Cassidinae of Java (Insecta: Coleoptera: Chrysomelidae)

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ABSTRACT From Java, 6 genera and 22 species of cassid beetles have been recorded. Keys to genera and species which are known to occur in Java are presented. *Aspidomorpha hexaspilota* Baly is treated as a new synonym of *Aspidomorpha miliaris* (Fabricius).

Key Words : Insecta/ Coleoptera/Cassidinae/ taxonomy/Java/ Indonesia

This is a preliminary study on the Cassidinae (Insecta, Coleoptera, Chrysomelidae) occurring in Java, Indonesia. Representative species treated in this paper are photographed. In many species extensive variations are observed on the coloration of dorsal surfaces and the body length. It is necessary to confirm the variation of each species by the field observations and the cross breedings.

Key to genera of Cassidinae

- 1 Head not visible from above, covered by pronotum2
Head visible from above, not covered by pronotum *Basiprionota*
- 2(1) Tarsal claws bearing a comb-like structure at base3
Tarsal claws lacking a comb-like structure at base 5
- 3(2) Elytron coarsely and closely punctate, with the diameter of punctures not narrower
than the interstices, body subtriangular, pentagonate or oblong-ovate 4
Elytron finely and sparsely punctate, with the diameter of punctures much narrower
than the interstices; body rounded or rounded-ovate *Aspidomorpha*
- 4(3) Pectinations long on both sides of tarsal claws; pronotum smooth, or finely and
sparingly wrinkled *Sindiola*
Pectinations short on outer side of tarsal claws; pronotum coarsely and closely
wrinkled *Laccoptera*
- 5(2) Underside of prothorax with a pair of antennal grooves which are bordered externally
by a narrow ridge *Chiridopsis*
Antennal grooves absent, if present, they are not bordered externally by a narrow
ridge *Cassida*

Genus *Basiprionota* Chevrolat

Basiprionota Chevrolat, 1837, in Dejean, Cat. Col., ed. 3: 391 (type: *Cassida octopunctata* Fabricius, 1787).
Prioptera Hope, 1840, Col. Man., 3: 153, 176. - Boheman, 1850, Mon. Cassid., 1: 44. - Chapuis, 1875, Gen.
Col., 11: 368. - Maulik, 1919, Fauna India, Hisp. & Cassid.: 310.

Key to species of genus *Basiprionota* Chevrolat

- 1 Elytron with blackish posterior marking free from lateral margin; generally yellowish brown; pronotum with a pair of and elytron with four markings blackish; length 10-12mm *octopunctata*
 Elytron with blackish posterior band; generally yellowish brown; pronotum with a pair of and elytron with three markings blackish; length 9.5-11mm
 decempustulata

Basiprionota decempustulata (Boheman) Fig. a

Prioptera decempustulata Boh., 1850, Mon. Cassid., 1: 55 (Malacca, Java, Indiae orientalis). - Maulik, 1919, Fauna India, Hisp. & Cass.: 316 (Siam, Malakka, Java, Borneo).

Prioptera decempustulata sarawacensis Spaeth, 1912, Saraw. Mus. J. 1: 115 (Sarawak).

Distribution: India, Thailand, Malaya, Java, Sumatra, Borneo.

Basiprionota octopunctata (Fabricus) Fig. b

Cassida octopunctata Fabr., 1787, Mant. Ins., 63 (Siam). - Olivier, 1790, Enc. Meth., 5: 382 (Siam). - Herbst, 1799, Natursyst. Kaf., 8: 334 (Siam). - Fabricius, 1792, Ent. Syst., 1: 296 (Siam); 1801, Syst. El., 1: 395 (Siam). - Olivier, 1808, Ent. 6: 946, pl. 3, fig. 38 (Siam).

Prioptera octopunctata: Boheman, 1850, Mon. Cassid., 1: 53 (Java, Borneo, Siam).

Distribution: Thailand, Borneo, Java.

Genus *Aspidomorpha* Hope

Aspidomorpha Hope, 1840, Col. Man., 3: 158 (type: *Cassida miliaris* Fabricus, 1775). - Chapuis, 1875, Col. Col., 11: 401. - Maulik, 1919, Fauna India, Hisp. & Cassid.: 324. - Gressitt, 1952, Proc. Calif. Acad., Sci., ser. 4, 27 (17): 460. - Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 948. - Chen, et al., 1986, Fauna Sinica, Hispidae: 578.

Key to species of genus *Aspidomorpha* Hope

- 1 Elytral disc evenly convex and smooth, lacking a post-scutellar tubercle 2
 Elytral disc with a common subacute tubercle at suture behind scutellum 3
 2(1) Body oblong, subparallel-sided; generally yellowish brown; pronotum with a pair of small spots black; elytron with several small black spots, and explanate margin with anterior and posterior bands black; length 7.8-10mm *deusta*
 Body rotundate; generally yellowish brown; elytron with very variable black markings, and explanate margin usually with anterior and posterior bands black; ventral surfaces generally yellowish brown, in some cases partly blackish; length 10-15mm *miliaris*
 3(1) Elytral disc fairly even behind middle 4
 Elytral disc with irregular depressions; in most specimens both anterior and posterior angles of elytral explanate margin with dark spots but rarely only with anterior angle; length 10-16mm *sanctaecrucis*
 4(3) Postscutellar tubercle blunt, less sharply raised, more than 90° in lateral view 5
 Postscutellar tubercle acute, sharply raised, less than 90° in lateral view 7
 5 (4) Elytral explanate margin with anterior band blackish 6
 Elytral explanate margin without neither anterior nor posterior dark patch; length 7.5 mm *assimilis*
 6(5) Body length shorter; elytral explanate margin with anterior and posterior band blackish, but in some specimen without posterior band; in some specimens elytral

- disc pitchy black; generally yellowish brown; length 5.8-7.4 mm *furcata*
 Body length longer; elytral explanate margin with anterior and posterior bands
 blackish; generally yellowish brown; disc of elytron pitchy black in most cases;
 length 7.5mm *mutilata*
 7(4) Elytral explanate margin with anterior and posterior bands blackish. 8
 Elytral explanate margin without posterior band blackish 9
 8(7) Body length longer; generally yellowish brown; both anterior and posterior angles of
 elytral explanate margins with dark patches; elytron yellowish brown, with
 irregular, very deep red-brown markings, but in some specimens disc of elytron
 dark brown; generally yellowish brown; length 8.0-10.5mm *inquinata*
 Body length shorter; elytral explanate margin with anterior and posterior bands
 blackish; generally yellowish brown; disc of elytron generally pitchy brown to
 black; length 7.5mm *amabilis*
 9(7) Elytral explanate margin with anterior band blackish 10
 Elytral explanate margin neither anterior nor posterior dark patch; length 9.0-10mm .
 fuscopunctata
 10(9) Body length longer; length 10-13.5mm *dorsata*
 Body length shorter; length 7.5mm *biremis*

Aspidomorpha amabilis Boheman

Aspidomorpha amabilis Boheman, 1854, Mon. Cassid., 2: 315 (Java). - Borowiec, 1990, Bull. Ent. Pol., 59: 679 (Java, Kambangan Is., Sumbawa, Lombok, Sumba, Borneo, Celebes, Philippines).

Distribution: Java, Kambangan Is., Sumbawa, Lombok, Sumba, Borneo, Celebes, Philippines.

Maulik (1919) suggested that *Aspidomorpha amabilis* Boheman is a variety of *indica* Thunberg which is now treated as a synonym of *furcata* Thunberg.

Aspidomorpha assimilis Boheman

Aspidomorpha assimilis Boheman, 1854, Mon. Cassid., 2: 314 (Java). - Spaeth, 1904, Mus. Civ. Genova, 41: 75 (Java, Sumatra, Nias, Mentawai).

Aspidomorpha vesta Boheman, 1862, Mon. Cassid., 4: 279 (Java).

Aspidomorpha assimilis var. *elegantula* Spaeth, 1904, Mus. Civ. Genova, 41: 75 (no locality cited).

Aspidomorpha assimilis ab. *vesta*: Spaeth, 1926, Suppl. Ent., 14: 118 (Sumatra).

Distribution: Java, Sumatra, Nias, Mentawai.

Probably this species is a synonym of *furcata* Thunberg.

Aspidomorpha biremis Boheman

Aspidomorpha biremis Boheman, 1854, Mon. Cassid., 2: 319 (Java). - Borowiec, 1990, Bull. Ent. Pol., 59: 680 (Java, Kambangan Is.).

Distribution: Java.

Aspidomorpha deusta (Fabricius) Fig. c

Cassida deusta Fab., 1775, Syst. Ent.: 89 (nova Hollandia); 1781, Spec. Ins., 1: 109; 1787, Man. Ins. 1: 63; 1792, Ent. Syst. 1: 297; 1801, Syst. El., 1: 396 (nova Hollandia). - Boisdual, 1835, Faune Ent. Oceanie (Astrolabe), 2: 543 (Nouvelle-Hollande). - Boheman, 1854, Mon. Cassid., 2: 333 (nova Hollandia).

Aspidomorpha deusta: Spaeth, 1903, Ann. Mus. Nat. Hung., 1: 137 (Queensland). - Borowiec, 1990, Bull. Ent. Pol., 59: 680 (Java, Bali, Flores); 1992, Genus, Wrocław, 3 (3): 142 (Australia, Indonesia, Papua New Guinea).

Cassida collina Boisdual, 1835, Faune Ent. Oceanie (Astrolabe), 2: 541 (Nouvelle-Hollande). - Spaeth, 1914, Col. Cat. Junk, 62: 71 (= *deusta*).

Cassida angulifera Blanchard, 1853, Voyage Pole Sud (d'Urville), 4: 324, fig. (Celebes: Makassar). - Spaeth, 1914, Col. Cat. Junk, 62: 71 (= *deusta*).

Cassida nigrodorsata Boheman, 1862, Cat. Col. Ins. Brit. Mus., 9: 119 (Nova Hollandia); 1862, Mon. Cassid., 4: 293 (Nova Hollandia). - Borowiec, 1992, Genus, Wrocław, 3 (3): 142 (=deusta).

Sindia schwalleri Medvedev, 1993, in Medvedev & Zaitsev, Bonn Zool. Beitr., 44: 41 (Philippines). - Borowiec, 1994, Genus, Wrocław, 5 (3): 154 (=deusta).

Distribution: Australia, New Guinea, Sunda Is. (Java, Bali, Flores).

According to Browiec (1992), this species was suspected to be an introduced species to Indonesia, because of the lacking of the collected specimens from Java before Second World War. However, in the collection of Bogor Zoological Museum the following material is preserved:

Java: 19 exs., Tjilatjap, Java, 5. vi. 1928, F. C. Drescher; 7 exs., Straat Soenda, Java-West, vii. 1940. F. C. Drescher; and many other materials.

W. Flores Is.: 5 exs., Komodo Is., vii. 1937, J. K. de Jong; and some others.

***Aspidomorpha dorsata* (Fabricius) Fig. d**

Cassida dorsata Fabr., 1787, Mant. Ins., 1: 64 (Siam); 1792, Ent. Syst., 1: 301 (Siam); 1801, Syst. Eleuth., 1: 401 (Siam). - Gmelin, 1787, Linnaeus, Syst. Nat., ed. 13, 1, 4: 1641 (Siam). - Herbst, 1799, Natursyst. Kaf., 8: 342 (Siam).

Aspidomorpha dorsata: Boheman, 1854, Mon. Cassid., 2: 296 (Java, India orientalis, Sumatra, Siam). - Maulik, 1919, Fauna India, Hisp. & Cass.: 332 (India, Celebes). - Gressitt, 1938, Lingnan Sci. J., 17: 188, 578 (Hainan); 1952, Proc. Calif. Acad. Sci., ser. 4, 27: 463, pl. 27, fig. 3 (Hainan). - Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 950 (Hainan). - Borowiec, 1985, Bull. Ent. Pol., 55: 28 (Vietnam). - Medvedev & Eroshkina, 1988, in Medvedev, Fauna & Ecol. Ins. Vietnam: 125 (Vietnam). - Borowiec, 1990, Bull. Ent. Pol., 59: 681 (India, Nepal, Ceylon, Burma, Thailand, Laos, Malaysia, Indonesia: Java, Kambangan Is.).

Aspidomorpha calligera Boheman, 1854, Mon. Cassid., 2: 297 (Bengalia). - Weise, 1897, Dtsche Ent. Z., 1897: 104 (=dorsata).

Distribution: India, Ceylon, Burma, Thailand, Hainan, Malaya, Java, Celebes.

***Aspidomorpha furcata* (Thunberg) Fig. e**

Cassida furcata Thunb., 1789, Nov. Ins. Spec. 5: 87, fig. (Siam) - Herbst, 1799, Natursyst. Kaf., 8: 265, fig. (Indien).

Cassida dorsata Olivier (nec Fabricius), 1790, Enc. Meth., 5: 386 (Siam); 1808, Ent., 6: 961, figs. (Siam).

Cassida micans Fabricius, 1801, Syst. Eleuth., 1: 398 (Sumatra). - Weise, 1901, Dtsche Ent. Z., 1901: 52 (=furcata).

Aspidomorpha indica Boh., 1854, Mon. Cassid., 2: 318 (Almarah Indiae borealis). - Weise, 1905, Dtsche Ent. Z., 1905: 123 (Anamalais). - Spaeth, 1913, Ann. Mus. Nat. Hung., 11: 46 (Formosa). - Maulik, 1919, Fauna India, Hisp. & Cass.: 327 (Sikkim, Madras). - Chujo, 1934, Sylvania, 5: 153 (Formosa). - Gressitt, 1939, Pan-Pac. Ent., 15: 140 (Annam); 1952, Proc. Calif. Acad. Sci., ser. 4, 27: 465 (China). - Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 952 (China). - Gruev, 1985, Ent. Rev. Japan, 40: 44 (Nepal). - Kimoto, 1972, Ent. Tidskrift, 93: 147 (Annam). - Medvedev & Eroshkina, 1982, in Medvedev, Animal World Vietnam: 106 (Vietnam). - Borowiec, 1985, Bull. Ent. Pol., 55: 26 (E. Siberia, Korea, India). - Medvedev & Eroshkina, 1988, in Medvedev, Fauna & Ecol. Ins. Vietnam: 124 (=furcata). - Borowiec, 1990, Bull. Ent. Pol., 59: 684 (India, Nepal, Bangladesh, China, Burma, Malaysia).

Aspidomorpha egena Boheman, 1854, Mon. Cassid., 2: 317 (Bengalia). - Maulik, 1919, Fauna India, Hisp. & Cass.: 327 (=indica).

Aspidomorpha micans: Boheman, 1854, Mon. Cassid., 2: 313 (Java, India orientalis, Sumatra, Siam).

Deloyala difformis Motschulsky, 1860, Etud. Ent., 9: 27 (Amur). - Kimoto, 1978, Ent. Rev. Japan, 31: 73 (=indica).

Aspidomorpha furcata: Weise, 1897, Dtsche Ent. Z., 1897: 104 (India). - Spaeth, 1913, Ann. Mus. Nat. Hung., 11: 46 (Formosa). - Maulik, 1919, Fauna India, Hisp. & Cassid.: 333 (Ceylon). - Chujo, 1934, Sylvania, 5: 151 (Formosa). - Gressitt, 1938, Lingnan Sci. J., 17: 189, 384, 576 (Kwangtung, Hainan); 1939, Pan-Pac. Ent., 15: 139 (Annam); 1952, Proc. Calif. Acad. Sci., ser. 4, 2, 7: 463, figs. (China). - Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 950 (China). - Medvedev & Eroshkina, 1982, in Medvedev, Animal World Vietnam: 106 (Vietnam). - Borowiec, 1985, Bull. Ent. Pol., 55: 27 (Vietnam, Java). - Medvedev & Eroshkina, 1988, in Medvedev, Fauna & Ecol. Ins. Vietnam: 124 (Vietnam). - Borowiec, 1990, Bull. Ent. Pol., 59: 682 (India, Bhutan, Burma, China, Hongkong, Thailand, Vietnam, Indonesia).

Aspidomorpha difformis ab. *japonica* Spaeth, 1926, Best-Tab. Eur. Col., 95: 10 (Japan).

Distribution: India, Ceylon, Burma, Thailand, Vietnam, S. China, Hainan, Taiwan, Japan,

Korea, Siberia, Malaya, Sunda Is.

***Aspidomorpha fuscopunctata* Boheman Fig. f**

Aspidomorpha fuscopunctata Boh., 1854, Mon. Cassid., 2: 298 (Java). - Weise, 1897, Dtsche Ent. Z., 1897: 104 (India, Burma). - Spaeth, 1912, Sarawak Mus. J., 1: 117 (Sarawak). - Maulik, 1919, Fauna India, Hisp. & Cassid.: 326 (Sikkim, Madras, Malay Peninsula). - Gressitt, 1938, Lingnan Sci. J., 17: 189, 579 (Hainan, Indo-China); 1939, Pan-Pac. Ent., 15: 140 (Annam, Luzon, Hainan); 1952, Proc. Calif. Acad. Sci., ser. 4, 27: 464 (China). - Hincks, 1953, Verh. Naturf. Ges. Basel, 64: 69 (West Sumba). - Gressitt & Kimoto, 1963, Pac. Ins. Mon., 952 (Hainan). - Medvedev & Eroshkina, 1982, in Medvedev, Animal World Vietnam: 106 (Vietnam). - Borowiec, 1985, Bull. Ent. Pol., 55: 27 (Vietnam). - Medvedev & Eroshkina, 1988, in Medvedev, Fauna & Ecol. Ins. Vietnam: 125 (Vietnam). - Borowiec, 1990, Bull. Ent. Pol., 59: 683 (India, Burma, Thailand, Vietnam, Malaysia, Philippines, Indonesia).

Aspidomorpha rubrodorsata Boheman, 1854, Mon. Cassid., 2: 310 (Java).

Aspidomorpha fuscopunctata rubrodorsata: Spaeth, 1912, Sarawak Mus. J., 1: 117 (Sarawak).

Distribution: India, Burma, Indo-China, S. China, Hainan, Malaya, Sunda Is., Philippines.

***Aspidomorpha inquinata* Boheman Fig. g**

Aspidomorpha inquinata Boheman, 1854: 300 (Java). - Maulik, 1919, Fauna India, Hisp. & Cassid.: 328 (Assam, Andaman Is., Java).

Aspidomorpha inquinata musta Spaeth, 1914, Dtsche Ent. Z., 1914: 545 (Andaman Is., Tenasserim, Rangoon, Sud-Assam). - Borowiec, 1990, Bull. Ent. Pol., 59: 685 (Indonesia: Lombok, Bali, Java).

Distribution: India, Burma, Andaman Is., Malaya, Java, Bali, Lombok.

***Aspidomorpha miliaris* (Fabricius) Fig. h**

Cassida miliaris Fabr., 1775, Syst. Ent.: 91 ("St. Helena"); 1781, Spec. Ins., 1: 111 (St. Helena); 1787, Mant. Ins., 1: 64 (no locality cited); 1792, Ent. Syst., 1: 300 (St. Helena); 1801, Syst. El., 1: 400 ("St. Helena"). - Gmelin, 1787, Linnaeus, Syst. Nat. ed. 13, 1, 4: 1640 (S. Helena). - Olivier, 1790, Enc. Meth., 5: 385 (India); 1808, Ent., 6: 943; 97, pl. 2, fig. 25 (Indies orientales). - Herbst, 1799, Natursyst. Kaf., 8: 312, fig. (Ostindien).

Aspidomorpha miliaris: Boheman, 1854, Mon. Cassid., 2: 261 (Java, India orientalis, Celebes). - Wollaston, 1877, Col. St. Helena: 215 (St. Helena?). - Weise, 1896, Dtsche Ent. Z., 1896: 16 (notes). - Spaeth, 1903, Ann. Mus. Nat. Hung., 1: 138 (New Guinea). - Maulik, 1919, Fauna India, Hisp. & Cassid.: 334, figs. (Andamans). - Gressitt, 1938, Lingnan Sci. J., 17: 189 (Hainan, Indo-China); 1939, Pan Pac. Ent., 15: 140 (Sumatra); 1952, Proc. Calif. Acad. Sci., ser. 4, 27: 466, figs. (Hongkong). - Hincks, 1953, Verh. Naturf. Ges. Basel, 64: 69 (West Sumba, East Sumba, West Flores). - Gressitt & Kimoto, 1963, Pac. Ent. Mon., 1B: 952 (China). - Chujo, 1964, Nature & Life in SE Asia, Kyoto, 3: 314 (Thailand). - Kimoto, 1972, Ent. Tidskrift, 93: 147 (Annam). - Medvedev & Eroshkina, 1982, in Medvedev, Animal World Vietnam: 104 (Vietnam). - Borowiec, 1985, Bull. Ent. Pol., 55: 26 (India, Vietnam, Bali, Sumatra). - Medvedev & Eroshkina, 1988, in Medvedev, Fauna & Ecol. Ins. Vietnam: 123 (Vietnam). - Borowiec, 1990, Bull. Ent. Pol., 59: 686 (India, Ceylon, Thailand, Vietnam, Malaysia, Philippines, Indonesia).

Aspidomorpha amplissima Boheman, 1854, Mon. Cassid., 2: 260 (Manilla). - Weise, 1896, Dtsche Ent. Z., 1896: 16 (=miliaris)

Aspidomorpha celebensis Blanchard, 1853, Voy. Pole Sud (d'Urville), 4: 316, fig. (Celebes: Makassar). - Boheman, 1862, Mon. Cassid., 4: 281 (notes).

Cassida quatuordecimpunctata Olivier, 1808, Ent., 6: 943; 97, t. 4, fig. 66 (Amerique meridionale). - Boheman, 1855, Mon. Cassid., 3: 521 (America meridionali).

Aspidomorpha hexaspilota Baly, 1863, J. Ent., 2: 10 (Cambodia). - Borowiec, 1990, Bull. Ent. Pol., 59: 684 (Thailand). NEW SYNONYM

Aspidomorpha miliaris ab. *flaveola* Weise, 1910, Phil. J. Sci., ser. D, 5: 143 (Philippines).

Aspidomorpha miliaris ab. *inundata* Weise, 1910, Phil. J. Sci., ser. D, 5: 143 (Manila).

Aspidomorpha denticollis Spaeth, 1932, Stett. Ent. Ztg., 93: 200 (Tonkin). - Medvedev & Eroshkina, 1988, in Medvedev, Fauna & Ecol. Ins. Vietnam: 123 (=miliaris).

Distribution: India, Andaman Is., Burma, Vietnam, S. China, Hainan, Malaya, Sumatra, Java, Borneo, Celebes, Philippine, New Guinea.

Aspidomorpha hexaspilota Baly is characteristic in having the blackish markings of the dorsal surface of elytron extremely reduced. However, this is only an infraspecific variation of very variable species, *Aspidomorpha miliaris*, and should be treated as a synonym of the

present species. The type of *Aspidomorpha hexaspilota* Baly is preserved in the British Museum (Nat. Hist.), London.

***Aspidomorpha mutilata* Boheman**

Aspidomorpha mutilata Boheman, 1854: 316 (Java). - Hincks, 1953, Verh. Naturf. Ges. Basel., 64 (1): 70 (West Sumba, Central Sumba, West Flores). - Borowiec, 1990, Bull. Ent. Pol., 59: 687 (Java, Bali, Lombok).

Coptocycla glabrata Boheman, 1855, Mon. Cassid., 3: 469 (Java). - Spaeth, 1914, Dtsche Ent. Z., 1914: 545 (Java, Sumatra, Lombok).

Aspidomorpha mutilata ab. *jucunda* Spaeth, 1914, Dtsche Ent. z., 1914: 546 (Java).

Distribution: Sunda Is. (Java, Bali, Lombok).

According to the material taken from the West Flores, which is identified by Hincks (1953), the elytral explanate margin is marked by blackish markings on the anterior and the posterior corners, of which the anterior one is distinct only on the basal half.

Maulik (1919) suggested that *Aspidomorpha mutilata* Boheman is a variety of *indica* Thunberg which is now treated as a synonym of *furcata* Thunberg.

***Aspidomorpha sanctaecrucis* (Fabricius) Fig. i**

Cassida flava DeGeer, (nec L.) 1775, Mem. Ins., 5: 184, fig. (Surinam).

Cassida jamaicensis Olivier, 1790, Enc. Meth., 5: 386 ("Amerique meridionale"); 1808, Ent., 6: 952, figs. (Antilles). - Herbst, 1799, Natursyst. Kaf., 8: 303, fig. (nec L.) (Jamaica)

Cassida sanctaecrucis Fabr., 1792, Ent. Syst., 4 (App.): 446 ("America Insularis"); 1801, Syst. El., 1: 401 ("America meridionalis"). - Illiger, 1806, Mag. Ins., 5: 227 (notes).

Cassida elevata Fabricius, 1801, Syst. El., 1: 399 (Sumatra). - Weise, 1897, Dtsche Ent. Z., 1897: 102 (= *sanctaecrucis*).

Aspidomorpha elevata: Boheman, 1854, Mon. Cassid., 2: 291 (Java, Assam Ind. orient., Sumatra).

Aspidomorpha sanctaecrucis: Boheman, 1854, Mon. Cassid., 2: 287, fig. (India orientalis). - Baly, 1863, J. Ent., 1: 13 (Siam). - Weise, 1897, Dtsche Ent. Z., 1897: 102 (Burma). - Maulik, 1913, Rec. Ind. Mus., 1913: 111 (India, Burma); 1919, Fauna India, Hisp. & Cass.: 329, fig. (India, Burma, W. China). - Gressitt, 1939, Lingnan Sci. J., 17: 189, 580 (Hainan, Kwangtung); 1939, Pan-Pac. Ent., 15: 140 (India, Hainan, Borneo); 1952, Proc. Calif. Acad. Sci., ser. 4, 27: 467, 536, fig. (China). - Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 954 (China). - Medvedev & Eroshkina, 1982, in Medvedev, Animal World Vietnam: 106 (Vietnam). - Borowiec, 1985, Bull. Ent. Pol., 55: 26 (Vietnam). - Medvedev & Eroshkina, 1988, in Medvedev, Fauna & Ecol. Ins. Vietnam: 124 (Vietnam). - Borowiec, 1990, Bull. Ent. Pol., 59: 688 (India, Nepal, Sikkim, Bhutan, Ceylon, Thailand, Laos, Vietnam, Malaysia, Philippines, Indonesia).

Aspidomorpha bajula Boheman, 1854, Mon. Cassid., 2: 288 (America?; probably mislabelled). - Borowiec, 1990, Bull. Ent. Pol., 59: 685 (= *lobata*)

Aspidomorpha limbipennis Boheman, 1854, Mon. Cassid., 2: 285 (Surinam); 1862, ibid., 4: 266 (Ceylon).

Aspidomorpha heroina Boheman, 1854, Mon. Cassid., 2: 284 (no locality cited).

Aspidomorpha lobata Boheman, 1854, Mon. Cassid., 2: 289 (India orientalis). - Maulik, 1919, Fauna India, Hisp. & Cassid.: 329 (= *sanctaecrucis*). - Borowiec, 1990, Bull. Ent. Pol., 59: 685 (India, Ceylon, Bangladesh; as a good species).

Aspidomorpha fraterna Baly, 1863, J. Ent., 2: 11 (Cambodia). - Maulik, 1919, Fauna India, Hisp. & Cassid.: 329 (= *sanctaecrucis*).

Aspidomorpha stevensi Baly, 1863, J. Ent. 2: 11 (Cambodia). - Maulik, 1919, Fauna India, Hisp. & Cassid.: 329 (?= *sanctaecrucis*). - Borowiec, 1990, Bull. Ent. Pol., 59: 689 (Thailand, Vietnam; as an independent species).

Aspidomorpha insularis Spaeth, 1912, Sarawak Mus. J., 1: 118 (Sunda Is.). - Spaeth, 1914, Dtsche Ent. Z., 1914: 544 (?= subsp.).

Aspidomorpha sanctaecrucis fraterna: Gressitt, 1939, Pan-Pac. Ent., 15: 140 (Hue).

Aspidomorpha yunnana Chen et Zia, 1964, Acta Ent. Sinica, 10: 132, 138 (Yunnan). - Borowiec, 1990, Bull. Ent. Pol., 59: 689 (= *stevensi*).

Aspidomorpha vietnamica Medvedev et Eroshkina, 1982, in Medvedev, Animal World Vietnam: 106, 113 (Vietnam); Medvedev & Eroshkina, 1988, in Medvedev, Fauna & Ecol. Ins. Vietnam: 124 (Vietnam). - Borowiec, 1990, Bull. Ent. Pol., 59: 689 (= *stevensi*).

Distribution: India, Nepal, Bhutan, Burma, Ceylon, Thailand, Cambodia, Vietnam, China, Malaysia, Philippines, Sumatra, Java, Borneo.

Genus *Sindiola* Spaeth

Sindiola Spaeth, 1903, Ent. Tidskr., 1: 112 (type: *Sindiola parallelepennis* Spaeth, 1903). - Maulik, 1919, Fauna India, Hisp. & Cassid.: 344. - Gressitt, 1952, Proc. Calif. Acad. Sci., 27 (17): 469. - Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 955. - Chen, et al., 1986, Fauna Sinica, Hispidae: 568.

***Sindiola vigintisexnotata* (Boheman) Fig. j**

Lacoptera vigintisexnotata Boh., 1855, Mon. Cassid., 3: 66 (Assam Indiae orientalis). - Maulik, 1918, Ann. Mag. Nat. Hist., ser. 9, 1: 318 (notes); 1919, Fauna India, Hisp. & Cass.: 352 (Assam, Burma, Malaya, Sumatra, Java, Tonkin). - Borowiec, 1985, Bull. Ent. Pol., 55: 29 (Vietnam).

Lacoptera novemdecimnotata Boheman, 1855, Mon. Cassid., 3: 67 (Java, Assam Indiae orientalis). - Maulik, 1919, Fauna India, Hisp. & Cassid.: 352 (= *vigintisexnotata*).

Lacoptera hospita Boheman, 1855, Mon. Cassid., 3: 68 (China). - Maulik, 1919, Fauna India, Hisp. & Cassid.: 352 (= *vigintisexnotata*).

Lacoptera multinotata Boheman, 1855, Mon. Cassid., 3: 70 (Java). - Maulik, 1919, Fauna India, Hisp. & Cassid.: 352 (= *vigintisexnotata*).

Sindiola vigintisexnotata: Chen & Zia, 1961, Acta. Ent. Sinica, 10 (4-6): 441 (China). - Medvedev & Eroshkina, 1982, in Medvedev, Animal World Vietnam: 107 (Vietnam). - Chen, et al., 1986, Fauna Sinica, Hispidae: 571 (Burma, Vietnam, China). - Medvedev & Eroshkina, 1988, in Medvedev, Fauna & Ecol. Ins. Vietnam: 122 (Vietnam). - Borowiec, 1990, Bull. Ent. Pol., 59: 707 (Thailand, Laos, Vietnam).

Distribution: India, Burma, Thailand, Laos, Vietnam, China, Malaya, Sumatra, Java.

Body subtriangular; generally brown; pronotum reddish brown with six black spots; elytron with many black spots sparsely distributed in transverse rows; length 10-12.2mm.

Genus *Lacoptera* Boheman

Lacoptera Boheman, 1885, Mon. Cassid., 3: 55 (type: *Lacoptera excavata* Boheman, 1855). - Chapuis, 1875, Gen. Col., 11: 408. - Maulik, 1919, Fauna India, Hisp. & Cassid.: 346. - Gressitt, 1952, Proc. Calif. Acad. Sci., 27 (17): 470. - Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 955. - Chen, et al., 1986, Fauna Sinica, Hispidae: 572.

Key to species of genus *Lacoptera* Boheman

- 1 Elytron without any oblique lateral stripe behind humerus 2
- Elytron reddish brown with an incomplete oblique lateral stripe behind humerus, and with a marking on anterior portion of common tubercle, large postero-lateral marking on explanate margin, two rather ill-defined markings blackish, of which one is medianly and the other in posteriorly, and suture black apically; generally yellowish to reddish brown; pronotum with a pair of markings blackish; ventral surfaces with metasternum blackish; length 8.5-9.0mm *quadrimaculata*
- 2(1) Elytron reddish brown with latero-humeral, postmedian, subapical and latero-subapical markings together with a marking on anterior portion of common tubercle blackish; generally reddish brown; pronotum with a pair of markings blackish; ventral surfaces with middle of metathorax blackish; length 9.5 mm *tredecimpunctata*
- Elytron reddish brown with a subbasal transverse band and post-scutellar and two post-median markings blackish; generally reddish brown; pronotum with a pair of markings blackish; ventral surfaces with middle of metathorax blackish; length 8.0 mm *discreta*

***Lacoptera discreta* Boheman Fig. k**

Lacoptera discreta Boheman, 1885, Mon. Cassid., 3: 77 (Java). - Borowiec, 1990, Bull. Ent. Pol., 59: 702

(Java).

Distribution: Java.

***Laccoptera quadrimaculata* (Thunberg) Fig. 1**

Cassida quadrimaculata Thunb., 1789, Nouv. Ins. Spec., 5: 86, figs. (China).

Laccoptera chinensis Boheman (nec Fabricius), 1855, Mon. Cassid., 3: 71 (China).

Laccoptera nepalensis Boheman, 1855, Mon. Cassid., 3: 76 (Nepal, Indiae orientali).

Laccoptera bohemani Weise, 1910, Verh. Naturf. Ver. Brunn, 48: 42 (India, China; new name for *Laccoptera chinensis* Boheman). - Spaeth, 1913, Ann. Mus. Nat. Hung., 11: 46 (Formosa); 1914, Ent. Mitt., 3: 226 (notes); 1914, Suppl. Ent., 3: 15, fig. (Formosa).

Laccoptera thunbergi Spaeth, 1914, Suppl. Ent., 3: 15 (new name).

Laccoptera quadrimaculata: Maulik, 1919, Fauna India, Hisp. & Cass.: 347 (India, Andaman Is., Malay Archipelago, S. China). - Gressitt, 1952, Proc. Calif. Acad. Sci., ser. 4, 27: 471, figs. (China). - Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 956 (China). - Chujo, 1964, Nature & Life in SE Asia, Kyoto, 3: 315 (Thailand). - Kimoto, 1972, Ent. Tidskrift, 93: 147 (Annam). - Medvedev & Eroshkina, 1982, in Medvedev, Animal World Vietnam: 107 (Vietnam). - Borowiec, 1985, Bull. Ent. Pol., 55: 28 (Vietnam, India). - Chen, et al., 1986, Fauna Sinica, Hispidae: 576 (China, Taiwan, Hainan, Vietnam). - Medvedev & Eroshkina, 1988, in Medvedev, Fauna & Ecol. Ins. Vietnam: 123 (Vietnam). - Borowiec, 1990, Bull. Ent. Pol., 59: 703 (India, Nepal, Thailand, Vietnam, Taiwan, Malaysia, Singapore, Indonesia: Java).

Laccoptera quadrimaculata bohemani: Spaeth, 1926, Best.-Tab. Eur. Col., 95: 9 (notes). - Gressitt, 1938, Lingnan Sci. J., 17: 191 (Hainan); 1938, ibid.: 384 (S. China); ibid.: 581 (China); 1939, Pan-Pac. Ent., 15: 140 (China, Formosa, Annam).

Laccoptera quadrimaculata ab. *bohemani*: Chujo, 1934, Sylvia, 5: 153 (Formosa).

Laccoptera quadrimaculata nepalensis: Chen, et al., 1986, Fauna Sinica, Hispidae: 576 (Yunnan, Nepal, Sikkim, Burma, Indo-China, Malay Archipelago, India, Andaman Is.).

Distribution: India, Andaman Is, Burma, Thailand, Laos, Vietnam, S. China, Hainan, Taiwan, Ryukyu Is., Malaysia, Singapore, Java.

***Laccoptera tredecimpunctata* (Fabricius) Fig. m**

Cassida miliaris Herbst (nec Fabricius), 1799, Natursyst. Kaf., 8: 312, figs. (Ostinddien).

Cassida tredecimpunctata Fabricius, 1801, Syst. Eleuth., 1: 398 (Sumatra).

Laccoptera tredecimpunctata: Boheman, 1855, Mon. Cassid., 3: 73 (Java, Assam Ind. or.). - Baly, 1863, J. Ent., 1: 14 (Siam). - Weise, 1905, Dtsche Ent. Z., 1905: 123 (India: Nilgiri Hills). - Maulik, 1919, Fauna India, Hisp. & Cass., 350, fig. (India). - Gressitt, 1938, Lingnan Sci. J., 17: 582 (Hainan); 1952, Proc. Calif. Acad. Sci., ser. 4, 27: 472 (Hongkong). - Borowiec, 1985, Bull. Ent. Pol., 55: 28 (Java). - Chen, et al., 1986, Fauna Sinica: Hispidae: 577 (China, Thailand, Sunda Is., India, Philippine Is.). - Borowiec, 1990, Bull. Ent. Pol., 59: 704 (Philippines, Indonesia: Sumatra, Java, Bali, S. Borneo, Lombok, Nias Is.).

Distribution: India, Thailand, Cambodia, Hainan, S. China, Philippines, Borneo, Sumatra, Nias, Java, Bali, Lombok.

Genus *Chiridopsis* Spaeth

Chiridopsis Spaeth, 1924, Voy. Alluaud et Jeannel Afrique Or., 18: 337 (type: *Cassida aubei* Boheman, 1855). -

Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 962. - Chen, et al., 1986, Fauna Sinica, Hispidae: 555.

Chirida Weise, 1896, Dtsche Ent. Z., 1896: 12 (in part). - Maulik, 1919, Fauna India, Hisp. & Cassid.: 412.

Key to species of genus *Chiridopsis* Spaeth

- 1 Elytron yellowish brown, and the disc generally black and with many yellowish markings; pronotum yellowish brown, and the disc black with basal marking yellowish; generally yellowish brown; length 6.5 mm *punctata*
- Elytron yellowish brown, and the disc generally black, and with a yellowish longitudinal stripe which sends out on several irregular transverse lines yellowish; pronotum yellowish brown with disc reddish brown; length 4.5- 6.0 mm . . . *scalaris*

Chiridopsis punctata* (Weber) Fig. nCassida punctata* Weber, 1801, Observ. Ent., 1: 51 (Sumatra).*Cassida punctaria* Fabricius, 1801, Syst. El., 1: 392 (Sumatra). - Olivier, 1801, Ent., 6: 965, fig. (Sumatra).*Coptocyclus punctaria*: Boheman, 1855, Mon. Cassid., 3: 254 (Insula Java, Sumatra). - Baly, 1863, J. Ent., 2: 14 (Indo-China). - Weise, 1897, Dtsche Ent. Z., 1897: 108 (notes).*Chirida punctata*: Maulik, 1919, Fauna India, Hisp. & Cass.: 415 (Burma). - Gressitt, 1938, Lingnan Sci. J., 17: 193, 589 (Hainan, Kwangtung).*Chirida punctata indochinensis* Spaeth, 1919, Ann. Mag. Hungar., 17: 199 (Indo-China).*Chiridopsis punctata*: Gressitt, 1952, Proc. Calif. Acad. Sci., ser. 4, 27: 483, fig. (China, Hainan). - Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 962, fig. (S. China, Hainan). - Kimoto, 1967, Ent. Tidskrift, 93: 147 (Annam). - Medvedev & Eroshkina, 1982, in Medvedev, Animal World Vietnam: 108 (Vietnam). - Borowiec, 1985, Bull. Ent. Pol., 55: 31 (Vietnam, Java). - Chen, et al., 1986, Fauna Sinica, Hispidae: 557 (China, Vietnam, Burma, Thailand, Sunda Is.). - Medvedev & Eroshkina, 1988, in Medvedev, Fauna & Ecol. Ins. Vietnam: 127 (Vietnam). - Borowiec, 1990, Bull. Ent. Pol., 59: 700 (Vietnam, Malaysia, Indonesia).*Chiridopsis punctata indochinensis*: Chen, et al., 1986, Fauna Sinica, Hispidae: 558 (China, Indochina). - Medvedev & Eroshkina, 1988, in Medvedev, Fauna & Ecol. Vietnam: 127 (Vietnam).

Distribution: Burma, Thailand, Vietnam, S. China, Hainan, Sunda Is.

Chiridopsis scalaris* (Weber) Fig. oCassida scalaris* Weber, 1801, Observ. Ent., 1: 51 (Sumatra). - Fabricius, 1801, Syst. El., 1: 391 (Sumatra). - Olivier, 1808, Ent., 6: 967, fig (Sumatra).*Coptocyclus scalaris*: Boheman, 1855, Mon. Cassid., 3: 124 (Insula Java, Sumatra).*Mettriona scalaris*: Weise, 1898, Dtsche Ent. Z., 1897: 107 (notes).*Chirida scalaris*: Maulik, 1919, Fauna India, Hisp. & Cass.: 47 (Sikkim, Burma, Assam, Andaman Is., Malay Pen., Java, Sumatra).*Chiridopsis scalaris*: Medvedev & Eroshkina, 1982, in Medvedev, Animal World Vietnam: 108 (Vietnam). - Borowiec, 1985, Bull. Ent. Pol., 55: 30 (India). - Chen, et al., 1986, Fauna Sinica, Hispidae: 559 (Yunnan, Burma, Sikkim, Assam, Andaman Is., Malay Peninsula, Java, Sumatra). - Medvedev & Eroshkina, 1988, in Medvedev, Fauna & Ecol. Ins. Vietnam: 128 (Vietnam). - Borowiec, 1990, Bull. Ent. Pol., 59: 700 (Thailand, Malaysia, Philippines, Indonesia).

Distribution: N. India, Burma, Andaman Is., Thailand, Laos, Vietnam, Malaysia, Sumatra, Java, Philippines.

Genus *Cassida* Linnaeus*Cassida* L., 1758, Syst. Nat., ed. 10: 362 (type: *Cassida nebulosa* Linnaeus, 1758). - Boheman, 1854, Mon. Cassid., 2: 329. - Chapuis, 1875, Gen. Col., 11: 338. - Maulik, 1919, Fauna India, Hisp. & Cassid.: 361. - Gressitt, 1952, Proc. Calif. Acad. Sci., ser. 4, 27: 504. - Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 976. - Chen, et al., 1986, Fauna Sinica, Hispidae: 456.**Key to species of genus *Cassida* Linnaeus**

- 1 Elytron without extension of deeper color towards lateral angles 2
- Elytron with darker color extends obliquely toward lateral angles; generally yellowish brown; elytron yellowish brown, disc pitchy black with irregular yellowish markings, and anterior and posterior corners of explanate margin and apex of suture pitchy brown; antenna yellowish brown with five or six apical segments black; length 4.5-6.0 mm *ruralis*
- 2(1) Elytron yellowish brown, marked with large irregular, common U-shaped blackish marking on outer portion of disc and the arms ending on humeral callus and with black median line starting from basal portion of pronotal disc to mid point of suture; generally yellowish brown; pronotum yellowish brown, and with or without blackish marking basally; length 4.2-5.6mm *circumdata*
- Elytron yellowish brown with disc generally pitchy black and with many small

yellowish spots, in many cases these spots coalescing to form an irregular longitudinal yellowish stripe; generally yellowish brown; pronotum yellowish brown, and with or without blackish marking basally; length 5.0-6.0 mm *catenata*

***Cassida catenata* (Boheman) Fig. p**

Coptocycla catenata Boheman, 1855, Mon. Cassid., 3: 262 (Java). - Weise, 1892, Dtsche Ent. Z., 1892: 385 (Nias). - Maulik, 1913, Rec. Ind. Mus., 9: 115 (Darjeeling, Burma, Sarawak: Sibiu).

Cassida fulgida Boheman, 1885, Mon. Cassid., 3: 347 (Java). - Spaeth, 1904, Ann. Mus. Civ. Genova, 41: 79 (= *catenata*).

Cassida catenata: Maulik, 1919, Fauna India, Hisp. & Cassid.: 406 (India, Burma, Java, Borneo, Celebes, China). - Borowiec, 1985, Bull. Ent. Pol., 55: 33 (India, Vietnam). - Borowiec, 1990, Bull. Ent. Pol., 59: 692 (Malaysia).

Distribution: India, Bhutan, Nepal, Burma, China, Vietnam, Borneo, Nias, Java, Celebes.

Maulik (1919) suggested that this species might be one of varieties of *Cassida circumdata* Herbst. Also, *Cassida physodes* (Boheman) widely distributing in SE Asia is very similar to *catenata*.

***Cassida circumdata* (Herbst) Fig. q**

Cassida circumdata Herbst, 1790, Natursyst. Kafer, 8: 268, fig. (E. Indies). - Olivier, 1808, Entomolog., 6: 967, figs. (Amerique meridionale). - Boisduval, 1835, Faune de l'Océanie (Astrolabe), 2: 536 (no locality cited). - Maulik, 1919, Fauna India, Hisp. & Cass.: 404 (India). - Gressitt, 1952, Proc. Calif. Acad. Sci., ser. 4, 27: 489, fig. (China, Okinawa). - Gressitt & Kimoto, 1963, Pac. Ins. Mon., 1B: 970 (China). - Kimoto, 1972, Ent. Tidskrift, 93: 146 (Annam). - Medvedev & Eroshkina, 1982, in Medvedev, Animal World Vietnam: 110 (Vietnam). - Borowiec, 1985, Bull. Ent. Pol., 55: 32 (India, Vietnam, Java). - Medvedev & Eroshkina, 1988, in Medvedev, Fauna & Ecol. Vietnam: 139 (Vietnam). - Borowiec, 1990, Bull. Ent. Pol., 59: 692 (India, Ceylon, Bangladesh, Thailand, Vietnam, Philippines, Indonesia).

Cassida trivittata Fabricius, 1801, Syst. El., 1: 397 (noua Cambria). - Olivier, 1808, Ent., 6: 973, figs. (Nouvelle-Hollande). - Boisduval, 1835, Faune Ent. de l'Océanie (Astrolabe), 2: 544 (Nouvelle-Galles). - Blanchard, 1853, Voy. Pole Sud (d'Urville) Zool., 4: 323, fig. (Makassar, Nouvelle-Cambrie). - Spaeth, 1903, Ann. Mus. Nat. Hungar., 1: 128 (= *circumdata*).

Cassida U-fuscum Wiedemann, 1823, Zool. Magaz., 2: 74 (Bengalia).

Coptocycla circumdata: Boheman, 1855, Mon. Cassid., 3: 279 (India orientalis, China, Nova Guinea). - Baly, 1863, J. Ent., 2: 14 (Cambodia). - Schonfeldt, 1890, Ent. Nachr., 16 (11): 175 (China: Hongkong).

Coptocycla trivittata: Boheman, 1855, Mon. Cassid., 3: 280 (Insula Java, Manilla, Nova Cambria).

Metriona circumdata: Weise, 1901, Dtsche Ent. Z., 1901: 53 (Ceylon). - Spaeth, 1903, Ann. Mus. Nat. Hung., 1: 128 (New Guinea); 1913, ibid., 11: 47 (Formosa). - Maulik, 1913, Rec. Ind. Mus., 9: 114 (India). - Gressitt, 1938, Lingnan Sci. J., 17: 191, 386, 584 (Hainan, Kwangtung); 1939, Pan-Pac. Ent., 15: 141 (Japan, Ryukyu Is., Formosa, S. China, Annam, Manila).

Metriona circumdata var. *baeri* Spaeth, 1903, Ann. Mus. Nat. Hung., 1: 130 (Philippines).

Metriona circumdata var. *dentata* Maulik, 1913, Rec. Ind. Mus., 1913: 114 (India: Dehra Dun).

Metriona circumdata mindanoensis Spaeth, 1933, Phil. J. Sci., 51: 504 (Philippines).

Metriona circumdata polilloensis Spaeth, 1933, Phil. J. Sci., 51: 505 (Philippines).

Metriona circumdata ab. *pescadorensis* Chujo, 1934, Sylvia, 5: 161 (Pescadore Is.).

Cassida cuticula Gressitt, 1938, Lingnan Sci. J., 17: 191 (Hainan).

Distribution: India, Ceylon, Indo-China, Hainan, S. China, Taiwan, S. Kyushu, Ryukyu Is., E. Indies, Philippines, Celebes.

***Cassida ruralis* (Boheman) Fig. r**

Coptocycla ruralis Boheman, 1862, Mon. Cassid., 4: 461 (Java). - Weise, 1897, Dtsche Ent. Z., 1897: 110 (India).

Cassida ruralis: Maulik, 1919, Fauna India, Hisp. & Cassid.: 399 (Belgaum, Java).

Distribution: India, Java.

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Fig. a. *Basiprionota decempustulata* (Boheman)

Fig. b. *Basiprionota octopunctata* (Fabricius)

Fig. c. *Aspidomorpha deusta* Boheman

Fig. d. *Aspidomorpha dorsata* (Fabricius)

Fig. e. *Aspidomorpha furcata* (Thunberg)

Fig. f. *Aspidomorpha fuscopunctata* Boheman

Fig. g. *Aspidomorpha inquinata* Boheman

Fig. h. *Aspidomorpha miliaris* (Fabricius)

Fig. i. *Aspidomorpha sanctaecrucis* (Fabricius)

Fig. j. *Sindiola vigintisexnotata* (Boheman)

Fig. k. *Laccoptera discreta* Boheman

Fig. l. *Laccoptera quadrimaculata* (Thunberg)

Fig. m. *Laccoptera tredecimpunctata* (Fabricius)

Fig. n. *Chiridopsis punctata* (Weber)

Fig. o. *Chiridopsis scalaris* (Weber)

Fig. p. *Cassida catenata* (Boheman)

Fig. q. *Cassida circumdata* (Herbst)

Fig. r. *Cassida ruralis* (Boheman)

木元新作, Woro A. Noerdjito, 中村浩二 ジャワ島のカメノコハムシ亜科 (鞘翅目ハムシ科)

インドネシア共和国ジャワ島からは鞘翅目ハムシ科カメノコハムシ 亜科に所属する 6 属 22 種の昆虫が記録されている。これら昆虫について、予報的にその分類学的研究を行い、属および種への検索表を作成した。各属については、その原記載の出典、模式種、アジア産の種の重要な文献、及びその異名を編纂した。代表的な種についてその全形図の写真を掲載した。多くの種では、その体長や背面の模様について変異が多く、これらについては野外における観察やかけ合わせ実験などによって、その種内変異の研究が今後必要である。