	<i>Protosticta sanguinostigma</i>	Vulnerable

Conservation and Human Significance

Odonates are a dominant group of aquatic insects. They are one of the dominant invertebrate predators in the wetland ecosystem. Being predators both at larval and adult stages, they have a significant role in the wetland food chain. Adult odonates feed on mosquitoes, blackflies and other blood-sucking flies and act as an important biocontrol agent for these harmful insects. Many species of odonates inhabiting in agro ecosystems play a crucial role in controlling pest populations.

In addition to the role of odonates in ecosystem function, their value as indicators of quality of the biotope is now being increasingly recognised. Recent studies have shown how species assemblages of dragonflies change with levels of human disturbance. Dragonflies found at undisturbed habitats with good riparian vegetation were specialists with narrow distribution. On the other hand, species recorded at industrial land or urban areas with disturbed riparian vegetation were generalists with wide habitat preference and distribution. These studies also show that dragonflies are sensitive not only to the quality of the wetland but also to the major landscape changes, especially changes in the riparian zone.

Classification of Odonata of India

Order **Odonata** Fabricius, 1793

Suborder **Zygoptera** Selys, 1854

Superfamily **Lestoidea** Calvert, 1901

I. Family **Lestidae** Calvert, 1901

II. Family **Synlestidae** Tillyard, 1917

Superfamily **Platystictoidea** Kennedy, 1920

III. Family **Platystictidae** Kennedy, 1920

Superfamily **Calopterygoidea** Selys, 1850

IV. Family **Calopterygidae** Selys, 1850

V. Family **Chlorocyphidae** Cowley, 1937

VI. Family **Euphaeidae** Jakobson & Bainchi, 1905

VII. Family **Philogangidae** Kennedy, 1920

Superfamily **Coenagrionoidea** Kirby, 1890

VIII. Family **Coenagrionidae** Kirby, 1890

IX. Family **Platycnemididae** Jakobson & Bainchi, 1905

Genera *Incertae sedis*

Suborder **Anisozygoptera** Handlirsch, 1906

Superfamily **Epiophlebioidea** Muttkowski, 1910

X. Family **Epiophlebiidae** Muttkowski, 1910

Suborder **Anisoptera** Selys, 1854

Superfamily **Aeshnoidea** Leach, 1815

XI. Family **Aeshnidae** Leach, 1815

Superfamily **Gomphoidea** Rambur, 1842

XII. Family **Gomphidae** Rambur, 1842

Superfamily **Cordulegastroidea** Needham, 1903

XIII. Family **Chlorogomphidae** Needham, 1903

XIV. Family **Cordulegastridae** Hagen, 1875

Superfamily **Libelluloidea** Leach, 1815

XV. Family **Corduliidae** Selys, 1850

- XVI. Family **Libellulidae** Leach, 1815
XVII. Family **Macromiidae** Needham, 1903
XVIII. Family **Synthemistidae** Tillyard, 1917

1. List of genera

ZYGOPTERA

1. *Aciagrion* Selys, 1891
2. *Agriocnemis* Selys, 1877
3. *Amphiallagma* Kennedy, 1920
4. *Anisopleura* Selys, 1853
5. *Archibasis* Kirby, 1890
6. *Argiocnemis* Selys, 1877
7. *Aristocypha* Laidlaw, 1950
8. *Bayadera* Selys, 1853
9. *Burmargiolestes* Kennedy, 1925
10. *Caconeura* Kirby, 1890
11. *Calicnemia* Strand, 1928
12. *Caliphaea* Hagen in Selys, 1853
13. *Calocypha* Fraser, 1928
14. *Ceriagrion* Selys, 1876
15. *Coeliccia* Kirby, 1890
16. *Coenagrion* Kirby, 1890*
17. *Copera* Kirby, 1890
18. *Disparoneura* Selys, 1860
19. *Drepanosticta* Laidlaw, 1917
20. *Dysphaea* Selys, 1853
21. *Echo* Selys, 1853
22. *Elattoneura* Cowley, 1935
23. *Enallagma* Charpentier, 1840
24. *Epallage* Charpentier, 1840
25. *Esme* Fraser, 1922
26. *Euphaea* Selys, 1840
27. *Heliocypha* Fraser, 1949
28. *Heterocypha* Laidlaw, 1950
29. *Himalagrion* Fraser, 1919
30. *Indocnemis* Laidlaw, 1917
31. *Indocypha* Fraser, 1949
32. *Indolestes* Fraser, 1922

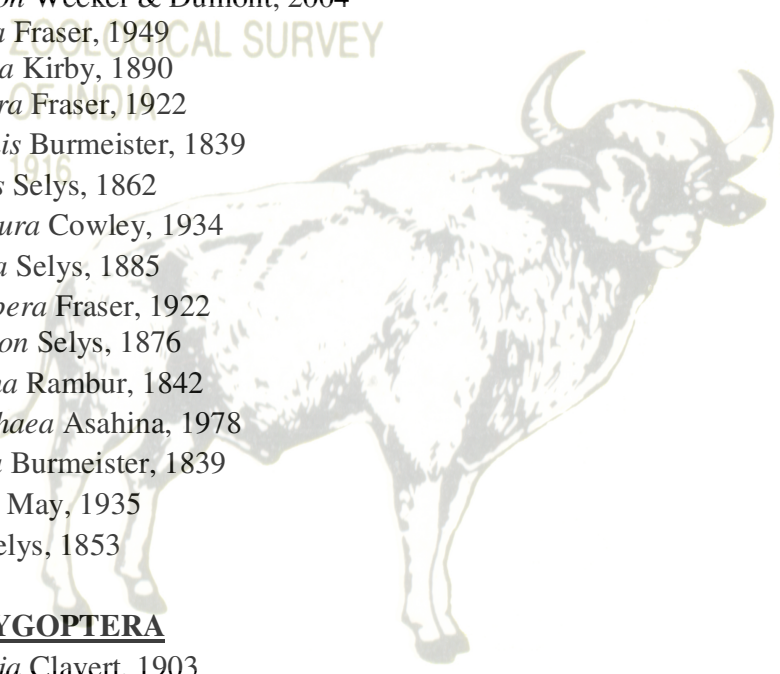
33. *Indosticta* Bedjanic, 2016
34. *Ischnura* Charpentier, 1840
35. *Lestes* Leach, 1815
36. *Libellago* Selys, 1840
37. *Matrona* Selys, 1853
38. *Megalestes* Selys, 1862
39. *Melanoneura* Fraser, 1922
40. *Mortonagrion* Fraser, 1920
41. *Neurobasis* Selys, 1853
42. *Nososticta* Hagen, 1860
43. *Onychargia* Selys, 1865
44. *Orolestes* McLachlan, 1895
45. *Paracercion* Weeker & Dumont, 2004
46. *Paracypha* Fraser, 1949
47. *Philoganga* Kirby, 1890
48. *Phylloneura* Fraser, 1922
49. *Platycnemis* Burmeister, 1839
50. *Platylestes* Selys, 1862
51. *Prodasineura* Cowley, 1934
52. *Protosticta* Selys, 1885
53. *Pseudocopera* Fraser, 1922
54. *Pseudagrion* Selys, 1876
55. *Rhinocypha* Rambur, 1842
56. *Schmidtiphaea* Asahina, 1978
57. *Sympecma* Burmeister, 1839
58. *Vestalaria* May, 1935
59. *Vestalis* Selys, 1853

ANISOZYGOPTERA

60. *Epiophlebia* Clavert, 1903

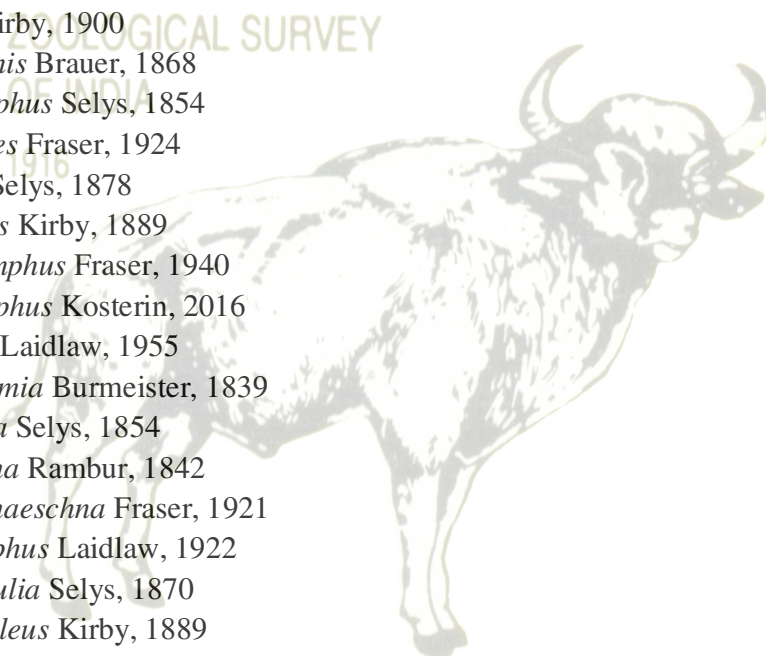
ANISOPTERA

61. *Acisoma* Rambur, 1842
62. *Acrogomphus* Laidlaw, 1925
63. *Aeshna* Fabricius, 1775
64. *Aethriamanta* Kirby, 1889
65. *Agrionoptera* Brauer, 1864
66. *Amphithemis* Selys, 1891
67. *Anaciaeschna* Selys, 1878
68. *Anax* Leach, 1815
69. *Anisogomphus* Selys, 1857



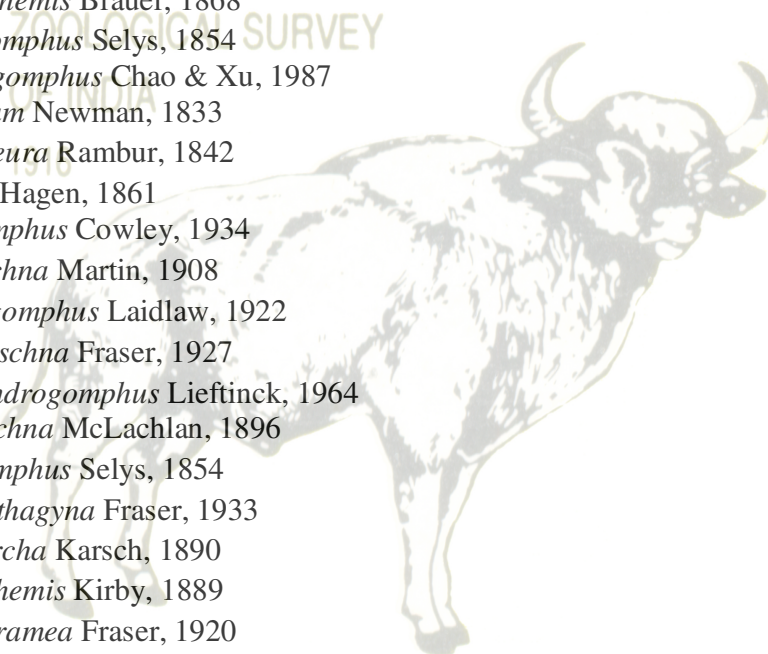
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70. *Anormogomphus* Selys, 1854
71. *Anotogaster* Selys, 1854
72. *Asiagomphus* Asahina, 1984
73. *Brachydiplax* Brauer, 1868
74. *Brachythemis* Brauer, 1868
75. *Bradinopyga* Kirby, 1893
76. *Burmagomphus* Williamson, 1907
77. *Camacinia* Kirby, 1889
78. *Cephalaeschna* Selys, 1883
79. *Chlorogomphus* Selys, 1854
80. *Chloropetalia* Carle, 1995
81. *Cordulegaster* Leach, 1815
82. *Cratilla* Kirby, 1900
83. *Crocothemis* Brauer, 1868
84. *Cyclogomphus* Selys, 1854
85. *Davidioides* Fraser, 1924
86. *Davidius* Selys, 1878
87. *Diplacodes* Kirby, 1889
88. *Dubitogomphus* Fraser, 1940
89. *Euthygomphus* Kosterin, 2016
90. *Epithemis* Laidlaw, 1955
91. *Epophthalmia* Burmeister, 1839
92. *Gomphidia* Selys, 1854
93. *Gynacantha* Rambur, 1842
94. *Gynacanthaeschna* Fraser, 1921
95. *Heliogomphus* Laidlaw, 1922
96. *Hemicordulia* Selys, 1870
97. *Hydrobasileus* Kirby, 1889
98. *Hylaeothemis* Ris, 1909
99. *Ictinogomphus* Cowley, 1934
100. *Idionyx* Hagen, 1867
101. *Indothemis* Ris, 1909
102. *Lathrecista* Kirby, 1889
103. *Lamelligomphus* Fraser, 1922
104. *Libellula* Linnaeus, 1758
105. *Lyriothemis* Brauer, 1868
106. *Macrodiplax* Brauer, 1868
107. *Macrogomphus* Selys, 1857
108. *Macromia* Rambur, 1842



Checklist of Odonata (Insecta) of India, Version 3.0 (2017)

109. *Macromidia* Martin, 1907
110. *Megalogomphus* Campion, 1923
111. *Merogomphus* Martin, 1904
112. *Microgomphus* Selys, 1858
113. *Nannophya* Rambur, 1842
114. *Neallogaster* Cowley, 1934
115. *Nepogomphus* Fraser, 1934
116. *Nesoxenia* Kirby, 1889
117. *Neurothemis* Brauer, 1867
118. *Nychogomphus* Carle, 1986
119. *Oligoaeschna* Selys, 1889
120. *Onychogomphus* Selys, 1854
121. *Onychothemis* Brauer, 1868
122. *Ophiogomphus* Selys, 1854
123. *Orientogomphus* Chao & Xu, 1987
124. *Orthetrum* Newman, 1833
125. *Palpopleura* Rambur, 1842
126. *Pantala* Hagen, 1861
127. *Paragomphus* Cowley, 1934
128. *Periaeschna* Martin, 1908
129. *Perissogomphus* Laidlaw, 1922
130. *Petaliaeschna* Fraser, 1927
131. *Phaenandrogomphus* Lieftinck, 1964
132. *Planaeschna* McLachlan, 1896
133. *Platygomphus* Selys, 1854
134. *Polycanthagyna* Fraser, 1933
135. *Potamarcha* Karsch, 1890
136. *Pseudothemis* Kirby, 1889
137. *Pseudotrimea* Fraser, 1920
138. *Rhodothemis* Ris, 1909
139. *Rhyothemis* Hagen, 1867
140. *Sarasaeschna* Karube & Yeh, 2001
141. *Scalmogomphus* Chao, 1990
142. *Selysiothemis* Ris, 1897
143. *Somatochlora* Selys, 1871
144. *Stylogomphus* Fraser, 1922
145. *Sympetrum* Newman, 1833
146. *Tetracanthagyna* Selys, 1883
147. *Tetrathemis* Brauer, 1868
148. *Tholymis* Hagen, 1867



149. *Tramea* Hagen, 1861
150. *Trithemis* Brauer, 1868
151. *Urothemis* Brauer, 1868
152. *Watanabeopetalia* Karube, 2002
153. *Zygonyx* Hagen, 1867
154. *Zyxomma* Rambur, 1842

*: Distribution of this genus in India is doubtful

2. Species Checklist

Order Odonata Fabricius, 1793

Suborder Zygoptera Selys, 1854

Superfamily Lestoidea Calvert, 1901

I. Family: Lestidae Calvert, 1907

1. *Indolestes* Fraser, 1922

1. *Indolestes assamicus* Fraser, 1930
2. *Indolestes birmanus* (Selys, 1891)
3. *Indolestes cyaneus* (Selys, 1862)
4. *Indolestes davenporti* (Fraser, 1930)
5. *Indolestes gracilis* (Hagen in Selys, 1862)
6. *Indolestes indicus* Fraser, 1922
7. *Indolestes pulcherrimus* (Fraser, 1924)
8. *Indolestes tenuissimus* (Tillyard, 1906)

2. *Lestes* Leach, 1815

9. *Lestes barbarus* (Fabricius, 1798)
10. *Lestes concinnus* Hagen in Selys, 1862
11. *Lestes dorothea* Fraser, 1924
12. *Lestes elatus* Hagen in Selys, 1862
13. *Lestes garoensis* Lahiri, 1987
14. *Lestes malabaricus* Fraser, 1929
15. *Lestes nigriceps* Fraser, 1924

16. *Lestes nodalis* Selys, 1891
17. *Lestes patricia* Fraser, 1924
18. *Lestes praemorsus* Hagen in Selys, 1862
 L. praemorsus sikkima Fraser, 1929
 L. praemorsus decipiens Kirby, 1893
19. *Lestes thoracicus* Laidlaw, 1920
20. *Lestes umbrinus* Selys, 1891
21. *Lestes viridulus* Rambur, 1842
3. ***Orolestes*** McLachlan, 1895
 22. *Orolestes durga* Lahiri, 1987
 23. *Orolestes selysi* McLachlan, 1895
4. ***Platylestes*** Selys, 1862
 24. *Platylestes platystylus* (Rambur, 1842)
5. ***Sympecma*** Burmeister, 1839
 25. *Sympecma paedisca* (Brauer, 1877)

II. Family: Synlestidae Tillyard, 1917

6. ***Megalestes*** Selys, 1862
 26. *Megalestes irma* Fraser, 1926
 27. *Megalestes kurahashii* Asahina, 1985
 28. *Megalestes lieftincki* Lahiri, 1979
 29. *Megaleste major* Selys, 1862
 30. *Megalestes micans* Needham, 1930
 31. *Megalestes raychoudhunii* Lahiri, 1987

Superfamily Platystictoidea Kennedy, 1920

III. Family: Platystictidae Kennedy, 1920

7. ***Drepanosticta*** Laidlaw, 1917
 32. *Drepanosticta annandalei* Fraser, 1924

33. *Drepanosticta carmichaeli* (Laidlaw, 1915)

34. *Drepanosticta polychromatica* Fraser, 1931

8. *Indosticta* Bedjanic, 2016

35. *Indosticta deccanensis* (Laidlaw, 1915)

9. *Protosticta* Selys, 1885

36. *Protosticta antelopoides* Fraser, 1931

37. *Protosticta damacornu* Terzani and Carletti, 1998

38. *Protosticta davenporti* Fraser, 1931

39. *Protosticta fraseri* Kennedy, 1936

40. *Protosticta gravelyi* Laidlaw, 1915

41. *Protosticta hearseyi* Fraser, 1922

42. *Protosticta himalaica* Laidlaw, 1917

43. *Protosticta monticola* Emiliyamma & Palot, 2016

44. *Protosticta ponmudiensis* Kiran, Kalesh & Kunte, 2015

45. *Protosticta rufostigma* Kimmins, 1958

46. *Protosticta sanguinostigma* Fraser, 1922

Superfamily Calopterygoidea Selys, 1850

IV. Family: Calopterygidae Selys, 1850

10. *Caliphaea* Hagen in Selys, 1853

47. *Caliphaea confusa* Hagen in Selys, 1859

11. *Echo* Selys, 1853

48. *Echo margarita* Selys, 1853

12. *Matrona* Selys, 1853

49. *Matrona basilaris* Selys, 1853

50. *Matrona nigripectus* Selys, 1879

13. *Neurobasis* Selys, 1853

51. *Neurobasis chinensis* (Linnaeus, 1758)

14. *Vestalaria* May, 1935

52. *Vestalaria smaragdina* (Selys, 1879)

15. ***Vestalis*** Selys, 1853

53. *Vestalis apicalis* Selys, 1873

54. *Vestalis gracilis* (Rambur, 1842)

55. *Vestalis submontana* Fraser, 1934

V. Family: Chlorocyphidae Cowley, 1937

16. ***Aristocypha*** Laidlaw, 1950

56. *Aristocypha cuneata* (Selys, 1853)

57. *Aristocypha fenestrella* (Rambur, 1842)

58. *Aristocypha hilaryae* (Fraser, 1927)

59. *Aristocypha immaculata* (Selys, 1879)

60. *Aristocypha quadrimaculata* (Selys, 1853)

61. *Aristocypha spuria* (Selys, 1879)

62. *Aristocypha trifasciata* (Selys, 1853)

17. ***Calocypha*** Fraser, 1928

63. *Calocypha laidlawi* (Fraser, 1924)

18. ***Heliocypha*** Fraser, 1949

64. *Heliocypha biforata* (Selys, 1859)

65. *Heliocypha bisignata* (Hagen in Selys, 1853)

66. *Heliocypha perforata* (Percheron, 1835)

19. ***Heterocypha*** Laidlaw, 1950

67. *Heterocypha vitrinella* (Fraser, 1935)

20. ***Indocypha*** Fraser, 1949

68. *Indocypha vittata* (Selys, 1891)

21. ***Libellago*** Selys, 1840

69. *Libellago andamanensis* (Fraser, 1924)

70. *Libellago aurantiaca* (Selys, 1859)

71. *Libellago balus* Hämäläinen, 2002

72. *Libellago blanda* (Hagen in Selys, 1853)
73. *Libellago indica* (Fraser, 1928)
74. *Libellago lineata* (Burmeister, 1839)
22. ***Paracypha*** Fraser, 1949
75. *Paracypha unimaculata* (Selys, 1853)
23. ***Rhinocypha*** Rambur, 1842
76. *Rhinocypha ignipennis* Selys, 1879
77. *Rhinocypha trimaculata* Selys, 1853

VI. Family: Euphaeidae Jakobson & Bainchi, 1905

24. ***Anisopleura*** Selys, 1853
78. *Anisopleura comes* Hagen, 1880
79. *Anisopleura lestoides* Selys, 1853
80. *Anisopleura subplatystyla* Fraser, 1927
81. *Anisopleura vallei* St. Quentin, 1937
25. ***Bayadera*** Selys, 1853
82. *Bayadera hyalina* Selys, 1879
83. *Bayadera indica* (Selys, 1853)
84. *Bayadera kali* Cowley, 1936
85. *Bayadera longicauda* Fraser, 1928
26. ***Dysphaea*** Selys, 1853
86. *Dysphaea ethela* Fraser, 1924
87. *Dysphaea walli* Fraser, 1927
88. *Dysphaea gloriosa* Fraser, 1938
27. ***Epallage*** Charpentier, 1840
89. *Epallage fatime* (Charpentier, 1840)
28. ***Euphaea*** Selys, 1840
90. *Euphaea cardinalis* (Fraser, 1924)
91. *Euphaea dispar* (Rambur, 1842)
92. *Euphaea fraseri* (Laidlaw, 1920)

93. *Euphaea masoni* Selys, 1879
94. *Euphaea ochracea* Selys, 1859
29. *Schmidtiphaea* Asahina, 1978
95. *Schmidtiphaea chittaranjani* (Lahiri, 2003)
96. *Schmidtiphaea schmidi* Asahina, 1978

VII. Family: Philogangidae Kennedy, 1920

30. *Philoganga* Kirby, 1890
97. *Philoganga montana* (Hagen in Selys, 1859)

Superfamily Coenagrionoidea Kirby, 1890

VIII. Family: Coenagrionidae Kirby, 1890

31. *Aciagrion* Selys, 1891
98. *Aciagrion approximans* (Selys, 1876)
Aciagrion approximans krishna Fraser, 1921
99. *Aciagrion azureum* Fraser, 1922
100. *Aciagrion borneense* Ris, 1911
101. *Aciagrion occidentale* Laidlaw, 1919
102. *Aciagrion olympicum* Laidlaw, 1919
103. *Aciagrion pallidum* Selys, 1891
32. *Agriocnemis* Selys, 1877
104. *Agriocnemis clauseni* Fraser, 1922
105. *Agriocnemis corbeti* Kumar & Prasad, 1978
106. *Agriocnemis dabreui* Fraser, 1919
107. *Agriocnemis femina* (Brauer, 1868)
108. *Agriocnemis kalinga* Nair & Subramanian, 2014
109. *Agriocnemis keralensis* Peters, 1981
110. *Agriocnemis lacteola* Selys, 1877
111. *Agriocnemis nana* (Laidlaw, 1914)

112. *Agriocnemis pieris* Laidlaw, 1919
113. *Agriocnemis pygmaea* (Rambur, 1842)
114. *Agriocnemis splendidissima* Laidlaw, 1919
33. ***Amphiallagma*** Kennedy, 1920
115. *Amphiallagma parvum* (Selys, 1876)
34. ***Archibasis*** Kirby, 1890
116. *Archibasis oscillans* (Selys, 1877)
35. ***Argiocnemis*** Selys, 1877
117. *Argiocnemis rubescens* Selys, 1877
36. ***Ceriagrion*** Selys, 1876
118. *Ceriagrion aeruginosum* (Brauer, 1869)
119. *Ceriagrion auranticum* Fraser, 1922
120. *Ceriagrion azureum* (Selys, 1891)
121. *Ceriagrion cerinorubellum* (Brauer, 1865)
122. *Ceriagrion coeruleum* Laidlaw, 1919
123. *Ceriagrion coromandelianum* (Fabricius, 1798)
124. *Ceriagrion fallax* Ris, 1914
C. fallax pendleburyi Laidlaw, 1931
125. *Ceriagrion olivaceum* Laidlaw, 1914
C. olivaceum aurantiacum Fraser, 1924
126. *Ceriagrion pratermissum* Lieftinck, 1929
- 127. *Ceriagrion rubiae* Laidlaw, 1916
38. ***Enallagma*** Charpentier, 1840
128. *Enallagma cyathigerum* (Charpentier, 1840)
129. *Enallagma insula* Fraser, 1920
39. ***Himalagrion*** Fraser, 1919
130. *Himalagrion exclamationis* Fraser, 1919
40. ***Ischnura*** Charpentier, 1840
131. *Ischnura aurora* (Brauer, 1865)

132. *Ischnura elegans* (Vander Linden, 1820)
133. *Ischnura forcipata* Morton, 1907
134. *Ischnura inarmata* Calvert, 1898
135. *Ischnura nursei* Morton, 1907
136. *Ischnura pumilio* (Charpentier, 1825)
137. *Ischnura rubilio* Selys, 1876
138. *Ischnura rufostigma* Selys, 1876
139. *Ischnura senegalensis* (Rambur, 1842)
41. **Mortonagrion** Fraser, 1920
140. *Mortonagrion aborense* (Laidlaw, 1914)
141. *Mortonagrion varralli* Fraser, 1920
42. **Paracercion** Weeker & Dumont, 2004
142. *Paracercion calamorum* (Ris, 1916)
143. *Paracercion malayanum* (Selys, 1876)
43. **Pseudagrion** Selys, 1876
144. *Pseudagrion andamanicum* Fraser, 1924
145. *Pseudagrion australasiae* Selys, 1876
146. *Pseudagrion bidentatum* Morton, 1907
147. *Pseudagrion decorum* (Rambur, 1842)
148. *Pseudagrion hypermelas* Selys, 1876
149. *Pseudagrion indicum* Fraser, 1924
150. *Pseudagrion laidlawi* Fraser, 1922
151. *Pseudagrion malabaricum* Fraser, 1924
152. *Pseudagrion microcephalum* (Rambur, 1842)
153. *Pseudagrion pilidorsum* (Brauer, 1868)
154. *Pseudagrion pruinosum* (Burmeister, 1839)
155. *Pseudagrion rubriceps* Selys, 1876
156. *Pseudagrion spencei* Fraser, 1922
157. *Pseudagrion williamsoni* Fraser, 1922

IX. Family: Platycnemididae Yakobson & Bainchi, 1905

44. *Caconeura* Kirby, 1890

158. *Caconeura gomphoides* (Rambur, 1842)

159. *Caconeura obscura* (Fraser, 1933)

160. *Caconeura ramburi* (Fraser, 1922)

161. *Caconeura risi* (Fraser, 1931)

162. *Caconeura t-coerulea* (Fraser, 1933)

45. *Calicnemia* Strand, 1928

163. *Calicnemia carminea* Lieftinck, 1984

164. *Calicnemia erythromelas* (Selys, 1891)

165. *Calicnemia eximia* (Selys, 1863)

166. *Calicnemia imitans* Lieftinck, 1948

167. *Calicnemia miles* (Laidlaw, 1917)

168. *Calicnemia miniata* (Selys, 1886)

169. *Calicnemia mortoni* (Laidlaw, 1917)

170. *Calicnemia mukherjeei* Lahiri, 1976

171. *Calicnemia pulverulans* (Selys, 1886)

172. *Calicnemia sudhaae* Mitra, 1994

46. *Coelicerca* Kirby, 1890

173. *Coelicerca bimaculata* Laidlaw, 1914

174. *Coelicerca didyma* (Selys, 1863)

175. *Coelicerca dorothea* Fraser, 1933

176. *Coelicerca fraseri* Laidlaw, 1932

177. *Coelicerca loogali* Fraser in Laidlaw, 1932

178. *Coelicerca prakritiae* Lahiri, 1985

179. *Coelicerca renifera* (Selys, 1886)

180. *Coelicerca rossi* Asahina, 1985

181. *Coelicerca rotundata* Asahina, 1984

182. *Coelicerca sarbottama* Lahiri, 1987

183. *Coelicerca schmidti* Asahina, 1984

Checklist of Odonata (Insecta) of India, Version 3.0 (2017)

184. *Coeliccia svihleri* Asahina, 1970
185. *Coeliccia vacca* Laidlaw, 1932
47. ***Copera*** Kirby, 1890
186. *Copera marginipes* (Rambur, 1842)
187. *Copera vittata* Selys, 1863
C. vittata assamensis Laidlaw, 1914
C. vittata deccanensis Laidlaw, 1917
48. ***Disparoneura*** Selys, 1860
188. *Disparoneura apicalis* (Fraser, 1924)
189. *Disparoneura quadrimaculata* (Rambur, 1842)
49. ***Elattoneura*** Cowley, 1935
190. *Elattoneura atkinsoni* (Selys, 1886)
191. *Elattoneura campioni* (Fraser, 1922)
E. campioni cacharensis (Fraser, 1933)
192. *Elattoneura coomansi* Lieftinck, 1937
193. *Elattoneura nigerrima* (Laidlaw, 1917)
194. *Elattoneura nihari* Mitra, 1995
195. *Elattoneura souteri* (Fraser, 1924)
196. *Elattoneura tetrica* (Laidlaw, 1917)
50. ***Esmé*** Fraser, 1922
197. *Esmé cyaneovittata* Fraser, 1922
198. *Esmé longistyla* Fraser, 1931
199. *Esmé mudiensis* Fraser, 1931
51. ***Indocnemis*** Laidlaw, 1917
200. *Indocnemis orang* (Förster in Laidlaw, 1907)
52. ***Melanoneura*** Fraser, 1922
201. *Melanoneura bilineata* Fraser, 1922
53. ***Nosoticta*** Hagen, 1860
202. *Nosoticta nicobarica* Rajeshkumar, Raghunathan & Chandra, 2017

54. *Onychargia* Selys, 1865
203. *Onychargia atrocyana* (Selys, 1865)
55. *Phylloneura* Fraser, 1922
204. *Phylloneura westermanni* (Hagen in Selys, 1860)
56. *Platycnemis* Burmeister, 1839
205. *Platycnemis dealbata* Selys in Selys & Hagen, 1850
57. *Prodasineura* Cowley, 1934
206. *Prodasineura autumnalis* (Fraser, 1922)
207. *Prodasineura odoneli* (Fraser, 1924)
208. *Prodasineura verticalis* (Selys, 1860)
P. verticalis andamanensis (Fraser, 1924)
P. verticalis burmanensis (Fraser, 1933)
58. *Pseudocopera* Fraser, 1922
209. *Pseudocopera ciliata* (Selys, 1863)
210. *Pseudocopera superplatypes* (Fraser, 1927)

Genera incertae sedis Group 1

59. *Burmargiolestes* Kennedy, 1925
211. *Burmargiolestes laidlawi* Lieftinck, 1960

Suborder Anisozygoptera Hanlirsch, 1906

Superfamily Epiophlebioidea Muttkowshi, 1910

X. Family: Epiophlebiidae Muttkowski, 1910

60. *Epiophlebia* Clavert, 1903
212. *Epiophlebia laidlawi* Tillyard, 1921

Suborder Anisoptera Selys, 1854

Superfamily Aeshnoidea Leach, 1815

XI. Family: Aeshnidae Leach, 1815

61. *Aeshna* Fabricius, 1775

Checklist of Odonata (Insecta) of India, Version 3.0 (2017)

213. *Aeshna juncea* (Linnaeus, 1758)
A. juncea mongolica Bartenef, 1929
214. *Aeshna mixta* Latreille, 1805
215. *Aeshna petalura* Martin, 1908
62. **Anaciaeschna** Selys, 1878
216. *Anaciaeschna donaldi* Fraser, 1922
217. *Anaciaeschna jaspidea* (Burmeister, 1839)
63. **Anax** Leach, 1815
218. *Anax ephippiger* (Burmeister, 1839)
219. *Anax guttatus* (Burmeister, 1839)
220. *Anax immaculifrons* Rambur, 1842
221. *Anax imperator* Leach, 1815
222. *Anax indicus* Lieftinck, 1942
223. *Anax nigrolineatus* Fraser, 1935
224. *Anax panybeus* Hagen, 1867
225. *Anax parthenope* (Selys, 1839)
64. **Cephalaeschna** Selys, 1883
226. *Cephalaeschna acutifrons* (Martin, 1909)
227. *Cephalaeschna acanthifrons* Joshi & Kunte, 2017
228. *Cephalaeschna klapperichi* Schmidt, 1961
229. *Cephalaeschna masoni* (Martin, 1909)
230. *Cephalaeschna orbifrons* Selys, 1883
231. *Cephalaeschna viridifrons* (Fraser, 1922)
65. **Gynacantha** Rambur, 1842
232. *Gynacantha albistyla* Fraser, 1927
233. *Gynacantha andamanae* Yeh & Veenakumari, 2000
234. *Gynacantha apicalis* Fraser, 1924
235. *Gynacantha arnaudi* Asahina, 1984
236. *Gynacantha bainbriggei* Fraser, 1922
237. *Gynacantha bayadera* Selys, 1891

Checklist of Odonata (Insecta) of India, Version 3.0 (2017)

238. *Gynacantha biharica* Fraser, 1927
239. *Gynacantha dravida* Lieftinck, 1960
240. *Gynacantha khasiaca* MacLachlan, 1896
241. *Gynacantha odoneli* Fraser, 1922
242. *Gynacantha palampurica* Lahiri & Walia, 2007
243. *Gynacantha rammohani* Mitra & Lahiri, 1975
244. *Gynacantha subinterrupta* Rambur, 1842
66. ***Gynacanthaeschna*** Fraser, 1921
245. *Gynacanthaeschna sikkima* (Karsch, 1891)
67. ***Oligoaeschna*** Selys, 1889
246. *Oligoaeschna andamani* Chhotani, Lahiri & Mitra, 1983
68. ***Periaeschna*** Martin, 1908
247. *Periaeschna flinti* Asahina, 1978
248. *Periaeschna lebasi* Navas, 1930
249. *Periaeschna magdalena* Martin, 1909
250. *Periaeschna nocturnalis* Fraser, 1927
251. *Periaeschna unifasciata* Fraser, 1935
69. ***Petaliaeschna*** Fraser, 1927
252. *Petaliaeschna fletcheri* Fraser, 1927
70. ***Planaeschna*** McLachlan, 1896
253. *Planaeschna intersedens* (Martin, 1909)
254. *Planaeschna poumai* Joshi & Kunte, 2017
71. ***Polycanthagyna*** Fraser, 1933
255. *Polycanthagyna erythromelas* (McLachlan, 1896)
256. *Polycanthagyna ornithocephala* (McLachlan, 1896)
72. ***Sarasaeschna*** Karube & Yeh, 2001
257. *Sarasaeschna decorata* (Lieftinck, 1968)
258. *Sarasaeschna khasiana* (Lieftinck, 1968)
259. *Sarasaeschna martini* (Laidlaw, 1921)
260. *Sarasaeschna speciosa* (Karube, 1998)

73. *Tetracanthagyna* Selys, 1883

261. *Tetracanthagyna waterhousei* McLachlan, 1898

Superfamily Gomphoidea Rambur, 1842

XII. Family: Gomphidae Rambur, 1842

74. *Acrogomphus* Laidlaw, 1925

262. *Acrogomphus fraseri* Laidlaw, 1925

75. *Anisogomphus* Selys, 1857

263. *Anisogomphus bivittatus* Selys, 1854

264. *Anisogomphus caudalis* Fraser, 1926

265. *Anisogomphus occipitalis* (Selys, 1854)

266. *Anisogomphus orites* Laidlaw, 1922

76. *Anormogomphus* Selys, 1854

267. *Anormogomphus heteropterus* Selys, 1854

268. *Anormogomphus kiritschenkoi* Bartenev, 1913

77. *Asiagomphus* Asahina, 1985

269. *Asiagomphus nilgiricus* (Laidlaw, 1922)

270. *Asiagomphus odoneli* (Fraser, 1922)

271. *Asiagomphus personatus* (Selys, 1873)

78. *Burmagomphus* Williamson, 1907

272. *Burmagomphus cauvericus* Fraser, 1926

273. *Burmagomphus divaricatus* Lieftinck, 1964

274. *Burmagomphus hasimaricus* Fraser, 1926

275. *Burmagomphus laidlawi* Fraser, 1924

276. *Burmagomphus pyramidalis* Laidlaw, 1922

277. *Burmagomphus sivalikensis* Laidlaw, 1922

79. *Cyclogomphus* Selys, 1854

278. *Cyclogomphus heterostylus* Selys, 1854

279. *Cyclogomphus vesiculosus* Selys, 1873

Checklist of Odonata (Insecta) of India, Version 3.0 (2017)

280. *Cyclogomphus wilkinsi* Fraser, 1926
281. *Cyclogomphus ypsilon* Selys, 1854
80. **Davidioides** Fraser, 1924
282. *Davidioides martini* Fraser, 1924
81. **Davidius** Selys, 1878
283. *Davidius aberrans* (Selys, 1873)
D. aberrans senchalensis Fraser, 1926
D. aberrans schmidi Asahina, 1994
284. *Davidius davidii* Selys, 1878
D. davidii assamensis Laidlaw, 1916
285. *Davidius kumaonensis* Fraser, 1926
286. *Davidius malloryi* Fraser, 1926
287. *Davidius zallorensis* Hagen in Selys, 1878
D. zallorensis delineates Fraser, 1926
82. **Dubitogomphus** Fraser, 1940
288. *Dubitogomphus bidentatus* (Fraser, 1930)
83. **Euthygomphus** Kosterin, 2016
289. *Euthygomphus martini* (Fraser, 1922)
84. **Gomphidia** Selys, 1854
290. *Gomphidia fletcheri* Fraser, 1923
291. *Gomphidia ganeshi* Chotani, Lahiri & Mitra, 1983
292. *Gomphidia kodaguensis* Fraser, 1923
293. *Gomphidia leonora* Mitra, 1994
294. *Gomphidia platyceps* Fraser, 1953
295. *Gomphidia t-nigrum* Selys, 1854
296. *Gomphidia williamsoni* Fraser, 1923
85. **Heliogomphus** Laidlaw, 1922
297. *Heliogomphus kalarensis* Fraser, 1934
298. *Heliogomphus promelas* (Selys, 1873)

299. *Heliogomphus selysi* Fraser, 1925
300. *Heliogomphus spirillus* (Fraser, 1922)
86. ***Ictinogomphus*** Cowley, 1934
301. *Ictinogomphus angulosus* (Selys, 1854)
302. *Ictinogomphus decoratus* (Selys, 1854)
303. *Ictinogomphus distinctus* Ram, 1985
304. *Ictinogomphus kishori* Ram, 1985
305. *Ictinogomphus pertinax* (Hagen in Selys, 1854)
306. *Ictinogomphus rapax* (Rambur, 1842)
87. ***Lamelligomphus*** Fraser, 1922
307. *Lamelligomphus biforceps* (Selys, 1878)
88. ***Macrogomphus*** Selys, 1857
308. *Macrogomphus annulatus* (Selys, 1854)
309. *Macrogomphus montanus* Selys, 1869
310. *Macrogomphus robustus* Selys, 1854
311. *Macrogomphus seductus* Fraser, 1926
312. *Macrogomphus wynaadicus* Fraser, 1924
89. ***Megalogomphus*** Champion, 1923
313. *Megalogomphus bicornutus* (Fraser, 1922)
314. *Megalogomphus flavicolor* (Fraser, 1923)
315. *Megalogomphus hannyingtoni* (Fraser, 1923)
316. *Megalogomphus smithii* (Selys, 1854)
317. *Megalogomphus superbus* Fraser, 1931
90. ***Merogomphus*** Martin, 1904
318. *Merogomphus longistigma* (Fraser, 1922)
319. *Merogomphus tamaracherriensis* Fraser, 1931
91. ***Microgomphus*** Selys, 1858
320. *Microgomphus souteri* Fraser, 1924
321. *Microgomphus torquatus* (Selys, 1854)

322. *Microgomphus verticalis* (Selys, 1873)
92. ***Nepogomphus*** Fraser, 1934
323. *Nepogomphus modestus* (Selys, 1878)
324. *Nepogomphus walli* (Fraser, 1924)
93. ***Nychogomphus*** Carle, 1986
325. *Nychogomphus duaricus* (Fraser, 1924)
326. *Nychogomphus striatus* (Fraser, 1924)
94. ***Onychogomphus*** Selys, 1854
327. *Onychogomphus acinaces* Laidlaw, 1922
328. *Onychogomphus cacharicus* (Fraser, 1924)
329. *Onychogomphus grammicus* (Rambur, 1842)
330. *Onychogomphus malabarensis* (Fraser, 1924)
331. *Onychogomphus meghalayanus* Lahiri, 1987
332. *Onychogomphus nilgiriensis* Fraser, 1922
- O. nilgiriensis annaimallaicus* Fraser, 1934
333. *Onychogomphus risi* (Fraser, 1922)
334. *Onychogomphus saundersii* Selys, 1854
335. *Onychogomphus schmidtii* Fraser, 1937
95. ***Ophiogomphus*** Selys, 1854
336. *Ophiogomphus cerastis* Selys, 1854
337. *Ophiogomphus reductus* Calvert, 1898
96. ***Orientogomphus*** Chao & Xu, 1987
338. *Orientogomphus indicus* (Lahiri, 1987)
97. ***Paragomphus*** Cowley, 1934
339. *Paragomphus echinoccipitalis* (Fraser, 1922)
340. *Paragomphus lindgreni* (Fraser, 1923)
341. *Paragomphus lineatus* (Selys, 1850)
98. ***Perissogomphus*** Laidlaw, 1922
342. *Perissogomphus stevensi* Laidlaw, 1922
99. ***Phaenandrogomphus*** Lieftinck, 1964

343. *Phaenandrogomphus aureus* (Laidlaw, 1922)
100. *Platygomphus* Selys, 1854
344. *Platygomphus dolabratus* Selys, 1854
101. *Scalmogomphus* Chao, 1990
345. *Scalmogomphus bistrigatus* (Hagen in Selys, 1854)
102. *Stylogomphus* Fraser, 1922
346. *Stylogomphus inglisi* Fraser, 1922

Superfamily Cordulegastroidea Hagen, 1875

XIII. Family: Chlorogomphidae Needham, 1903

103. *Chlorogomphus* Selys, 1854
347. *Chlorogomphus campioni* (Fraser, 1924)
348. *Chlorogomphus fraseri* St. Quentin, 1936
349. *Chlorogomphus mortoni* Fraser, 1936
350. *Chlorogomphus preciosus* (Fraser, 1924)
- C. preciosus fernandi* Asahina, 1986
351. *Chlorogomphus schmidti* Asahina, 1986
352. *Chlorogomphus xanthoptera* (Fraser, 1919)
104. *Chloropetalia* Carle, 1995
353. *Chloropetalia selysi* (Fraser, 1929)
105. *Watanabeopetalia* Karube, 2002
354. *Watanabeopetalia atkinsoni* (Selys, 1878)

XIV. Family: Cordulegasteridae Hagen, 1875

106. *Anotogaster* Selys, 1854
355. *Anotogaster basalis* Selys, 1854
- A. basalis palampurensis* Fraser, 1929
356. *Anotogaster gregoryi* Fraser, 1924
357. *Anotogaster nipalensis* (Selys, 1854)

107. *Cordulegaster* Leach, 1815

358. *Cordulegaster brevistigma* Selys, 1854

359. *Cordulegaster parvistigma* (Selys, 1873)

108. *Neallogaster* Cowley, 1934

360. *Neallogaster hermoniae* (Fraser, 1927)

361. *Neallogaster latifrons* (Selys, 1878)

362. *Neallogaster ornata* Asahina, 1982

363. *Neallogaster schmidti* Asahina, 1982)

Superfamily Libelluloidea Leach, 1815

XV. Family: Corduliidae Selys, 1850

109. *Hemicordulia* Selys, 1870

364. *Hemicordulia asiatica* Selys, 1878

110. *Somatochlora* Selys, 1871

365. *Somatochlora daviesi* Lieftinck, 1977

XVI. Family: Libellulidae Leach, 1815

111. *Acisoma* Rambur, 1842

366. *Acisoma panorpoides* Rambur, 1842

112. *Aethriamanta* Kirby, 1889

367. *Aethriamanta brevipennis* (Rambur, 1842)

113. *Agrionoptera* Brauer, 1864

368. *Agrionoptera insignis* (Rambur, 1842)

114. *Amphithemis* Selys, 1891

369. *Amphithemis curvistyla* Selys, 1891

370. *Amphithemis vacillans* Selys, 1891

115. *Brachydiplax* Brauer, 1868

371. *Brachydiplax chalybea* Brauer, 1868

372. *Brachydiplax farinosa* Krüger, 1902

373. *Brachydiplax sobrina* (Rambur, 1842)
116. ***Brachythemis*** Brauer, 1868
374. *Brachythemis contaminata* (Fabricius, 1793)
117. ***Bradinopyga*** Kirby, 1893
375. *Bradinopyga geminata* (Rambur, 1842)
118. ***Camacinia*** Kirby, 1889
376. *Camacinia gigantea* (Brauer, 1867)
119. ***Cratilla*** Kirby, 1900
377. *Cratilla lineata* (Brauer, 1878)
378. *Cratilla metallica* (Brauer, 1878)
120. ***Crocothemis*** Brauer, 1868
379. *Crocothemis erythraea* (Brullé, 1832)
380. *Crocothemis servilia* (Drury, 1770)
121. ***Diplacodes*** Kirby, 1889
381. *Diplacodes lefebvrii* (Rambur, 1842)
382. *Diplacodes nebulosa* (Fabricius, 1793)
383. *Diplacodes trivialis* (Rambur, 1842)
122. ***Epithemis*** Laidlaw, 1955
384. *Epithemis mariae* (Laidlaw, 1915)
123. ***Hydrobasileus*** Kirby, 1889
385. *Hydrobasileus croceus* (Brauer, 1867)
124. ***Hylaeothemis*** Ris, 1909
386. *Hylaeothemis gardeneri* Fraser, 1927
387. *Hylaeothemis indica* Fraser, 1946
125. ***Indothemis*** Ris, 1909
388. *Indothemis carnatica* (Fabricius, 1798)
389. *Indothemis limbata* (Selys, 1891)
- I. limbata sita* Champion, 1923
126. ***Lathrecista*** Kirby, 1889
390. *Lathrecista asiatica* (Fabricius, 1798)

127. **Libellula** Linnaeus, 1758

391. *Libellula quadrimaculata* Linnaeus, 1758

L. quadrimaculata grigorievi Schmidt, 1961

128. **Lyriothemis** Brauer, 1868

392. *Lyriothemis acigastra* (Selys, 1878)

393. *Lyriothemis bivittata* (Rambur, 1842)

394. *Lyriothemis cleis* Brauer, 1868

395. *Lyriothemis tricolor* Ris, 1919

129. **Macrodiplax** Brauer, 1868

396. *Macrodiplax cora* (Brauer, 1867)

130. **Nannophya** Rambur, 1842

397. *Nannophya pygmaea* Rambur, 1842

131. **Nesoxenia** Kirby, 1889

398. *Nesoxenia lineata* (Selys, 1868)

132. **Neurothemis** Brauer, 1867

399. *Neurothemis degener* Selys, 1879

400. *Neurothemis fluctuans* (Fabricius, 1793)

401. *Neurothemis fulvia* (Drury, 1773)

402. *Neurothemis intermedia* (Rambur, 1842)

403. *Neurothemis ramburi* (Brauer, 1866)

404. *Neurothemis tullia* (Drury, 1773)

133. **Onychothemis** Brauer, 1868

405. *Onychothemis testacea* Laidlaw, 1902

O. testacea ceylanica Ris, 1912

134. **Orthetrum** Newman, 1833

406. *Orthetrum anceps* (Schneider, 1845)

407. *Orthetrum brunneum* (Fonscolombe, 1837)

408. *Orthetrum cancellatum* (Linnaeus, 1758)

409. *Orthetrum chrysis* (Selys, 1891)

410. *Orthetrum glaucum* (Brauer, 1865)

411. *Orthetrum internum* McLachlan, 1894
412. *Orthetrum luzonicum* (Brauer, 1868)
413. *Orthetrum martensi* Asahina, 1978
414. *Orthetrum pruinosum* (Burmeister, 1839)
415. *Orthetrum sabina* (Drury, 1770)
416. *Orthetrum taeniolatum* (Schneider, 1845)
417. *Orthetrum testaceum* (Burmeister, 1839)
418. *Orthetrum triangulare* (Selys, 1878)
135. ***Palpopleura*** Rambur, 1842
419. *Palpopleura sexmaculata* (Fabricius, 1787)
P. sexmaculata octomaculata Fraser, 1935
136. ***Pantala*** Hagen, 1861
420. *Pantala flavescens* (Fabricius, 1798)
137. ***Potamarcha*** Karsch, 1890
421. *Potamarcha congener* (Rambur, 1842)
138. ***Pseudothemis*** Kirby, 1889
422. *Pseudothemis zonata* (Burmeister, 1839)
139. ***Pseudotrimea*** Fraser, 1920
423. *Pseudotrimea prateri* Fraser, 1920
140. ***Rhodothemis*** Ris, 1909
424. *Rhodothemis rufa* (Rambur, 1842)
141. ***Rhyothemis*** Hagen, 1867
425. *Rhyothemis phyllis* (Sulzer, 1776)
426. *Rhyothemis plutonia* Selys, 1883
427. *Rhyothemis triangularis* Kirby, 1889
428. *Rhyothemis variegata* (Linnaeus, 1763)
142. ***Selysiothemis*** Ris, 1897
429. *Selysiothemis nigra* (Vander Linden, 1825)
143. ***Sympetrum*** Newman, 1833
430. *Sympetrum arenicolor* Jödicke, 1994

431. *Sympetrum commixtum* (Selys, 1884)
432. *Sympetrum durum* Bartenev, 1916
433. *Sympetrum fonscolombii* (Selys, 1840)
434. *Sympetrum haritonovi* Borisov, 1983
435. *Sympetrum himalayanum* Navas, 1934
436. *Sympetrum hypomelas* (Selys, 1884)
437. *Sympetrum meridionale* (Selys, 1841)
438. *Sympetrum orientale* (Selys, 1883)
439. *Sympetrum speciosum* Oguma, 1915
440. *Sympetrum striolatum* (Charpentier, 1840)
144. **Tetrathemis** Brauer, 1868
441. *Tetrathemis platyptera* Selys, 1878
145. **Tholymis** Hagen, 1867
442. *Tholymis tillarga* (Fabricius, 1798)
146. **Tramea** Hagen, 1861
443. *Tramea basilaris* (Palisot de Beauvois, 1805)
444. *Tramea eurybia* Selys, 1878
445. *Tramea limbata* (Desjardins, 1832)
446. *Tramea transmarina* Brauer, 1867
447. *Tramea virginia* (Rambur, 1842)
147. **Trithemis** Brauer, 1868
448. *Trithemis aurora* (Burmeister, 1839)
449. *Trithemis festiva* (Rambur, 1842)
450. *Trithemis kirbyi* Selys, 1891
451. *Trithemis pallidinervis* (Kirby, 1889)
148. **Urothemis** Brauer, 1868
452. *Urothemis signata* (Rambur, 1842)
149. **Zygonyx** Hagen, 1867
453. *Zygonyx iris* Selys, 1869
Z. iris malabarica Fraser, 1926

Z. iris metallica Fraser, 1931

Z. iris intermedia Lahiri, 1987

454. *Zygonyx torridus* (Kirby, 1889)

Z. torridus isis Fraser, 1924

150. *Zyxomma* Rambur, 1842

455. *Zyxomma obtusum* Albarda, 1881

456. *Zyxomma petiolatum* Rambur, 1842

XVII. Family: Macromiidae Needham, 1903

151. *Epophthalmia* Burmeister, 1839

457. *Epophthalmia frontalis* Selys, 1871

458. *Epophthalmia vittata* Burmeister, 1839

459. *Epophthalmia vittigera* (Rambur, 1842)

E. vittigera bellicosa Lieftinck, 1948

152. *Macromia* Rambur, 1842

460. *Macromia annaimalaiensis* Fraser, 1931

461. *Macromia bellicosa* Fraser, 1924

462. *Macromia cingulata* Rambur, 1842

463. *Macromia cupricincta* Fraser, 1924

464. *Macromia ellisoni* Fraser, 1924

465. *Macromia flavicincta* Selys, 1874

466. *Macromia flavocolorata* Fraser, 1922

467. *Macromia flavovittata* Fraser, 1935

468. *Macromia ida* Fraser, 1924

469. *Macromia indica* Fraser, 1924

470. *Macromia irata* Fraser, 1924

471. *Macromia moorei* Selys, 1874

472. *Macromia pallida* Fraser, 1924

473. *Macromia whitei* Selys, 1871

XVIII. Family: Synthemistidae Tillyard, 1917

153. *Idionyx* Hagen, 1867

474. *Idionyx corona* Fraser, 1921

475. *Idionyx galeata* Fraser, 1924

476. *Idionyx gomantakensis* Subramanian, Rangnaker and Nayak, 2013

477. *Idionyx imbricata* Fraser, 1926

478. *Idionyx intricata* Fraser, 1926

479. *Idionyx minima* Fraser, 1931

480. *Idionyx nadganiensis* Fraser, 1924

481. *Idionyx nilgiriensis* (Fraser, 1918)

482. *Idionyx optata* Selys, 1878

483. *Idionyx periyashola* Fraser, 1939

484. *Idionyx rhinoceroides* Fraser, 1934

485. *Idionyx saffronata* Fraser, 1924

486. *Idionyx stevensi* Fraser, 1924

487. *Idionyx travancorensis* Fraser, 1931

154. *Macromidia* Martin, 1907

488. *Macromidia donaldi* (Fraser, 1924)



Changes in the Classification and Nomenclature (Since Version 2.0)

- 1) *Indolestes graclis birmanus* (Selys, 1862) is now elevated to *Indolestes birmanus* (Selys, 1891)
- 2) *Lestes malabarica* Fraser, 1929 is *Lestes malabaricus* Fraser, 1929
- 3) *Lestes platystylus* Rambur, 1842 is *Platylestes platystylus* (Rambur, 1842)
- 4) *Platysticta deccanensis* Laidlaw, 1915 is now *Indosticta deccanensis* (Laidlaw, 1915)
- 5) *Protosticta mortoni* Fraser, 1924 is synonym of *Protosticta gravelly* Fraser, 1922
- 6) *Heliocypha biforata abbreviata* Fraser, 1928 is synonym of *Heliocypha biforata* Selys, 1859
- 7) *Heliocypha perforata beatifica* Fraser, 1927 is synonym *Heliocypha perforata* Selys, 1879
- 8) *Heliocypha perforata limbata* Selys, 1879 is synonym *Heliocypha perforata* Selys, 1879
- 9) *Libellago lineata indica* (Fraser, 1928) is now elevated to *Libellago indica* (Fraser, 1928)
- 10) *Rhinocypha hilaryae* Fraser, 1927 is now *Aristocypha hilaryae* (Fraser, 1927)
- 11) *Rhinocypha hilaryae miaoa* Lahiri & Sinha, 1991 is synonym of *Aristocypha hilaryae* (Fraser, 1927)
- 12) *Rhinocypha immaculata* Selys, 1879 is now *Aristocypha immaculata* (Selys, 1879)
- 13) *Rhinocypha trifasciata* Selys, 1853 is now *Aristocypha trifasciata* (Selys, 1853)
- 14) *Rhinocypha vitrinella* Fraser, 1935 is now *Heterocypha vitrinella* (Fraser, 1935).
- 15) *Burmargioletes laidlawi* Lieftinck, 1960 is now placed under *Incertae sedis*.
- 16) *Calicnemia doonensis carminea* Lieftinck, 1984 is elevated to *Calicnemia carminea* Lieftinck, 1984
- 17) *Calicnemia doonensis* Sangal & Tyagi, 1984 is synonym of *Calicnemia carminea* Lieftinck, 1984
- 18) *Calicnemis pyrrhosoma* Lieftinck, 1984 is synonym of *Calicnemia carminea* Lieftinck, 1984
- 19) *Coeliccia didyma loringae* Laidlaw, 1932 is synonym of *Coeliccia didyma* (Selys, 1863)

Checklist of Odonata (Insecta) of India, Version 3.0 (2017)

- 20) *Copera ciliata* (Selys, 1863) is now *Pseudocopera ciliata* (Selys, 1863)
- 21) *Copera superplatypes* Fraser, 1927 is now *Pseudocopera superplatypes* (Fraser, 1927)
- 22) *Copera vittata serapica* (Selys, 1863) is synonym of *Copera vittata* Selys, 1863
- 23) *Prodasineura verticalis annandalei* (Fraser, 1921) is synonym of *Prodasineura verticalis* (Selys, 1860)
- 24) *Aciagrion tillyardi* Laidlaw, 1919 is synonym of *Aciagrion approximans* (Selys, 1876)
- 25) *Argiocnemis rubescens rubeola* Selys, 1877 is synonym of *Argiocnemis rubescens* Selys, 1877
- 26) *Cercion dyeri* Fraser, 1920 is synonym of *Paracercion calamorum* (Ris, 1916)
- 27) *Ceriagrion fallax cerinomelas* Lieftinck, 1927 is synonym of *Ceriagrion fallax* Ris, 1916
- 28) *Enallagma parvum* Selys is now *Amphiallagma parvum* (Selys, 1876)
- 29) *Enallagma immsi* Laidlaw, 1913 is synonym of *Amphiallagma parvum* (Selys, 1876)
- 30) *Enallagma risi* Schmidt, 1961 is synonym of *Enallagma cyathigerum* (Charpentier, 1840)
- 31) *Himalagrion exclamazione* Fraser, 1919 is *Himalagrion exclamationis* Fraser, 1919
- 32) *Ischnura rufostigma mildredae* Fraser, 1927 is synonym of *Ischnura rufostigma* Selys, 1876
- 33) *Hemianax ephippiger* (Burmeister, 1839) is now *Anax ephippiger* (Burmeister, 1839)
- 34) *Anax nigrofasciatus nigrolineatus* Fraser, 1935 elevated to *Anax nigrolineatus* Fraser, 1935
- 35) *Oligoaeschna khasiana* Lieftinck, 1968, *O. martini* (Laidlaw, 1921) and *O. speciosa* Karube 1998 is now placed under *Sarasaeschna* Karube & Yeh, 2001
- 36) *Acrogomphus mohani* Sahani, 1964 is synonym of *Anisogomphus bivittatus* Selys, 1854
- 37) *Ictinogomphus atrox* (Selys, 1854) is synonym of *Ictinogomphus angulosus* (Selys, 1854)
- 38) *Merogomphus longistigma tamaracherriensis* Laidlaw, 1931 is elevated to

Checklist of Odonata (Insecta) of India, Version 3.0 (2017)

- Merogomphus tamaracherriensis* (Fraser, 1931)
- 39) *Merogomphus martini* (Fraser, 1922) is now *Euthygomphus martini* (Fraser, 1922)
- 40) *Nihonogomphus indicus* is now *Orientogomphus indicus* (Lahiri, 1987)
- 41) *Onychogomphus biforceps* (Selys, 1878) is now *Lamelligomphus biforceps* (Selys, 1878)
- 42) *Onychogomphus bistirigatus* (Hagen in Selys, 1854) is now *Scalmogomphus bistirigatus* (Hagen in Selys, 1854)
- 43) *Onychogomphus duaricus* Fraser, 1924 and *O. striatus* Fraser, 1924 are now *Nychogomphus duaricus* (Fraser, 1924) and *Nychogomphus striatus* (Fraser, 1924)
- 44) *Chlorogomphus atkinsoni* (Selys, 1878) is now *Watanabeopetalia atkinsoni* (Selys, 1878).
- 45) *Chlorogomphus olympicus* Fraser, 1933 is synonym of *Watanabeopetalia atkinsoni* (Selys, 1878)
- 46) *Chlorogomphus selysi* Fraser, 1929 is now *Chloropetalia selysi* (Fraser, 1929)
- 47) *Cordulegaster brevistigma folia* Fraser, 1929 is synonym of *Cordulegaster brevistigma* (Selys, 1854)
- 48) *Epophthalmia frontalis binocellata* (Fraser, 1924) is synonym of *Epophthalmia frontalis* (Fraser, 1924)
- 49) *Agrionoptera insignis dorothea* Fraser, 1927 is synonym of *Agrionoptera insignis* (Rambur, 1842)
- 50) *Neurothemis intermedia atalanta* Ris, 1919 is synonym of *Neurothemis intermedia* (Rambur, 1842)
- 51) *Neurothemis intermedia degener* Selys, 1879 is elevated to *Neurothemis degener* Selys, 1879
- 52) *Orthetrum japonicum internum* McLachlan, 1894 is elevated to *Orthetrum internum* McLachlan, 1894
- 53) *Orthetrum pruinosum neglectum* (Rambur, 1842) is synonym of *Orthetrum pruinosum* (Burmeister, 1839).
- 54) *Sympetrum haematoneura* Fraser, 1924 is synonym of *Sympetrum speciosum* Oguma, 1915

Checklist of Odonata (Insecta) of India, Version 3.0 (2017)

- 55) *Tamea basilaris burmeisteri* Kirby, 1889 is synonym of *Tamea basilaris* (Palisot de Beauvois, 1805)
- 56) *Tamea limbata similata* (Rambur, 1842) is synonym of *Tamea limbata* (Desjardins, 1832)
- 57) *Zygonyx iris davina* Fraser, 1926 is synonym of *Zygonyx iris* Selys, 1869
- 58) *Zygonyx torrida* (Kirby, 1889) is *Zygonyx torridus* (Kirby, 1889)

Taxa additions (Since Version 2.0)

1. *Megalestes kurahashii* Asahina, 1985
2. *Megalestes micans* Needham, 1930
3. *Indolestes davenporti* (Fraser, 1930)
4. *Protosticta monticola* Emiliyamma & Palot, 2016
5. *Protosticta ponmudiensis* Kiran, Kalesh & Kunte, 2015
6. *Calicnemia erythromelas* (Selys, 1891)
7. *Coeliccia loogali* Fraser in Laidlaw, 1932
8. *Coeliccia rotundata* Asahina, 1984
9. *Nososticta nicobarica* Rajeshkumar, Raghunathan and Chandra, 2017
10. *Prodasineura verticalis burmanensis* (Fraser, 1933)
11. *Aciagrion approximans krishna* Fraser, 1921
12. *Aciagrion borneense* Ris, 1911
13. *Agriocnemis kalinga* Nair & Subramanian, 2014
14. *Ceriagrion aeruginosum* (Brauer, 1869)
15. *Ischnura pumilio* (Charpentier, 1825)
16. *Pseudagrion pruinosum* (Burmeister, 1839)
17. *Pseudagrion williamsoni* Fraser, 1922
18. *Cephalaeshna acanthifrons* Joshi and Kunte, 2017
19. *Gynacantha subinterrupta* Rambur, 1842
20. *Sarasaeschna decorata* (Lieftinck, 1968)
21. *Planaeschna poumai* Joshi and Kunte, 2017
22. *Burmagomphus divaricatus* Lieftinck, 1964

23. *Ictinogomphus decoratus* (Selys, 1854)
24. *Chlorogomphus preciosus fernandi* Asahina, 1986
25. *Anotogaster gregoryi* Fraser, 1924
26. *Cratilla metallica* (Brauer, 1878)
27. *Pseudothemis zonata* (Burmeister, 1839)
28. *Rhyothemis phyllis* (Sulzer, 1776)
29. *Sympetrum arenicolor* Jödicke, 1994
30. *Sympetrum haritonovi* Borisov, 1983

Taxa deletions (Extralimital taxa)

1. *Anax nigrofasciatus* Oguma, 1915
2. *Microgomphus chelifera* Selys, 1858
3. *Onychogomphus thienemanni* Schmidt, 1934
4. *Chlorogomphus brevistigma* Oguma, 1926
5. *Chlorogomphus brevistigma okinawensis* Ishida, 1964
6. *Neallogaster annandalei* (Fraser, 1923)
7. *Orthetrum japonicum* (Uhler, 1858)
8. *Rhyothemis obsolescens* Kirby, 1889
9. *Sympetrum vulgatum* (Linnaeus, 1758)
10. *Sympetrum vulgatum flavum* (Bartenev, 1915)

Species inquirenda (Species status doubtful)

1. *Aciagrion hisopa* (Selys, 1876)
2. *Coenagrion kashmirum* Chowdhary & Das, 1975
3. *Himalagrion pithoragarhicus* Sahni, 1964
4. *Onychargia indica* Sahni, 1964
5. *C. olivaceum aurantiacum* Fraser, 1924
6. *Gynacantha rotundata* Navas, 1930
7. *Chlorogomphus brittoi* Navas 1934

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