

A CHECK LIST OF GERROMORPHA (HEMIPTERA) FROM INDIA

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INTRODUCTION

The Infraorder Gerromorpha comprises of semi-aquatic bugs characterised by long conspicuous antennae, longer than head and inserted in front of eyes. They are distributed in all kinds of climatic zones, except the coldest and driest parts. This infraorder contains 8 families namely, Gerridae, Veliidae, Hydrometridae, Mesoveliidae, Hebridae, Macroveliidae, Paraphrynoveliidae and Hermatobatidae (Andersen, 1982a).

Knowledge of Indian semi-aquatic Hemiptera is limited to the taxonomic preliminaries, recording species from different parts of the country. (Distant, 1903a; 1910 a&b; Annandale, 1919; Bergroth, 1915a; Paiva, 1919a & b; Dover, 1928; Hafiz & Mathai, 1938; Hafiz & Riberio, 1939; Hafiz & Pradhan, 1947; Pradhan, 1950a, b& 1975; Gupta, 1981; Selvanayagam, 1981; Roy et al. 1988; Ghosh et al. 1989; Polhemus & Starmuhlner, 1990; Bal & Basu, 1994 & 1997; Chen & Zettel, 1999). The revisionary work of Andersen (1975, 1980, 1990 & 1993); Den Boer (1969); Hungerford & Matsuda (1958a & b, 1960, 1962b & 1965); Herring (1961); Polhemus & Andersen (1984); Andersen & Foster (1992); Andersen & Chen (1993); Chen & Nieser (1993a & b); Polhemus & Karunaratne (1993); Polhemus (1994); Polhemus & Polhemus (1994 & 1995a) on a few genera of Gerridae; Lundblad (1936) on the genera *Rhagovelia* Mayr and *Tetraripis* Lundblad; Andersen (1981b, 1983 & 1989); Polhemus (1990) on Veliidae; Andersen & Polhemus (1980) on Mesoveliidae; Hungerford & Evans (1934) and Polhemus & Polhemus (1995b) on Hydrometridae; Andersen (1981a) and Zettel (1998) on Hebridae of the world are also important to understand the present status of Indian Gerromorpha. Consolidation of the information throwing more light on the occurrence and the present status of semi aquatic Hemiptera of India has been attempted by Thirumalai, (1986; 1989; 1992, 1994a & b; 1996; 1999a,b, & c; 2000 and press); Thirumalai & Dam, (1996); Thirumalai & Krishnan, (2000); Thirumalai & Radhakrishnan, (1999); Thirumalai & Sharma (Press); Thirumalai & Venkatraman (press); Zettel & Thirumalai (2001).

Notwithstanding 43 genera and 123 species of semi-aquatic Hemiptera known from India under 5 families (Thirumalai, 1999,a) no comprehensive checklist is available on the fauna of the country. Hence, a checklist is furnished to offer a basic knowledge on the Indian fauna belonging to the Infraorder Gerromorpha. Out of the 8 recognised families, three families viz., Hermatobatidae,

Macroveliidae, Paraphrynoveliidae are not represented in India. As per the present study, a total of species (in genera) 76(25) of Gerridae, 15 (4) of Hebridae, 3(1) of Hydrometridae, 3(1) of Mesoveliidae and 31 species (13) of Veliidae is so far known to occur from India, which represents 128 species or 8.7% of the world fauna of Gerromorpha. For each species, citation of the original description, the Indian synonymy, and other important studies necessary to understand the status of taxon and its distribution in India are given.

HIGHER CLASSIFICATION OF GERROMORPHA

Order HEMIPTERA

Suborder HETEROPTERA

INFRAORDER

GERROMORPHA Popov, 1971

(AFTER, ANDERSEN, 1982a)

* NOT REPRESENTED IN INDIA

Superfamily	Mesovelioidea Douglas & Scott, 1867
Family	Mesoveliidae Douglas & Scott, 1867
Subfamily	Madeoveliinae* Poisson, 1959
Subfamily	Mesoveliinae Douglas & Scott, 1867
Superfamily	Hebroidea Amyot & Serville, 1843
Family	Hebridae Amyot & Serville, 1843
Subfamily	Hebrinae Amyot & Serville, 1843
Subfamily	Hyrantinae Andersen, 1981
Superfamily	Hydrometroidea Billberg, 1820
Family	Paraphrynoveliidae* Andersen, 1978
Family	Macroveliidae* Mckinstry, 1942
Family	Hydrometridae Billberg, 1820
Subfamily	Heterocleptinae* Villiers, 1948
Subfamily	Limnobatodinae* Esaki, 1927
Subfamily	Hydrometrinae Esaki, 1927
Superfamily	Gerroidea Reuter, 1910
Family	Hermatobatidae* Coutiere & Martin, 1901
Family	Veliidae Amyot&Serville, 1843

Subfamily	Ocelloveliinae* Drake & Chapman, 1963
Division	Microveliiformes Andersen, 1982
Subfamily	Microveliinae China & Usinger, 1949
Tribe	Hebroveliini* Lundblad, 1939
Tribe	Velohebrini* Stys, 1976
Tribe	Microveliini Stys, 1976
Subfamily	Haloveliinae Esaki, 1930
Division	Veliiformes Andersen, 1982a
Subfamily	Rhagoveliinae China & Usinger, 1949
Subfamily	Perittopinae China & Usinger, 1949
Subfamily	Veliinae China & Usinger, 1949
Family	Gerridae Leach, 1815
Subfamily	Rhagadotarsinae Lundblad, 1934
Subfamily	Trepobatinae Matsuda, 1960
Tribe	Metrobatini* Polhemus&Polhemus, 1993
Tribe	Naboandelini Polhemus&Polhemus, 1993
Tribe	Stenobatini* Polhemus&Polhemus, 1993
Tribe	Trepobatini Polhemus&Polhemus, 1993
Subfamily	Charmatometrinae* Matsuda, 1960
Division	Gerriformes Andersen, 1982a
Subfamily	Gerrinae Bianchi, 1896
Tribe	Gerrini Andersen, 1975
Tribe	Tachygerrini* Andersen, 1975
Subfamily	Eotrechinae Matsuda, 1960
Division	Halobatiformes Andersen, 1982a
Subfamily	Cylindrostethinae Matsuda, 1960
Subfamily	Ptilomerinae Bianchi, 1896
Subfamily	Halobatinae Bianchi, 1896
Tribe	Halobatini Matsuda, 1960
Tribe	Metrocorini Matsuda, 1960

SYNOPTIC LIST OF GERROMORPHA FROM INDIA

Family GERRIDAE

Subfamily CYLINDROSTETHINAE

Genus *Cylindrostethus* Mayr, 18651. *Cylindrostethus productus* (Spinola, 1840)1840. *Gerris productus* Spinola, Essai Sur les insectes hemipteres rhynchotes on heteropteres, 64.1903a. *Cylindrostethus productus* (Spinola) : Distant, *Fauna British India*, **2** : 184.1994. *Cylindrostethus productus* (Spinola) : Polhemus, *Bishop Mus. Occ. Pap.*, **38** : 10.1910a. *Janias elegantulus* Distant, *Ann. Mag. nat. Hist.*, **5**(8) : 145.

Distribution : (1) Karnataka; (2) Kerala; (3) Madhya Pradesh; (4) Maharashtra; (5) Orissa; (6) Punjab; (7) Tamilnadu; (8) Uttar Pradesh; (9) West Bengal.

2. *Cylindrostethus scrutator* (Kirkaldy, 1899)1899. *Gerris scrutator* Kirkaldy, *Rev. Ent.*, **18** : 90.1903a. *Cylindrostethus scrutator* (Kirkaldy) : Distant, *Fauna British India*, **2** : 184.1994. *Cylindrostethus scrutator* (Kirkaldy) : Polhemus, *Bishop Mus. Occ. Pap.*, **38** : 12.

Distribution : (1) Assam ?

Subfamily EOTRECHINAE

Genus *Amemboa* Esasi, 1925Subgenus *Amemboa* Esaki, 19253. *Amemboa (Amemboa) dentata* Polhemus & Andersen, 19841984. *Amemboa (Amemboa) dentata* Polhemus & Andersen, *Steenstrupia*, **10**(3) : 92.

Distribution : (1) Uttar Pradesh.

4. *Amemboa (Amemboa) kumari* (Distant, 1910)1910a. *Onychotrechus kumari* Distant, *Ann. Mag. nat. Hist.*, **5**(8) : 145.1928. *Onychotrechus kumari* (Distant) : Esaki, *Ann. Mag. nat. Hist.*, **2**(10) : 509.1984. *Amemboa (Amemboa) kumari* (Distant) : Polhemus & Andersen, *Steenstrupia*, **10**(3) : 85.1950b. *Amemboa pervati* Pradhan, *Rec. Indian Mus.*, **48**(3&4) : 12.

Distribution : (1) Karnataka; (2) Kerala; (3) Orissa; (4) Tamilnadu.

Subgenus *Amemboides* Polhemus & Andersen, 19845. *Amemboa (Amemboides) perlata* Polhemus & Andersen, 1984

1984. *Amemboa (Amemboides) perlata* Polhemus & Andersen, *Steenstrupia*, **10**(3) : 100.

Distribution : (1) Karnataka.

Genus *Chimarrhometra* Bianchi, 18966. *Chimarrhometra orientalis* (Distant, 1879)

1879. *Halobates* (?) *orientalis* Distant, *Trans. R. ent. Soc. Lond.*, **1879** : 126

1896. *Chimarrhometra orientalis* (Distant) : Bianchi, *Ann. Mus. zool. St. Petersbourg*, **1** : 17.

1982b. *Chimarrhometra orientalis* (Distant) : Andersen, *Steenstrupia*, **9**(1) : 23.

1908a. *Rheumatotrechus himalayanus* Kirkaldy, *Can. Ent.*, **40** : 452.

1910a. *Gerris monticola* Distant, *Ann. Mag. nat. Hist.*, **5**(8) : 141.

Distribution : (1) Arunachal Pradesh; (2) Assam; (3) Himachal Pradesh; (4) Jammu & Kashmir; (5) Meghalaya; (6) Uttar Pradesh; (7) West Bengal.

Genus *Eotrechus* Kirkaldy, 19027. *Eotrechus brevipes* Andersen, 1982

1982b. *Eotrechus brevipes* Andersen, *Steenstrupia*, **9**(1) : 19.

Distribution : (1) Arunachal Pradesh; (2) Sikkim; (3) West Bengal.

8. *Eotrechus kalidasa* Kirkaldy, 1902

1902. *Eotrechus kalidasa* Kirkaldy, *Entomologist*, **35** : 137.

Distribution : (1) Meghalaya.

9. *Eotrechus longipes* Andersen, 1982

1982b. *Eotrechus longipes* Andersen, *Steenstrupia*, **9**(1) : 11.

Distribution : (1) Arunachal Pradesh; (2) Uttar Pradesh; (3) West Bengal.

10. *Eotrechus terrestris* Andersen, 1982

1982b. *Eotrechus terrestris* Andersen, *Steenstrupia*, **9**(1) : 15.

Distribution : (1) Sikkim; (2) West Bengal.

Genus *Onychotrechus* Kirkaldy, 190311. *Onychotrechus major* Andersen, 1980

1980. *Onychotrechus major* Andersen, *Steenstrupia*, **6**(10) : 133.

Distribution : (1) Kerala; (2) Maharashtra.

12. *Onychotrechus rhexenor* Kirkaldy, 1903

1903. *Onychotrechus rhexenor* Kirkaldy, *Entomologist*, **36** : 44.

1980. *Onychotrechus rhexenor* Kirkaldy : Andersen, *Steenstrupia*, **6**(10) : 128.

Distribution : (1) Karnataka; (2) Kerala; (3) Maharashtra; (4) Rajasthan; (5) Tamilnadu.

13. *Onychotrechus robustus* Andersen, 1980

1980. *Onychotrechus robustus* Andersen, *Steenstrupia*, **6**(10) : 140.

Distribution : (1) Himachal Pradesh; (2) Uttar Pradesh.

14. *Onychotrechus rupestris* Andersen, 1980

1980. *Onychotrechus rupestris* Andersen, *Steenstrupia*, **6**(10) : 132.

Distribution : (1) Karnataka.

15. *Oncyhotrechus spinifer* Andersen, 1980

1980. *Oncyhotrechus spinifer* Andersen, *Steenstrupia*, **6**(10) : 138.

Distribution : (1) Karnataka; (2) Kerala; (3) Maharashtra.

Genus *Tarsotrechus* Andersen, 198016. *Tarsotrechus polhemi* Andersen, 1980

1980. *Tarsotrechus polhemi* Andersen, *Steenstrupia*, **6**(10) : 143

Distribution : (1) Karnataka; (2) Kerala.

Subfamily GERRINAE

Genus *Aquarius* Schellenberg, 180017. *Aquarius adelaidis* (Dohrn, 1860)

1860. *Aquarius adelaidis* Dohrn, *Stettin. ent. Ztg.*, **21** : 408.

1990. *Aquarius adelaidis* (Dohrn) : Andersen, *Steenstrupia*, **16**(4) : 61.

1896. *Gerris spinolae* Leth. & Ser., *Cat. gen. Hemiptera*, **3** : 63.

1903a. *Gerris spinolae* (Leth. & Ser.) : Distant, *Fauna British India*, **2** : 180.

Distribution : (1) Andhra Pradesh; (2) Bihar; (3) Karnataka; (4) Kerala; (5) Maharashtra; (6) Orissa; (7) Rajasthan; (8) Tamilnadu; (9) Uttar Pradesh; (10) West Bengal.

18. *Aquarius paludum* (Fabricius, 1794)

1794. *Gerris paludum* Fabricius, *Ent. Syst.*, **4** : 188.

1990. *Aquarius paludum* (Fabricius) : Andersen, *Steenstrupia*, **16**(4) : 58.

Distribution : (1) Meghalaya.

Genus *Gerris* Fabricius, 1794

Subgenus *Gerris* Fabricius, 1794

19. *Gerris (Gerris) nepalensis* Distant, 1910

1910a. *Gerris nepalensis* Distant, *Ann. Mag. nat. Hist.*, **5**(8) : 142.

1993. *Gerris (Gerris) nepalensis* Distant : Andersen, *Ent. Scand.*, **24**(2) : 157.

Distribution : (1) Arunachal Pradesh; (2) Jammu & Kashmir; (3) Sikkim; (4) Uttar Pradesh.

20. *Gerris (Gerris) sahlbergi* Distant, 1879

1879. *Gerris (Limnotrechus) sahlbergi* Distant, *Trans. R. ent. Soc. Lond.*, **1879** : 125.

1903a. *Gerris sahlbergi* Distant, *Fauna British India*, **2** : 179.

1993. *Gerris (Gerris) sahlbergi* Distant : Andersen & Chen, *Ent. Scand.*, **24**(2) : 158.

Distribution : (1) Jammu & Kashmir; (2) Uttar Pradesh.

21. *Gerris (Gerris) thoracicus* Schummel, 1832

1832. *VGerris thoracicus* Schummel, *ersuch einer Genauer Beschreibung der in Schlesien Arten der Familie der Ruderwazen Ploteres Latr.*, 46

1993. *Gerris (Gerris) thoracicus* Schummel : Andersen & Chen, *Ent. Scand.*, **24**(2) : 156.

Distribution : (1) Jammu & Kashmir.

Subgenus *Macrogerris* Andersen, 1993

22. *Gerris (Macrogerris) gracilicornis* (Horvath, 1879)

1879. *Limnotrechus gracilicornis* Horvath, *Termeszetráji Füzetek*, **III** : CIX.

1975. *Gerris (Gerriselloides) gracilicornis* (Horvath) : Andersen, *Ent. Scand. Suppl.*, **7** : 22.

1993. *Gerris (Macrogerris) gracilicornis* (Horvath) : Andersen, *Can. J. Zool.*, **71**(12) : 2482.

1903. *Gerris selma* Kirkaldy, *Entomologist*, **36** : 181.

1910a. *Gerris lepcha* Distant, *Ann. Mag. nat. Hist.*, **5**(8) : 140.

Distribution : (1) Arunachal Pradesh; (2) Assam; (3) Sikkim; (4) Uttar Pradesh; (5) West Bengal.

Genus *Neogerris* Matsumura, 1913

23. *Neogerris parvula* (Stal, 1859)

1859. *Gerris parvula* Stal, *Zoology*, **4** : 265.

1934. *Limnogonus parvulus* (Stal) : Lundblad, *Arch. Hydrobiol. Suppl.*, **12** : 384.

1959. *L. (Limnogonellus) parvulus* (Stal) : Hungerford & Matsuda, *J. Kans. Ent. Soc.*, **32**(1) : 41.

1961. *L. (Neogerris). parvulus* (Stal) : Hungerford & Matsuda, *Insecta matsum.*, **24** : 114.
 1975. *Neogerris parvula* (Stal) : Andersen, *Ent. Scand. Suppl.*, **7** : 86.
 1899. *Gerris tristan* Kirkaldy, *Revue. Ent.*, **18** : 88.

Distribution : (1) Arunachal Pradesh; (2) Assam; (3) Kerala; (4) Orissa; (5) Pondicherry; (6) Tamilnadu; (7) Uttar Pradesh; (8) West Bengal.

Genus *Limnogonus* Stal, 1868

Subgenus *Limnogonus* Stal, 1868

24. *Limnogonus (Limnogonus) fossarum fossarum* (Fabricius, 1775)

1775. *Cimex fossarum* Fabricius, *Syst. Ent.*, 727.
 1794. *Gerris fossarum* Fabricius, *Ent. Syst. emen. aucta*, **IV** : 188.
 1868. *Limnogonus fossarum* Stal, *K. Svenska Vetensk. Akad.*, **7** : 133.
 1959. *L. (Limnogonus) fossarum (Fab.)* : Hungerford & Matsuda, *J. Kans. Ent. Soc.*, **32**(1) : 40.
 1975. *L. (L.) fossarum (Fab.)* : Andersen, *Ent. Scand. Suppl.*, **7** : 30.

Distribution : (1) Andaman & Nicobar Islands; (2) Andhra Pradesh; (3) Arunachal Pradesh; (4) Assam; (5) Bihar; (6) Delhi; (7) Goa; (8) Harayana; (9) Himachal Pradesh; (10) Jammu & Kashmir; (11) Karnataka; (12) Kerala; (13) Madhya Pradesh; (14) Maharashtra; (15) Orissa; (16) Pondicherry; (17) Rajasthan; (18) Tamilnadu; (19) West Bengal.

25. *Limnogonus (Limnogonus) hungerfordi* Andersen 1975

1975. *Limnogonus (Limnogonus) hungerfordi* Andersen, *Ent. Scand. Suppl.*, **7** : 46.

Distribution : (1) Andaman & Nicobar Islands.

26. *Limnogonus (Limnogonus) nitidus* (Mayr, 1865)

1865. *Hydrometra nitida* Mayr, *Verh. zool. -bot. Ges. Wien*, **15** : 443.
 1903a. *Gerris nitida* (Mayr) : Distant, *Fauna British India*, **2** : 178.
 1908b. *Limnogonus. nitidus* (Mayr.) : Kirkaldy, *Wissenschaftl. Ergebn. der Schwed. Zool. Exped. nach dem Kilimandjaro*, **12** : 21.
 1960. *L. (Limnogonus) nitidus* (Mayr) : Matsuda, *Kans. Univ. Sci. Bull.*, **41** : 198.
 1975. *L. (Limnogonus) nitidus* (Mayr) : Andersen, *Ent. Scand. Suppl.*, **7** : 62.

Distribution : (1) Andaman & Nicobar Islands; (2) Arunachal Pradesh; (3) Assam; (4) Bihar; (5) Delhi; (6) Karnataka; (7) Kerala; (8) Orissa; (9) Rajasthan; (10) Tamilnadu; (11) Tripura; (12) Uttar Pradesh; (13) West Bengal.

Subgenus *Limnogonoides* Poisson, 196527. *Limnogonus (Limnogonoides) pectoralis* (Mayr, 1865)

1865. *Hydrometra pectoralis* Mayr, *Verh. zool. bot. Ges. Wien*, **15** : 443.
 1903a. *Gerris pectoralis* (Mayr) : Distant, *Fauna British India*, **2** : 181
 1975. *Limnogonus (Limnogonoides) pectoralis* (Mayr) : Andersen, *Ent. Scand. Suppl.*, **7** : 69.

Distribution : (1) Karnataka.

Genus *Limnometra* Mayr, 186528. *Limnometra anadyomene* (Kirkaldy, 1901)

- 1901a. *Gerris anadyomene* Kirkaldy, *Entomologist*, **34** : 117.
 1915b. *Tenagogonus anadyomene* (Kirkaldy) : Bergroth, *Zool. Meded. Leiden*, **1(2)** : 122.
 1934. *Limnometra anadyomene* (Kirkaldy) : Lundblad, *Arch. Hydrobiol. Suppl.*, **12** : 371.
 1960. *Tenagogonus (Limnometra) anadyomene* (Kirkaldy) : Matsuda, *Kans. Univ. Sci. Bull.*, **41** : 206.
 1995a. *Limnometra anadyomene* (Kirkaldy) : Andersen, *Steenstrupia*, **21** : 117.
 1986. *Tenagogonus (Limnometra) longispinulus* Thirumalai, *Rec. zool. Surv. India*, **84(1-4)** : 11.

Distribution : (1) Karnataka; (2) Kerala; (3) Tamilnadu.

29. *Limnometra fluviorum* (Fabricius, 1798)

1798. *Cimex fluviorum* Fabricius, *Ent. Syst. Suppl.*, 543.
 1903a. *Gerris fluviorum* (Fab.) : Distant, *Fauna British India*, **2** : 177
 1934. *Limnometra fluviorum* (Fab.) : Lundblad, *Arch. Hydrobiol. Suppl.*, **12** : 371.
 1960. *Tenagogonus Limnometra fluviorum* (Fab.) : Matsuda, *Kans. Univ. Sci. Bull.*, **41** : 206.
 1995a. *Limnometra fluviorum* (Fab.) : Andersen, *Steenstrupia*, **21** : 118.
 1903a. *Gerris armata* Spinola : Distant, *Fauna British India*, **2** : 180.

Distribution : (1) Karnataka; (2) Kerala; (3) Maharashtra; (4) Pondicherry; (5) Tamilnadu; (6) West Bengal.

30. *Limnometra minuta* Mayr, 1865

1865. *Limnometra minuta* Mayr, *Verh. zool.-bot. Wien*, **15** : 444.
 1903a. *Gerris minuta* (Mayr) : Distant, *Fauna British India*, **2** : 181.
 1934. *Limnometra minuta* Mayr : Lundblad, *Arch. Hydrobiol. Suppl.*, **12** : 371.
 1958b. *Limnometra minuta* Mayr : Hungerford & Matsuda, *Kans. Univ. Sci. Bull.*, **39(9)** : 397.

1960. *Tenagogonus (Limnometra) minuta* (Mayr) : Matsuda, *Kans. Univ. Sci. Bull.*, **41** : 206.

1995a. *Limnometra minuta* Mayr : Andersen, *Steenstrupia*, **21** : 118.

Distribution : (1) Andaman & Nicobar Islands.

Genus *Tenagogonus* Stal, 1854

31. *Tenagogonus ceylonensis* Hungerford & Matsuda, 1962

1962a. *Tenagogonus ceylonensis* Hungerford & Matsuda, *Bull. Brooklyn ent. Soc.*, **57** : 141.

Distribution : (1) Karnataka.

32. *Tenagogonus nicobarensis* Andersen, 1964

1964. *Tenagogonus nicobarensis* Andersen, *Ent. Meddr*, **32** : 322.

Distribution : (1) Andaman & Nicobar Islands.

Subfamily HALOBATINAE

Genus *Asclepios* Distant, 1915

33. *Asclepios annandalei* Distant, 1915

1915. *Asclepios annandalei* Distant, *Ann. Mag. nat. Hist.*, **15**(8) : 504.

Distribution : (1) Tamilnadu; (2) West Bengal.

Genus *Halobates* White, 1883

34. *Halobates elephanta* Andersen & Foster, 1992

1992. *Halobates elephanta* Andersen & Foster, *J. Nat. Hist.*, **26** : 537.

Distribution : (1) Andaman Sea; (2) Maharashtra.

35. *Halobates flaviventris* Eschscholtz, 1822

1822. *Halobates flaviventris* Eschscholtz, *Entomographien.*, **1** : 109.

Distribution : (1) Pamban Pass, Tamilnadu.

36. *Halobates formidabilis* (Distant ,1910)

1910a. *Eurates formidabilis* Distant, *Ann. Mag. nat. Hist.*, **5**(8) : 146.

1929. *Halobates formidabilis* (Distant) : Esaki, *Ann. Mag. nat. Hist.*, **4**(10) : 417.

1910b. *Fabatus servus* Distant, *Fauna British India*, **5** : 155.

1992. *Halobates galatea* Herring, 1961: Andersen & Foster, *J. nat. Hist.*, **26** : 542. (Female allotype).

Distribution : (1) Andaman & Nicobar Islands (Andaman Sea); (2) Andhra Pradesh (Bay of Bengal); (3) Maharashtra (Arabian Sea); (4) Orissa (Bay of Bengal).

37. *Halobates galatea* Herring, 1961

1961. *Halobates galatea* Herring, *Pacif. Insects*, **3**(2-3) : 294.

Distribution : (1) Arabian Sea; (2) Goa (Arabian Sea); (3) Maharashtra (Arabian Sea).

38. *Halobates germanus* White, 1883

1883. *Halobates germanus* White, *Voy. Challenger Rept. Zool.*, **7**(19) : 50.

Distribution : (1) Andaman Sea; (2) Arabian Sea; (3) Bay of Bengal.

39. *Halobates hayanus* White, 1883

1883. *Halobates hayanus* White, *Voy. Challenger Rept. Zool.*, **7**(19) : 52.

Distribution : (1) Andaman Sea; (2) Andaman & Nicobar Islands.

40. *Halobates micans* Eschscholtz, 1822

1822. *Halobates micans* Eschscholtz, *Entomographien.*, **1** : 107.

Distribution : (1) Andaman Sea; (2) Indian Ocean.

41. *Halobates proavus* White, 1883

1883. *Halobates proavus* White, *Voy. Challenger Rept. Zool.*, **7**(19) : 54.

Distribution : (1) Andaman Sea.

42. *Halobates trynae* Herring, 1964

1964. *Halobates trynae* Herring, *Proc. ent. Soc. Wash.*, **66** : 85.

Distribution : (1) Andaman & Nicobar Islands; (2) Bay of Bengal.

Genus *Metrocoris* Mayr, 1865

43. *Metrocoris anderseni* Chen & Nieser, 1993

1993a. *Metrocoris anderseni* Chen & Nieser, *Steenstrupia*, **19**(1) : 23.

Distribution : (1) Uttar Pradesh.

44. *Metrocoris communis* (Distant, 1910)

1910a. *Euodus communis* Distant, *Ann. Mag. nat. Hist.*, **5**(8) : 151.

1929. *Metrocoris communis* (Distant) : Esaki, *Ann. Mag. nat. Hist. Soc.*, **4**(10) : 419.

1965. *Metrocoris communis* (Distant) : Den Boer, *Zool. Verh. Leiden.*, **74** : 13.

1993b. *Metrocoris communis* (Distant) : Chen & Nieser, *Steenstrupia*, **19**(2) : 49.

Distribution : (1) Karnataka; (2) Maharashtra; (3) Tamilnadu; (4) Uttar Pradesh.

45. *Metrocoris communoides* Chen & Nieser, 1993

1993b. *Metrocoris communoides* Chen & Nieser, *Steenstrupia*, **19**(2) : 51.

Distribution : (1) Tamilnadu.

46. *Metrocoris compar* (White, 1883)

1883. *Halobatodes compar* White, *Voy. Challenger Rept. Zool.*, **7**(19) : 68.

1893. *Metrocoris compar* (White) : Dahl, *Ergebn. Plankt. Exp.*, **2** : 8.

1993b. *Metrocoris compar* (White) : Chen & Nieser, *Steenstrupia*, **19**(2) : 65.

Distribution : (1) Arunachal Pradesh; (2) Himachal Pradesh; (3) Sikkim; (4) Uttar Pradesh; (5) West Bengal.

47. *Metrocoris dembickyi* Chen & Zettel, 1999

1999. *Metrocoris dembickyi* Chen & Zettel, *Ann. Naturhist. Mus. Wien*, **101B** : 27

Distribution : (1) Kerala.

48. *Metrocoris falcatus* Chen & Nieser, 1993

1993a. *Metrocoris falcatus* Chen & Nieser, *Steenstrupia*, **19**(1) : 25.

Distribution : (1) Uttar Pradesh.

49. *Metrocoris femoratus* (Paiva, 1919)

1919b. *Metrocoropis femorata* Paiva, *Rec. Indian Mus.*, **16**(3) : 365.

1926. *Metrocoris femoratus* (Paiva) : Esaki, *Annl. naturh. Mus. Hung.*, **23** : 130

1965. *Metrocoris femoratus* (Paiva) : Den Boer, *Zool. Verh. Leiden*, **74** : 16.

Distribution : (1) Assam.

50. *Metrocoris indicus* Chen & Nieser, 1993

1993b. *Metrocoris indicus* Chen & Nieser, *Steenstrupia*, **19**(2) : 48.

1903a. *Metrocoris stali* (Dohrn) : Distant, *Fauna British India*, **2** : 190.

1965. *Metrocoris stali* (Dohrn) : Den Boer, *Zool. Verh. Leiden*, **74** : 8.

1994a. *Metrocoris stali* (Dohrn) : Thirumalai, *Rec. zool. Surv. India, Misc. Occ. Pap.* **165** : 37.

Distribution : (1) Karnataka; (2) Kerala; (3) Maharashtra; (4) Tamilnadu.

Note : Specimens from Southern India Earlier identified as *Metrocoris stali* (Dohrn, 1860) refer to *M. indicus*.

51. *Metrocoris malabaricus* Thirumalai, 1986

1986. *Metrocoris malabaricus* Thirumalai, *Rec. zool. Surv. India*, **84**(1-4) : 22.

Distribution : (1) Karnataka; (2) Kerala.

52. *Metroconis nepalensis* Distant, 1910

1910a. *Metroconis nepalensis* Distant, *Ann. Mag. nat. Hist.*, **5**(8) : 148.

1993b. *Metroconis nepalensis* Distant : Chen & Nieser, *Steenstrupia*, **19**(2) : 66.

Distribution : (1) Arunachal Pradesh; (2) Uttar Pradesh.

53. *Metrocoris tenuicornis* Esaki, 1926

1926. *Metrocoris tenuicornis* Esaki *Annl. naturh. Mus. Hung.*, **23** : 125

1993b. *Metrocoris tenuicornis* Esaki : Chen & Nieser, *Steenstrupia*, **19**(2) : 70.

Distribution : (1) Arunachal Pradesh; (2) Assam; (3) Uttar Pradesh.

54. *Metrocoris variegans* Thirumalai, 1986

1986. *Metrocoris variegans* Thirumalai, *Rec. zool. Surv. India*, **84**(1-4) : 25.

Distribution : (1) Karnataka; (2) Kerala.

55. *Metrocoris velamentus* Chen & Nieser, 1993

1993b. *Metrocoris velamentus* Chen & Nieser, *Steenstrupia*, **19**(2) : 61.

Distribution : (1) Kerala; (2) Tamilnadu.

Genus *Ventidius* Distant, 1910Subgenus *Ventidius* Distant, 191056. *Ventidius (Ventidius) aquarius* Distant, 1910

1910a. *Ventidius aquarius* Distant, *Ann. Mag. nat. Hist.*, **5**(8) : 150.

1960. *Ventidius (Ventidius) aquarius* Distant : Hungerford & Matsuda, *Kans. Univ. Sci. Bull.*, **40**(7) : 324.

Distribution : (1) Karnataka; (2) Kerala; (3) Tamilnadu.

57. *Ventidius (Ventidius) modulatus* Lundblad, 1934

1934. *Ventidius modulatus* Lundblad, *Arch. Hydrobiol. Suppl.*, **12** : 399.

1960. *Ventidius (Ventidius) modulatus* Lundblad : Hungerford & Matsuda, *Kans. Univ. Sci. Bull.*, **40**(7) : 329

Distribution : (1) Arunachal Pradesh.

58. *Ventidius (Ventidius) sushmae* Gupta, 19811981. *Ventidius (Ventidius) sushmae* Gupta, *Orient. Insects*, **15**(1) : 97.*Distribution* : (1) West Bengal.Subgenus *Ventidioides* Hungerford & Matsuda, 196059. *Ventidius (Ventidioides) kuiterti* Hungerford & Matsuda, 19601960. *Ventidius (Ventidioides) kuiterti* Hungerford & Matsuda, *Kans. Univ. Sci. Bull.*, **40**(7) : 333.*Distribution* : (1) Arunachal Pradesh.

Subfamily PTILOMERINAE

Genus *Heterobates* Bianchi, 189660. *Heterobates bilobates* (Esaki, 1927)1927. *Teratobates bilobates* Esaki, *Eos.*, **3** : 261.1958e. *Heterobates bilobates* (Esaki) : Hungerford & Matsuda, *Ent. News*, **69**(8) : 200.*Distribution* : (1) Uttar Pradesh.61. *Heterobates rihandi* (Pradhan, 1950)1950a. *Teratobates rihandi* Pradhan, *Rec. Indian Mus.*, **48** : 103.*Distribution* : (1) Arunachal Pradesh; (2) Uttar Pradesh.Genus *Pleciobates* Esaki, 193062. *Pleciobatus indicus* Thirumalai, 19861986. *Pleciobatus indicus* Thirumalai, *Rec. zool. Surv. India*, **84**(1-4) : 16.*Distribution* : (1) Kerala.63. **Pleciobatus nostras* Thirumalai, 19861986. *Pleciobatus nostras* Thirumalai, *Rec. zool. Surv. India*, **84**(1-4) : 19.*Distribution* : (1) Karnataka; (2) Kerala.

Note : *Nostras* is the correct name, as the name is available according to the ICZN code; *Nostrus* is a printing mistake (Polhemus Personel Communication).

64. **Pleciobatus tuberculatus* Esaki, 19301930. *Pleciobatus tuberculatus* Esaki, *J. fed. Malay St. Mus.*, **16** : 14.*Distribution* : (1) Karnataka; (2) Tamilnadu.

Genus *Ptilomera* Amyot & Serville, 1843Subgenus *Proptilomera* Hungerford & Matsuda, 195865. *Ptilomera (Proptilomera) himalayensis* Hungerford & Matsuda, 1958

1958a. *Ptilomera (Proptilomera) himalayensis* Hungerford & Matsuda, *Bull. Brooklyn ent. Soc.*, **53**(5) : 120.

1975. *P. (P.) himalayensis* Hungerford & Matsuda : Pradhan, *ZSI News Letter*, **1**(4) : 57.

Distribution : (1) Arunachal Pradesh; (2) Sikkim; (3) Uttar Pradesh; (4) West Bengal.

Subgenus *Ptilomera* Amyot & Serville, 184366. *Ptilomera (Ptilomera) agroides* Schmidt, 1926

1926. *Ptilomera agroides* Schmidt, *Ent. Mitt.*, **15**(1) : 63.

1960. *Ptilomera (Ptilomera) agroides* Schmidt : Matsuda, *Kans. Univ. Sci. Bull.*, **41**(2) : 269.

1986. *Ptilomera (Ptilomera) agroides* Schmidt : Thirumalai, *Rec. zool. Surv. India*, **84**(1-4) : 15.

1903a. *Ptilomera laticaudata* (Hardwicke) : Distant, *Fauna British India*, **2** : 185 (Fig. 133).

1926. *Ptilomera lachne* Schmidt, *Ent. Mitt.*, **15**(1) : 64.

Distribution : (1) Karnataka; (2) Kerala; (3) Maharashtra; (4) Tamilnadu.

67. *Ptilomera (Ptilomera) assamensis* Hungerford & Matsuda, 1965

1965. *Ptilomera (Ptilomera) assamensis* Hungerford & Matsuda, *Kans. Univ. Sci. Bull.*, **45**(5) : 421.

Distribution : (1) Arunachal Pradesh; (2) Assam.

68. *Ptilomera (Ptilomera) laticaudata* (Hardwicke, 1823)

1823. *Gerris laticaudata* Hardwicke, *Trans. Linn. Soc. London*, **14** : 134.

1843. *Ptilomera laticaudata* (Hardwicke) : Amyot & Serville, *Histoire naturelle des insectes Hemipteres*, 414.

1903a. *Ptilomera laticaudata* (Hardwicke) : Distant, *Fauna British India*, **2** : 185. (Fig. 133 is *P. agroides*)

1960. *Ptilomera (Ptilomera) laticaudata* (Hardwicke) : Matsuda, *Kans. Univ. Sci. Bull.*, **41**(2) : 269.

1965. *P. (Ptilomera) laticaudata* (Hardwicke) : Hungerford & Matsuda, *Kans. Univ. Sci. Bull.*, **45**(5) : 415.

Distribution : (1) Arunachal Pradesh; (2) Himachal Pradesh; (3) Meghalaya; (4) Orissa; (5) Sikkim; (6) West Bengal.

69. *Ptilomera (Ptilomera) tigrina* Uhler, 1860

1860. *Ptilomera tigrina* Uhler, *Proc. Acad. nat. Sci. Philadelphia*, **12** : 230.

1965. *Ptilomera (Ptilomera) tigrina* Uhler : Hungerford & Matsuda, *Kans. Univ. Sci. Bull.*, **45(5)** : 462.

1926. *Ptilomera harpyia* Schmidt, *Ent. Mitt.*, **15(1)** : 65.

Distribution : (1) Andaman & Nicobar Islands.

Genus *Rheumatogonus* Kirkaldy, 190970. *Rheumatogonus burmanus* (Distant, 1910)

1910a. *Jucundus burmanus* Distant, *Ann. Mag. nat. Hist.*, **5(8)** : 143.

1960. *Rheumatogonus burmanus* (Distant) : Matsuda, *Kans. Univ. Sci. Bull.*, **41(2)** : 283.

Distribution : (1) Arunachal Pradesh.

71. *Rheumatogonus custodiendus* (Distant, 1910)

1910a. **Jucundus custodiendus* Distant, *Ann. Mag. nat. Hist.*, **5(8)** : 143.

*Dissolved from synonymy with *R. custodiendus* Zettel & Thirumalai (Press)

Distribution : (1) Karnataka; (2) Kerala.

Subfamily RHAGADOTARSINAE

Genus *Rhagadotarsus* Breddin, 1905Subgenus *Rhagadotarsus* Breddin, 190572. *Rhagadotarsus (Rhagadotarsus) kraepelini* Breddin, 1905

1905. *Rhagadotarsus kraepelini* Breddin, *Mitt. Naturhist. Mus. Hamb.*, **22** : 137.

1960. *R. (Rhagadotarsus) kraepelini* Breddin : Matsuda, *Kans. Univ. Sci. Bull.*, **41(2)** : 322.

1993. *R. (Rhagadotarsus) kraepelini* Breddin : Polhemus & Karunaratne, *Bull. Raffles Mus. (Zoology)*, **41(1)** : 100.

1910a. *Nacebus dux* Distant, *Ann. Mag. nat. Hist.*, **5(8)** : 152.

Distribution : (1) Andhra Pradesh; (2) Arunachal Pradesh; (3) Karnataka; (4) Kerala; (5) Pondicherry; (6) Tamilnadu; (7) West Bengal.

Subfamily TREPOBATINAE

Genus *Calyptobates* Polhemus & Polhemus, 1994

73. *Calyptobates andaman* Polhemus & Polhemus, 1994

1994. *Calyptobates andaman* Polhemus & Polhemus, *Ent. Scand.*, **25**(3) : 338.

Distribution : (1) Andaman & Nicobar Islands.

Genus *Cryptobates* Esaki, 1929

74. *Cryptobatus raja* (Distant, 1910)

1910a. *Gerris raja* Distant, *Ann. Mag. nat. Hist.*, **5**(8) : 142.

1929. *Cryptobatus raja* (Distant) : Esaki, *Ann. Mag. nat. Hist.*, **4**(10) : 412.

1995a. *Cryptobatus raja* (Distant) : Polhemus & Polhemus, *Ent. Scand.*, **26**(1) : 104.

Distribution : (1) Kerala.

Genus *Gnomobates* Polhemus & Polhemus, 1995a.

75. *Gnomobates kuiterti* (Hungerford & Matsuda, 1958)

1958c. *Cryptobates kuiterti* Hungerford & Matsuda, *J. Kans. Ent. Soc.*, **31**(4) : 246.

1995a. *Gnomobates kuiterti* (Hungerford & Matsuda) : Polhemus & Polhemus, *Ent. Scand.*, **26**(1) : 108.

Distribution : (1) Karnataka.

Genus *Naboandelus* Distant, 1910

76. *Naboandelus signatus* Distant, 1910

1910a. *Naboandelus signatus* Distant, *Ann. Mag. nat. Hist.*, **5**(8) : 151.

In press. *Naboandelus signatus* Distant : Thirumalai & Venkatraman, *Rec. zool. Surv. India*.

Distribution : (1) Karnataka; (2) Pondicherry; (3) Tamilnadu; (4) Uttar Pradesh; (5) West Bengal.

Family VELIIDAE

Subfamily HALOVELIINAE

Genus *Halovelis* Bergroth, 1893

1. *Halovelis* sp* Andersen & Foster, 1992.

Distribution : (1) Goa.

*Remarked as new to Science but not yet described.

Genus *Strongylovelia* Easki, 1924

2. *Strongylovelia* sp.

Distribution : (1) Karnataka (fresh water species); (2) Tamilnadu.

3. *Strongylovelia* sp. * Polhemus & Starmuhlner, 1990

Distribution : (1) Andaman & Nicobar Islands (marine species).

*Remarked as new to Science but not yet described.

Genus *Xenobates* Easki, 1924

4. *Xenobates* sp*. Andersen & Foster, 1992.

Distribution : (1) Tamilnadu.

*Not yet described but remarked as new to Science.

Subfamily MICROVELIINAE

Genus *Aquulavelia* Thirumalai, 1999

5. *Aquulavelia occulta* Thirumalai, 1999

1999b. *Aquulavelia occulta* Thirumalai, *Rec. zool. Surv. India*, **97**(3) : 206.

Distribution : (1) Arunachal Pradesh.

6. *Aquulavelia* sp*

Distribution : (1) Madhya Pradesh.

*Polhemus Personal Communication.

Genus *Baptisa* Distant, 1903a

7. *Baptisa angulata* Andersen, 1989

1989. *Baptisa angulata* Andersen, *Ent. Scand.*, **19** : 373.

Distribution : (1) Karnataka.

Genus *Microvelia* Westwood, 1834

Subgenus *Microvelia* Westwood, 1834

8. *Microvelia (Microvelia) annandalei* Distant, 1909

1909. *Microvelia annandalei* Distant, *Ann. Mag. nat. Hist.*, **3**(8) : 501.

1989. *Microvelia annandalei* Distant : Thirumalai, *Misc. Occ. Pap. Rec. zool. Surv. India*, **118** : 52.

Distribution : (1) Tamilnadu; (2) West Bengal.

9. *Microvelia (Microvelia) atromaculata* Paiva, 1919

1919b. *Microvelia atromaculata* Paiva, *Rec. Indian, Mus.*, **16**(3) : 362.

Distribution : (1) Meghalaya.

10. *Microvelia (Microvelia) diluta* Distant, 1909

1909. *Microvelia diluta* Distant, *Ann. Mag. nat. Hist.*, **3**(8) : 500.

1995b. *Microvelia (Microvelia) diluta* Distant : Andersen, *Cat. Het. Palaearctic Region*, **1** : 87.

1989. *Microvelia diluta* Distant : Thirumalai, *Rec. zool. Surv. India, Misc. Occ. Pap.* **118** : 52.

Distribution : (1) Bihar; (2) Delhi; (3) Maharashtra; (4) Meghalaya; (5) Orissa; (6) Tamilnadu; (7) Tripura; (8) West Bengal.

11. *Microvelia (Microvelia) douglasi* Scott, 1874

1874. *Microvelia douglasi* Scott, *Ann. Mag. nat. Hist.*, **14** : 448.

1995b. *Microvelia (Microvelia) douglasi* Distant : Andersen, *Cat. Het. Palaearctic Region*, **1** : 87.

1994a. *Microvelia douglasi* Scott : Thirumalai, *Rec. zool. Surv. India, Misc. Occ. Pap.* **165** : 40.

1903a. *Microvelia repentiana* Distant, *Fauna British India*, **3** : 174.

1909. *M. kumaonensis* Distant, *Ann. Mag. nat. Hist.*, **3**(8) : 500.

Distribution : (1) Andaman & Nicobar Islands; (2) Arunachal Pradesh; (3) Kerala; (4) Karnataka; (5) Maharashtra; (6) Orissa; (7) Tamilnadu; (8) Uttar Pradesh; (9) West Bengal.

12. *Microvelia (Microvelia) javadiensis* Thirumalai, 1989

1989. *Microvelia (Microvelia) javadiensis* Thirumalai, *Misc. Occ. Pap. Rec. zool. Surv. India*, **118** : 53.

Distribution : (1) Tamilnadu.

13. *Microvelia (Microvelia) lineatipes* Paiva, 1919

1919b. *Microvelia lineatipes* Paiva, *Rec. Indian. Mus.*, **16**(3) : 362.

Distribution : (1) Meghalaya.

14. *Microvelia (Microvelia) santala* Hafiz & Ribeiro, 1939

1939. *Microvelia santala* Hafiz & Ribeiro, *Rec. Indian Mus.*, **41**(4) : 424.

Distribution : (1) Bihar; (2) Tamilnadu.

Genus *Neoalardus* Distant, 191215. *Neoalardus typicus* (Distant, 1903)

1903b. *Alardus typicus* Distant, *Fascicula Malayenses, Zool.*, **2** : 219.

1912. *Neoalardus typicus* (Distant) : Distant, *Ann. Mag. nat. Hist.*, **9**(8) : 471.

Distribution : (1) Andaman & Nicobar Islands.

Genus *Pseudovelgia* Hoberlandt, 1950Subgenus *Pseudovelgia* Hoberlandt, 195016. *Pseudovelgia (Pseudovelgia) sexualis* (Paiva, 1917)

1917. *Micronecta (Kirkaldya) sexualis* Paiva, *Mem. Asiatic Soc. Bengal*, **6** : 77.

1983. *Pseudovelgia (Pseudovelgia) sexualis* (Paiva) : Andersen, *Ent. Scand.*, **14** : 256.

Distribution : (1) Assam; (2) Karnataka.

Subfamily PERITTOPINAE

Genus *Perittopus* Fieber, 186117. *Perittopus campbelli* Lundblad, 1934

1934. *Perittopus campbelli* Lundblad, *Arch. Hydrobiol. Suppl.*, **4** : 304.

Distribution : (1) Tamilnadu.

18. *Perittopus horvathi* Lundblad, 1934

1934. *Perittopus horvathi* Lundblad, *Arch. Hydrobiol. Suppl.*, **4** : 306.

1989. *Perittopus horvathi* Lundblad : Thirumalai, *Rec. zool. Surv. India, Misc. Occ. Pap.* **118** : 49.

Distribution : (1) Tamilnadu.

19. *Perittopus maculatus* Paiva, 1919

1919b. *Perittopus maculatus* Paiva, *Rec. Indian Mus.*, **16** : 364.

Distribution : (1) Meghalaya; (2) Mizoram.

Subfamily RHAGOVELIINAE

Genus *Rhagovelgia* Mayr, 1865Subgenus *Neorhagovelgia* Matsuda, 195620. *Rhagovelgia (Neorhagovelgia) andaman* Polhemus, 1990

1990. *Rhagovelgia andaman* Polhemus, *Raffl. Bull. Zool.*, **38**(1) : 67.

Distribution : (1) Andaman & Nicobar Islands.

21. *Rhagovelia* (*Neorhagovelia*) *nilgiriensis* Thirumalai, 19941994b. *Rhagovelia* (*Neorhagovelia*) *nilgiriensis* Thirumalai, *Rec. zool. Surv. India*, **94**(2-4) : 390.*Distribution* : (1) Tamilnadu.22. *Rhagovelia* (*Neorhagovelia*) *sumatrensis* Lundblad, 19361934. *Rhagovelia femorata* var. *sumatrensis* Lundblad, *Arch Hydrobiol. Suppl.*, **4** : 287.1936. *Rhagovelia sumatrensis* Lundblad, *Ark. Zool.*, **28**(21) : 19.*Distribution* : (1) Andaman & Nicobar Islands; (2) Sikkim.23. *Rhagovelia* (*Neorhagovelia*) sp.*Distribution* : (1) Arunachal Pradesh.24. *Rhagovelia* (*Neorhagovelia*) sp.*Distribution* : (1) Karnataka.Subgenus *Rhagovelia* Mayr, 186525. *Rhagovelia* (*Rhagovelia*) *ceylanica* Lundblad, 19361936. *Rhagovelia ceylanica* Lundblad, *Ark. Zool.*, **28**(21) : 32.1910b. *Rhagovelia nigricans* (Burmeister) : Distant, *Fauna British India*, **5** : 132.1989. *R. (Rhagovelia) ceylanica* Lundblad : Thirumalai, *Rec. zool. Surv. India, Misc. Occ. Pap.* **118** : 51.1994b. *R. (Rhagovelia) ceylanica* Lundblad : Thirumalai, *Rec. zool. Surv. India*, **94**(2-4) : 386.*Distribution* : (1) Assam; (2) Bihar; (3) Himachal Pradesh; (4) Kerala; (5) Maharashtra; (6) Meghalaya; (7) Orissa; (8) Punjab; (9) Tamilnadu; (10) Uttar Pradesh.**Note** : The report on *Rhagovelia (R) nigricans* (Burmister) from India refers to *R. (R.) ceylanica*.26. *Rhagovelia* (*Rhagovelia*) *tibialis* Lundblad, 19361936. *Rhagovelia tibialis* Lundblad, *Ark. Zool.*, **28**(21) : 31.1994b. *R. (Rhagovelia) tibialis* Lundblad : Thirumalai, *Rec. zool. Surv. India*, **94**(2-4) : 382.*Distribution* : (1) Karnataka; (2) Kerala; (3) Tamilnadu.Genus *Tetraripis* Lundblad, 193627. *Tetraripis asymmetricus* Polhemus & Karunaratne, 19791979. *Tetraripis asymmetricus* Polhemus & Karunaratne, *Bull. Fish. Res. Stn., Sri Lanka*, **29** : 99.1996. *Tetraripis asymmetricus* Polhemus & Karunaratne : Thirumalai & Dam, *Hexapoda*, **8**(2) : 67.*Distribution* : (1) Karnataka; (2) Tamilnadu.

Subfamily VELIINAE

Genus *Angilovelina* Andersen, 198128. *Angilovelina y-alba* (Paiva, 1918)1918. *Velia y-alba* Paiva, *Rec. Indian Mus.*, **14** : 20.1981b. *Angilovelina y-alba* (Paiva) : Andersen, *Ent. Scand.*, **12** : 341.*Distribution* : (1) Assam.Genus *Velia* Latreille, 1804Subgenus *Plesiovelia* Tamanini, 195529. *Velia (Plesiovelia) affinis affinis* Kolenati, 18571857. *Velia. currens* var. *affinis* Kolenati, (original not seen) : as quoted in Andersen, 1995b. *Cat. Heteroptera Palaearctic region*, **1** : 93.1981b. *Velia (Plesiovelia) affinis* Kolenati : Andersen, *Ent. Scand.*, **12** : 352.*Distribution* : (1) Punjab.30. *Velia (Plesiovelia) affinis marussi* Tamanini, 19571957. *Velia affinis marussi* Tamanini, *Atti Mus. civ. Stor. nat. Trieste*, **21** : 32.1995b. *Velia affinis marussi* Tamanini : Andersen, *Cat. Heteroptera Palaearctic region*, **1** : 94.*Distribution* : (1) Jammu & Kashmir.Subgenus *Haldwania* Tamanini, 195531. *Velia (Haldwania)* sp. Andersen, 1981*Distribution* : (1) Sikkim.

Family HEBRIDAE

Subfamily HEBRINAE

Genus *Hebrus* Curtis, 1833Subgenus *Hebrus* Curtis, 18331. *Hebrus (Hebrus) bengalensis* Distant, 19091909. *Hebrus bengalensis* Distant, *Ann. Mag. nat. Hist.*, **3(8)** : 497.*Distribution* : (1) West Bengal.

2. *Hebrus (Hebrus) bombayensis* Paiva, 1919

1919a. *Hebrus bombayensis* Paiva, *Rec. Indian Mus.*, **16**(1) : 152.

Distribution : (1) Maharashtra.

Genus *Neotimasius* Andersen, 1981

3. *Neotimasius orientalis* Andersen, 1981

1981a. *Neotimasius orientalis* Andersen, *Syst. Entomol.*, **6** : 405.

Distribution : (1) Karnataka; (2) Tamilnadu.

Genus *Timasius* Distat, 1909

4. *Timasius championi* Andersen, 1981

1981a. *Timasius championi* Andersen, *Syst. Entomol.*, **6** : 402.

Distribution : (1) Uttar Pradesh.

5. *Timasius falcifer* Andersen, 1981

1981a. *Timasius falcifer* Andersen, *Syst. Entomol.*, **6** : 400.

Distribution : (1) Uttar Pradesh.

6. *Timasius himalayensis* Andersen, 1981

1981a. *Timasius himalayensis* Andersen, *Syst. Entomol.*, **6** : 403.

Distribution : (1) Uttar Pradesh.

7. *Timasius major* Andersen, 1981

1981a. *Timasius major* Andersen, *Syst. Entomol.*, **6** : 397.

Distribution : (1) Punjab; (2) Uttar Pradesh.

8. *Timasius minor* Andersen, 1981

1981a. *Timasius minor* Andersen, *Syst. Entomol.*, **6** : 394.

Distribution : (1) Uttar Pradesh.

9. *Timasius rupestris* Andersen, 1981

1981a. *Timasius rupestris* Andersen, *Syst. Entomol.*, **6** : 400.

Distribution : (1) Uttar Pradesh; (2) Himachal Pradesh.

10. *Timasius spinifer* Andersen, 1981

1981a. *Timasius spinifer* Andersen, *Syst. Entomol.*, **6** : 400.

Distribution : (1) Tamilnadu.

11. *Timasius splendens* Distant, 1909

1909. *Timasius splendens* Distant, *Ann. Mag. nat. Hist.*, **3**(9) : 499.

1981a. *Timasius splendens* Distant : Andersen, *Syst. Entomol.*, **6** : 392.

Distribution : (1) Karnataka; (2) Tamilnadu.

12. *Timasius ventralis* Andersen, 1981

1981a. *Timasius ventralis* Andersen, *Syst. Entomol.*, **6** : 399.

Distribution : (1) Uttar Pradesh.

Subfamily HYRCANINAE

Genus *Hyrcanus* Distant, 191013. *Hyrcanus capitatus* Distant, 1910

1910b. *Hyrcanus capitatus* Distant, *Fauna British India*, **5** : 134.

1981a. *Hyrcanus capitatus* Distant : Andersen, *Syst. Entomol.*, **6** : 408.

Distribution : (1) Himachal Pradesh; (2) Meghalaya; (3) Punjab; (4) Sikkim; (5) Uttar Pradesh.

14. *Hyrcanus dispar* Andersen, 1981

1981a. *Hyrcanus dispar* Andersen, *Syst. Entomol.*, **6** : 409.

Distribution : (1) Uttar Pradesh.

15. *Hyrcanus reichli* Zettel, 1998

1998. *Hyrcanus reichli* Zettel, *Stapfia*, **55** : 597.

Distribution : (1) Kerala.

Family MESOVELIIDAE

Subfamily MESOVELIINAE

Genus *Mesovelia* Mulsant & Rey, 18521. *Mesovelia horvathi* Lundblad, 1934

1934. *Mesovelia horvathi* Lundblad, *Arch. Hydrobiol. Suppl.*, **12** : 190.

1994a. *Mesovelia horvathi* Lundblad : Thirumalai, *Rec. zool. Surv. India, Misc. Occ. Pap.* **165** : 26.

Distribution : (1) Tamilnadu.

2. *Mesovelia indica* Horvath, 1915

1915. *Mesovelia indica* Horvath, *Annl. naturh. Mus. Hung.*, **13** : 553.

Distribution : (1) Tamilnadu.

3. *Mesovelia vittigera* Horvath 1895

1895. *Mesovelia vittigera* Horvath *Revue. ent.*, **14** : 160.

1994a. *Mesovelia vittigera* Horvath : Thirumalai, *Rec. zool. Surv. India, Misc. Occ. Pap.* **165** : 28.

1903a. *Mesovelia mulsanti* White : Distant, *Fauna British India*, **2** : 169.

1901b. *Mesovelia orientalis* Kirkaldy, *Annali Mus. civ. Stor. Nat. Giacomo Doria*, **20** : 808.

Distribution : (1) Andaman & Nicobar Islands; (2) Arunachal Pradesh; (3) Bihar; (4) Karnataka; (5) Kerala; (6) Maharashtra; (7) Orissa; (8) Pondicherry; (9) Tamilnadu; (10) Uttar Pradesh; (11) West Bengal.

Family HYDROMETRIDAE

Subfamily HYDROMETRINAE

Genus *Hydrometra* Latreille, 1796

1*. *Hydrometra bifurcata* ? Hungerford and Evans, 1934

1934. *Hydrometra bifurcata* Hungerford and Evans, *Ann. Mag. nat. Hist.*, **28** : 43.

Distribution : (1) Tamilnadu.

***Note** : This identification is based on a single female specimen collected from Nilgiris by the author. Dr J. T. Polhemus comments that this species is probably either *Hydrometra seychellensis* Polhemus & Polhemus or *H. kahallensis* Gunawardane & Karunaratne or new to science.

2. *Hydrometra butleri* Hungerford and Evans, 1934

1934. *Hydrometra butleri* Hungerford and Evans, *Ann. Mag. nat. Hist.*, **28** : 71.

1994a. *Hydrometra butleri* Hungerford and Evans : Thirumalai, *Rec. zool. Surv. India, Misc. Occ. Pap.* **165** : 29.

Distribution : (1) Karnataka; (2) Kerala; (3) Orissa; (4) Tamilnadu.

3. *Hydrometra greeni* Kirkaldy, 1898.

1898. *Hydrometra greeni* Kirkaldy, *Entomologist*, **31** : 2.

1994a. *Hydrometra greeni* Kirkaldy : Thirumalai, *Rec. zool. Surv. India, Misc. Occ. Pap.* **165** : 29.

1995b. *Hydrometra greeni* Kirkaldy : Polhemus & Polhemus, *Bishop. Mus. Occ. Pap.*, **43** : 22.

1903a. *Hydrometra vittata* (Stal) : Distant, *Fauna British India*, **2** : 170.

Distribution : (1) Andaman & Nicobar Islands; (2) Arunachal Pradesh; (3) Assam; (4) Bihar; (5) Gujarat; (6) Karnataka; (7) Kerala; (8) Maharashtra; (9) Orissa; (10) Pondicherry; (11) Rajasthan; (12) Tamilnadu; (13) Uttar Pradesh; (14) West Bengal.

In addition, the following species of *Halobates* are known from the Indian territorial waters viz., *H. galatea* from Arabian Sea; *H. germanus* from Arabian Sea and Bay of Bengal and *H. micanus* from Indian Ocean.

CONCLUSION

Out of the 32 political divisions recognised in the Indian Union, 5 families (Hebridae, Hydrometridae, Gerridae, Mesoveliidae and Veliidae) occur in Karnataka, Kerala, Maharashtra, Tamilnadu, Uttar Pradesh and West Bengal; 4 families (Hydrometridae, Gerridae, Mesoveliidae and Veliidae) in Andaman & Nicobar Islands, Arunachal Pradesh, Bihar and Orissa; 3 families in Assam (Hydrometridae, Gerridae and Veliidae), Himachal Pradesh, Meghalaya, Punjab, Sikkim (Hebridae, Gerridae and Veliidae) and Pondicherry (Hydrometridae, Gerridae and Mesoveliidae); 2 families in Delhi, Goa, Jammu & Kashmir, Madhya Pradesh, Tripura (Gerridae and Veliidae) and Rajasthan (Hydrometridae and Gerridae); and 1 family in Andhra Pradesh, Haryana (Gerridae), Gujarat (Hydrometridae) and Mizoram (Veliidae). There is no authentic record of Gerromorpha from the remaining 6 political divisions. The distribution of Gerromorpha species so far known from India is presented in the Table 1. Out of 128 species so far recorded, the highest number of species namely, 42, accommodated in 25 genera occur in Tamilnadu followed by Karnataka which harbours 39 species under 25 genera. Further, it is interesting to note that more than 50% of Gerromorpha are found in the states where Western Ghats run through. This is perhaps due to the complex assemblage of ecosystems that harbour diverse faunal constituents (Thirumalai & Krishnan, 2000).

As checklists of provincial areas are of immense value in diversity studies (Daniels, 1997), the present study provides the baseline data to the functional aspects of fresh water communities. Because of their poor dispersal capability, these bugs serve as zoogeographical indicators (Hungerford & Matsuda, 1958d). Figure 1 indicates the necessity for exploration. Needless to say, that the hard-core taxonomy forms a base line work for a meaningful approach to issues concerning biodiversity (Ananthkrishnan, 1999).

ADDENDUM

Since the completion of manuscript, following additions have been made:

Family GERRIDAE

Subfamily PTILOMERINAE

Genus *Stridulobates* Zettel & Thirumalai, 2001

Stridulobates anderseni Zettel & Thirumalai, 2001

Distribution : (1) Karnataka; (2) Kerala.

***Stridulobates nostras* (Thirumalai, 1986)**

Distribution : (1) Karnataka; (2) Kerala.

Hitherto known as *Rheumatogonus custodiendus* (Distant, 1910) from Southern India are to be known as *Jucundus custodiendus* Distant, 1910 (Zettel & Thirumalai, in Press).

CHANDIGARH

1. *Neogerris parvula* (Stal, 1859)
2. *Limnogonus (Limnogonus) fossarum fossarum* (Fabricius, 1775)
3. *Limnogonus (Limnogonus) nitidus* (Mayr, 1865)
4. *Metrocoris communis* (Distant, 1910)
5. *Microvelia (Microvelia) douglasi* Scott, 1874
6. *Mesovelia vittigera* Horvath 1895

HIMACHAL PRADESH

1. *Neogerris parvula* (Stal, 1859)
2. *Limnogonus (Limnogonus) nitidus* (Mayr, 1865)
3. *Heterobates rihandi* (Pradhan, 1950)
4. *Metrocoris communis* (Distant, 1910)
5. *Ptilomera (Proptilomera) himalayensis* Hungerford & Matsuda, 1958
6. *Microvelia (Microvelia) douglasi* Scott, 1874
7. *Mesovelia vittigera* Horvath 1895
8. *Hydrometra butleri* Hungerford and Evans, 1934
9. *Hydrometra greeni* Kirkaldy, 1898

PUNJAB

1. *Amemboa (Amemboa) sp.*
2. *Aquarius adelaidis* (Dohrn, 1860)
3. *Neogerris parvula* (Stal, 1859)
4. *Limnogonus (Limnogonus) fossarum fossarum* (Fabricius, 1775)
5. *Microvelia (Microvelia) diluta* Distant, 1909
6. *Metrocoris communis* (Distant, 1910)
7. *Microvelia (Microvelia) douglasi* Scott, 1874
8. *Mesovelia vittigera* Horvath 1895
9. *Hydrometra greeni* Kirkaldy, 1898.

RAJASTHAN

1. *Amemboa (Amemboa) sp.*
2. *Mesovelia vittigera* Horvath 1895

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TABLE : 1. DISTRIBUTION OF GERROMORPHA IN INDIAN STATES

S.NO	NAME OF THE SPECIES	AN	AP	AR	AS	BI	DE	GO	GU	HA	HP	JK	KA	KE	MP	MR	MG	MI	OR	PO	PU	RA	SI	TN	TR	UP	WB
1	Amemboa (Amemboa) dentata																									P	
2	Amemboa (Amemboa) kumari												P	P					P					P			
3	Amemboa (Amemboides) perlata												P														
4	Angilovelvia Yalba				P																						
5	Aquarius adelaidis		P			P							P	P		P			P			P		P		P	P
6	Aquarius paludum paludum																P										
7	Aquulavelia occulta			P																							
8	Aquulavelia sp.														P												
9	Asclepios annandalei																							P			P
10	Baptista angulata												P														
11	Calyptobates andaman	P																									
12	Chimarrhometra orientalis			P	P						P	P					P									P	P
13	Cryptobates raja													P													
14	Cylindrostethus productus												P	P	P	P			P		P			P		P	P
15	Cylindrostethus scrutator				P																						
16	Eotrechus brevipes			P																			P				P
17	Eotrechus kalidasa																P										
18	Eotrechus longipes			P																						P	P
19	Eotrechus terrestris																						P				P
20	Gerris (Gerris) nepalensis			P								P											P			P	
21	Gerris (Gerris) sahlbergi											P														P	
22	Gerris (Gerris) thoracicus											P															
23	Gerris (Macrogerris) gracilicornis			P	P																		P			P	P
24	Gnomobates kuiterti												P														
25	Halobates elephanta	P														P											
26	Halobates flaviventris																							P			

TABLE : 1. Cont'd.

S.NO	NAME OF THE SPECIES	AN	AP	AR	AS	BI	DE	GO	GU	HA	HP	JK	KA	KE	MP	MR	MG	MI	OR	PO	PU	RA	SI	TN	TR	UP	WB
27	Halobates formidabilis	P	P												P				P								
28	Halobates galatea							P							P												
29	Halobates germanus	P																									
30	Halobates hayanus	P																									
31	Halobates micanus	P																									
32	Halobates proavus	P																									
33	Halobates trynae	P																									
34	Halovelia sp							P																			
35	Hebrus bengalensis																										P
36	Hebrus bombayensis															P											
37	Heterobates bilobates																									P	
38	Heterobates rihandi			P																						P	
39	Hydrometra bifurcata ?																							P			
40	Hydrometra butleri												P	P					P					P			
41	Hydrometra greeni	P		P	P	P			P				P	P		P			P	P		P		P		P	P
42	Hyrcaus capitatus										P						P				P		P			P	
43	Hyrcaus dispar																									P	
44	Hyrcaus reichli													P													
45	Limnogonus (Limnogonus) fossarum fossarum	P	P	P	P	P	P	P		P	P	P	P	P	P	P			P	P		P		P			P
46	Limnogonus (Limnogonus) hungerfordi	P																									
47	Limnogonus (Limnogonus) nitidius	P		P	P	P	P						P	P					P			P		P	P	P	P
48	Limnogonus (Limnogonus) pectoralis												P														
49	Limnometra anadyomene												P	P										P			
50	Limnometra fluviorum												P	P		P				P				P			P
51	Limnometra minuta	P																									
52	Mesovelia horvathi																							P			

TABLE : 1. Cont'd.

S.NO	NAME OF THE SPECIES	AN	AP	AR	AS	BI	DE	GO	GU	HA	HP	JK	KA	KE	MP	MR	MG	MI	OR	PO	PU	RA	SI	TN	TR	UP	WB
53	Mesovelgia indica																							P			
54	Mesovelgia vittigera	P		P		P							P	P		P			P	P				P		P	P
55	Metrocoris anderseni																									P	
56	Metrocoris communis												P			P								P		P	
57	Metrocoris communoides																							P			
58	Metrocoris compar			P							P												P			P	P
59	Metrocoris demvickyi													P													
60	Metrocoris falcatus																									P	
61	Metrocoris femoratus				P																						
62	Metrocoris indicus												P	P		P								P			
63	Metrocoris malabaricus												P	P													
64	Metrocoris nepalensis			P																						P	
65	Metrocoris tenuicornis			P	P																					P	
66	Metrocoris variegans												P	P													
67	Metrocoris valemmentus													P										P			
68	Microvelia (Microvelia) annandalei																							P			P
69	Microvelia (Microvelia) diluta					P	P									P	P		P					P	P		P
70	Microvelia (Microvelia) douglasi	P		P									P	P		P			P					P		P	P
71	Microvelia (Microvelia) javadiensis																							P			
72	Microvelia (Microvelia) santala					P																		P			
73	Microvelia atromaculata																P										
74	Microvelia lineatipes																P										
75	Nabondelus signatus												P							P				P		P	P
76	Neolardus typicus	P																									
77	Neogerris parvula			P	P								P	P					P	P				P		-P	P
78	Neotimasius orientalis												P											P			

TABLE : 1. Cont'd.

S.NO	NAME OF THE SPECIES	AN	AP	AR	AS	BI	DE	GO	GU	HA	HP	JK	KA	KE	MP	MR	MG	MI	CR	PO	PU	RA	SI	TN	TR	UP	WB		
105	<i>Rheumatogonus custodiendus</i>												P	P															
106	<i>Strongylovelia</i> sp (marine)	P																											
107	<i>Strongylovelia</i> sp (freshwater)												P											P					
108	<i>Tarsotrechus polhemi</i>												P	P															
109	<i>Tenagogonus ceylonensis</i>												P																
110	<i>Tenagogonus nicobarensis</i>	P																											
111	<i>Tetraripis asymmetricus</i>												P											P					
112	<i>Timasius championi</i>																									P			
113	<i>Timasius falcifer</i>																									P			
114	<i>Timasius himalayensis</i>																									P			
115	<i>Timasius major</i>																				P					P			
116	<i>Timasius minor</i>																									P			
117	<i>Timasius rupestris</i>										P															P			
118	<i>Timasius spinifer</i>																							P					
119	<i>Timasius splendens</i>												P											P					
120	<i>Timasius ventralis</i>																									P			
121	<i>Velia</i> (Haldwani) sp																						P						
122	<i>Velia</i> (Plesiovelia) <i>affinis affinis</i>																				P								
123	<i>Velia</i> (Plesiovelia) <i>affinis marussi</i>											P																	
124	<i>Ventidius</i> (<i>Ventidiodes</i>) <i>kuiterti</i>			P																									
125	<i>Ventidius</i> (<i>Ventidius</i>) <i>aquarius</i>												P	P										P					
126	<i>Ventidius</i> (<i>Ventidius</i>) <i>sushmae</i>																										P		
127	<i>Ventidius modulatus</i>			P																									
128	<i>Xenobates</i> sp																							P					

AN-Andaman & Nicobar Islands; AP-Andhra Pradesh; AR-Arunachal Pradesh; AS-Assam; BI-Bihar; DE-Delhi; GO-Goa; GU-Gujarat; HA-Haryana; HP-Himachal Pradesh; JK-Jammu & Kashmir; KA-Karnataka; KE-Kerala; MP-Madhya Pradesh; MR-Maharashtra; MG-Meghalaya; MI-Manipur; OR-Orissa; PO-Pondicherry; PU-Punjab; RA-Rajasthan; SI-Sikkim; TN-Tamilnadu; TR-Tripura; UP-Uttar Pradesh; WB-West Bengal.

Fig. 1. Statewise Distribution of Genera & Species of Gerronomorpha in India.

