



Checklist of cockroaches (Blattodea) of Kerala, India

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ABSTRACT: Cockroach fauna comprises of 23 valid species under 14 genera. Information on the distribution, synonymy, type locality, type depository are provided. Thirteen species of blattids are added to the fauna of Kerala based on literature survey and study of specimens available in Western Ghat Field Research Centre, Zoological Survey of India, Kozhikode, Kerala. There are four species endemic to Kerala. © 2020 Association for Advancement of Entomology

KEYWORDS: Distribution, taxonomy, species of blattids

INTRODUCTION

The Order Blattodea, includes cockroaches and termites. It comprises of 4641 species of cockroaches under 492 genera in 8 families (Beccaloni, 2014) and 2929 species of termites belonging to 283 genera and 9 families (Krishna *et al.*, 2013). In India, there are 181 species of cockroaches belonging to over 72 genera under 17 subfamilies in 6 families (Gupta and Chandra, 2019). The taxonomic work on Indian blattids still covers only common and easily available species. Despite having rich Indian blattid fauna especially in the forest ecosystem, taxonomy of many families of Blattodea in the country remains in a confused state, as studies on Indian blattids are scanty. From Kerala state, only 10 species of blattids were reported earlier by Gupta and Chandra (2019).

Initially Shelford (1910) described a species *Haanina maindroni* from Kerala, after that Mukherjee and Hazra (1991) recorded some

species of cockroaches from Kerala i.e *Haanina patinifera* (Bolívar, 1897); *Rhabdoblatta lineaticollis* (Bolívar, 1897). Roth (1979a) recorded a few more species from Kerala namely *Panesthia monstrosa* Wood-Mason, 1876, *Panesthia morosa* Kirby, 1903 and *Panesthiapara monstrosa* Roth, 1979. Anisytukin and Yushkova (2017) described three species from Kerala namely, *Morphna indica*, *Rhabdoblattella alexeevi*, *Rhabdoblattella euptera*. Study of specimens in the Western Ghat Field Research Centre, Zoological Survey of India, Kozhikode, Kerala (WGRC) and a detailed literature survey enhanced our knowledge of cockroach fauna of Kerala, adding 13 species now to the list. An updated checklist containing 23 species is enumerated.

MATERIAL AND METHODS

The present study is based on the literature on the cockroaches of Kerala (Shelford, 1910; Mukherjee 1989; Anisytukin and Yushkova, 2017; Mukherjee

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and Hazra, 1991; Roth 1979, 1985; Grandcolas, 1993; Beccaloni, 2014) and by the study of specimens present in the National Zoological Collection at Western Ghat Field Research Centre Zoological Survey of India, (WGRC), Kozhikode, Kerala. The classification followed is based on Beccaloni and Eggleton (2013).

Abbreviations used in the text:

- TL** - Type locality
- TD** - Type depository. Acronyms for depositories
- MNHN** - National Museum of Natural History Paris.
- CAS** - California Academy of Sciences – California
- ZMUC** - University of Copenhagen Zoological Museum
- MHNG** - The Natural History Museum of Geneva
- MMUM** - The Manchester Museum of the University of Manchester, Manchester, United Kingdom
- BMNH** - (British Museum of Natural History) Natural History Museum, in London.
- LSUK** - Linnaean Society, London, United Kingdom.

RESULTS AND DISCUSSION

Extensive literature and study of specimens helped in updating the cockroach fauna of Kerala. The updated list and systematic notes on additional 13 species are given (Table 1).

Systematic Account

Order BLATTODEA

Superfamily: BLABEROIDEA Saussure, 1864

Family: BLABERIDAE Saussure, 1864

Subfamily: EPILAMPRINAE Brunner von Wattenwyl, 1865

Tribe *Morphnini* McKittrick, 1964

Genus *Haanina* Hebard, 1929

1. *Haanina maindroni* (Shelford, 1910)

1910. *Homalopteryx maindroni* Shelford. *Genera Insectorum* 101: 7.

1967. *Haanina maindroni* Princis, *Orthopterorum Catalogus* (11): 644.

TL: India: Puducherry: Mahe (♀)

TD: MNHN

Distribution: **India:** Puducherry: Mahe

Remarks: Endemic to south India (Kerala).

2. *Haanina patinifera* (Bolívar, 1897)

1897. *Homalopteryx patinifera* Bolívar, *Annls. Soc. Ent. Fr.* 66: 295

1967. *Haanina patinifera* Princis, *Orthopterorum Catalogus* (11): 644.

TL: India: Tamil Nadu: Madurai (♂♀)

TD: MNHN

Distribution: **India:** Kerala; Tamil Nadu: Madurai; Lakshadweep Island.

Remarks: Endemic to south India.

Genus *Morphna* Shelford, 1910

3. *Morphna decolyi* (Bolivar, 1897)

1897. *Molytria decolyi* Bolívar. *Annls. Soc. Ent. Fr.* 66: 294.

1964. *Stridoblatta decolyi* McKittrick. *Cornell Univ. Agric. Exp. Sta. Mem.* 389: 44.

1910. *Homolopteryx decolyi* Shelford, *Genera Insectorum* 101: 7

1967. *Haanina decolyi* Princis, *Orthopterorum Catalogus* (11):644

Table 1. Updated checklist of cockroaches of Kerala

Sl.	Name of the species	References	Remarks
<p>Order BLATTODEA Brunner von Wattenwyl, 1882</p> <p>Family BLABERIDAE Saussure, 1864</p>			
1.	<i>Haanina maindroni</i> (Shelford, 1910)	Shelford (1910)	Endemic to Kerala*
2.	<i>Haanina patinifera</i> (Bolívar, 1897)	Mukherjee and Hazra (1991)	Endemic to south India
3.	<i>Morphna decolyi</i> (Bolívar, 1897)	Anisyutkin (2014)	Endemic to south India
4.	<i>Morphna indica</i> Anisyutkin, 2017	Anisyutkin and Yushkova (2017)	Endemic to Kerala*
5.	<i>Morphna plana</i> (Brunner von Wattenwyl, 1865)	Identified specimens from WGRC	Endemic to south Asia**
6.	<i>Rhabdoblatta lineaticollis</i> (Bolívar, 1897)	Mukherjee and Hazra, (1991)	Endemic to south India
7.	<i>Stictolampra plicata</i> (Navás, 1904)	Mukherjee (1989)	Endemic to India
8.	<i>Thorax porcellana</i> (Saussure, 1862)	Roth (1972)	-
9.	<i>Rhabdoblattella alexeevi</i> Anisyutkin, 2017	Anisyutkin and Yushkova (2017)	Endemic to Kerala
10.	<i>Rhabdoblattella euptera</i> Anisyutkin, 2017	Anisyutkin and Yushkova (2017)	Endemic to Kerala
11.	<i>Panesthia monstrosa</i> Wood-Mason, 1876	Roth (1979a)	Endemic to India*
12.	<i>Panesthia morosa</i> Kirby, 1903	Roth (1979a)	Endemic to south India*
13.	<i>Panesthia paramonstruosa</i> Roth, 1979	Roth (1979a)	Endemic to south India*
14.	<i>Salganea erythronota</i> Bolívar, 1897	Roth (1979b)	Endemic to India*
15.	<i>Salganea indica</i> Princis, 1953	Identified specimens from WGRC	Endemic to south India**
16.	<i>Pycnoscelus surinamensis</i> (Linnaeus, 1758)	Bolivar (1897)	Pest of Agriculture*
17.	<i>Pycnoscelus indicus</i> (Fabricius, 1775)	Identified specimens from WGRC	Circumtropical – Pest of Crops**
<p>Family ECTOBIIDAE Brunner von Wattenwyl, 1865</p>			
18.	<i>Blattella humbertiana</i> (Saussure, 1863)	Roth (1985)	-
<p>Family BLATTIDAE Latreille, 1810</p>			
19.	<i>Hebardina concinna</i> (Haan, 1842)	Hebard (1929)	-
20.	<i>Neostylopyga rhombifolia</i> (Stoll, 1813)	Identified specimens from WGRC	Circumtropical in Asia**
21.	<i>Neostylopyga ornata</i> (Brunner von Wattenwyl, 1865)	Identified specimens from WGRC	Endemic to south India**
22.	<i>Periplaneta americana</i> (Linnaeus, 1758)	Identified specimens from WGRC	Cosmopolitan species**
<p>Family CORYDIIDAE Saussure, 1864</p>			
23.	<i>Therea petiveriana</i> (Linnaeus, 1758)	Grandcolas (1993)	Endemic to south India

* Species additional record to Kerala

** Species new record to south India

1971. *Morphna decolyi* Princis, *Orthopterorum Catalogus* (14): 1156-57

TL: Tamil Nadu: Trichy (♀)

TD: MNHN

Distribution: India: Kerala (current record); Tamil Nadu: Tiruchirappalli and Coimbatore.

Remarks: Endemic to South India.

4. *Morphna indica* Anisyutkin, 2017

2017. *Morphna indica* Anisyutkin in Anisyutkin and Yushkova, *Zootaxa* 4236 (1): 56.

Material Examined: 2♀, India: Kerala, Chinnar Wild life sanctuary, Churulipetti, 04.iv.2012, coll. Sureshan, Reg.no. ZSI/WGRC/IR INV/ 14732.

TL: India: Kerala (♂)

TD: MHNG

Distribution: India: Kerala: Cardamon Hills.

Remarks: Endemic to Kerala

5. *Morphna plana* (Branner von Wattenwyl, 1865)

1865. *Epilampra plana* Brunner von Wattenwyl, *Nouveau Système des Blattaires*: 183.

1897. *Homalopteryx biplagiata* Bolívar. *Annls. Soc. ent. Fr.* 66: 296.

1967. *Morphna plana* Princis. *Orthopterorum Catalogus* (11): 648.

Material Examined: 1♂, India: Kerala, Idukki District, Mathikettan Sholai, 17.ix.2014; 3♂, Idukki district, Eravikulam N.P, 23.ix.2014 coll. Emiliyamma Reg. nos. ZSI/WGRC/IR INV/14735, 14740; 1♂, 1♀, Idukki District, Erachippara, 23.ix.2014, coll. Emiliyamma, Reg.no. ZSI/WGRC/IR INV/ 14824.

TL: Sri Lanka (♂)

TD: MMUM

Distribution: India: Kerala; Tamil Nadu: Tiruchirappalli. **Elsewhere:** Sri Lanka.

Remarks: Endemic to south Asia.

Genus *Rhabdoblatta* Kirby, 1903

6. *Rhabdoblatta lineaticollis* (Bolívar, 1897)

1897. *Epilampra lineaticollis* Bolívar. *Annls Soc. Ent. Fr.* 66: 298.

1904. *Heterolampra lineaticollis* Kirby, *Syn. Cat. Orthop.* 120.

1967. *Rhabdoblatta lineaticollis* Princis. *Orthopterorum Catalogus* (11): 672.

Material Examined: 1♀, India: Kerala, Idukki district, Mannavan Shola, 06.iv.2012; coll. Sureshan; 1♀, Idukki district, Mathikettan Sholai, 17.ix.2014, coll. Emiliyamma, Reg.nos. ZSI/WGRC/IR INV/ 14733, 14734

TL: India (♂♀)

TD: MNHN

Distribution: India: Kerala (Mukherjee and Hazra, 1991); Tamil Nadu: Trichirappali (Kirby, 1904)

Remarks: Endemic to south India.

Genus *Stictolampra* Hanitsch, 1930

7. *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.

TL: India: West Bangal: Kurseong (♀)

TD: Unknown

Distribution: India: Kerala, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Gujarat, Himachal Pradesh, Karnataka, Madhya Pradesh, Maharashtra, Meghalaya, Orissa, Punjab, Sikkim, Tripura, Tamil Nadu, Uttarakhand and West Bengal.

Elsewhere: Borneo; Java; Malaysia (Beccaloni, 2014)

Tribe THORACINI Rehn, 1951

Genus *Thorax* Saussure, 1862

8. *Thorax porcellana* (Saussure, 1862)

1862. *Phoraspsis (Thorax) porcellana* Saussure, *Rev. Mag. Zool.* 2(14): 228.

1865. *Paraphoraspsis notata* Brunner von Wattenwyl. *Nouveau Système des Blattaires.*: 164.

2014 *Thorax porcellana* Anisyutkin, *Zootaxa* 3847 (3): 321.

TL: India (♂)

TD: MHNG

Distribution: India: Kerala: Trivandrum, Cochin; Tamil Nadu: Coimbatore: Anamalai Hills, Nilgiris and Gudalur (Anisyutkin 2017); Goa; Karnataka: Mysore.

Elsewhere: Sri Lanka and Australia: Victoria (Beccaloni, 2014).

Genus *Rhabdoblattella* Anisyutkin, 1999

9. *Rhabdoblattella alexeevi* Anisyutkin, 2017

2017. *Rhabdoblattella alexeevi* Anisyutkin in Anisyutkin and Yushkova, *Zootaxa* 4236 (1): 48.

TL: India: Kerala (♂)

TD: MHNG

Distribution: India: Kerala: Idukki district, Cardamon Hills, Mattupatti near Munnar.

Remarks: Endemic to Kerala.

10. *Rhabdoblattella euptera* Anisyutkin, 2017

2017. *Rhabdoblattella euptera* Anisyutkin in Anisyutkin and Yushkova, *Zootaxa* 4236 (1): 52.

TL: India: Kerala (♂)

TD: MHNG

Distribution: India: Kerala: Idukki district, Cardamon Hills, Valara Falls.

Remarks: Endemic to Kerala.

Subfamily PANESTHIINAE

Genus *Panesthia* Serville, 1831

11. *Panesthia monstrosa* Wood-Mason, 1876

1876. *Panesthia monstrosa* Wood-Mason, *Journ. Asiat. Soc., Bengal* 15(2):189.

1897. *Panesthia panteli* Bolívar, *Annls. Soc. Ent. Fr.* 66: 307.

1979. *Panesthia monstrosa* Roth. *Aust. J. Zool., Suppl. Ser.*, 74: 107.

Material Examined: 3 ♂ **India:** Kerala: Idukki Dist. Periyar Tiger Reserve, Eramangalar, 7.ix.2015, coll. Sureshan, Reg.no. ZSI/WGRC/IR INV/14822.

TL: South India (♂♀)

TD: Unknown

Distribution: India: Kerala: Chalakudy, Cochin; Tamil Nadu: Coimbatore, Coonoor, Nilgiri, Anaikatti, Valparai, Thiruchirapalli, Madurai; West Bengal: Darjling: Kurseong; Sikkim (Roth, 1979).

Remarks: Endemic to India.

12. *Panesthia morosa* Kirby, 1903

1903. *Panesthia morosa* Kirby, *Ann. Mag. nat. Hist.* 7 (11): 412.

1979. *Panesthia morosa* Roth, *Aust. J. Zool., Suppl. Ser.*, 74: 73.

TL: India: Tamil Nadu (♂)

TD: BMNH

Distribution: India: Kerala: Trivandrum; Tamil Nadu: Anaimalai Hills (Roth, 1979).

Remarks: Endemic to south India.

13. *Panesthia paramonstruosa* Roth, 1979

1979. *Panesthia paramonstruosa* Roth, *Aust. J. Zool., Suppl. Ser.*, 74: 109.

Material Examined: 1♂, Eravikulam N.P, Mathikettan Sholai, Idukki District. 10.04.2012 coll. Sureshan, Reg.no. ZSI/WGRC/IR INV/ 14737; 1♂, Idukki District, Eravikulam N.P, Erachipara, 23.09.2014, coll. Emiliyamma, Reg.no. ZSI/WGRC/IR INV/ 14837 2♀, 2 Nymph Kambilipara Shola, Marayoor forest area, Idukki Dist. 20.05.2014. 1 ♂ Kambilipara Shola, Marayoor forest area, Idukki Dist. 23.05.2014, coll. Sureshan, Reg.nos. ZSI/WGRC/IR INV/ 14820,14826

TL: India: Kerala: Munnar (♂)

TD: CAS

Distribution: India: Kerala: Munnar; Tamil Nadu: Anaimalai Hills, Anaikatti.

Remarks: Endemic to south India.

Genus *Salganea* Stål, 1877

14. *Salganea erythronota* Bolívar, 1897

1897. *Salganea erythronota* Bolívar, *Annl. Soc. Ent. Fr.* 66: 301.

1979. *Salganea erythronota* Roth. *Australian Journal of Zoology Supp.* 27(69): 94.

Material Examined: 2♀, Mannavan Shola, 06.04.2012, coll. Sureshan, Reg.no. ZSI/WGRC/IR INV/14736; 1♀, Pambadum Shola N. P Idukki Dist. 26.5.2014, coll. Sureshan, Reg.no. ZSI/WGRC/IR INV/ 14823; 2 exs. Pullaradi Shola, Mannavan Shola, Idukki Dist. 27.05.2014, coll. Sureshan, Reg.no. ZSI/WGRC/IR INV/ 14819 1♀,

Chinna Anamudi, Idukki Dist, 20.09.2014, coll. Emiliyamma, Reg.no. ZSI/WGRC/IR INV/ 14821

TL: India: Tamil Nadu (♀)

TD: MNHN

Distribution: India: Kerala: Munnar; Tamil Nadu: Madurai: Shambaganaur, Trichy, Kodaikanal Hills, Palni Hills; Himalaya (Roth 1979a).

Remarks: Endemic to India.

15. *Salganea indica* Princis, 1953

1953. *Salganea indica* Princis, *Opuscula Entomologica* 18(1): 53.

1979. *Salganea indica* Roth, *Australian Journal of Zoology Supp.* 27(69): 63.

Material Examined: 1♂, 2♀, 9 nymphs, India: Kerala, Kozhikode district, Malabar Wildlife sanctuary, Panikkar Kadavu, 19.03.2012, coll. Sureshan, Reg.no. ZSI/WGRC/IR INV/ 14739. 2♀, 6 nymphs, Kattila Para, Kollam Dist. 21.01.2019, coll. Jafer Palot, Reg.no. ZSI/WGRC/IR INV/ 14829

TL: India: Tamil Nadu (♀)

TD: MNHM

Distribution: India: Kerala; Tamil Nadu: Anaimalai Hills; Chincona; Karnataka: Mysore (Roth 1979a).

Remarks: Endemic to South India.

Subfamily PERISPHAERINAE Brunner von Wattenwyl, 1865

Genus *Pseudoglomeris* Brunner von Wattenwyl, 1893

16. *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.



a) Dorsal view



b) Ventral view

Fig.1. *Thorax porcellana* (Saussure, 1862)



a) Dorsal view



b) Ventral view

Fig.2. *Neostylopyga rhombifolia* (Stoll, 1813)



a) Dorsal view



b) Ventral view

Fig. 3. *Periplaneta americana* (Linnaeus, 1758)



a) Dorsal view



b) Ventral view

Fig. 4. *Morphna indica* Anisyutkin, 2017



a) Dorsal view



b) Ventral view

Fig. 5. *Rhabdoblatta lineaticollis* (Bolívar, 1897)

a) Dorsal view



b) Ventral view

Fig. 6. *Morphna plana* (Branner Von wattermay, 1865)

a) Dorsal view



b) Ventral view

Fig. 7. *Salganea erythronota* Bolívar, 1897

a) Dorsal view



b) Ventral view

Fig. 8. *Panesthia paramonstruosa* Roth, 1979



a) Dorsal view



b) Ventral view

Fig. 9. *Neostylopyga ornata* (Brunner von Wattenwyl, 1865)

a) Dorsal view



b) Ventral view

Fig. 10. *Salganea indica* Princis, 1953

a) Dorsal view



b) Ventral view

Fig. 11. *Pycnoscelus indicus* (Fabricius, 1775)

1964. *Trichoblatta sericea* Princis.
Orthopterorum Catalogus (6): 208.

2018. *Pseudoglomeris sericea* (Saussure, 1863)
Xin-Ran Li *et.al.*, *Zootaxa* 4410 (2): 259.

TL: India: Tamil Nadu (♂)

TD: Unknown

Distribution: India: Kerala; Tamil Nadu; Puducherry; Andhra Pradesh; Bihar; Gujrat; Karnataka; Maharashtra; Orissa; Sikkim; West Bengal; Arunachal Pradesh; Meghalaya (Mukherjee, 1993).

Remarks: Endemic to India.

Subfamily PYCNOSCELINAE

Genus *Pycnoscelus* Scudder, 1862

17. *Pycnoscelus indicus* (Fabricius, 1775)1775. *Blatta indica* Fabricius, *Syst. Ent.*: 272.1964. *Pycnoscelus indicus* Princis,
Orthopterorum Catalogus (6): 270.**Material Examined:** 1 ♀, Pepparai dam,
Trivandrum Dist, 13.10.2012, coll.Emiliyamma,
Reg.no. ZSI/WGRC/IR INV/ 14827**TL:** India**TD:** ZMUC**Distribution in India:** Kerala**Elsewhere:** Sumatra, Thailand, Taiwan, Java,
Philippines, USA, Burma, China & Sri Lanka.
Circumtropical (Beccaloni, 2014).**Remarks:** Agricultural Pest.**Family ECTOBIIDAE Brunner von
Wattenwyl, 1865**

Subfamily BLATTELLINAE Karny, 1908

Genus: *Blattella* Caudell, 1903**18. *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.*: 92.1871. *Blatta subreticulata* Walker, *Cata. Derm.
Coll. Part V. Supp. Cata. Blat.* 23.1969. *Blattella humberiana* Princis.
Orthopterorum Catalogus (13): 842.**TL:** Sri Lanka**TD:** MHNG**Distribution: India:** Kerala; Puducherry: Mahe
(Roth,1985); Tamil Nadu; Bombay; Arunachal
Pradesh; West Bengal; Andhra Pradesh; Arunachal
Pradesh; Delhi; Karnataka; Maharashtra; Manipur;
Punjab; Jharkhand; Uttarakhand; Delhi; Meghalaya;
Orissa; Rajasthan and Tripura.**Elsewhere:** Sri Lanka; Burma; China (Beccaloni,
2014).**Family Blattidae** Latreille, 1810

Subfamily BLATTINAE Latreille, 1810

Genus *Hebardina* Bei-Bienko, 1938**19. *Hebardina concinna*** (Haan, 1842)1842. *Blatta (Periplaneta) concinna* Haan,
Verhand. natuurl. (16) 6: 50.1873. *Periplaneta borrei* Saussure. *Mem. Soc.
Geneve* 23. 113.1966. *Hebardina concinna* Princis,
Orthopterorum Catalogus (8): 466.1999. *Hebardina concinna* Roth, *Oriental
Insects*, 33(1): 172.**TL:** Indonesia: Java Island (♂♀)**TD:** Not Recorded**Distribution: India:** Kerala (Mukherjee 1993);
Tamil Nadu: Coimbatore: Anamalai Hills,
Tiruchirappalli; Uttar Pradesh: Nainital district;
Arunachal Pradesh; West Bengal: Howrah,
Jalpaiguri and Kolkata.**Elsewhere:** Burma; Malaysia (Malacca state);
Indonesia (Sumatra); Indonesia (Java Island);
Borneo Island (Beccaloni, 2014).**Remarks:** Domiciliary pest**Genus *Neostylopyga* Shelford, 1911****20. *Neostylopyga rhombifolia*** (Stoll, 1813)
(Harlequin Cockroach)1813. *Blatta rhombifolia* Stoll, *Represent. exact.
coloreed'apres nature d. Spectres*: 5.1966. *Neostylopyga rhombifolia* Princis.
Orthopterorum Catalogus (8): 534.**Material Examined:** 1 ♀, Kerala, Idukki district,
Chinnar Wildlife sanctuary, Vasyapara, coll.
Sureshan, 05.v.2012 Reg.no. ZSI/WGRC/IR INV/
14730.

TL: India: Bombay (♀)

TD: BMNH

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

Elsewhere: Sri Lanka, Mauritius (East Africa), Borneo; Celebes; Java; Malayasia; Sarawak; Sumatra. America (Beccaloni 2014)

21. *Neostylopyga ornata* (Brunner von Wattenwyl, 1865)

1865. *Periplaneta ornata* Brunner von Wattenwyl, *Nouveau Système des Blattaires.*: 225.

1966. *Neostylopyga ornata* Princis. *Orthopterorum Catalogus* (11): 537.

Material Examined: 2 exs. Kerala, Idukki district, Chinnar W.L.S, Surulipatti, 22.05.2014, coll. Sureshan, Reg.no. ZSI/WGRC/IR INV/ 14738.

TL: India (♀)

TD: Unknown

Distribution: India: Kerala; Tamil Nadu: Ramanathapuram: Kilakarai.

Remarks: Endemic to India: Tamil Nadu

Genus *Periplaneta* Burmeister, 1838

22. *Periplaneta americana* (Linnaeus, 1758)

1758. *Blatta americana* Linnaeus, *Systema naturae* 1, ed. 10, *Holmiae*: 424.

1966. *Periplaneta americana* (Linnaeus, 1758) Princis. *Orthopterorum Catalogus* (8): 405.

Material Examined: 1♂, Kerala, Kozhikode district, Kottooli wetlands, 9.12.2011 Coll. Sureshan, Reg.no. ZSI/WGRC/IR INV/ 14731

TL: America (♂)

TD: LSUK

Distribution: India: Kerala; Tamil Nadu: Thiruchirapalli, Arunachal Pradesh: Papumpare district; West Bengal, Sikkim.

Elsewhere: America and Cosmopolitan [African origin].

Remarks: This is a cosmopolitan species and one of the most important domiciliary cockroach pests.

Superfamily Corydioidea Saussure, 1864

Family Corydiidae Saussure, 1864

Subfamily CORYDIINAE Saussure, 1864

Genus *Therea* Billberg, 1820

23. *Therea petiveriana* (Linnaeus, 1758)

1758. *Cassida petiveriana* Linnaeus, *Syst. Nat.*: 364.

1767. *Cassida septemguttata* Linnaeus. *Syst. Nat.*: 577.

1963. *Therea petiveriana* Princis. *Orthopterorum Catalogus* (4): 84.

2008. *Therea petriviana* Fritzsche & Zompro. *Arthropoda* 16(4):20.

TL: India (♀)

TD: BMNH

Distribution: India: Kerala; Tamil Nadu: Coimbatore; Puducherry: Mahe.

Remarks: Endemic to India.

Based on a cursory survey of literature and by including the above mentioned 23 species, the checklist of cockroach fauna of Kerala is updated. Among these 10 species were listed earlier by Gupta and Chandra (2019) for Kerala, but their distribution within Kerala state was not mentioned. Study of specimens at WGRC has helped to bridge the gap. This checklist will be beneficial as a baseline data for future studies. Among the 23 species, 15 species are endemic to India in which eight species are endemic to south India and four species endemic to Kerala.

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