

## Research article

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with new combinations and new country records**Priyanka Das<sup>1</sup>, Kailash Chandra<sup>2</sup> & Devanshu Gupta<sup>3,\*</sup><sup>1,2,3</sup> Zoological Survey of India, M Block, New Alipore, Kolkata-700,053\*Corresponding author: Email: [devanshuguptagb4102@gmail.com](mailto:devanshuguptagb4102@gmail.com)<sup>1</sup>[urn:lsid:zoobank.org:author:DCB2893D-CFF9-43A4-9508-0C47389F43E9](https://zoobank.org/author:DCB2893D-CFF9-43A4-9508-0C47389F43E9)<sup>2</sup>[urn:lsid:zoobank.org:author:D26C02D0-9F20-44AE-A19C-B7AC83B3F67A](https://zoobank.org/author:D26C02D0-9F20-44AE-A19C-B7AC83B3F67A)<sup>3</sup>[urn:lsid:zoobank.org:author:529E2996-6242-487E-89FD-66D5AEC2486F](https://zoobank.org/author:529E2996-6242-487E-89FD-66D5AEC2486F)

**Abstract.** The present communication on ladybird beetles (Coccinellidae) of Arunachal Pradesh (AP), India, a part of Eastern Himalayan biodiversity hotspot, reports a total of 44 species belonging to 22 genera and 6 tribes. Thirty-eight species were examined and illustrated, including three new species records from India: *Illeis shensiensis* Timberlake, 1943, *Afissa rana* (Kapur, 1958), and *Henosepilachna vigintioctomaculata* (Motschulsky, 1857) (first confirmed record from India), and 26 species as new to Arunachal Pradesh. *Epilachna gibbera* Crotch, 1874, *E. mystica* Mulsant, 1850, and *E. undecimspilota* Hope, 1831 are transferred to the genus *Afissa*.

**Key words.** Checklist, new distributional records, taxonomy, Himalaya.

**INTRODUCTION**

The family Coccinellidae include around 6,000 described species belonging to 360 genera and 25 tribes under superfamily Coccinelloidea globally (Seago et al. 2011; Robertson et al. 2015), of which approximately 430 species are known from India (Jadwiszczak & Wegrzynowicz 2003; Poorani 2002b, 2004). The coccinellid fauna of Indian part of Himalaya is represented by more than 203 species with most of them recorded from North-west (68 species), Western (107 species), and Central Himalaya (133 species), and the eastern Himalaya in the state of Arunachal Pradesh (AP) remains largely unexplored (Gupta et al. 2018). The recent contributions on ladybird beetle fauna of AP have been made by Poorani & Booth (2016), Poorani & Sambath (2017), Poorani & Thangjam (2019), and Poorani (2019). Therefore, the present study is intended to fill this gap in the distribution and report the previously unrecorded species from the state, along with the new additions to the ladybird beetle fauna of India.

The present study, collectively with the previously published data (6 species), reports a total of 44 species of ladybird beetles belonging to 22 genera and 6 tribes of family Coccinellidae from the state. Among them, 38 species were examined and illustrated (Figs 1–53). Whereas, *Renius cornutus* Li & Wang, 2017, *Halyzia nepalensis* Canepari, 2003, *Halyzia sanscrita* Mulsant, 1853, *Harmonia manillana* (Mulsant, 1866), *Micraspis unicus* Poorani, 2019, and *Oenopia chinensis* (Weise, 1912) were included from literature. All the species are

listed with their valid names along with their major citations and their distribution in AP (in districts), India (in states) and outside India. *Illeis shensiensis* Timberlake, 1943 and *Afissa rana* (Kapur, 1958) are recorded for the first time from India along with the first verified record of *Henosepilachna vigintioctomaculata* (Motschulsky, 1857) from India, which was listed from India by Poorani (2004) in her updated checklist, but without any specific locality data. Twenty-six species have been reported for the first time from the state. New combinations are proposed here for three species of Epilachnini: *Afissa gibbera* (Crotch, 1874), comb. nov., *Afissa mystica* (Mulsant, 1850), comb. nov., and *Afissa undecimspilota* (Hope, 1831), comb. nov., based on the phylogenetic classification and revision of the world genera of tribe Epilachnini by Tomaszewska & Szawaryn (2016). These species were previously included in the genus *Epilachna*.

**MATERIALS AND METHODS**

The materials for the present study collected during recent faunistic surveys to Dihang-Dibang Biosphere Reserve, Namdapha National Park, and Tawang districts of AP along with the specimens, deposited at the Coleoptera Section of Zoological Survey of India, Kolkata. The specimens were identified with the help of following publications: Dieke (1947), Kapur (1946, 1948), Bielawski (1961), Iablokoff-Khnzorian (1982), Booth (1997), Poorani & Booth (2006), Poorani et al. (2008),

Ren et al. (2009), and Tomaszewska & Szawaryn (2016). The specimen identifications were verified also with Dr A.P. Kapur's Coccinellidae collection present at the Coleoptera Section, ZSI. Wherever required, the male genitalia was also dissected, cleaned in 10% KOH solution, and studied for confirming the identity of the species. The specimens were examined using a Nikon SMZ25 stereo zoom-microscope, and the photographs were taken using DS-Ri2 camera with NIS Elements BR 5.10.00 imaging software. Images were also slightly modified using Adobe Photoshop CS3. Scanning electron microscopy technique was also used and the images were taken using Carl Zeiss EVO18. The species with a single asterisk mark (\*) are newly recorded from AP whereas with two asterisks marks (\*\*) are recorded for the first time from India. The material examined in each species broadly includes the district in AP, micro locality, date of collection, number of examples, and collector name. The specimens are deposited in the National Zoological Collection of Zoological Survey of India, Kolkata (NZSI).

#### Institutional abbreviations

NZSI = Zoological Survey of India, M Block, New Alipore, Kolkata, 700053, India;  
 ZSI-CZRC = Zoological Survey of India, Central Zone Regional Centre, Vijay Nagar, Jabalpur, 482002, Madhya Pradesh;  
 NBAIR = National Bureau of Agricultural Insect Resources, Bellary Road, Bengaluru, 560024, Karnataka, India;  
 SCAU = South China Agriculture University, Guangzhou, 510640, China.

## RESULTS

### Taxonomic Account

#### Family Coccinellidae Latreille, 1807

#### Subfamily Coccinellinae Latreille, 1807

#### Tribe Aspidimerini Mulsant, 1850

#### Genus *Cryptogonus* Mulsant, 1850

**1. *Cryptogonus bimaculatus* Kapur, 1948** (Fig. 1)  
*Cryptogonus bimaculatus* Kapur, 1948: 100, fig. 8D.

**Material examined.** Papum Pare: Banderdewa, 11.iv.2001 (1 ♂), leg. Sheela.

**Distribution.** India: Arunachal Pradesh (Papum Pare), Assam, Nagaland, and Tamil Nadu. Elsewhere: Bhutan, China, Myanmar, Nepal, and Thailand (Kapur 1948; Canepari 1997; Poorani 2002b, 2004; Kovář 2007; Ren et al. 2009).

**2. *Cryptogonus quadriguttatus* (Weise, 1895)** (Fig. 2)\*  
*Aspidiphorus quadriguttatus* Weise, 1895: 326.  
*Cryptogonus quadriguttatus*: Weise, 1900: 428; Kapur, 1948: 97, fig. 7A–I.  
*Cryptogonus quadriguttatus* var. *confluens* Kapur, 1948: 99.  
*Cryptogonus quadriguttatus* var. *nigriscens* Kapur, 1948: 99.

**Material examined.** Papum Pare: Banderdewa, 11.iv.2001 (1 ♀) (25402/H4A), leg. Sheela.

**Distribution.** India: Arunachal Pradesh (Papum Pare), Assam, Goa, Nagaland, Uttar Pradesh, Uttarakhand, Sikkim, Tripura, and West Bengal. Elsewhere: Bhutan, and China (Kapur 1948, 1963; Poorani 2002b, 2004).

#### Tribe Chilacorini Mulsant, 1846

#### Genus *Renius* Li & Wang, 2017

#### 3. *Renius cornutus* Li & Wang, 2017

*Renius cornutus* Li & Wang, 2017 in Li et al. 2017: 122, 124.

**Distribution.** India: Arunachal Pradesh (Tiwari gaow). Elsewhere: China (Poorani & Thangjam, 2019).

**Remarks.** *R. cornutus* was described by Li & Wang (2017) from China (Tibet), the type material of which is deposited at SCAU. Recently, Poorani & Thangjam (2019) identified and reported this species from Arunachal Pradesh, based on a female specimen, deposited at NBAIR. We lack this species in our collection, therefore could not examine the material of the species.

#### Genus *Priscibrumus* Kovar, 1997

#### 4. *Priscibrumus uropygialis* Mulsant, 1853

 (Fig. 3)\*

*Exochomus uropygialis* Mulsant, 1853: 196.  
*Brumus uropygialis*: Crotch, 1874: 196.  
*Exochomus (Exochomus) uropygialis*: Barovsky, 1922: 297; Miyatake, 1985: 11–12, figs 19–22.  
*Priscibrumus uropygialis*: Kovář, 1997: 117.

**Material examined.** Changlang: Namdapha National Park, 24.vi.2017 (1ex.) (24904/H4A), 361m, leg. J. Saini.

**Distribution.** India: Arunachal Pradesh (Changlang), Himachal Pradesh, and Jammu & Kashmir. Elsewhere: Bhutan, Nepal, and Pakistan (Bielawski 1979; Canepari 1997; Poorani 2002b, 2004).

#### Tribe Coccinellini Latreille, 1807

#### Genus *Alloneda* Iablokoff-Khnzorian, 1979



**Figs 1–9.** Habitus of (1) *Cryptogonus bimaculatus* Kapur, 1948; (2) *Cryptogonus quadriguttatus* (Weise, 1895); (3) *Priscibrumus uropygialis* Mulsant, 1853; (4) *Alloneda dodecaspilota* (Hope, 1831); (5) *Calvia albida* Bielawski, 1972; (6) *Calvia sykesii* (Crotch, 1874); (7) *Coccinella luteopicta* (Mulsant, 1866); (8) *Coccinella septempunctata* Linnaeus, 1758; (9) *Coccinella transversalis* Fabricius, 1781.



**5. *Alloneda dodecaspilota* (Hope, 1831) (Fig. 4)\***

*Coccinella 12-spilota* Hope, 1831: 31.

*Caria duodecimspilota*: Mulsant, 1850: 236.

*Aiolocaria dodecaspilota*: Crotch, 1874: 178; Kapur, 1963, 26, fig. 9A.

*Palaeoneda dodecaspilota*: Mader, 1934: 302.

*Alloneda dodecaspilota*: Iablokoff-Khnzorian, 1982: 277, fig. 45b; Miyatake, 1985: 20, figs 38–42.

**Material examined.** West Kameng: Bokhar, 27.v.1961 (2 exs) (25302/H4A), 2800m, leg. K.C. Jayram.

**Distribution.** India: Arunachal Pradesh (West Kameng), Himachal Pradesh, Sikkim, and West Bengal. Elsewhere: Bhutan, China, Myanmar, Nepal, Thailand, and Vietnam (Miyatake 1985; Canepari 1997; Poorani 2002b, 2004).

**Genus *Calvia* Mulsant, 1846****6. *Calvia albida* Bielawski, 1972 (Fig. 5)\***

*Calvia albida* Bielawski, 1972: 308, figs 131, 132–139; Booth, 1997: 931, fig. 28, 41; Poorani, 2014: 4, figs 1d, 3.

**Material examined.** Tawang: Jang, 25.ix.2013 (2 exs) (25398/H4A), leg. P.P.B.

**Distribution.** India: Arunachal Pradesh (Tawang), Manipur, Sikkim, Uttar Pradesh, and West Bengal. Elsewhere: Nepal (Poorani 2002b, 2004; Poorani & Sambath, 2017).

**7. *Calvia sykesii* (Crotch, 1874) (Fig. 6)\***

*Anisocalvia sykesii* Crotch, 1874: 146.

*Calvia sykesii*: Korschefsky, 1932: 529; Booth, 1997: 930, fig. 27.

**Material examined.** Changlang: Namdapha National Park, Deban, 361m, 24.vi.2017 (4 exs) (24906/H4A), leg. J. Saini.

**Distribution.** India: Arunachal Pradesh (Changlang), Assam, Meghalaya, Sikkim, Tamil Nadu, and West Bengal. Elsewhere: Nepal (Booth 1997; Poorani 2002b, 2004).

**Genus *Coccinella* Linnaeus, 1758****8. *Coccinella luteopicta* (Mulsant, 1866) (Fig. 7)\***

*Adalia luteopicta* Mulsant, 1866: 45.

*Lioadalia luteopicta*: Crotch, 1874: 104; Bielawski, 1971: 7–8, figs 27–35.

*Coccinella luteopicta*: Iablokoff-Khnzorian, 1982: 395; Canepari, 1997: 52.

**Material examined.** East Kameng: Seppo, 3500m, 11.x.1996, (1 ex.) (25303/H4A), leg. S.K. Mondal. Tawang: 24.ix.2013, (1 ex.) (25304/H4A), leg. P.P.B.; Jang: 26.ix.2013 (1 ex.) (25305/H4A), leg. J. Majumder.

**Distribution.** India: Arunachal Pradesh (East Kameng, Tawang), Himachal Pradesh, Sikkim, Uttar Pradesh, and West Bengal. Elsewhere: Bhutan, China, and Nepal (Poorani 2002b, 2004; Kovář 2007).

**9. *Coccinella septempunctata* Linnaeus, 1758 (Fig. 8)**

*Coccinella 7-punctata* Linnaeus, 1758: 365.

*Coccinella septempunctata*: Korschefsky, 1932: 486.

*Coccinella divaricata* Olivier, 1808: 1001.

*Coccinella confusa* Wiedemann, 1823: 72.

*Coccinella bruckii* Mulsant, 1866: 90; Crotch, 1874: 46.

*Coccinella septempunctata bruckii*: Korschefsky, 1932: 491.

**Material examined.** West Kameng: Kalaktang, Stn. 17, 17.iii.1961, (1 ex.), Rahang, Stn. 34, 17.iv.1961, (1 ex.), Bomdila Pass, Stn. 33, 17.iv.1961, (1 ex.), Shergaon, Stn. 51, 05.v.1961, (1 ex.), Shergaon, Stn. 25, 08.v.1961, (2 exs), Moshing, Stn. 22, 11.v.1961, (2 exs), But Vill. Stn. 61, 24.vi.1961, (1 ex.), leg. K.C. Jayram. Gandhigram: 22.ii.1988 (1 ex.), 26.ii.1988 (1 ex.). Papum Pare: Kokila North of Chessa, 21.x.1996 (1ex.) (24302/H4A), leg. A.M. Biswas. Roing: Debang Valley, 25.i.2000 (1 ex.) (24303/H4A), Deopani, 250m, 29.i.2000 (2 exs) (25306/H4A), leg. S.K. Mondal. Ziro: Joram, 2.vi.2000 (3 exs) (24304/H4A), leg. B. Mitra. West Kameng: Tenga, 24.iv.2001 (1 ex.) (25307/H4A), leg. S. Sheela. Changlang: Namdapha National Park, Lankhal Nala, 6.iii.2017 (1 ex.) (25308/H4A), Deban River Bed, 345m, 12.iii.2017 (2 exs) (24309/H4A), Anamika Fall, 413m, 13.iii.2017 (1 ex.) (25310/H4A), leg. J. Saini. Tawang: Zemithang, 24.vi.2017 (3 exs) (24911/H4A), Lumla, 24.vi.2017 (1 ex.) (25311/H4A), 11.iv.2018 (1 ex.) (24912/H4A), Namtsering, 15.iv.2018 (1 ex.) (24913/H4A)/16.iv.2018 (1 ex.) (24914/H4A), 17.iv.2018 (7 exs) (24915/H4A), leg. J. Saini. Dihang Dibang Biosphere Reserve, Maliny, 25.x.2017 (5 exs) (24437/H4A), leg. D. Gupta.

**Distribution.** Widely distributed throughout India including Arunachal Pradesh (Gandhigram, Papum Pare, Roing, Ziro, West Kameng, Changlang, Tawang, Dihang Dibang Biosphere Reserve). Elsewhere: China, Afro-tropical Region, North America, Pakistan, and Sri Lanka (Poorani 2002b, 2004; Kovář 2007; Poorani & Sambath 2017).

**10. *Coccinella transversalis* Fabricius, 1781 (Fig. 9)\***

*Coccinella transversalis* Fabricius, 1781: 97; Iablokoff-Khnzorian, 1979: 68.

*Coccinella repanda* Thunberg, 1781: 18.

**Material examined.** Papum Pare: Kokila North of Chessa, 21.x.1996 (1ex.) (24299/H4A), leg. A.M. Biswas; Balijan, 23.x.1996 (1ex.) (24300/H4A), leg. S.K. Mondal; Baderdewa: 11.iv.2001 (2 exs) (24301/H4A), leg. Sheela. East Siang: Boleng, 18.i.2000 (1 ex.) (25312/

H4A), leg. S.K. Mondal. Dihang Dibang Biosphere Reserve, Maliny, 25.x.2017 (4 exs) (24436/H4A), leg. D. Gupta.

**Distribution.** Widely distributed in throughout India including Arunachal Pradesh (Papum Pare, Baderdewa, East Siang, Dihang Dibang Biosphere Reserve). Elsewhere: Australia, Bangladesh, Indochina, Indonesia, Japan, Nepal, New Zealand, and Sri Lanka (Poorani 2002b, 2004).

**Remarks.** It is commonly distributed species in India but was not earlier reported from the state of Arunachal Pradesh.

### Genus *Coelophora* Mulsant, 1850

#### 11. *Coelophora bissellata* Mulsant, 1850 (Fig. 10)\*

*Coelophora bissellata* Mulsant, 1850: 400.

*Spilocaria bissellata*: Timberlake, 1943: 58.

*Lemnia (Spilocaria) bissellata*: Iablokoff-Khnzorian, 1979: 62.

*Lemnia bissellata*: Hoàng , 1983: 74; Iablokoff-Khnzorian, 1982: 218.

*Caria gracilicornis* Weise, 1902: 505.

**Material examined.** Siang, NEFA: 10.xi.1971 (1 ex. on leaves,) (25318/H4A), leg. S. Ghose. Papum Pare: Kokila, North of Chessa, 21.x.1996 (1 ex.) (25315/H4A), leg. A.M. Biswas; Banderdewa, 11.iv.2001 (1 ex.) (25320/H4A), leg. Sheela. Debang Valley: Kannu North, 1.ii.2000 (1 ex.) (25322/H4A), leg. S.K. Mondal. Roing : Diban Valley, 29.ix.2000 (1 ex.) (25319/H4A), leg. R.S. Mridha. Itanagar: Ganga Lake, 28.v.2000 (4 exs) (25314/H4A), leg. T.K.Mondal; Naharlagun, 530m, 29.v.2000 (1 ex.) (25321/H4A), leg. K. Bhattacharya. West Siang: Aalo (formerly Along), Hissan Colony, 11.vi.2000 (2 exs) (25317/H4A), leg. R.S. Mridha. East Kameng: Rang, Gthili, 17.ix.2000 (5 exs) (25313/H4A), leg. A.R. Lahiri. Changlang, Deban Rest House, 4.iii.2017 (1 ex.) (25316/H4A), leg. J. Saini.

**Distribution.** India: Arunachal Pradesh (Siang, Papum Pare, Roing, Debang Valley, West Siang, East Kameng, Changlang), Assam, Himachal Pradesh, Karnataka, Kerala, Manipur, Meghalaya, Sikkim, Tamil Nadu, Uttar Pradesh, and West Bengal. Elsewhere: Bhutan, Bangladesh, China, Indonesia, Nepal, New Guinea, Philippines, Thailand, and Vietnam (Poorani 2002b, 2004; Kovář 2007).

### Genus *Halyzia* Mulsant, 1846

#### 12. *Halyzia dejavu* Poorani & Booth, 2006 (Fig. 11)

*Halyzia dejavu* Poorani & Booth, 2006: 66, pl. 1B, figs 10–17.

**Material examined.** Changlang: Deban, 24.xii.2017 (1ex.) (24905/H4A), leg. J. Saini.

**Distribution.** India: Arunachal Pradesh (Changlang, Tawang), Sikkim; Nepal (Poorani & Booth 2006; Poorani & Sambath 2017).

#### 13. *Halyzia nepalensis* Canepari, 2003

*Halyzia nepalensis* Canepari 2003: 261, figs 1–2.

**Distribution.** India: Arunachal Pradesh. Elsewhere: Myanmar, and Nepal (Poorani & Thangjam 2019).

**Remarks.** Poorani & Thangjam (2019) reported this species from Arunachal Pradesh, based on photographic records, which they found identical with the specimens from Myanmar, deposited at NZSI. The specimens of this species from Arunachal Pradesh were unavailable with us for examination.

#### 14. *Halyzia sanscrita* Mulsant, 1853

*Halyzia sanscrita* Mulsant, 1853: 152.

**Distribution.** India: Arunachal Pradesh (Tawang), Himachal Pradesh, Sikkim, and Uttarakhand. Elsewhere: Bhutan, China, and Nepal (Poorani 2002b, 2004; Kovář 2007; Poorani & Sambath 2017).

**Remarks.** Poorani & Sambath (2017) recorded this species from Tawang, Arunachal Pradesh, based on the specimens, deposited at ZSI-CZRC, which were examined by the authors.

### Genus *Harmonia* Mulsant, 1846

#### 15. *Harmonia dimidiata* (Fabricius, 1781) (Fig. 12)

*Coccinella dimidiata* Fabricius, 1781: 94.

*Coccinella dimidia* Hope, 1831: 30.

*Leis dimidiata*: Mulsant, 1850: 242.

*Coccinella quindecimmaculata* Hope, 1831: 30.

*Coccinella bicolor* Hope, 1831: 31.

*Harmonia dimidiata*: Miyatake, 1965: 62.

**Material examined.** West Kameng: Salari, Stn. 60, 22.vi.1961, (2 exs), But village, Stn. 61, 24.vi.1961, (1 ex.), Dengzi, Stn. 16, 25.vi.1961, (1 ex.), leg. K.C. Jayram.

**Distribution.** India: Arunachal Pradesh (West Kameng, Tawang), Assam, Himachal Pradesh, Jammu & Kashmir, Manipur, Punjab, Rajasthan, Sikkim, and West Bengal. Elsewhere: Bhutan, China, Japan, Nepal, and Pakistan (Poorani 2002b, 2004; Kovář 2007; Poorani & Sambath 2017).



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**Figs 10–18.** Habitus of (10) *Coelophora bissellata* Mulsant, 1850; (11) *Halyzia dejavu* Poorani & Booth, 2006; (12) *Harmonia dimidiata* (Fabricius, 1781); (13) *Harmonia eucharis* (Mulsant, 1853); (14) *Harmonia sedecimnotata* (Fabricius, 1801); (15) *Hippodamia variegata* (Goeze, 1777); (16) *Illeis confusa* Timberlake, 1943; (17) *Illeis indica* Timberlake, 1943; (18) *Macroilleis hauseri* (Mader, 1930).



**16. *Harmonia eucharis* (Mulsant, 1853)** (Fig. 13)*Ballia eucharis* Mulsant, 1853: 167.

**Material examined.** West Kameng: Rahung, Stn. 34, 7.iv.1961, (1 ex.), Rahung, Stn. 35, (1 ex.) 24.iv.1961, leg. K.C. Jayram. Tawang: Zemithang, 24.vi.2017, (1 ♀), leg. J. Saini. Dibang Valley, Dihang Dibang Biosphere Reserve, Mipi, 01.xi.2017 (1 ex), leg. D. Gupta.

**Distribution.** India: Arunachal Pradesh (Tawang, West Kameng, Dihang Dibang Biosphere Reserve), Jammu and Kashmir, Himachal Pradesh, Manipur, Sikkim, Uttarakhand, and Uttar Pradesh. Elsewhere: China, Myanmar, Nepal, and Pakistan (Poorani 2002b, 2004; Kovář 2007; Poorani & Sambath, 2017).

**Remarks.** See Kovář (2007) for synonyms.

**17. *Harmonia manillana* (Mulsant, 1866)***Caria manillana* Mulsant, 1866: 170.*Leis atrocincta* Mulsant, 1866: 175.*Neda paulinae* Mulsant, 1866: 203.*Leis dunlopi* Crotch, 1874: 121.*Leis cerasicolor* Crotch, 1874: 121.*Leis aterrima* Crotch, 1874: 121.*Leis papuensis* Crotch, 1874: 121.*Leis papuensis* var. *suffusa* Crotch, 1874: 121.

**Distribution.** India: Arunachal Pradesh (Pasighat). Elsewhere: Philippines, Malaysia, and Indonesia (Iablokoff-Khnzorian 1982; Poorani & Booth 2016).

**Remarks.** Poorani & Booth (2016) first time recorded this species from the Palearctic region of Arunachal Pradesh, and also mentioned to be very rare in mainland India. Earlier, the species was known from the oriental region of Indonesia, Malaysia, and the Philippines. We could not find specimen of this species from the study area in our collection.

**18. *Harmonia sedecimnotata* (Fabricius, 1801)** (Fig. 14)\**Coccinella sedecimnotata* Fabricius, 1801: 370.*Daulis 16-notata*: Mulsant, 1850: 296.*Callineda sedecimnotata*: Crotch, 1874: 161.*Harmonia sedecimnotata*: Timberlake, 1943: 18.

**Material examined.** Changlang: Namdapha National Park, Deban, 24.vi.2017 (3 exs) (24918/H4A), leg. J. Saini.

**Distribution.** India: Arunachal Pradesh (Changlang), Sikkim, and West Bengal. Elsewhere: China, Nepal, and Southeast Asia (Poorani 2002b, 2004; Kovář 2007).

**Genus *Hippodamia* Chevrolat, 1836****19. *Hippodamia variegata* (Goeze, 1777)** (Fig. 15)\**Coccinella variegata* Goeze, 1777: 246.*Adonia variegata*: Mulsant, 1846: 39.*Hippodamia variegata*: Belicek, 1976: 338.*Hippodamia* (*Adonia*) *variegata*: Iablokoff-Khnzorian, 1982: 326.

**Material examined.** West Kameng: Dengzi, Stn. 16, 25.v.1961 (2 exs); Salari, Stn. 60, 22.vi.1961 (2 exs), leg. K.C. Jayram.

**Distribution.** India: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Maharashtra, and Uttar Pradesh. Elsewhere: widely distributed in Afrotropical, Nearctic, Oriental regions; Afghanistan, China, Nepal, and Pakistan (Poorani 2002b, 2004; Kovář 2007).

**Genus *Illeis* Mulsant, 1850****20. *Illeis confusa* Timberlake, 1943** (Fig. 16)\**Illeis confusa* Timberlake, 1943: 61.

**Material examined.** Tawang: Zemithang, 24.vi.2017 (1 ♂) (24909/H4A), leg. J. Saini.

**Distribution.** India: Arunachal Pradesh (Tawang), Assam, and West Bengal. Elsewhere: China, Nepal, and Thailand (Poorani 2002b, 2004; Poorani & Lalitha 2018; Kovář 2007).

**21. *Illeis indica* Timberlake, 1943** (Fig. 17)\**Illeis indica* Timberlake, 1943: 61.

**Material examined.** Tawang: Zemithang, 24.vi.2017 (1 ex.), leg. J. Saini.

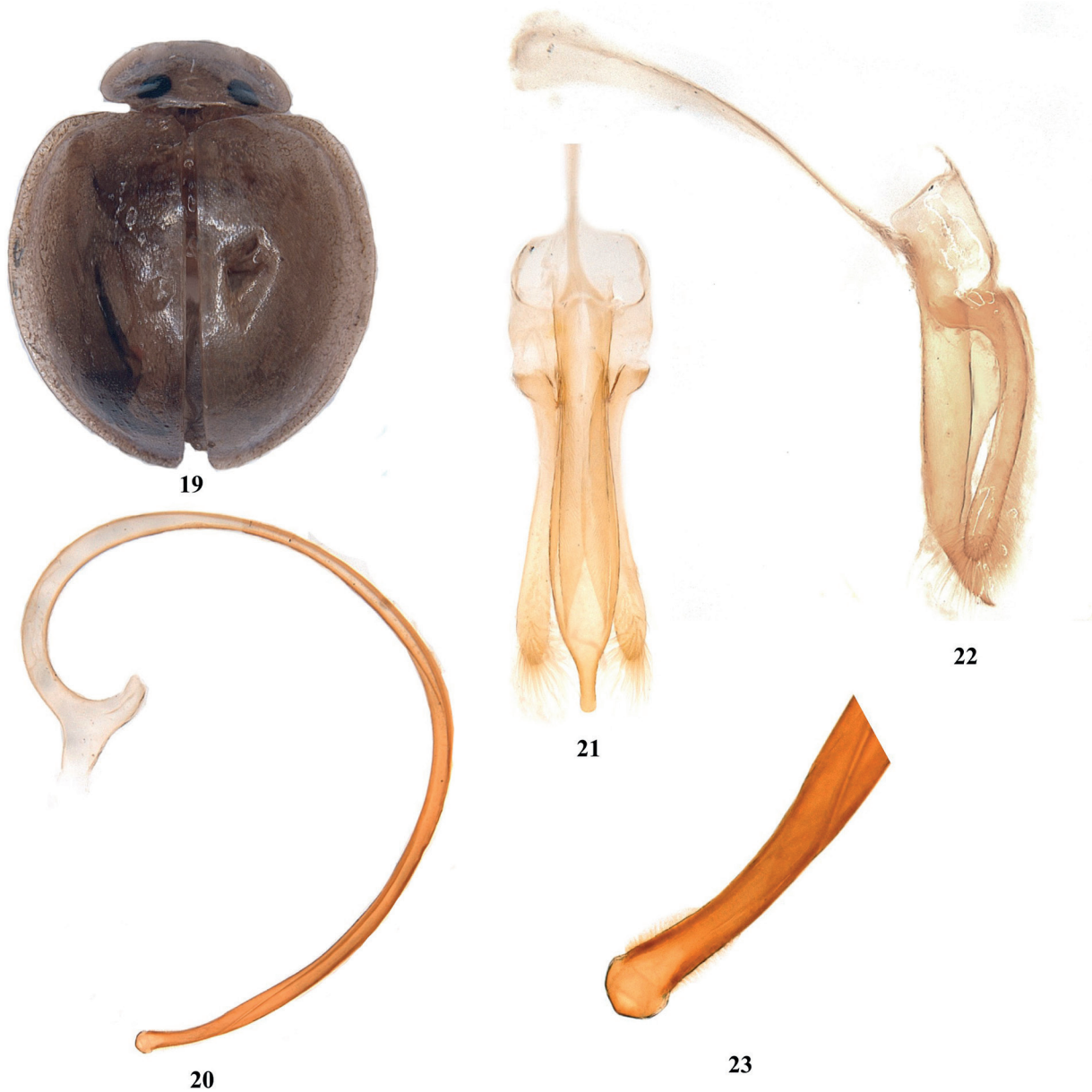
**Distribution.** India: Arunachal Pradesh (Tawang), Jammu & Kashmir, Himachal Pradesh, and Uttar Pradesh. Elsewhere: Pakistan, and Thailand (Poorani 2002b, 2004; Kovář 2007).

**22. *Illeis shensiensis* Timberlake, 1943** (Figs 19–23)\*\**Illeis shensiensis* Timberlake, 1943: 61; Bielawski, 1961: 358, figs 5–6, 14; Ren et al., 2009: 243.

**Material examined.** Changlang: Deban, 355 m, 24.xii.2017 (2 ♂♂) (25409/H4A), leg. J. Saini.

**Distribution.** India: Arunachal Pradesh (Changlang). Elsewhere: China (Shensi), and Pakistan (Kovář 2007; Hayat et al. 2017).

**Remarks:** *I. shensiensis* can be distinguished from closely related species by the following characters: pro-



**Figs 19–23.** *Illeis shensiensis* Timberlake, 1943. (19) Habitus; (20) Siphus; (21) Phallobase in dorsal view; (22) Phallobase in lateral; (23) Apical portion of Siphus.

notum with two small black marks (Fig 19), siphus not bifid at apex (Fig 23), median lobe of tegmen having apex strongly curved upward and more or less depressed (Figs 21, 22), parameres shorter and stouter and somewhat strongly curved at base, otherwise straight (Fig 21). The male genitalia of our specimen is identical with that of *I. shensiensis* as illustrated in Bielawski (1961: 358, Figs 5–6, 14) and Ren et al. (2009: 243, Fig 325).

#### Genus *Macroilleis* Miyatake, 1965

#### 23. *Macroilleis hauseri* (Mader, 1930) (Fig. 18)

*Halyzia hauseri* Mader, 1930: 162.

*Macroilleis hauseri*: Miyatake 1965: 71–73.

**Material examined.** Tawang: Zemithang, 24.vi.2017 (1 ♂) (25399/H4A), leg. J. Saini.

**Distribution.** India: Arunachal Pradesh (Tawang), and West Bengal. Elsewhere: Bhutan, China, Vietnam, and



Pakistan (Poorani 2002b; 2004; Kovář 2007; Poorani & Sambath 2017).

**Genus *Menocheilus* Timberlake, 1943**

**24. *Menocheilus sexmaculata* (Fabricius, 1781)** (Fig. 24)

*Coccinella sexmaculata* Fabricius, 1781: 96.

**Material examined.** Papum Pare: Bandardewa, 11.iv.2001 (2exs) (24307/H4A), leg. Sheela. Dihang Dibang Biosphere Reserve, Maliny, 25.x.2017 (2 exs) (24438/H4A), leg. D. Gupta.

**Distribution.** Widely distributed in India including Arunachal Pradesh (Papum Pare; Dihang Dibang Biosphere Reserve). Elsewhere: Australian region, Arab Emirates, Afghanistan, Bangladesh, Bhutan, China, Indonesia, Iran, Japan, Malaysia, Myanmar, Nepal, Oman, Pakistan, Sri Lanka, Philippines, and Vietnam (Poorani 2002b, 2004; Kovář 2007).

**Remarks.** See Kovář (2007: 619) for synonymy.

**Genus *Micraspis* Chevrolat, in Dejean, 1836**

**25. *Micraspis univittata* (Hope, 1831)** (Fig. 25)\*

*Coccinella univittata* Hope, 1831: 31.

*Alesia univittata*: Mulsant, 1850: 357.

*Tytthaspis univittata*: Korschefsky, 1932: 384.

*Micraspis univittata*: Iablokoff-Khnzorian, 1982: 511.

**Material examined.** Along: Hissan Colony, 11.vi.2000 (1 ex.) (25408/H4A), leg. R.S. Mridha.

**Distribution.** India: Arunachal Pradesh (Along), Andhra Pradesh, Bihar, Karnataka, Odisha, Tamil Nadu, Tripura, and Uttarakhand. Elsewhere: China, and Nepal (Poorani 2002b; 2004; Kovář 2007).

**26. *Micraspis unicus* Poorani, 2019**

*Micraspis unicus* Poorani, 2019: 190, fig. 1.

**Distribution.** India: Arunachal Pradesh (Mayodia).

**Remarks.** This species was described recently by Poorani (2019) from Arunachal Pradesh, based on male, holotype and female paratype, deposited at NBAIR. We could not find any specimen of this species in our collection.

**Genus *Oenopia* Mulsant, 1850**

**27. *Oenopia chinensis* (Weise, 1912)**

*Coelophora chinensis* Weise, 1912: 113.

*Gyrocaria chinensis*: Miyatake, 1965: 65.

*Oenopia chinensis*: Hoàng, 1983: 91.

**Distribution.** India: Arunachal Pradesh (Pasighat), and Meghalaya. Elsewhere: China (Poorani 2002a, 2002b; 2004; Kovář 2007; Poorani & Thangjam 2019).

**Remarks.** Earlier known from China, this species was reported from India by Poorani & Thangjam (2019), based on a female specimen from Meghalaya and larvae from Arunachal Pradesh, materials of which are deposited at NBAIR. We could not find any adult specimen of this species from the study area in our collection.

**28. *Oenopia kirbyi* Mulsant, 1850** (Fig. 26)\*

*Oenopia kirbyi* Mulsant, 1850: 425; Poorani, 2002a: 102, figs 4, 16, 23, 31.

*Gyrocaria kirbyi*: Miyatake, 1965: 66, fig. 34.

**Material examined.** Dihang Dibang Biosphere Reserve: Maliney, 27.x.2017 (1ex.) (24432/H4A); Anini, 27.x.2017 (1ex.) (24433/H4A), leg. D. Gupta. Siang: NEFA, 10.xi.1971 (1 ex. on leaves) (25404/H4A), leg. S. Ghose. Roing: Dibang Valley, 250 m, 25.i.2000 (2 exs) (25405/H4A), 27.i.2000 (1 ex.) (25406/H4A), 29.i.2000 (5 exs) (25407/H4A), leg. S.K. Mondal.

**Distribution.** India: Arunachal Pradesh (Dihang-Dibang Biosphere Reserve, Siang, Roing), Meghalaya, Mizoram, Sikkim, and West Bengal; Bhutan. Elsewhere: China, Myanmar, Nepal, and Thailand (Poorani 2002a, 2002b, 2004; Kovář 2007).

**29. *Oenopia mimica* Weise, 1902** (Fig. 27)\*

*Oenopia mimica* Weise, 1902: 505; Poorani, 2002a: 104, figs 5, 17, 24, 32.

*Gyrocaria mimica*: Miyatake, 1985: 16.

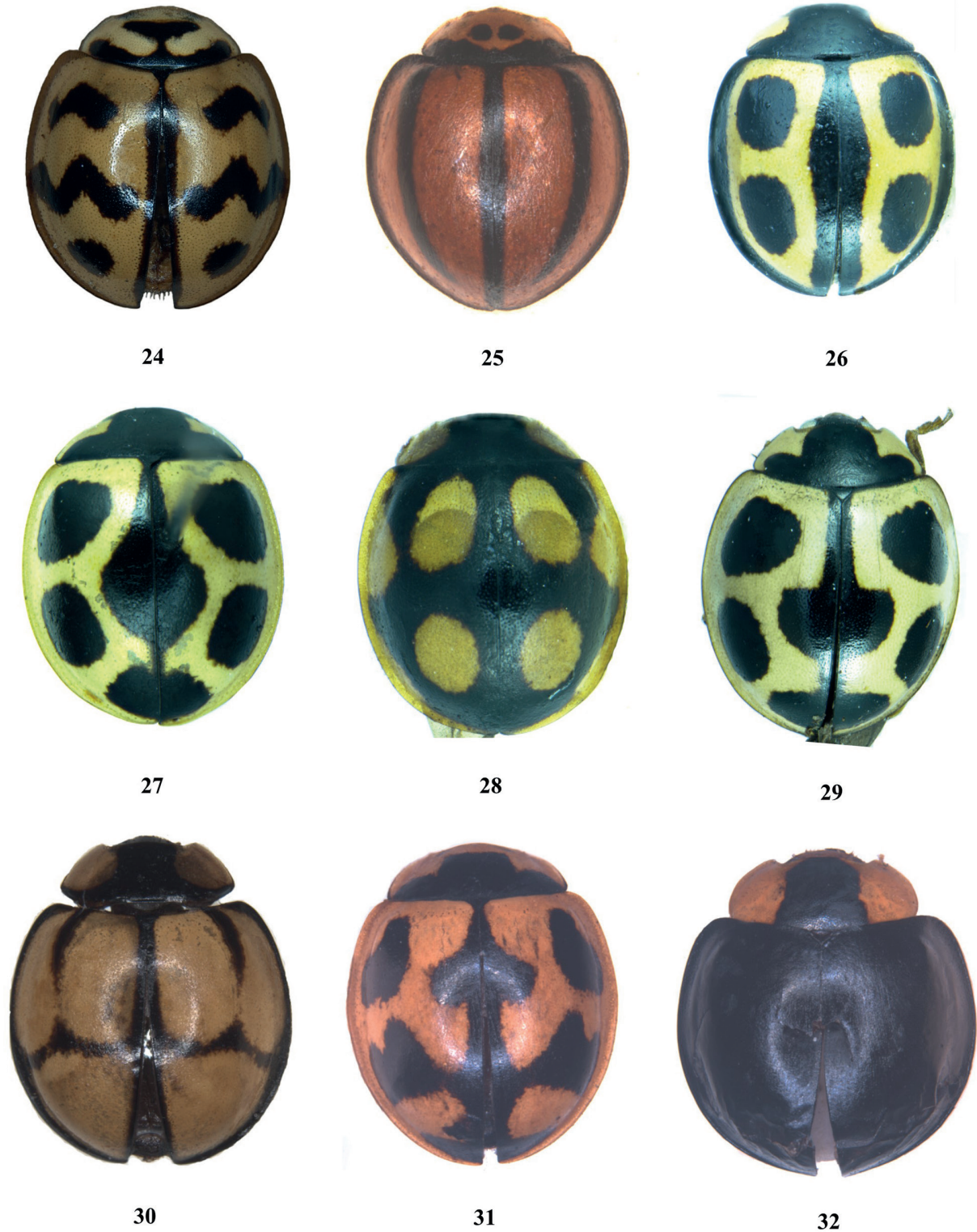
**Material examined.** Siang: NEFA, 10.xi.1971 (1 ex. on leaves) (25324/H4A), leg. S. Ghose. Lower Subansiri: Bandardewa, 19.x.1996 (1 ex.) (25325/H4A), leg. S.K. Mondal. Tawang: Jung, 23.ix.2013 (2 exs) (25323/H4A), leg. J. Majumder. Dihang Dibang Biosphere Reserve, Anini, 25.x.2019 (1 ex.), leg. D. Gupta.

**Distribution.** India: Arunachal Pradesh (Tawang, Siang, Lower Subansiri), Himachal Pradesh, Uttar Pradesh, and Sikkim. Elsewhere: Laos, Myanmar, and Nepal (Poorani 2002a, 2002b, 2004; Kovář 2007).

**30. *Oenopia quadripunctata* Kapur, 1963** (Fig. 28)\*

*Oenopia quadripunctata* Kapur, 1963: 27; Poorani, 2002a: 102, fig. 3.

**Material examined.** Debang Valley: Old Aloppa, 16.ix.2000 (1 ex.), leg. A.R. Lahiri.



**Figs 24–32.** Habitus of (24) *Menocheilus sexmaculata* (Fabricius, 1781); (25) *Micraspis univittata* (Hope, 1831); (26) *Oenopia kirbyi* Mulsant, 1850; (27) *Oenopia mimica* Weise, 1902; (28) *Oenopia quadripunctata* Kapur, 1963; (29) *Oenopia sauzeti* Mulsant, 1866; (30) *Oenopia sexareata* (Mulsant, 1853); (31) *Propylea luteopustulata* (Mulsant, 1850); (32) *Synona melanopepla* (Mulsant, 1850).

**Distribution.** India: Arunachal Pradesh (Debang Valley), Meghalaya, Mizoram, Nagaland, Sikkim, and West Bengal. Elsewhere: Bhutan, China, Myanmar, and Nepal (Poorani 2002a, 2002b, 2004; Kovář 2007).

### 31. *Oenopia sauzeti* Mulsant, 1866 (Fig. 29)

*Oenopia sauzeti* Mulsant, 1866: 281; Poorani, 2002a: 103, figs 6, 18, 25, 33.

*Gyrocaria sauzeti*: Miyatake, 1967: 76; 1985: 15, figs 30–33.

**Material examined.** Lower Subansiri: Banderdewa, 25.i.2000 (1 ex.) (24295/H4A), leg. S.K. Mondal. West Kameng, Kalaktang, Stn.17, 17.iii.1961 (1 ex.), Dukongko River, 02.v.1961 (1 ex.); Rupa, Stn. 29, 03.v.1961 (1 ex.); Shergaon, Stn. 51, 5.v.1961 (1 ex.)/Stn. 25, 8.v.1961 (2 exs); Domko, Stn. 52, 10.v.1961 (1 ex.); Moshing, Stn. 22, 11.v.1961 (1 ex.); Dengzi, Stn. 16, 25.v.1961 (3 exs); Ankaling, Stn. 12, 25.v.1961 (1 ex.), leg. K.C. Jayram. Changlang: Namdapha National Park, 361m, 24.vi.2017 (1 ex.) (24855/H4A), leg. J. Saini.

**Distribution.** India: Arunachal Pradesh (Changlang: Namdapha National Park, West Kameng, Lower Subansiri), Assam, Himachal Pradesh, Jammu & Kashmir, Meghalaya, Sikkim, Uttar Pradesh, and West Bengal. Elsewhere: Bhutan, China, Pakistan, Laos, Myanmar, Nepal, Thailand, and Vietnam (Poorani 2002a, 2002b, 2004; Kovář 2007; Poorani & Sambath 2017).

### 32. *Oenopia sexareata* (Mulsant, 1853) (Fig. 30)

*Coelophora sexareata* Mulsant, 1853: 181; Poorani, 2002a: 101, figs 2, 15, 22, 30.

*Coelophora sexareata* var. *lacerata* Sicard, 1913: 500.

*Gyrocaria sexareata*: Miyatake, 1967: 76.

*Oenopia sexareata*: Hoàng, 1983: 62, 92.

**Material examined.** West Kameng: Rahung, Stn.35, 24.iv.1961, (1 ex.), Siggun, Stn.50, 4.v.1961, (3 exs), Denzi, Stn.16, 25.v.1961, (1 ex.) leg. K.C. Jayram, Lower Subansiri: Banderdewa, 19.x.1996 (1 ex.) (25327/H4A), leg. A.M. Biswas. Roing: Dibang Valley, 250m, 25.i.2000 (1 ex.) (25328/H4A), 29.i.2000 (3 exs) leg. S.K. Mondal. Papum Pare: Banderdewa, 11.iv.2001 (2 exs) (25329/H4A) leg. Sheela. Dihang Dibang Biosphere Reserve: Maliney, 27.x.2017 (1ex.) (24434/H4A) leg. D. Gupta.

**Distribution.** India: Arunachal Pradesh (Lower Subansiri, Roing, Papum Pare, West Kameng, Dihang Dibang Biosphere Reserve), Assam, Bihar, Himachal Pradesh, Meghalaya, Sikkim, Uttar Pradesh, and West Bengal. Elsewhere: Bhutan, China, Indonesia, Japan, Myanmar,

Nepal, and Vietnam (Canepari 1997; Poorani 2002a, 2002b, 2004; Kovář 2007).

### Genus *Propylea* Mulsant, 1846

#### 33. *Propylea luteopustulata* (Mulsant, 1850) (Fig. 31)

*Oenopia* (*Pania*) *luteopustulata* Mulsant, 1850: 421.

*Propylea luteopustulata*: Vandenberg & Gordon, 1991: 30.

**Material examined.** West Kameng: Kalaktang, Stn.17, 17.iii.1961, (1 ex.); Rahung, Stn. 35, 24.iv.1961, (1 ex.); Rahung, Stn. 34, 25.iv.1961, (1 ex.); Siggun, Stn. 50, 4.v.1961, (1 ex.); Shergaon, Stn. 25, 08.v.1961 (1 ex.); Domko, Stn. 52, 10.v.1961, (1 ex.); Moshing, Stn. 22, 11.v.1961 (1 ex.); Dengzi, Stn.16, 15.v.1961, (1 ex.); Ankaling, Stn. 12, 15.v.1961 (2 exs), leg. K.C. Jayram; Zamiri, 14.x.1997 (1 ex.), leg. S.K. Mondal. Siang: NEFA, 10.xi.1971 (2 exs on leaves), leg. S. Ghose. Lower Subansiri: Banderdewa, 19.x.1996 (2 exs), leg. A.M. Biswas. Tawang: Center Dirang, 15.xi.1997 (2 exs on foliage), leg. A.K. Sanyal. Roing: Debang Valley, Rukmo, 27.i.2000 (2 exs), leg. S.K. Mondal. Changlang: Namdapha National Park, 361m, 24.vi.2017 (1 ex.), leg. J. Saini.

**Distribution.** India: Arunachal Pradesh (Siang, Lower Subansiri, Tawang, West Kameng, Roing, Changlang), Assam, Andaman & Nicobar Islands, Himachal Pradesh, Meghalaya, Uttar Pradesh, Sikkim, and West Bengal. Elsewhere: Bhutan, China, Myanmar, Nepal, Sri Lanka, Thailand, and Vietnam (Poorani 2002b, 2004; Kovář 2007; Poorani & Sambath 2017).

### Genus *Synona* Pope, 1989

#### 34. *Synona melanopepla* (Mulsant, 1850) (Fig. 32)\*

*Synia melanopepla* Mulsant, 1850: 376.

*Synia melanaria* ab. *melanopepla*: Korschefsky, 1932: 276.

*Leis rougeti* Mulsant, 1866: 175.

*Synia melanaria* ab. *rougeti*: Korschefsky, 1932: 276.

*Synona melanopepla*: Poorani et al., 2008: 583, figs 1, 2, 17–22, 52, 53.

**Material examined.** Roing: Dibang Valley, 19.ix.2000 (1 ♂) (25326/H4A), leg. R.S. Mridha.

**Distribution.** India: Arunachal Pradesh (Roing), Assam, Bihar, Karnataka, Meghalaya, Odisha, Tamil Nadu, and Uttar Pradesh. Elsewhere: Vietnam (Kovář 2007; Poorani et al. 2008).



**Tribe Epilachnini Mulsant, 1846****Genus *Afissa* Dieke, 1947**

Tomaszewska & Szawaryn (2016) in their revision of world genera of Epilachnini, proposed *Epilachna* to be a new world genus and established *Afissa* as a valid genus. Here, three species *Epilachna gibbera* Crotch, 1874, *Epilachna mystica* Mulsant, 1850, and *Epilachna undecimspilota* Hope, 1831 are combined with *Afissa* based on the shared morphological characters, proposed by Tomaszewska & Szawaryn (2016) for the genus: Lateral margins of elytra not or hardly visible dorsally, sometimes narrowly explanate, and meta-ventral and abdominal post-coxal lines present.

**35. *Afissa gibbera* (Crotch, 1874) comb. nov.** (Fig. 33)\*

*Epilachna gibbera* Crotch, 1874: 80.

*Afissa gibbera*: Kapur, 1963: 10.

*Epilachna gibbera*: Jadwyszczak & Węgrzynowicz, 2003: 69.

**Material examined.** Tawang: Camp, Stn. No., 14.xii.1985, (1 ♂), leg. S.K.B. & ANTJ.

**Distribution.** India: Arunachal Pradesh (Tawang), and Sikkim. Elsewhere: Nepal (Poorani 2004).

**36. *Afissa mystica* (Mulsant, 1850) comb. nov.** (Figs 41–50)

*Epilachna mystica* Mulsant, 1850: 841.

*Afissa mystica*: Dieke, 1947: 146, figs 100, 169.

*Epilachna mystica*: Li & Cook, 1961: 51.

**Material examined.** West Kameng: Munna, 8500 m, 10.x.1996, (4 exs), leg. S.K. Mondal; Bomdila: Sherra Bash, 30.viii.1998, (3 exs), leg. A.R.Lahiri. East Kameng: Seppo, 3500m, 11.x.1996, (2 exs), leg. S.K. Mondal.

**Distribution.** India: Arunachal Pradesh (Tawang, West Kameng, East Kameng), Karnataka, Sikkim, Uttarakhand, and West Bengal (North). Elsewhere: Bhutan, China, Myanmar, and Nepal (Poorani 2004; Kovář 2007; Poorani & Sambath 2017).

**37. *Afissa nielamuensis* (Pang & Mao, 1977) (Fig. 34)**

*Epilachna nielamuensis* Pang & Mao, 1977: 323, 327; Miyatake, 1985: 30; Jadwyszczak & Węgrzynowicz, 2003: 94; Ren et al., 2009: 291.

*Afissa nielamuensis*: Poorani & Thangjam, 2019: 7, figs 6A–B.

**Material examined.** Tawang: Jang, Jangda, 2,572 m, 24.ix.2018 (1 ♂), leg. J. Saini.

**Distribution.** India: Arunachal Pradesh (Tawang). Elsewhere: China and Nepal (Poorani 2004; Poorani & Thangjam 2019).

**38. *Afissa rana* (Kapur, 1958) (Figs 51–53)\*\***

*Afissula rana* Kapur, 1958: 320.

*Afissa rana*: Tomaszewska & Szawaryn, 2016: 53.

**Material examined.** West Kameng: Bomdila, Stn. 32, 25.vi.1961 (6 exs), 29.vi.1961 (1 ex.), Dukongko River, Stn. 49, 02.v.1961 (2 exs), Moshing, Stn. 22, 03.vi.1961 (3 exs), leg. K.C. Jayram; Bomdila, Tinga, 29.vi.1995 (7 exs) (25652/H4A), Sherra Bash, 30.viii.1998 (2 exs) (25653/H4A).

**Type material.** Paratype: B.M. Nepal Expedition, 1949 (B.M. 1949–637), *Afissula rana* gen.n., sp. nov., A.P. Kapur Det., 1954 [ZSI Registration Number: 9983/H4].

**Distribution.** India: Arunachal Pradesh (West Kameng). Elsewhere: China, and Nepal (Poorani 2004).

**Remarks.** *A. rana* can be distinguished from closely related species by the following characters: lateral margins of elytra invisible in dorsal view, pronotum reddish-testaceous except for yellowish margins (Fig 51), siphon narrow and lancet-shaped at apex (Fig 53), and parameres shorter than median lobe (Fig 52). The male genitalia of our specimen is identical with that of *A. rana* as illustrated in the original description by Kapur (1958: 320, figs 5a, c–f). The paratype of the species NZSI was also examined.

**39. *Afissa undecimspilota* (Hope, 1831) comb. nov.** (Fig. 35)\*

*Coccinella 11-spilota* Hope, 1831: 31.

*Epilachna undecimspilota*: Jadwyszczak & Węgrzynowicz, 2003: 125.

**Material examined.** West Kameng: Dirang, Rahung, 1830m, 16.viii.1961, (2 exs), leg. S. Biswas.

**Distribution.** India: Arunachal Pradesh (West Kameng), and Northern India. Elsewhere: China, Bhutan, and Nepal (Poorani 2004; Kovář 2007).

**Genus *Diekeana* Tomaszewska & Szawaryn 2015****40. *Diekeana macularis* (Mulsant, 1850) (Fig. 36)\***

*Epilachna macularis* Mulsant, 1850: 797.

*Solanophila macularis* ab. *donckieri* Weise, 1912: 112.

*Afissa macularis*: Dieke, 1947: 120, figs 78, 153.

*Epilachna macularis*: Jadwyszczak & Węgrzynowicz, 2003: 86.

*Diekeana macularis*: Tomaszewska & Szawaryn, 2016: 74.



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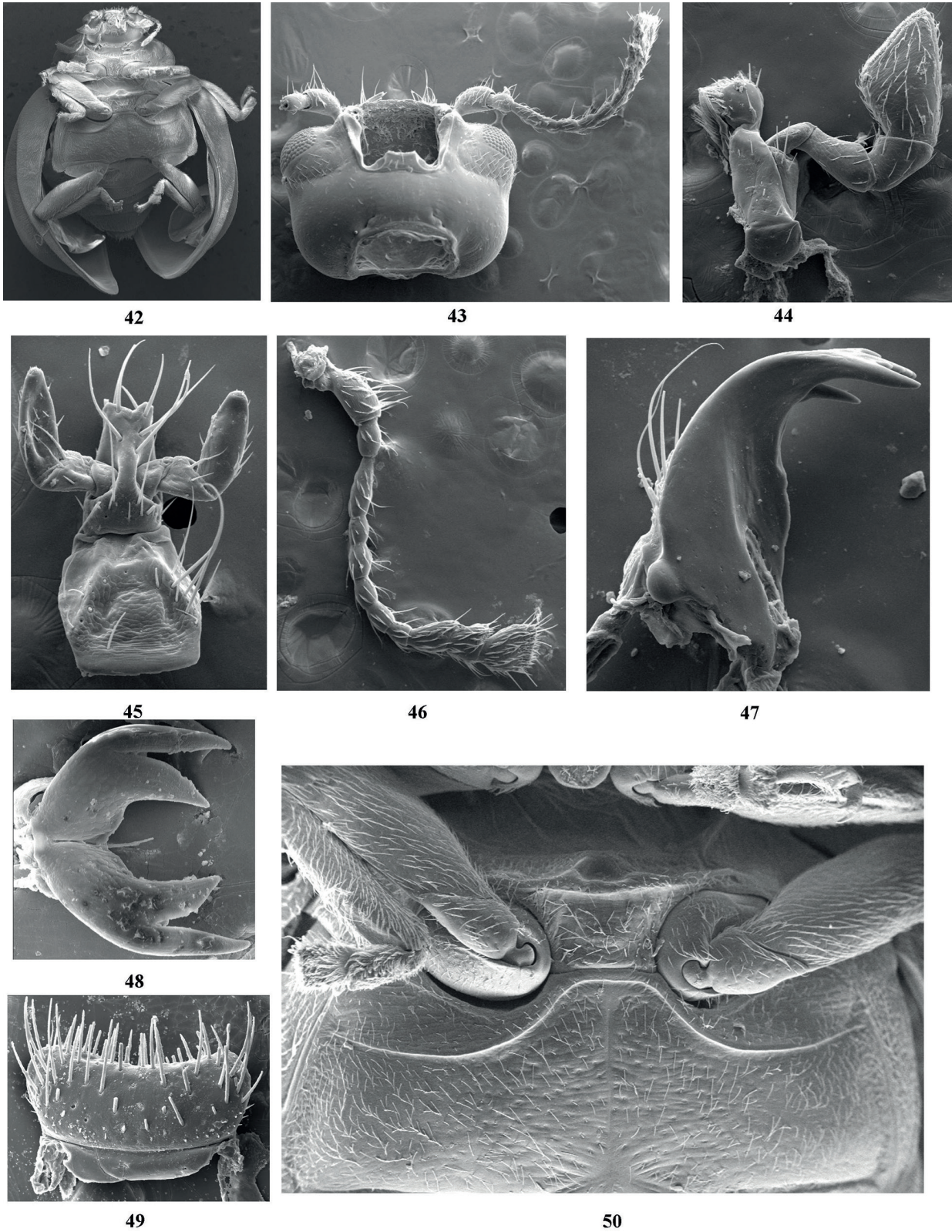
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**Figs 33–41.** Habitus of (33) *Afissa gibbera* (Crotch, 1874) comb. nov.; (34) *Afissa nielamuensis* (Pang & Mao, 1977); (35) *Afissa undecimpilota* (Hope, 1831) comb. nov.; (36) *Diekeana macularis* (Mulsant, 1850); (37) *Henosepilachna indica* (Mulsant, 1850); (38) *Henosepilachna vigintioctomaculata* (Motschulsky, 1857); (39) *Rodolia fumida* Mulsant, 1850; (40) *Jauravia quadrinotata* Kapur, 1946; (41) *Afissa mystica* (Mulsant, 1850) comb. nov.





**Figs 42–50.** Scanning electron microscope images of *Afissa mystica* (Mulsant, 1850) comb. nov. (**42**) Habitus in ventral view; (**43**) Head in ventral view; (**44**) Maxilla; (**45**) Labium; (**46**) Antennae; (**47**) Mandible; (**48**) Tarsal claws; (**49**) Labrum; (**50**) Meso-thorax.





**Figs 51–53.** *Afissa rana* (Kapur, 1958). (51) Habitus; (52) Phallobase in dorsal view; (53) Siphon.

**Material examined.** Lohit: Dapha Bum, Kamlang River, 3020 ft, Stn. No. 23, 22.xii.1969, (4 exs), leg. J.M. Julka. Tawang: Bomdila, 29.ix.2013 (1 ex. from *Astimicia* sp.) (25410/H4A), leg. J. Majumder.

**Distribution.** India: Arunachal Pradesh (Lohit, Tawang), and Meghalaya. Elsewhere: China and Nepal (Dieke 1947; Jadwiszczak & Wegrzynowicz 2003; Poorani 2004; Kovář 2007).

**Genus *Henosepilachna* Li, 1961**

**41. *Henosepilachna indica* (Mulsant, 1850) (Fig. 37)\***

*Epilachna indica* Mulsant, 1850: 776.

*Epilachna ceylonica* Weise, 1901: 418.

*Epilachna indica*: Kapur, 1961: 133–140.

*Epilachna tertia* Dieke, 1947: 66.

*Henosepilachna indica*: Jadwiszczak & Wegrzynowicz, 2003: 154.

**Material examined.** Lower Subansiri: Tamen, 457m, Stn. No. 17, 18.v.1966 (1 ex.), leg. A.N.T. Joseph. Lohit: Deopani, 350m, Stn. No. 8, 6.iii.1969, (3 exs), leg. S.K.Tandon; Kandu, 300 m, Stn. No. 9, 7.iii.1969, (5 exs); Digaru Road, 150m, Stn. No. 12, 11.iii.1969 (2 exs); Hayaliaung Road, 700 m, Stn. No. 13, 12.iii.1969,

(4 exs); Lohitpur Road, 150m, Stn. No. 14, 13.iii.1969 (1 ex.); Namsai, 100 m, Stn. No. 15, 15.iii.1969, (1 ex.), leg. S.K. Tandon.

**Distribution.** India: Arunachal Pradesh (Lower Subansiri, Lohit), Assam, and West Bengal. Elsewhere: Bhutan, China, Laos, Myanmar, Nepal, and Vietnam (Dieke 1947; Poorani 2004; Kovář 2007).

**42. *Henosepilachna vigintioctomaculata* (Motschulsky, 1857) (Fig. 38)\*\***

*Epilachna vigintioctomaculata* Motschulsky, 1857: 40.

*Epilachna 28-maculata* a. *incompleta* Mader, 1930: 184.

*Epilachna 28-maculata* a. *coalescens* Mader, 1930: 184.

*Henosepilachna vigintioctomaculata*: Jadwiszczak & Wegrzynowicz, 2003: 178.

**Material examined.** NEFA, Abor, 29.xii.1911, (1 ex.) leg. S.W. Kemp, New Aloppla: Rang, 17.ix.2000 (4 exs) (25332/H4A), leg. A.R. Lahiri.

**Distribution.** India: Arunachal Pradesh. Elsewhere: China, Japan, North Korea, Nepal, Russia, and Vietnam (Katakura 1981; Poorani 2004).

**Remarks.** This is the first verified record of the species from India, though it has been included from India by Poorani (2004).

**Tribe Noviini Mulsant, 1846**

**Genus *Rodolia* Mulsant, 1850**

**43. *Rodolia fumida* Mulsant, 1850 (Fig. 39)\***

*Rodolia fumida* Mulsant, 1850: 904.

*Rodolia roseipennis* Mulsant, 1850: 904.

*Rodolia chermesina* Mulsant, 1850: 905.

*Epilachna arethusa* Mulsant, 1853: 254.

*Epilachna testicolor* Mulsant, 1853: 255.

**Material examined.** West Kameng: Ankaling, Stn.11, 17.v.1961 (1 ex.), leg. K.C. Jayram.

**Distribution.** India: Arunachal Pradesh (West Kameng), Assam, Bihar, Delhi, Gujarat, Himachal Pradesh, Karnataka, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Tamil Nadu, Uttarakhand, Uttar Pradesh, and West Bengal. Elsewhere: China, Myanmar, Pakistan, and Sri Lanka (Kapur 1949; Poorani 2004; Kovář 2007).

**Tribe Sticholotidini Weise, 1901**

**Genus *Jauravia* Motschulsky, 1858**

**44. *Jauravia quadrinotata* Kapur, 1946 (Fig. 40)\***

*Jauravia quadrinotata* Kapur, 1946: 85; Miyatake, 1985: 3, figs 1–3.

**Material examined.** West Kameng: 15.iii.1961 (1 ex.), leg. K.C. Jayram.

**Distribution.** India: Arunachal Pradesh (West Kameng), Assam, Meghalaya, Sikkim, and West Bengal. Elsewhere: Bhutan, China, and Nepal (Bielawski 1972; Canepari 1997; Poorani 2002b, 2004; Kovář 2007).

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