



Checklist of Blattodea from Maharashtra State in India

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Abstract

An annotated checklist of the Blattids of Maharashtra state is prepared based on the available literature and online database resources. Earlier studies has been made by (Jadhav and Sharma, 2012) listed that 12 species of Blattids from this state, in the present situation an updated checklist has been made to the Blattodea fauna includes 32 species comprises 4 family comes under 23 genera. Globally the Blattodea contains a total of 7570 species are recognized, of which 4641 species are cockroaches and 2929 species are termites has been listed (Krishna *et.al.*, 2013). This 4641 species are accommodated under 492 genera belonging to 8 families. Among this, 170 species under 65 genera belonging to 5 families, so far reported from India (Prabakaran and Senraj 2018) (Excluding Epifamily: Termitoidae).The classification followed here as after Beccaloni & Eggleton 2013.

Key Words: *Blattids, termites, cockroach, fauna*

Introduction

Cockroaches are an ancient and highly successful form of insect life; they were among the group of arthropod insects that evolved during the first great radiation of insects. The primitive or ancestors cockroaches have been existence for about 350 million years or since early carboniferous periods. Cockroaches occur throughout the world with the exception of the Polar Regions. They are medium or large sized insects. Cockroaches are oviparous and ovoviviparous and normally lay their eggs in a characteristic ootheca. In some species the females are brachypterous while the males are fully winged. Their flattened bodies enable them to hide in cracks, between floors, in walls, damp places and other secretive places. It is popularly suggested that cockroaches will “inherit the earth” if humanity destroys itself in a nuclear war. Cockroaches do indeed have a much higher radiation resistance than vertebrates this ability to withstand radiation can be explained through the cell cycle. Cockroaches are an important source of food for a number of organisms and they are an important part of the

food chain, cockroaches also play an extremely important role in nutrient cycling. A majority of cockroaches are detritus feeders and having endogenous cellulose play an important role in degrading plant material (Bignell and Eggleton, 2000). All but a few species are odorous and are therefore particularly offensive. They are swift runners and poor fliers. They will run away when exposed to light. Most of the species are nocturnal, omnivorous, cursorial and dioceous. In the present study an updated checklist has been made to the Blattodea fauna includes 32 species comprises 4 families comes under 23 genera.

Materials and Method

The present paper is focused to prepare a checklist of blattids from Maharashtra state by referring all the scattered reports on Maharashtra state and based on the available literatures from various websites and earlier published reports were also taken for consideration to complete the study. Distribution of some blatted species were corrected and updated as per present scenario.

Results and Discussion

Systematic Account of Blattids from State of Maharashtra, India

Order: **Blattodea**

Superfamily: **Blaberoidea** Saussure, 1864

Family: **Blaberidae** Saussure, 1864

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Subfamily: **Epilamprinae** Brunner von Wattenwyl, 1865

1. Genus **Rhcnoda** Brunner von Wattenwyl, 1865
1. **Rhcnoda natatrix** Shelford, 1907
1907. *Rhcnoda natatrix* Shelford, *Zoologist*. 4(11): 226.
1967. *Rhcnoda natatrix* Princis, *Orthopterorum Catalogus*. (11): 657.
2010. *Rhcnoda natatrix* Hasko Neesemann *et al.*, *Journal of Threatened Taxa*. 2(1): 649.

Type locality: Borneo Island

Distribution: India: Maharashtra, Pench: Ambakhori-Totladoah forest stream.

Elsewhere: Borneo Island and Nepal.

Remarks: This species included based on literature (Hasko Neesemann *et al.*, 2010).

Tribe **Morphnini** McKittrick, 1964

2. Genus **Stictolampra** Hanitsch, 1930
2. **Stictolampra plicata** (Navás, 1904)
1904. *Opisthoplatia plicata* Navás, *Bol. Soc. Aragon. Cienc. Nat.*, 3: 130.
1910. *Rhcnoda plicata* Shelford, *Genera Insectorum*. 101: 9.
1967. *Stictolampra plicata* Princis, *Orthopterorum Catalogus*. (11):683.

Type locality: India: Himalayas

Distribution: India: Maharashtra; Maghalaya; West Bengal: Malda District, Medinipur District, Darjeeling District, Birbhum District, Bankura District; Himachal Pradesh, Gujrat, Madhya Pradesh, Bihar, Orissa, Tripura, Assam, Arunachal Pradesh: Upper Dibang Valley, Lohit district; Sikkim; Tamilnadu; Karnataka and Kerala.

Elsewhere: Borneo; Java. Malaysia

Remarks: This species included based on literature (Jadha and Sharma, 2012).

3. Genus **Aptera** Saussure, 1864

3. **Aptera brindlei** Anisutkin 2017
2017. *Aptera brindlei* Anisutkin, *Zootaxa*. 4236 (1): 46.

Type locality: India: Maharashtra, Poona

Distribution: India: Maharashtra: Poona

Remarks: Endemic to India: Maharashtra. This species included based on literature (Anisutkin 2017).

Subfamily **Perisphaerinae** Brunner von Wattenwyl, 1865

4. Genus **Perisphaerus** Serville, 1831
4. **Perisphaerus flavicornis** (Burmeister, 1838)
1838. *Perisphaeria flavicornis* Burmeister, *Handb. Ent.*, 2(2): 488.
1865. *Derocalymma flavicornis* Brunner, *Nouv. Syst. Blatt.*, p. 321.
1906. *Pseudoglomeris flavicornis* Annandale, *Mem. Asiat. Soc. Bengal*. p. 207.
1964. *Perisphaerus flavicornis* Princis, *Orthopterorum Catalogus*. (6): 206.

Type locality: Java Island

Distribution: India: Tamil Nadu: Ramanathapuram; Maharashtra: Bombay and Assam.

Elsewhere: Malaysia (Malacca state); Indonesia (Java Island); Borneo Island; Philippines (Palawan Island) Sylhet – Bangladesh.

Remarks: This species included based on literature (Hanitsch 1923).

5. Genus **Pseudoglomeris** Brunner Von Wattenwyl, 1893

5. **Pseudoglomeris sericea** (Saussure, 1863)
1863. *Perisphaeria sericea* Saussure, *Mém. Soc. Phys. Hist. Nat. Genève.*, 17:138.
1863. *Perisphaeria emortualis* Saussure, *Mém. Soc. Phys. Hist. Nat. Genève.*, 17: 138.
1964. *Trichoblatta sericea* Princis, *Orthopterorum Catalogus*. (6): 208.
2018. *Pseudoglomeris sericea* (Saussure, 1863) Xin-Ran Li *et al.*, *Zootaxa*. 4410 (2): 259.

Type locality: India: Tamil Nadu: Pondicherry.

Distribution: India: Tamil Nadu: Pondicherry; Andhra Pradesh; Bihar; Gujarat; Karnataka; Kerala; Maharashtra; Orissa; Sikkim; West Bengal: Darjeeling, Jalpaiguri, Malda; Arunachal Pradesh and Meghalaya (Mukherjee, 1993).

Remarks: Endemic to India. This species included based on literature (Mukherjee, 1993).

6. **Pseudoglomeris terranea** (Walker, 1871)

1871. *Ischnoptera terranea* Walker, *Cata. Derm. Coll. Part V. Supp. Cata. Blat.*, p.32.
1895. *Pseudoglomeris antennata* Saussure & Zehntner. *Revue suisse de zoologie*. 3: 39.
1964. *Pseudoglomeris terranea* Princis, *Orthopterorum Catalogus*. (6): 212.



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Type locality: India: Bombay

Distribution: India: Tamil Nadu: Nilgiris; Karnataka: Bangalore; Madhya Pradesh; Maharashtra - Bombay.

Elsewhere: Burma.

Remarks: This species included based on literature (Princis, 1957).

Subfamily **Pycnoscelinae** Princis, 1960

6. Genus **Pycnoscelus** Scudder, 1862

7. **Pycnoscelus surinamensis** (Linnaeus, 1758)

Common name: The Surinam Cockroach or Greenhouse Cockroach

1758. *Blatta surinamensis* Linnaeus, *Systema naturae*, 1, ed. 10, *Holmiae.*, p. 424.

1813. *Blatta melanocephala* Stoll, *Represent. exact. coloree d'apres nature d. Spectres.*, p. 7.

1838. *Blatta corticum* Serville, *Librairie Encyclopédique de Roret.*, p. 90.

1841. *Perispherus laevis* Le Guillou, *Revue zool.*, p. 292.

1862. *Pycnoscelus obscurus* Scudder, *Boston J. nat. Hist.*, 7: 422.

1868. *Panchlora celebesa* Walker, *Cata. Derm. Coll. Part V. Supp. Cata. Blat.*, p. 26.

1868. *Polyzosteria latipes* Walker, *Cata. Derm. Coll. Part V. Supp. Cata. Blat.*, p. 165.

1868. *Polyzosteria crassipes* Walker, *Cata. Derm. Coll. Part V. Supp. Cata. Blat.*, p. 166.

1871. *Panchlora occipitalis* Walker, *Cata. Derm. Coll. Part V. Supp. Cata. Blat.*, p. 7.

1894. *Epilampra tatei* Tepper, *Trans. R. Soc. S. Aust.*, 18: 174.

1906. *Epilampra dimorpha* Shiraki, *Annotnes Zool. Jap.*, 6:17.

1940. *Pycnoscelus surinamensis major* Roeser, *Gartenbauwiss.*, p. 193.

1940. *Pycnoscelus surinamensis minor* Roeser, *Gartenbauwiss.*, p. 193.

1964. *Pycnoscelus surinamensis* Princis, *Orthopterorum Catalogus*. (6): 264.

Type locality: Asian Region

Distribution: India: Tamil Nadu; West Bengal: Birbhum, Calcutta, Darjeeling, Jalpaiguri, Maida, Medinipur, Nadia, West Dinajpur; Arunachal Pradesh: West Kameng district, West Siang district, Debang Valley district; Sikkim.

Elsewhere: Borneo; Celebes; Malakka; Malayasia; New Guinea and Sumatra; Malaysia, Texas, Australia, Burma & Circumtropical (Asian origin).

Remarks: Pest for Agriculture. This species included based on literature (Jadha and Sharma, 2012).

8. **Pycnoscelus tenebriger** (Walker, 1868)

1868. *Panchlora tenebriger* Walker, *Cata. Spec. Blat. Coll. British Museum*. p. 31.

1871. *Panchlora submarginata* Walker, *Cata. Derm. Coll. Part V. Supp. Cata. Blat.*, p. 7.

1950. *Pycnoscelus rufus* Bei-Bienko, *Fauna SSSR* (N. S.). (40): 268.

1964. *Pycnoscelus tenebriger* Princis, *Orthopterorum Catalogus*. (6): 273.

1998. *Pycnoscelus tenebriger* Roth, *Oriental Insects*. 32: 115.

Type locality: North India.

Distribution: India: Tamil Nadu: Nilgiri; Andhra Pradesh: Barkuda Island, Chilka Lake, Karnataka: Shimoga; Mysore; Uttarakand: Dehra Dun, (Himalaya); Maharashtra: Bombay.

Elsewhere: Afghanistan.

Remarks: This species included based on literature (Princis, 1957).

Family **Ectobiidae** Brunner von Wattenwyl, 1865

Subfamily **Blattellinae** Karny, 1908

7. Genus: **Anaplectella** Hanitsch, 1928

9. **Anaplectella subrotundata** (Walker, 1871)

1871. *Blatta subrotundata* Walker, *Cata. Derm. Coll. Part V. Supp. Cata. Blat.*, p. 26.

1904. *Allacta subrotundata* (Walker) Kirby, *Syn. Cata. of Orthoptera British Museum*. 1: 99.

1907. *Anaplecta subrotundata* (Walker) Shelford, *Genera Insectorum*. p. 9.

1965. *Anaplectella subrotundata* (Walker) Princis, *Orthopterorum Catalogus*. (7):383.

Type locality: India: Bombay

Distribution: India: Bombay

Remarks: Endemic to India: Maharashtra. This species included based on literature (Roth 1996).

8. Genus: **Blattella** Caudell, 1903

10. **Blattella biligata** (Walker, 1868)

1868. *Ischnoptera biligata* Walker, *Cata. Spec. Blat. Coll. British Museum*. p.123.



1868. *Blatta cercalis* Walker, *Cata. Spec. Blat. Coll. British Museum.* p. 214.
1871. *Blatta fasciceps* Walker, *Cata. Derm. Coll. Part V. Supp. Cata. Blat.*, p.25.
1893. *Phyllodromia unicolor* Brunner von Wattenwyl, *Annali Mus. Civ. Stor. Nat. Gen.*, **33**:18.
1902. *Blatta mellea* Krauss, *Anz. Akad. Wiss. Wien, math.-naturw.* **39**: 54.
1915. *Ischnoptera modestiformis* Karny, *Suppl. Ent.*, **4**: 62.
1924. *Ischnoptera fulvastra* Chopard, *Rec. Ind. Mus.*, **26**(2): 168.
1935. *Symploce persica* Bei-Bienko, *Konowia.* **14**: 125.
1965. *Symploce mossambica* Princis, *Eos.* **41**(1): 147.
1969. *Blattella biligata* Princis, *Orthopterorum Catalogus.* (**13**):886
- Type locality:* Sri Lanka
Distribution: India: Tamil Nadu: Coimbatore: Vellore (Amithi Forest); Bombay; Odisha and Madhya Pradesh.
Elsewhere: Israel; Iraq; Iran; Yemen; United Arab Emirates; Saudi Arabia; Kenya; Congo, Democratic Republic of the Zimbabwe; Mozambique; South Africa (Transvaal province); Afghanistan; China; Sri Lanka; Pakistan; Taiwan; Burma.
Remarks: This species included based on literature (Roth 1985).
11. *Blattella germanica* (Linnaeus,1767)
Common name: German cockroach
1767. *Blatta germanica* Linnaeus, *Systema naturae* 1, ed. 12, Holmiae. p. 688.
1763. *Blatta transfuga* Brünnich, *Den Danske Atlas eller Kongeriges Dannemark.* **1**: 679.
1769. *Blatta daurica* Laxmann, *Sibirische Briefe, Goettingen & Gotha.* p. 48.
1773. *Blatta asiatica* Pallas, *Reisen durch verschied. Provinzen d. Russ. Reich.*, **2**: 727.
1794. *Blatta obliquata* Daldorf, *Skrivter af Nat. urhistorie-Selskabet.*, **2** (2): 164.
1838. *Blatta bivittata* Serville, *Librairie Encyclopédique de Roret.*, p. 108.
1893. *Ischnoptera paralella* Tepper, *Trans. R. Soc. S. Austral.*, **17**: 53.
1895. *Phyllodromia magna* Tepper, *Trans. R. Soc. S. Aust.*, **19**: 19.
1908. *Blattella germanica shuguroffi* Karny, *Denkschr. med.-naturw. Ges. Jena.*, **13**: 377.
1925. *Phyllodromia cuneivittata* Hanitsch, *Sarawak Museum Journal.* **3**(1): 86.
1931. *Phyllodromia niitakana* Shiraki, *Insecta Matsumurana.* **5**(4). 204.
1969. *Ischnoptera paralella* Princis, *Orthopterorum Catalogus.* (**13**): 1011.
1969. *Blattella germanica* Princis, *Orthopterorum Catalogus.* (**13**): 807.
1985. *Blattella germanica* Roth, *Ent. Scand. Suppl.*, **22**: 18.
- Type locality: Denmark: Dania**
Distribution: India: Tamil Nadu: Coimbatore; Anamalai Hills; Arunachal Pradesh, West Bengal, Sikkim. (Roth 1997)
Elsewhere: Cosmopolitan [Asian origin]
Remarks: This species is found throughout the world and is probably the Worst **Domiciliary Pest** Cockroach. This species included based on literature (Jadha and Sharma 2012).
12. *Blattella humberiana* (Saussure, 1863)
1863. *Polyzosteria humberiana* Saussure, *Mém. Soc. Phys. Hist. Nat. Genève.* **17**: 131.
1865. *Phyllodromia cognata* Brunner von Wattenwyl, *Nouveau Système des Blattaires.* p. 92.
1871. *Blatta subreticulata* Walker, *Cata. Derm. Coll. Part V. Supp. Cata. Blat.*, p. 23.
1969. *Blattella humberiana* Princis, *Orthopterorum Catalogus.* (**13**): 842.
- Type locality:* Sri Lanka
Distribution: India: Tamil Nadu: Coimbatore: Anamalai Hills., Madurai: Alagar Hills; Maharashtra: Bombay; Arunachal Pradesh: West Kameng district, Papumpare district, Lower Subansiri District, East Siang district, Debang Valley district; West Bengal: Darjeeling District, Bankura District, Cooch Bihar Disirict, Calcutta District, Hooghly District.
Elsewhere: Sri Lanka; Burma; China
Remarks: This species included based on literature (Roth 1985).
9. Genus: *Episymphloce* Bei-Bienko, 1950
13. *Episymphloce annulifera* (Walker, 1871)
1871. *Blatta annulifera* Walker, *Cat. Derm. Salt. Brit. Mus.* **5**, London, *Suppl. Blatt.* p. 24.



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1904. *Phyllodromia annulifera* (Walker) Kirby, *Syn. Cata. of Orthoptera British Museum*. **1**: 91.
1969. *Gislenia annulifera* Princis, *Orthopterorum Catalogus*. (13): 729.
1985. *Episymphloe annulifera* (Walker) Roth, *Ent. Scand. Suppl.*, **22**: 214.
- Type locality*: India: Bombay
Distribution: India: Bombay,
Remarks: Endemic to India: Maharashtra. This species included based on literature (Walker 1871).
14. ***Episymphloe brevipes*** (Walker, 1871)
 1871. *Blatta brevipes* Walker, *Cat. Derm. Salt. Brit. Mus.* 5, London, *Suppl. Blatt.*, p. 22.
 1871. *Blatta continua* Walker, *Cat. Derm. Salt. Brit. Mus.* 5, London, *Suppl. Blatt.*, p. 22.
 1969. *Gislenia brevipes* Princis, *Orthopterorum Catalogus*. (13): 729.
 1985. *Episymphloe brevipes* (Walker) Roth, *Ent. Scand. Suppl.*, **22**: 214.
- Type locality*: India: Maharashtra: Bombay
Distribution: India: Maharashtra: Bombay
Remarks: Endemic to India: Maharashtra. This species included based on literature (Walker 1871).
15. ***Episymphloe telephoroides*** (Walker, 1871)
 1871. *Blatta telephoroides* Walker, *Cat. Derm. Salt. Brit. Mus.* 5, London, *Suppl. Blatt.*, p. 23.
 1904. *Allacta telephoroides* (Walker) Kirby, *Syn. Cata. of Orthoptera British Museum*. **1**: 100.
 1908. *Phyllodromia telephoroides* (Walker) Shelford, *Gen. Ins.*, **73**: 12.
 1959. *Gislenia telephoroides* (Walker) Princis, *Opuscula Entomologica*. **24**: 129.
 1985. *Symphloe telephoroides* (Walker) Roth, *Ent. Scand.*, **15**: 468.
 1997. *Episymphloe telephoroides* (Walker, 1871) Roth, *Tijdschrift voor Entomologie*. **140**: 107.
- Type locality*: India: Maharashtra: Bombay.
Distribution: India: Maharashtra: Bombay.
Remarks: Endemic to India: Maharashtra. This species included based on literature (Roth 1997).
10. Genus ***Hemithyrsocera*** Saussure, 1893
 16. ***Hemithyrsocera lycoides*** (Walker, 1871)
 1871. *Blatta lycoides* Walker, *Cat. Derm. Salt. Brit. Mus.* 5, London, *Suppl. Blatt.*, p. 23.
1871. *Blatta inexacta* Walker, *Cat. Derm. Salt. Brit. Mus.* 5, London, *Suppl. Blatt.*, p. 26.
1904. *Phyllodromia lycoides* (Walker) Kirby, *Syn. Cata. of Orthoptera British Museum*. **1**: 92.
1959. *Hemithyrsocera lycoides* (Walker, 1871) Princis, *Opuscula Entomologic.* **24**: 139.
1971. *Hemithyrsocera lycoides* (Walker, 1871) Princis, *Orthopterorum Catalogus*. (**14**): 1126.
- Type locality*: India: Maharashtra: Bombay
Distribution: India: Maharashtra: Bombay
Remarks: Endemic to India: Maharashtra. This species included based on literature (Princis 1959).
17. ***Hemithyrsocera palliata*** (Fabricius, 1798)
 1798. *Blatta palliata* Fabricius, *Suppl. Ent. syst., Hafniae*. p. 186.
 1865. *Thyrsocera nigra* Brunner von Wattenwyl, *Nouveau Système des Blattaires*. p. 120.
 1868. *Ellipsoidium subcinctum* Walker, *Cata. Spec. Blat. Coll. of the British Museum*. p. 85.
 1869. *Ectobia indica* Saussure, *Mem. Soc. Phy. d'hist. nat. Genève*. p. 230.
 1893. *Phyllodromia fuliginosa* Brunner von Wattenwyl, *Ann. Mus. civ. Stor. nat. Genova*. **33**: 16.
 1971. *Hemithyrsocera palliata* Princis, *Orthopterorum Catalogus*. (**14**): 1124.
- Type locality*: India: Tamil Nadu: Tharangambadi (tranquebar)
Distribution: India: Tamil Nadu: Nagapattinam, Tharangambadi, Mudumalai, Coimbatore; Karnataka: South Coorg, Mysore; Maharashtra: Sagar; Sikkim; Arunachal Pradesh; Assam; Himachal Pradesh; West Bengal (Darjeeling District).
Elsewhere: China; Burma; Thailand; Cambodia; Malaysia (Malacca state); Indonesia (Sumatra); Indonesia (Java Island); Borneo Island.
Remarks: This species included based on literature (Roth 1995).
11. Genus ***Jacobsonina*** Hebard, 1929
 18. ***Jacobsonina platysoma*** (Walker, 1868)
 1868. *Blatta platysoma* Walker, *Cata. Spec. Blat. Coll. British Museum*. p. 111.
 1871. *Ischnoptera subcolorata* Walker, *Cata. Derm. Coll. Part V. Supp. Cata. Blat.*, p. 32.



1904. *Phyllodromia subcoloraia* Kirby, *Syn. Cata. Orthoptera. British Museum. 1*: 91.
1993. *Hemithyrsochera subcolorata* Roth, *Dtsch. ent. Z., N. F.* 40 (2): 286.
1993. *Jacobsonina platysoma* (Walker, 1868) Roth, *Dtsch. ent. Z., N. F.* 40 (2): 286.
- Type locality:* Australia: Swan River
- Distribution:* India: Tamil Nadu: Coimbatore; Maharashtra: Bombay
- Elsewhere:* Australia, Burma
- Remarks:* This species included based on literature (Roth 1993).
12. Genus *Malaccina* Hebard, 1929
19. *Malaccina pallidula* (Bolívar, 1897)
1897. *Theganopteryx pallidula* Bolívar, *Annls Soc. ent. Fr.*, 66: 287.
1908. *Lupparia pallidula* (Bolivar) Shelford, *Gen. Ins.* 73: 16.
1969. *Lupparia pallidula* Princis, *Orthopterorum Catalogus.* (13): 962.
1996. *Malaccina pallidula* (Bolívar) Roth, *Oriental Insects.* 30: 351.
- Type locality:* India; Tamil Nadu: Kodaikanal
- Distribution:* India: Tamil Nadu: Kodaikanal; Andhra Pradesh; Maharashtra
- Remarks:* Endemic to India. This species included based on literature (Jadha and Sharma 2012).
- Subfamily **Pseudophyllodromiinae** Hebard, 1929
13. Genus *Allacta* Saussure & Zehntner, 1895
20. *Allacta figurata* (Walker, 1871)
1871. *Blatta figurate* Walker, *Cata. Derm. Coll. Part V. Supp. Cata. Blat.*, p. 24.
1904. *Phyllodromia figurate* Kirby, *Syn. Cata. Orthoptera. British Museum. 1*: 91.
1992. *Allacta figurata* Roth, *Ent. Scand.*, 23: 370.
- Type locality:* India: Maharashtra: Bombay.
- Distribution:* India: Maharashtra: Bombay
- Remarks:* Endemic to India: Maharashtra: Bombay. This species included based on literature (Roth 1993)
14. Genus *Supella* Shelford, 1911
- Subgenus *Supella* Shelford, 1911
21. *Supella (Supella) longipalpa* (Fabricius, 1798)
- Common name:** Brown banded Cockroach.
1798. *Blatta longipalpa* Fabricius, *Suppl. Ent. syst., Hafniae.* p. 185.
1838. *Blatta (Phyllodromia) supellectilium* Serville, *Librairie Encyclopédique de Roret.* p. 114.
1862. *Blatta cubensis* Saussure, *Rev. Mag. Zool.* 2(14): 165.
1863. *Blatta phalerata* Saussure, *Mém. Soc. Phys. hist. Nat. Genève.* 17: 151.
1868. *Blatta extenuata* Walker, *Cata. Blattariae in the Collection of the British Museum.* p. 221.
1868. *Blatta incise* Walker, *Cata. Blattariae in the Collection of the British Museum.* p.109.
1868. *Schnoptera quadriplaga* Walker, *Cata. Blattariae in the Coll. British Museum.* p.121.
1868. *Ischnoptera vacillans* Walker, *Cata. Blattariae in the Coll. British Museum.* p.114.
1871. *Blatta subfasciata* Walker, *Cat. Derm. Salt. Brit. Mus.* 5, Suppl. Blatt., p.26.
1871. *Blatta transversalis* Walker, *Cat. Derm. Salt. Brit. Mus.* 5, Suppl. Blat., p.25.
- Type locality:* India
- Distribution:* India: Tamil Nadu: Chennai; Maharashtra: Bombay; West Bengal (Mandal 1993) cosmopolitan species spreaded all over India.
- Elsewhere:* Circumtropical [African origin]
- Remarks:* One of the important Domestic Pest. This species included based on literature (Sunil M. Gaikwad 2014).
- Superfamily **Blattoidea** Latreille, 1810
- Epifamily **Blattoidea** Latreille, 1810
- Family **Blattidae** Latreille, 1810
- Subfamily **Blattinae** Latreille, 1810
15. Genus *Blatta* Linnaeus, 1758
22. *Blatta orientalis* Linnaeus, 1758
- Common name:** Oriental Cockroach
1758. *Blatta orientalis* Linnaeus, *Systema Naturae* 1, ed. 10, Holmiae. p. 424.
1863. *Blatta badia* Saussure, *Mém. Soc. Phys. hist. Nat. Genève.* 17: 150.
1851. *Blatta castanea* Blanchard, *Hist. fis. polit. de Chile, Zool.* p. 18.
1846. *Blatta europaea* Bartsch, *Saros Megye Helyirata.* p. 30.
1910. *Stylopyga orientalis gracilis* Adelung, *Horae Soc. Ent. Ross.*, 39: 337.
1966. *Blatta orientalis* Princis, *Orthopterorum Catalogus.* (8): 475.



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Type locality: America

Distribution: India: Tamil Nadu; Arunachal Pradesh: Tirap District, Debang Valley district (Cosmopolitan).

Elsewhere: Worldwide (Cosmopolitan)

Remarks: This cockroach is one the Cosmopolitan Domiciliary Pest. This species included based on literature (Jadha and Sharma 2012).

16. Genus *Cartoblatta* Shelford, 1910

23. *Cartoblatta speciosa* (Shelford, 1910)

1910. *Blatta speciosa* Shelford, *Genera Insectorum*. p. 15.

1966. *Cartoblatta speciosa* (Shelford) Princis, *Orthopterorum Catalogus*. (8): 511.

Type locality: India: Maharashtra: Sangli

Distribution: India: Maharashtra: Sangli

Remarks: Endemic to India. This species included based on literature (Shelford 1910).

17. Genus *Neostylopyga* Shelford, 1911

24. *Neostylopyga rhombifolia* (Stoll, 1813)

Common name: Harlequin Cockroach

1813. *Blatta rhombifolia* Stoll, *Represent. Exact. Coloree d'apres Nature d. Spectres*. p. 5.

1822. *Blatta signata* Eschscholtz, *Entomographien*. p. 88.

1864. *Periplaneta histrio* Saussure, *Rev. Mag. Zool.*, (2): 318.

1865. *Periplaneta decorata* Brunner von Wattenwyl, *Nouveau Systeme des Blattaires*. p. 224.

1871. *Polyzosteria heterospila* Walker, *Cat. Derm. Salt. Brit. Mus.* 5 *Suppl. Blatt.* p. 35.

1966. *Neostylopyga rhombifolia* (Stoll) Princis, *Orthopterorum Catalogus*. (8): 534.

Distribution: India: Tamil Nadu: Chennai (Madras); Maharashtra: Bombay; Meghalaya; Andaman and Nicobar Islands; Andhra Pradesh; Bihar; Madhya Pradesh; Orissa; Uttar Pradesh; and West Bengal: Darjeeling District, Murshidabad District. Himachal Pradesh, Circumtropical [Asian origin].

Elsewhere: Sri Lanka, Mauritius (East Africa), Borneo; Celebes; Java; Malayasia; Sarawak; Sumatra. America,

Remarks: This species included based on literature (Princis 1957).

25. *Neostylopyga sexpustulata* (Walker, 1871)

1871. *Polyzosteria sexpustulata* Walker, *Cat. Derm. Salt. Brit. Mus.* 5, *Suppl. Blatt.* p. 36.

1906. *Periplaneta bioculata* Paiva, *J. Asiat. Soc. Bengal N.S.* 2: 346.

1904. *Blatta sexpustulata* Kirby, *Sys. Cat. Orth.*, 1: 140.

1908. *Stylopyga sexpustulata* Shelford, *Gen. Ins.*, 109: 14.

1957. *Neostylopyga sexpustulata* Princis, *Opusc. Ent.*, 22: 97.

1966. *Neostylopyga sexpustulata* Princis, *Orthopterorum Catalogus*. (8): 537.

Type locality: India: Bombay

Distribution: India: Tamil Nadu: Kolli Hills, Maharashtra: Bombay; Uttar Pradesh; Bihar; Orissa; Karnataka and Andhra Pradesh.

Remarks: This species included based on literature (Princis 1957).

18. Genus *Periplaneta* Burmeister, 1838

26. *Periplaneta americana* (Linnaeus, 1758)

Common name: American Cockroach

1758. *Blatta Americana* Linnaeus, *Systema naturae* 1, ed. 10, *Holmiae*. p. 424.

1813. *Blatta siccifolia* Stoll, *Represent. exact. coloree d'apres nature d. Spectres*. p.14.

1822. *Blatta heros* Eschscholtz, *Entomographien, Erste Lief., Berlin*. p.83.

1868. *Periplaneta stolidata* Walker, *Cata. Blat. Coll. British Museum*. p. 128.

1901. *Periplaneta americana colorata* Rehn, *Tran. Amer. Ento. Soc.*, 27: 220.

1966. *Periplaneta americana* (Linnaeus) Princis, *Orthopterorum Catalogus*. (8): 405.

Type locality: America.

Distribution: India: Tamil Nadu: Thiruchirapalli; Arunachal Pradesh: Papumpare district; West Bengal; Darjeeling District, Birbhum District, Calcutta District, Calcutta District, Murshidabad District, Maida District; Sikkim.

Elsewhere: America & Cosmopolitan [African origin]

Remarks: This is a cosmopolitan species and one of the most important domiciliary cockroach pests. This species included based on literature (Sunil M. Gaikwad 2014).



27. *Periplaneta australasiae* (Fabricius, 1775)
Common name: Australian Cockroach
 1775. *Blatta australasiae* Fabricius, *Syst. ent., Flensburgi et Lipsiae*. p. 271.
 1805. *Blatta domingensis* Palisot de Beauvois, *Ins. rec. Afr. et Amer.*, Paris. p. 182.
 1813. *Blatta aurantiaca* Stoll, *Represent. exact. coloree d'apres nature d. Spectres*. p. 5.
 1868. *Periplaneta inclusa* Walker, *Cata. Blat. Coll. British Museum*. p. 126.
 1868. *Periplaneta repanda* Walker, *Cata. Blat. Coll. British Museum*. p. 125.
 1868. *Periplaneta subcincta* Walker, *Cata. Blat. Coll. British Museum*. p. 126.
 1871. *Periplaneta emittens* Walker, *Cata. Derm. Salt. Brit. Mus. 5, Suppl. Blatt.*, p. 37.
 1871. *Polyzosteria subornata* Walker, *Cata. Derm. Salt. Brit. Mus. 5, Suppl. Blatt.*, p. 35.
 1966. *Periplaneta australasiae* (Fabricius) Princis, *Orthopterorum Catalogus*. (8): 447.
- Distribution:** India: Tamil Nadu; West Bengal: Bardhaman, Calcutta, Jalpaiguri, Maida, Murshidabad; Maharashtra: Bombay; Arunachal Pradesh; Sikkim.
Elsewhere: Circumtropical [African origin]
Remarks: Domiciliary pest.
19. Genus *Shelfordella* Adelung, 1910
 28. *Shelfordella monochroma* (Walker, 1871)
 1871. *Periplaneta monochroma* Walker, *Cata. Derm. Salt. Brit. Mus. 5, Suppl. Blatt.*, p. 37.
 1950. *Shelfordella gussakovskii* Bei-Bienko, *Fauna SSSR (N. S.)*(40): 134.
 1950. *Shelfordella tertia* Bei-Bienko, *Fauna SSSR (N. S.)*(40): 136.
 1966. *Blatta (Shelfordella) monochroma* (Walker) Princis, *Orthopterorum Catalogus*. (8): 509.
 1985. *Shelfordella monochroma* (Walker) Bohn, *Israel Journal of Zoology*. 33: 49.
- Type locality:** India: Maharashtra: Bombay.
Distribution: India: Maharashtra Bombay; Kashmir: Srinagar.
Elsewhere: Tajikistan, Republic of Afghanistan.
Remarks: This species included based on literature (Princis.1957).
- Subfamily **Polyzosteriinae**
 20. Genus *Melanozosteria* Stål, 1874
29. *Melanozosteria castanea* (Brunner von Wattenwyl, 1865)
 1865. *Platzzosteria castanea* Brunner von Wattenwyl. *Nouveau Système des Blattaires*. p. 214.
 1871. *Polyzosteria coxalis* Walker, *Cat. Derm. Salt. Brit. Mus. 5 Suppl. Blatt.* p. 35.
 1894. *Platzzosteria exaspera* Tepper, *Trans. R. Soc. S. Aust.*, 18: 182.
 1966. *Platzzosteria castanea* Princis, *Orthopterorum Catalogus*. (8): 586.
 1968. *Platzzosteria (Melanozosteria) castanea* Mackerras, *Aust. Journal of Zoology*. 16: 267.
- Type locality:** Australia: Tarangower, Sidney
Distribution: India: Maharashtra: Bombay.
Elsewhere: Australia (Victoria)
Remarks: This species included based on literature (Walker 1871).
21. Genus *Platzzosteria* Brunner von Wattenwyl, 1865
 30. *Platzzosteria melanaria* (Erichson, 1842)
 1842. *Periplaneta melanaria* Erichson, *Arch. Naturgesch.* 8(1): 247.
 1842. *Periplaneta atrata* Erichson, *Arch. Naturgesch.* 8(1): 248.
 1864. *Polyzosteria analis* Saussure, *Rev. Mag. Zool.*, 2(16): 305.
 1864. *Polyzosteria consobrina* Saussure, *Rev. Mag. Zool.*, 2(16): 306.
 1865. *Platzzosteria albomarginata* Brunner von Wattenwyl, *Nou. Système des Blattaires*. p. 212.
 1914. *Platzzosteria pullata* Shaw. *Victor. Natural.*, 31(7): 105.
 1871. *Periplaneta ruficornis* Walker, *Cat. Derm. Salt. Brit. Mus. 5 Suppl. Blatt.*, p. 38.
 1966. *Platzzosteria melanaria* (Erichson, 1842) Princis, *Orthopterorum Catalogus*. (8): 579.
- Distribution:** India: Maharashtra: Bombay.
Elsewhere: Australia (Victoria); Australia (New South Wales); Australia (Tasmania)
Remarks: This species included based on literature (Walker 1871).
- Superfamily **Corydioidea** Saussure, 1864
 Family **Corydiidae** Saussure, 1864
 Subfamily **Corydiinae** Saussure, 1864
 22. Genus *Eucorydia* Hebard, 1929



31. *Eucorydia ornata* (Saussure, 1864)
1864. *Melestora ornata* Saussure, *Rev. Mag. Zool.*,
16(2): 341.
1904. *Corydia ornata* Kirby, *Sys. Cat. Orth.*, **1**:
196.
1963. *Eucorydia ornata* (Saussure, 1864) Princis,
Orthopterorum Catalogus. (4): 83.

Type locality: India: Maharashtra: Bombay.

Distribution: India: Maharashtra: Bombay.

Remarks: Endemic to India. This species included based on literature (Saussure 1864).

23. Genus *Polyphaga* Brullé, 1835
32. *Polyphaga indica indica* Walker, 1868
1868. *Polyphaga indica* Walker, *Cata. Spec. Blatt.*
Coll. Brit. Museum. p. 14.
1889. *Heterogamia pellucida* Redtenbacher. *Wiener entomologische Zeitung*. 23.
1962. *Polyphaga indica* Princis, *Orthopterorum Catalogus*. (3): 52.

Type locality: India

Distribution : India: Odisha: Barkuda island (Chopard 1924) Maharashtra: Bombay (Jadha and Sharma 2012).

Elsewhere: Russia; Asia (central); Iran.

Remarks: This species included based on literature (Jadha and Sharma 2012).

This annotated checklist of the Blattids of Maharashtra state is prepared based on the available literature and online database resources. Earlier studies has been made by (Jadhav and Sharma, 2012) listed that 12 species of Blattids from Maharashtra State. In the present study provides an updated checklist of blattids have been made includes 32 species belonging to 4 families and accommodated under 23 genera.

Conclusion

Globally the Blattodea comprises, total of 7570 species are recognized, of which 4641 species are cockroaches and 2929 species are termites has been listed (Krishna *et al.*, 2013). This 4641 species are accommodated under 492 genera belonging to 8 families. Among this, 170 species under 65 genera belonging to 5 families, so far reported from in India (Prabakaran and Senraj 2018) (Excluding

Epifamily: Termitoidae).The classification followed here as after Beccaloni & Eggleton 2013.

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