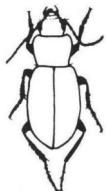


The Coccinellidae (Coleoptera) described by C. P. Thunberg

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The Coccinellidae described or recorded by C. P. Thunberg between 1781 and 1820 are examined and identified using the Thunberg collections in the University of Uppsala, Sweden. The results are presented with the original species names and published localities set out in alphabetical order, followed in each case by the presently valid combination, known distribution, bibliographic references to any previously published change of name, type data and comment. 66 lectotypes are here designated and three previous designations quoted. 21 new synonymies, and 12 new combinations are proposed.

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INTRODUCTION

Carl Peter Thunberg, pupil of Linnaeus, medical doctor and, subsequently, professor of medicine and botany at the University of Uppsala, Sweden, travelled widely in his earlier years (1770–1779), visiting other European countries, South Africa, Sri Lanka, Java and Japan. Unfortunately, when he later came to describe many of the species collected during this period, either his records, or his memories were sometimes at fault.

In his earliest paper dealing with coccinellids (1781), 11 of the 30 species described as new are incorrectly localised and 6 have no given locality. In his last coccinellid work (1820), of 16 new species said to be from South Africa, 8 prove to be Asiatic in distribution. As almost all the 1781 species were illustrated, later authors interpreted most of them correctly, but all 8 of the ‘Asiatic’ names in the 1820 paper were included among the 25 Thunberg species listed as “Ungedeutete Arten” in the *Coleopterorum catalogus* (Korschefsky 1931–32).

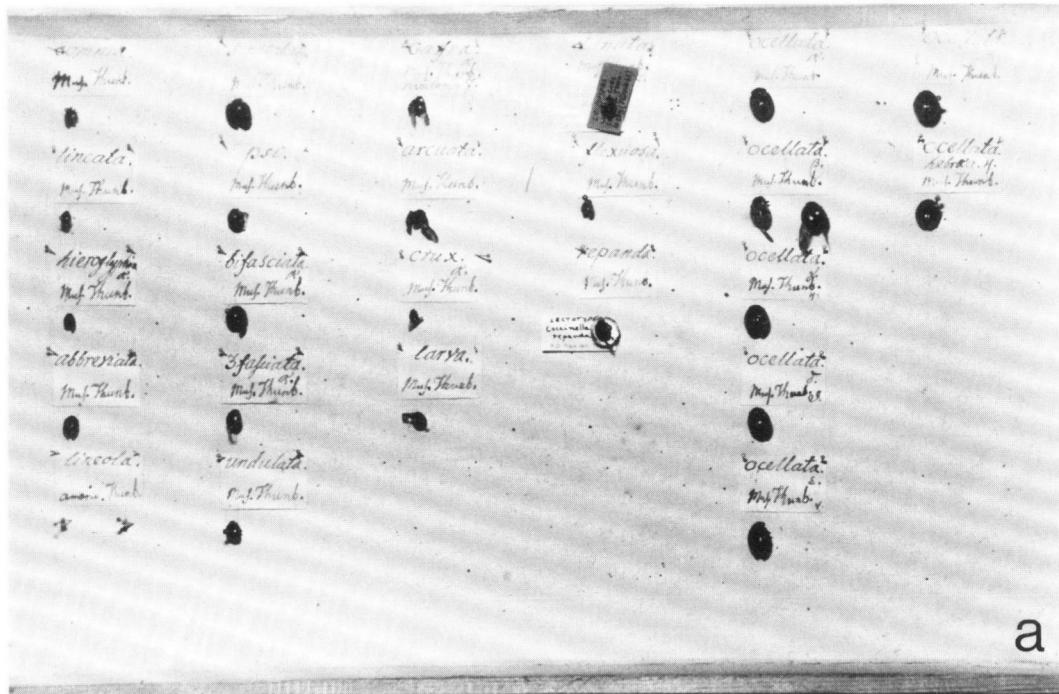
The Thunberg collections are housed in the Zoological Institute of the University of Uppsala, Sweden. Fortunately, almost every one of the 80 coccinellid species described by him is represented by a specimen or specimens in good condition (Fig. 1), with an associated label in Thunberg’s own hand. As a result it has been possible, not only to confirm or refute current opinion concern-

ing about 50 names, but also to discover the true identities of all but 2 of the 25 “unknowns”.

In the account that follows, all Thunberg’s species are dealt with in alphabetical order. Their current or discovered identity and known distribution is given, together with references to authors responsible for previous synonymies or generic reassessments. Lectotypes are designated where necessary and possible, including 20 provisionally labelled by Dr H. Fürsch of Passau, West Germany during the 1960’s. Bibliographic references to previous type citations are quoted.

In the very few cases where positive identification of a species has not proved possible, available evidence is summarised in the hope that future study will be made easier.

Although scholarship seeks truth, when found it may well prove unpalatable, or at least inconvenient. As a result of studies like the present, well-known names may be displaced by long-forgotten senior synonyms or, worse still, by senior primary homonyms long since separated generically and never again likely to lead to confusion. Nonetheless, the provisions of the International Code of Zoological Nomenclature are mandatory and conservation, however appealing at first glance, is possible only by discretionary exercise of the Commission’s Plenary Powers.



a

crux.
Maf. Thunb.

b



Fig. 1. The Thunberg collection of Coccinellidae. - a. The contents of a single drawer. - b. *Coccinella crux*, lectotype. - c. *Coccinella novemsignata*, lectotype.

CATALOGUE

N.B. 1. Localities in " " after original references are quoted *verbatim* from the text. Localities without quotation marks are inferred from the publication's title, e.g. "Insecta Svecia", "Coleoptera Capensis". 2. Unless otherwise indicated, all lectotypes are newly designated.

[**abbreviata** (*Coccinella*) 1795: 106 Sweden.]

=*Hippodamia glacialis* (Fabricius, 1775). North America.

Although attributed by Thunberg to Fabricius, "*abbreviata* Thunberg" is listed by Korschefsky (1932: 580) as an unrecognisable species, possibly synonymous with *glacialis* (F.). Both specimens currently standing under "*abbreviata*" in Thunberg's collection are *glacialis* (= *H. abbreviata*

(F., 1787)). Either he forgot the origin of his material, or *glacialis* has, from time to time, occurred in Sweden.

abdominalis (*Coccinella*) 1795: 111 Sweden.

= *Chilocorus renipustulatus* (Scriba, 1791). Palaearctic.

Synonymised by Schoenherr 1808: 197.

LECTOTYPE male, "abdominalis ♂ /Lectotype ♂, *Coccinella abdominalis* Thunberg: R. D. Pope des. 1982". Paralectotypes 3; 1 male, same data as lectotype; 1 female, "abdominalis ♂ /Paralectotype ♀, *Coccinella abdominalis* Thunberg: R. D. Pope des. 1982"; 1 female, "abdominalis ♂ Mus. Thunb./ Paralectotype ♀, *Coccinella abdominalis* Thunberg: R. D. Pope des. 1982".

arctica (*Coccinella*) 1795: 108 (nec Schneider, 1792) "Lapponia".

= *Adalia bipunctata* (Linnaeus, 1758). Holarctic.

Synonymised with *Coccinella frigida* Schneider, 1792 by Schoenherr 1808: 159. *C. frigida* transferred to *Adalia* Mulsant, 1846 by Mulsant 1850: 55 (as synonym of *Coccinella hypoborea* Paykull, 1799). *A. frigida* synonymised with *Adalia bipunctata* by Khnzorian 1982: 445.

LECTOTYPE male, "arctica ♂ /Lectotype ♂, *Coccinella arctica* Thunberg: R. D. Pope des. 1982". Paralectotypes 4; 1 female, "arctica ♂, SW/Paralectotype ♀ *Coccinella arctica* Thunberg: R. D. Pope des. 1982"; 1 female, "arctica ♂ Lapponia/Paralectotype ♀ *Coccinella arctica* Thunberg: R. D. Pope des. 1982"; 1 female, "arctica ♂ Mus. Thunb./Paralectotype ♀ *Coccinella arctica* Thunberg: R. D. Pope des. 1982"; 1 female, "arctica ♂ /Paralectotype ♀ *Coccinella arctica* Thunberg: R. D. Pope des. 1982".

Other specimens, standing under such labels as "arctica ♂ *frigida* Schn.", "arctica ♂ *hyperborea* L." and "arctica ♂ *hyperborea*" are regarded as possibly post-1795 and not accepted as syntypical material.

ater (*Scymnus*) 1795: 105 (nec Kugelann, 1794) Sweden.

= *Scymnus nigrinus* Kugelann, 1794. Europe.

Synonymised with *Coccinella morio* Paykull, 1798 and *S. nigrinus* Kugelann, 1794 by Paykull 1799: 8, using *morio* as the "valid" name.

Schoenherr 1808: 207 repeated the synonymy, but, correctly, gave priority to *nigrinus* Kugelann.

LECTOTYPE female, "morio Anthr. ater Mus./Lectotype ♀ *Scymnus ater* Thunberg: R. D. Pope des. 1982". Paralectotype female, "morio Mus. Thunb. Anthr. ater Mus./ Paralectotype ♀ *Scymnus ater* Thunberg: R. D. Pope des. 1982".

The identity of the type material is accepted, despite its failure to have "ano solo rufescente", a characteristic already queried by Mulsant (1846: 221) and here regarded as illusory.

atrata (*Coccinella*) 1820: 369 Cape of Good Hope.

Platynaspis atrata (Thunberg) **comb. n.**

(= *Platynaspis pilosa* Sicard, 1930) **syn. n.** Southern Africa, Congo.

Species *incertae sedis* in Korschefsky 1932.

LECTOTYPE male, "atrata Cap/ Lectotypus *Platynaspis atrata* Thunb. (Fürsch 1963)".

Synonymy from Sicard's clear description (1930: 74) of this unusual species.

auritus (*Scymnus*) 1795: 105 "Vestro Gothia".

Scymnus (Pullus) auritus Thunberg. Europe.

LECTOTYPE male, "auritus ♂ Vestrog./ Lectotype ♂ *Scymnus auritus* Thunberg: R. D. Pope des. 1982". Paralectotype female, "auritus ♂ /Paralectotype ♀ *Scymnus auritus* Thunberg: R. D. Pope des. 1982".

bimaculatus (*Scymnus*) 1795: 105 "Upplandia; Vestro Gothia".

= *Scymnus frontalis* (Fabricius, 1787). Europe.

Synonymised by Mulsant 1846: 234.

LECTOTYPE female, "flavilabris 2-macul. Gyll./ Lectotype ♀ *Scymnus bimaculatus* Thunberg: R. D. Pope des. 1982".

The inscription "Gyll." on Thunberg's label supports the authenticity of the specimen as the full published data read "Habitat in Upplandia; in Vestrogothia. Gyllenhal".

bipustulata (*Chrysomela*) 1784: 13 "Svecia".

= *Hyperaspis repens* (Herbst, 1783). Europe.

Synonymy from Mulsant 1846: 183.

Material not found.

bipustulatus (*Scymnus*) 1795: 105 Sweden.

=*Nephus bipunctatus* (Kugelann, 1794). Europe.

Synonymised by Paykull 1798: 153, with both names as synonyms of *Coccinella affinis* Paykull, 1798. Included in *Nephus* Mulsant, 1846 (as subgenus of *Scymnus* Kugelann, 1794) by Mulsant 1846: 239.

LECTOTYPE. "affinis α 2-pustul. Mus./Lectotype *Scymnus bipustulatus* Thunberg: R. D. Pope des. 1982".

brunnea (*Coccinella*) 1798: 114. No locality given.

Identity unknown.

Species *incertae sedis* in Korschefsky 1932.

No specimens stand under this name in Thunberg's collection today. Said by its author to differ from all other coccinellids and to be found at the roots of trees, *brunnea* remains a mystery. Schoenherr (1808: 203) included it in the synonymy of *Coccinella* (now *Scymnus*) *abietis* Paykull, 1798, but the description and, more particularly, the biological comment by Thunberg, seem to suggest that it belongs to some other coleopterous family.

caffra (*Coccinella*) 1820: 367 Cape of Good Hope.

=*Lioadalia flavomaculata* (De Geer, 1778). Southern Africa.

Synonymy: The first valid and definite synonymy appears to be by Mulsant 1850: 61, although Schoenherr 1808: 169, having seen Thunberg's provisionally named specimens in Uppsala, included *caffra* with *flavomaculata* as a synonym of *rivularis* Fabricius, 1801. Presumably, Thunberg either did not agree with Schoenherr, or forgot when writing his own publication.

LECTOTYPE male, "caffra α Mus. Thunb. rivularis F./Lectotype δ *Coccinella caffra* Thunberg: R.D. Pope des. 1982". Paralectotypes 2; 1 male, "caffra α *rivularis* F./Paralectotype δ *Coccinella caffra* Thunberg: R.D. Pope des 1982"; 1 female, *caffra* β/Paralectotype ♀ *Coccinella caffra* Thunberg: R.D. Pope des. 1982".

capensis (*Coccinella*) 1781: 16 No locality; 1820: 366 Cape of Good hope.

Epilachna capensis (Thunberg). Southern Africa.

Following earlier authors, including Dejean 1837: 436 who transferred it to *Epilachna*, Korschefsky 1931: 20 listed *capensis* Thunberg as a synonym of *E. chrysomelina* (Fabricius, 1775), but Fürsch 1964: 191 regarded it as a good species.

Lectotype female, "capensis α *chrysomelina* F./Lectotypus *Epilachna capensis* Thunbg (Fürsch 1963)". (Designated by Fürsch 1964: 191).

Two other examples, standing under labels "capensis β" and "capensis γ" are both *E. bifasciatus* (F.), as noted by Fürsch (1964: 189, 191).

circularis (*Coccinella*) 1820: 365 Cape of Good Hope.

=*Coelophora inaequalis* (Fabricius, 1775) syn. n. Asia, Australasia.

Species *incertae sedis* in Korschefsky 1932.

LECTOTYPE female, "circularis Cap./Typus *Coelophora circularis* Thunb. Fürsch 63/ *Coelophora 9-punctata* (Fabr.) f. *iridea* (Thunbg.) H. Fürsch det. 1963".

Examination of a very large number of specimens belonging to the widespread *C. inaequalis* suggests that this particular colour form has a limited distribution in Southeast Asia. It agrees with the description given by Khnzorian (1982: 269), and with the lectotype of *iridea* Thunberg (q.v.).

colon (*Coccinella*) 1795: 111 (nec Herbst, 1783) Sweden.

=*Rhyzobius burmeisteri* Mulsant, 1850 syn. n. Southern Africa.

Species *incertae sedis* in Korschefsky 1932.

LECTOTYPE. "colon Mus. Thunb./Lectotypus *Rhizobius colon* (Thunberg) (Fürsch 63)/ = *Rhizobius burmeisteri* (Mulsant) H. Fürsch det. 1963".

comma (*Coccinella*) 1781: 20 "Capite bonae spei"; 1820: 367.

Micraspis comma (Thunberg). Southern Africa.

Transferred to *Verania* Mulsant, 1850 (= *Micraspis* Dejean, 1837) by Mulsant 1850: 358.

LECTOTYPE female, "comma Mus. Thunb./Lectotype ♀ Coccinella comma Thunberg: R.D. Pope des. 1982".

Another female specimen, labelled "comma Cap," appears to be part of the material looked at separately for the 1820 publication and so is not regarded as syntypical.

crucigera (*Coccinella*) 1820: 364 (*nec* Gyllenhal in Schoenherr, 1808) Cape of Good Hope.

Cheilomenes crucigera (Thunberg) **comb. n.**? Africa.

Species *incertae sedis* in Korschefsky 1932.

LECTOTYPE female, "crucigera Cap./Lectotypus Autotela crucigera (Thunberg) (Fürsch 1963)/ *Cheilomenes crucigera* (Thunberg): R.D. Pope det. 1982".

The provision of a new name for Thunberg's species should await a taxonomic revision.

crux (*Coccinella*) 1781: 20 "Capite bonae spei"; 1820: 367. (Fig. 1b)

Micraspis crux (Thunberg). ?Africa.

Tentatively assigned to *Verania* Mulsant, 1850 (= *Micraspis* Dejean, 1837) by Mulsant 1850: 373. Reassignment confirmed by Mulsant 1866: 244.

LECTOTYPE male, "crux ♂ Mus. Thunb./Lectotype ♂ Coccinella crux Thunberg: R.D. Pope des. 1982". Paralectotypes 2; 1 male, "crux β /Paralectotype ♂ Coccinella crux Thunberg: R.D. Pope des. 1982"; 1 female, "crux γ /Paralectotype ♀ Coccinella crux Thunberg: R.D. Pope des. 1982".

A female example under the label "crux Cap." is regarded as material applicable to the 1820 reference and therefore without type status.

cuneata (*Coccinella*) 1820: 364 Cape of Good Hope.

Oenopia cuneata (Thunberg)

(= *Oenopia cinctella* Mulsant, 1850). Southern and central Africa.

Species *incertae sedis* in Korschefsky 1932. Synonymy from Khnзорian 1982: 414, with *cuneata* incorrectly rejected as a "nomen oblitum".

LECTOTYPE, "cuneata Cap./Lectotypus *Oenopia cuneata* (Thunberg) Fürsch 1963/ = *Oenopia cinctella* Muls. H. Fürsch det. 1963".

See also *C. spicillum* Thunberg (q.v.).

dentata (*Coccinella*) 1781: 23 "Capite bonae spei"; 1820: 369.

= *Propylea japonica* (Thunberg, 1781). Northeast Asia, China, Japan.

Synonymy: Mulsant 1866: 161 transferred the species to *Propylea* by considering it to be one of the varieties of *P. quattuordecimpunctata* (Linnaeus), but the first definite association with *japonica* appears to have been by Korschefsky 1932: 531.

LECTOTYPE. "dentata ♂ Mus. Thunb./Lectotype *Coccinella dentata* Thunb. R.D. Pope des. 1986."

dentata 1795: 113 (*nec* Thunberg, 1781) (replacement name for *decempustulata* Fabricius, 1792 *nec* Linnaeus, 1758) "Svecica".

= *Propylea quattuordecimpunctata* (Linnaeus, 1758) **syn. n.** Palaearctic.

LECTOTYPE female, "dentata α 12-pustulata F/Lectotype ♀ *Coccinella dentata* Thunberg 1795: R.D. Pope des. 1986". Paralectotypes 2; 1 female, "dentata β /Paralectotype ♀ *Coccinella dentata* Thunberg 1795: R.D. Pope des. 1986"; 1 male "dentata γ /Paralectotype ♂ *Coccinella dentata* Thunberg 1795: R.D. Pope des. 1986".

This was clearly intended as a replacement name for the second of two different species, consecutively described under the same name by Fabricius, the first being ascribed to Linnaeus, the second given as new. Thunberg evidently interpreted the Fabrician species correctly for it is now accepted (Korschefsky 1932: 537) as a synonym of *P. quattuordecimpunctata*. However, his description was based on his collection and the specimens so named form the type series of *dentata* 1795.

distincta (*Coccinella*) 1781: 17 "Capite bonae spei"; 1820: 367.

Epilachna distincta (Thunberg). Southern Africa.

Transferred to *Epilachna* by Mulsant 1850: 871.

LECTOTYPE female "distincta Mus. Thunb./Lectotype ♀ Coccinella distincta Thunberg: R.D. Pope des. 1982".

Senior primary homonym of *C. distincta* Brullé, 1832 and Faldermann, 1837.

divergens (*Coccinella*) 1820: 363 Cape of Good Hope.

Micraspis divergens (Thunberg) **comb. n.** Southern Africa.

(= *Cheilomenes weisei* (Gorham, 1901)) **syn. n.** (Syntypes BM(NH), examined).

(= *Micraspis capeneri* (Mader, 1954)) **syn. n.**

Species *incertae sedis* in Korschefsky 1932.

LECTOTYPE female, "divergens Cap./Lectotypus *Micraspis divergens* (Thunberg) (Fürsch 1963). = *Micraspis capeneri* (Mader) H. Fürsch det. 1963".

duodecimmaculata (*Coccinella*) 1820: 366 Cape of Good Hope.

Epilachna duodecimmaculata (Thunberg) **comb. n.** Asia.

Species *incertae sedis* in Korschefsky 1932.

LECTOTYPE male, "12-maculata ♂ Cap./Lectotypus *Epilachna 12-maculata* (Thunberg) (Fürsch 63)". Paralectotype [no abdomen], "12-maculata Cap. Paralectotypus *Epilachna* (Henosep.) 12-maculata (Thunberg) (Fürsch 63)".

The species is a 12-spotted member of the "*E. vigintioctopunctata*" group (*sensu* Richards 1983) of Asian-Australian distribution. The locality "Cap." by Thunberg is therefore regarded as erroneous.

Senior primary homonym of *Calvia duodecimmaculata* (Gebler, 1832) and *Coccinella duodecimmaculata* Klug, 1829.

fennica (*Coccinella*) 1795: 106 "Finlandia".

= *Hippodamia variegata* (Goeze, 1777). Palaearctic; Africa as far south as Kenya; India.

Synonymy: *C. fennica* = *C. mutabilis* Scriba, 1790 (Schoenherr 1808: 176). *C. mutabilis* = *C. variegata* Goeze (Weise 1879: 92, 93). *C. mutabilis* transferred to *Adonia* Mulsant by Mulsant 1846:

39. *Adonia* reduced to a subgenus of *Hippodamia* Dejean, 1837 by Khnzorian 1979: 51, 65.

LECTOTYPE male, "fennica Mus. Thunb./Lectotype ♂ *Coccinella fennica* Thunberg: R.D. Pope des. 1982".

fimbriata (*Coccinella*) 1781: 11 (*nec* Sulzer, 1776)

No locality; 1820: 364 Cape of Good Hope.

= *Oenopia cuneata* (Thunberg, 1820) **syn. n.** (= *Oenopia cinctella* Mulsant, 1850) Southern & central Africa.

LECTOTYPE male, "fimbriata Mus. Thunb./Lectotype ♂ *Coccinella fimbriata* Thunberg: R.D. Pope des. 1982".

Another specimen, in a different drawer of the collection, standing under a label "fimbriata" is a female *Micraspis discolor* (Fabricius). It does not agree with the description of *fimbriata* and is not accepted as type material, but may have been the reason for Schoenherr's (1808: 152) synonymising *fimbriata* Thunberg with *discolor* F.

flavicollis (*Coccinella*) 1781: 18 "Capite bonae spei"; 1820: 366.

Epilachna flavicollis (Thunberg). Southeast Asia.

Transferred to *Epilachna* (as "*flavicollis* Olivier") by Dejean 1837: 431, to *Afissa* Dieke by Dieke 1947: 135. Returned to *Epilachna* by Li & Cook 1961: 55, 63.

Lectotype female, "flavicollis ♂ Mus. Thunb./*Epilachna flavicollis* Thunb. det. C.S. Li 1959". Designated by selection as 'type' by Li & Cook (1961: 33, 64).

Two other specimens stand under the name *flavicollis*. They were examined by Li & Cook and are labelled as follows: 1 male, "flavicollis ♂ Cap./*Henosepilachna pusillanima* (Muls.) det. C.S. Li 1959"; 1 male, "flavicollis ♂ /*Henosepilachna indistincta* (Dieke) det. C.S. Li 1959".

flavipes (*Coccinella*) 1781: 21 "Promontorio bonae spei"; 1820: 368.

Exochomus flavipes (Thunberg). Africa.

Transferred to *Exochomus* Redtenbacher (as a synonym of *E. auritus* (Scriba, 1791)) by Mulsant 1850: 483.

LECTOTYPE male, "flavipes ♂ Mus. Thunb./*Neoholotypus Exochomus flavipes* (Thunberg) Fürsch". Paralectotype, "flavipes ♂ Mus. Thunb./*Paratypus Exochomus flavipes* (Thunberg) Fürsch".

The lectotypical material was commented on by Fürsch (1961: 70). He referred also to a third example (see *flavipes* 1795, below).

flavipes (*Coccinella*) 1795: 110 (nec Thunberg, 1781) "Vestro Gothia".

= *Micraspis afflita* (Mulsant, 1850) syn. n. Java, Borneo, Sumatra.

LECTOTYPE, "flavipes ♂ impustulata/Lectotype *Coccinella flavipes* Thunberg, 1795: R.D Pope des. 1986".

Intended as a replacement name for what Thunberg considered to be *Coccinella impustulata sensu* Fabricius, 1792 not Linnaeus, 1767, but accepted as a second description of *flavipes* Thunberg, 1781 by Korschefsky (1932: 254). The specimen on which Thunberg based his description shows both to have been in error. Fabricius was consistent in quoting the original Linnean diagnosis and locality data, neither of which agree either with Thunberg's description, or his specimen. The lectotype of *flavipes*, 1795 is the third "typus" mentioned by Fürsch (1961: 70) when redescribing *flavipes* Thunberg, 1781. Present synonymy based on topotypical specimens (from Java) in the BM(NH), identified by Crotch (1874: 172), who examined syntypes of *afflita*, and on its recent interpretation by Khnzorian (1982: 514).

flexuosa (*Coccinella*) 1781: 17 (nec Fabricius, 1777) "Capite bonaे spei"; 1820: 367.

= *Menochilus sexmaculatus* (Fabricius, 1781). Asia, Polynesia, Australia.

Synonymised by Schoenherr 1808: 172. Synonymy confirmed by comparison with the lectotype of *sexmaculatus* in the Banks collection (BM(NH), London). Transferred to *Cheilomenes* Mulsant, 1850 (nec Dejean, 1837) by Mulsant 1850: 445. *Cheilomenes* Mulsant renamed *Menochilus* by Timberlake 1943: 40.

LECTOTYPE female, "bifasciata ♂ flexuosa Th./Lectotype ♀ *Coccinella flexuosa* Thunberg; R.D. Pope des. 1982". Paralectotypes 4; 2 females with same data as lectotype; 2 females, "bifasciata β".

Two further specimens stand under the name *flexuosa*. 1 male, "flexuosa Mus. Thunb." does not agree with the original description and is an example of *Coccinella hieroglyphica* L. Another male, "flexuosa F.", is also *C. hieroglyphica*.

C. flexuosa Fabricius, 1777 is, in fact, *hieroglyphica* L.

The name "bifasciata" on the labels may refer to Thunberg's misapprehension that his species was the same as *C. bifasciata* (now *Epilachna*) Fabricius, 1781.

frontalis (*Coccinella*) 1792: 105 "Svecica".

= *Chilocorus bipustulatus* (Linnaeus, 1758). Europe.

Synonymy from Schoenherr 1808: 192. Transferred to *Chilocorus* Leach, 1815 by Mulsant 1846: 170.

No specimens exist in the Thunberg collection under this name, but the description clearly agrees with *C. bipustulatus*.

gibba (*Coccinella*) 1781: 13 "Capite bonaе spei"; 1820: 366.

Epilachna gibba (Thunberg). Africa.
(= *E. maga* Weise, 1899) syn. n.

First tentatively transferred to *Epilachna* by Korschefsky 1931: 67, reassignment confirmed by Andreæ 1953: 41.

LECTOTYPE male, "gibba Mus. Thunb./Typus (Lecto) *Epilachna maga* forma *gibba* (Thunberg) (Fürsch 63)".

grandis (*Coccinella*) 1781: 12 "China".

Synonycha grandis (Thunberg). East Asia, both palaearctic and tropical.

Transferred to *Synonycha* Mulsant by Mulsant 1850: 230.

LECTOTYPE male, "grandis ♂ /Lectotype ♂ *Coccinella grandis* Thunberg; R.D. Pope des. 1982". Paralectotypes 4; 1 male "grandis γ /Paralectotype ♂ *Coccinella grandis* Thunberg; R.D. Pope des. 1982"; 1 female, "grandis β /Paralectotype ♀ *Coccinella grandis* Thunberg; R.D. Pope des. 1982"; 1 female, "grandis α versicolor F./Paralectotype ♀ *Coccinella grandis* Thunberg; R.D. Pope des. 1982"; 1 female "grandis α Mus. Thunb./Paralectotype ♀ *Coccinella grandis* Thunberg; R.D. Pope des. 1982".

haemorrhoidalis (*Coccinella*) 1781: 21 (nec Fabricius, 1777) No locality given.

=*Exochomus versutus* Mulsant, 1850. Southern Africa.

Tentatively synonymised by Mulsant 1850: 1047, confirmed by Sicard 1930a: 175.

LECTOTYPE [no abdomen], "haemorrhoidalis Mus. Thunb./Lectotype Coccinella haemorrhoidalis Thunberg: R.D. Pope des. 1982".

Coccinella haemorrhoidalis Fabricius = *Subcoccinella vigintiquatuorpunctata* (Linnaeus, 1758).

haemorrhoidalis (*Coccinella*) 1795: 111 (nec Fabricius, 1777 and Thunberg, 1781) Sweden.

=*Exochomus versutus* (Mulsant). Southern Africa.

The only example standing under this name is the one dealt with as *C. haemorrhoidalis* 1781. The two species descriptions are very similar to one another. Schoenherr (1808: 198) indicated that he considered them to refer to a single species, a view followed by many subsequent authors, including the present.

hirta (*Coccinella*) 1781: 23 "Promontorium [sic] bonae spei"; 1820: 368.

Epilachna hirta (Thunberg). Africa.

Transferred to *Epilachna* Dejean, 1837 by Mulsant 1850: 756.

LECTOTYPE female, "hirta/Lectotypus Epilachna hirta (Thunberg) (Fürsch 63)". Paralectotype male, "hirta/Paralectotypus ♂ Epilachna hirta (Thunberg) (Fürsch)".

iridea (*Coccinella*) 1781: 14 "Capite bonae spei"; 1820: 366.

=*Coelophora inaequalis* (Fabricius, 1775). Asia, Australasia.

Transferred to *Coelophora* Mulsant 1850: 399. Listed as an aberration of *Coelophora novempunctata* (Fabricius) by Korschefsky 1932: 294 and so, as *novempunctata* (F.) is a junior synonym of *inaequalis* (first stated by Crotch 1874: 153), the correct combination, given for example by Khnzorian 1982: 269, is *C. inaequalis*.

LECTOTYPE female, "iridea Mus. Thunb./Lectotype ♀ Coccinella iridea Thunberg: R.D. Pope des. 1982".

The lectotype has the same elytral colour pattern as that of *Coccinella circularis* (q.v.).

japonica (*Coccinella*) 1781: 12 "Japonia".

Propylea japonica (Thunberg). Northeast Asia and India.

Transferred to *Propylea* Mulsant, 1846 by Lewis 1896: 30.

LECTOTYPE male, "japonica Mus. Thunb./Lectotype ♂, Coccinella japonica Thunberg: R.D. Pope des. 1982".

laevis (*Coccinella*) 1781: 22 No locality given.

Brachiacantha laevis (Thunberg) **comb. n.**
(=*Brachiacantha bistrigulata* (Fabricius, 1801)) **syn. n.** North & South America.

Species *incertae sedis* in Korschefsky 1932.

LECTOTYPE male, "laevis ♂ Mus. Thunb./Lectotype ♂, Coccinella laevis Thunberg: R.D. Pope des. 1986". Paralectotype [no abdomen], "laevis ♂ Mus. Thunb./Paralectotype, Coccinella laevis Thunberg: R.D. Pope des. 1986".

Synonymy from syntypes of *bistrigulata* in the Zoological Museum, University of Copenhagen.

lapponica (*Coccinella*) 1795: 113 "Lapponia".

=*Hippodamia arctica* (Schneider, 1792). Northern Europe.

Synonymised by Schoenherr 1808: 199. Transferred to *Adonia* Mulsant, 1846 by Mulsant 1850: 44, to *Hippodamia (Parippodamia)* Khnzorian, 1979 by Khnzorian 1979: 65.

LECTOTYPE female, "lapponica ♂ Mus. Thunb./Lectotype ♀ Coccinella lapponica Thunberg: R.D. Pope des. 1982".

A second specimen, a male, is labelled "lapponica ♂ arctica Schn.". It is considered that the pairing of the names suggests a later addition to the collections.

lineata (*Coccinella*) 1781: 21 "Capite bonae spei"; 1820: 367.

Micraspis lineata (Thunberg). Malaysia, Indonesia, New Guinea.

Transferred to *Verania* Mulsant (= *Micraspis* Dejean, 1837) by Mulsant 1850: 360.

LECTOTYPE [no abdomen], "lincata Mus. Thunb./Lectotype Coccinella lineata Thunberg: R.D. Pope des. 1982".

Other specimens, 1 male, 1 female and 1 without an abdomen under the label "lineata α striata F.", 3 females under "lineata β vittata [Fabricius, 1792]" and 1 female under "lineata γ " are all of the same species, but probably not examined by Thunberg until after the 1781 publication.

lunata (*Coccinella*) 1781: 19 (nec Fabricius, 1775)

"Capite bonae spei"; 1820: 367.

Species *incertae sedis* in Korschefsky 1932.

Six specimens, none of them agreeing with the original description and illustration, stand under labels as follows: - 1 female "lunata δ F./Lectotype Cheilomenes lunata Thunberg (Fürsch)/ = Coccinella repande F.H. Fürsch det.". 1 "lunat. δ F.". (This is an example of *Cheilomenes lunata* (Fabricius, 1775)). 2 "lunata β " are also *C. lunata* (F.). 2 "lunata γ " are *Cheilomenes sulphurea* (Olivier, 1791).

C. lunata Thunberg remains an unrecognised species.

lunigera (*Coccinella*) 1808: 207 "extra Europ."

= *Cryptogonus orbiculus* (Gyllenhal, 1808) **syn. n.** Asia.

Species *incertae sedis* in Korschefsky 1932.

LECTOTYPE female, "lunaris lunigera/Lectotype ♀ Coccinella lunigera Thunberg: R.D. Pope des. 1982".

The single specimen corresponds closely to the illustrations given by Kapur (1948: 91) for colour patterns of *C. orbiculus* var. *apicalis* Weise from Borneo and agrees well with examples in BM(NH) from Borneo and Java, the latter being visited by Thunberg during his travels in the 1770's.

C. lunigera and *C. orbiculus* having been described in the same publication (Schoenherr 1808) and synonymised for the first time, allows priority to be given to the established Gyllenhal name.

marginata (*Coccinella*) 1784: 10 (nec Linnaeus, 1767) "Upsaliae".

= *Adalia decempunctata* (Linnaeus, 1758). Europe.

Schoenherr 1808: 163 placed *marginata* along with *C. bipustulata* Herbst in the synonymy of "*C. humeralis*". Currently (Korschefsky 1932: 410), *C. marginata* is accepted as a synonym of *Adalia decempunctata* (Linnaeus).

All specimens standing under the name "marginata", 1 male "marginata Mus. Thunb.", 2 males, 1 female "marginata α Barthel.", 2 females "marginata β ", are examples of *Cycloneda sanguinea* (Linnaeus) and quite unlike Thunberg's description.

marginella (*Coccinella*) 1795: 110 (nec Müller, 1776) Sweden.

= *Adalia decempunctata* (Linnaeus, 1758). Europe.

Synonymised with *Coccinella decempunctata* (as one of the "varieties" of *C. variabilis* Illiger) by Mulsant 1846: 105. Included in *Adalia* Mulsant, 1846 (as subgenus of *Coccinella*) by Ganglbauer 1899: 995.

LECTOTYPE male, "marginella Mus Thunb./Lectotype ♂ Coccinella marginella Thunberg: R.D. Pope des. 1982."

minima (*Coccinella*) 1820: 368 (nec Müller, 1776)
Cape of Good Hope.

Pharopsis minima (Thunberg) **comb. n.**? Africa.

Species *incertae sedis* in Korschefsky 1932.

LECTOTYPE. "minima Cap. x/Lectotype, Coccinella minima Thunberg: R.D. Pope des. 1986".

A new name for the taxon should await a revision.

minuta (*Coccinella*) 1781: 11 "India orientali".

Sticholotis minuta (Thunberg) **comb. n.** Asia.

Species *incertae sedis* in Korschefsky 1932.

LECTOTYPE. "minuta Mus. Thunb./Lectotype Coccinella minuta Thunberg: R.D. Pope des. 1986".

Sticholotis minuta is almost certainly from some part of Asia, but does not agree with any species known to the author.

novemsignata (*Coccinella*) 1820: 365 (nec Herbst, 1793) Cape of Good Hope. (Fig. 1c).

=*Coelophora inaequalis* (Fabricius, 1775) **syn. n.** Asia, Australasia.

Species *incertae sedis* in Korschefsky 1932.

LECTOTYPE male, "9-signata Cap./Coelophora 9-signata Thunberg Lectotypus (Fürsch 63)/Coelophora novem-punctata (Fabricius) H. Fürsch det 1963".

The specimen (Fig. 1c) has an elytral colour pattern very similar to that of *Coccinella psi* (Thunberg, 1781) (Khnzorian 1982: 269 and below), suggesting that it too was collected by Thunberg during his time in Java.

oblongata (*Coccinella*) 1820: 368 Cape of Good Hope.

=*Lemnia biplagiata* (Swartz in Schoenherr, 1808) **syn. n.** East Asia.

Species *incertae sedis* in Korschefsky 1932.

LECTOTYPE female, "oblongata Cap./Lectotypus Lemnia oblongata Thunberg (Fürsch 63). = *Lemnia biplagiata* Sw. H. Fürsch det. 1963".

Syntype of *L. biplagiata*, Gyllenhal collection, Naturhistoriska Riksmuseum, Stockholm, examined.

octodecimmaculata (*Coccinella*) 1795: 109 Sweden.

=*Psyllobora variegata* (Fabricius, 1781) **syn.n.** S. Mediterranean, Africa.

Tentatively listed by Schoenherr 1808: 189 as a synonym of *Coccinella impustulata* "Illiger", and incorrectly accepted as a synonym of *C. conglobata* Linnaeus by Korschefsky 1932: 448. Present synonymy by comparison with the original specimens of *P. variegata* in the Banks collection (BMNH, London).

LECTOTYPE male, "18-maculata Mus. Thunb. 18-punctata Mus./Lectotype ♂ *Coccinella* 18-maculata Thunberg: R.D. Pope des. 1982".

octoguttata (*Coccinella*) 1781: 24 "in regno Japonico".

=*Doryphorella aestuans* (Linnaeus, 1758). Guyana, Surinam, Brazil.

Synonymised with *Chrysomela aestuans* Linnaeus by Thunberg 1787: 44.

Transferred to *C. (Doryphora)* by Schoenherr 1808: 238, to *Doryphorella* Achard by Achard 1921: 196.

No example of the species exists in Thunberg's collection today, but the original illustration corresponds so well with *D. aestuans* as generally known, that the synonymy is not questioned. The locality error is a *lapsus* on Thunberg's part. It is most probable that he received his specimens, as did Linnaeus, from Rolander, who collected in Surinam and gave all his material to De Geer (1720–1778) who, in turn, passed much of it to Linnaeus, but perhaps some also to his pupil Thunberg before the latter's departure from Sweden in 1770.

octomaculata (*Coccinella*) 1781: 13 (nec Fabricius, 1781) "Capite bonae spei"; 1820: 365.

=*Epilachna octonotata* (Herbst, 1793). Burma.

The homonymy with *C. (now Harmonia) octomaculata* F. was first noted by Herbst 1793, who offered *octonotata* as a replacement. Transferred to *Epilachna* Dejean, 1837 by Mulsant 1850: 768. The most recent reference (Korschefsky 1931: 30) gives *octomaculata* as the "valid" name, with *octonotata* as a synonym.

LECTOTYPE female, "8-maculata Mus. Thunb./Lectotype ♀ *Coccinella* 8-maculata Thunberg: R.D. Pope des. 1982".

octopustulata (*Coccinella*) 1795: 112 "Svecica".

=*Coccinella hieroglyphica* Linnaeus, 1758. Europe.

Synonymised by Schoenherr 1808: 169.

LECTOTYPE female, "8-pustulata ♂ Mus. Thunb./Lectotype ♀ Coccinella 8-pustulata Thunberg: R.D. Pope des. 1982". Paralectotypes 2 females "8-pustulata ♂ SW/Paralectotype ♀ Coccinella octopustulata Thunberg: R.D. Pope des. 1982".

Senior primary homonym of *C.* (now *Hyperaspis*) *octopustulata* Fabricius, 1801.

oculata (*Coccinella*) 1781: 14 "Capite bonae spei".

Hippodamia (*Semiadalia*) *oculata* (Thunberg) **comb. n.**

(= *H.* (*Semiadalia*) *undecimnotata* Schneider, 1792) **syn. n.** Europe.

Species *incertae sedis* in Korschefsky 1932.

LECTOTYPE female, "oculata Mus. Thunb./Lectotypus *Semiadalia oculata* (Thunberg) (Fürsch 63)/ = *Semiadalia undecimnotata* (Schneider) H. Fürsch det. 1963".

Senior primary homonym of *C.* (now *Olla*) *oculata* Fabricius, 1792.

oculata (*Coccinella*) 1795: 107 (nec Thunberg, 1781, Fabricius, 1792) Sweden.

=*Coccinella undecimpunctata* Linnaeus, 1758. Europe, North Africa, Asia.

Synonymy from Schoenherr 1808: 179.

No specimens agreeing with Thunberg's 1795 description stand under the name "*oculata*". Apart from the example selected as lectotype for *C. oculata* 1781 (above), the only other specimen so-named belongs to *Lemnia biplagiata* (Swartz in Schoenherr, 1808). It seems possible that Thunberg realised his error at some early stage and transferred his 1795 "*oculata*" to among material identified as *C. undecimpunctata* L.

pallida (*Coccinella*) 1784: 9 "Upsaliae".

=*Aphidecta oblitterata* (Linnaeus, 1758). Europe, West Asia.

Synonymised with *C. livida* De Geer, 1775, among other species, under *C. m-nigrum* by Schoenherr 1808: 152. Transferred to *Adalia* Mulsant, 1846 (as *livida* De Geer) by Mulsant

1846: 46. Synonymised with *Adalia oblitterata* (Linnaeus) by Mulsant 1850: 50. *A. oblitterata* transferred to *Aphidecta* Weise, 1893 by Weise 1893: 106.

LECTOTYPE female, "pallida ♂ Mus. Thunb./Lectotype ♀ Coccinella pallida Thunberg: R.D. Pope des. 1982".

psi (*Coccinella*) 1781: 13 "Caput [sic] bonae spei"; 1820: 367.

=*Coelophora inaequalis* (Fabricius, 1775). Asia, Australasia.

Synonymised by Crotch 1874: 153. Segregated as "forme *psi*" by Khnzorian 1982: 269.

LECTOTYPE male, "psi Mus. Thunb./Lectotype ♂ Coccinella psi Thunberg: R.D. Pope des. 1982".

Elytral colour pattern very like that of *C. novem-signata* (q.v.).

pulicaris (*Coccinella*) 1820: 368 Cape of Good Hope.

Cryptogonus pulicaris (Thunberg) **comb. n.** Asia.

Species *incertae sedis* in Korschefsky 1932.

LECTOTYPE male, "pulicaris Cap./Lectotypus ♂ *Cryptogonus pulicaris* (Thunberg) (Fürsch 63)".

The species appears not to correspond with any of those described and illustrated by Kapur (1948) or by more recent authors such as Sasaji (1968, 1971). Thunberg's assumption that the species originated from Africa is clearly an error. The genus is entirely Asiatic.

pusilla (*Coccinella*) 1781: 16 (nec Müller, 1776) No locality given.

=*Jauravia opaca* (Weise, 1900) **syn. n.** Sri Lanka.

Korschefsky 1932: 569 placed *pusilla* Thunberg, with some doubt, in *Psyllobora* Dejean.

LECTOTYPE, "pusilla/Lectotype *Coccinella pusilla* Thunberg: R.D. Pope des. 1986".

The synonymy of *opaca* (Weise, 1900) with *simplex* (Walker, 1859) by Kapur (1946: 86) was in error. *J. opaca*, with *pusilla* as synonym, remains

the only species from Sri Lanka with strongly microreticulate elytra.

pygmaea (*Coccinella*) 1820: 363 (nec Fourcroy, 1785) Cape of Good Hope.

= *Psyllobora blanda* (Weise, 1897) **syn. n.** Africa.

Species incertae sedis in Korschefsky 1932.

LECTOTYPE female, "pygmaea Cap./Lectotypus *Thea pygmaea* (Thunberg) (Fürsch 63)/ = *Thea blanda* Weise H. Fürsch det. 1963".

repanda (*Coccinella*) 1781: 18 "Capite bonae spei"; 1820: 367.

= *Coccinella transversalis* Fabricius, 1781. East Asia, Australia.

Synonymised by Mulsant 1850: 1022.

LECTOTYPE female, "repanda Mus. Thunb./Lectotype ♀ *Coccinella repanda* Thunberg: R.D. Pope des. 1982".

reppensis (*Coccinella*) 1795: 111 (nec Herbst, 1783) "Vestro Gothia".

= *Hyperaspis reppensis* (Herbst, 1783). Europe.

Synonymy from Schoenherr 1808: 194. Transferred to *Hyperaspis* Dejean, 1837 (as *reppensis* Paykull) by Dejean 1837: 435.

In the absence of evidence to the contrary, it is necessary to assume that Thunberg's use of the name *reppensis* was both independent and coincidental. Neither of the two specimens currently standing under the name *reppensis* agree with the original description and so a lectotype is not designated, despite the fact one of them is a *Hyperaspis*. It is a female, with a black head, whereas Thunberg's yellow-headed example was clearly male. The other is a male *Adalia decempunctata* (L.) with entirely black elytra.

rimata (*Coccinella*) 1820: 365 (replacement name for *limbata* Fabricius, 1801). Cape of Good Hope.

= *Micraspis lineata* (Thunberg, 1781) **syn. n.** Malaysia, Indonesia, New Guinea.

Apparently offered simply as a replacement name for *C. limbata* Fabricius, 1801, not 1781, *rimata* seems to have been overlooked by subsequent authors, including Crotch (1874) and Korschefsky (1932). *C. limbata* F., 1801 was synonymised with *C. (now Micraspis) lineata* Thunberg by Mulsant (1850: 361).

The name *rimata* does not appear on any extant label in the Thunberg collection.

rivosa (*Coccinella*) 1781: 22 "Capite bonae spei"; 1820: 368.

= *Cheilomenes lunata* (Fabricius, 1775). Africa.

Synonymised with *Coccinella lunata* Fabricius by Schoenherr 1808: 200. Transferred to *Cydonia* Mulsant, 1850 by Mulsant 1850: 434. *Cydonia* Mulsant = *Cheilomenes* Dejean, 1837 (Timberlake 1943: 40).

LECTOTYPE male, "rivosa ♂ Mus. Thunb./Lectotype ♂ *Coccinella rivosa* Thunberg: R.D. Pope des. 1982". Paralectotypes 2; 1 female "rivosa ♂ /Paralectotype ♀ *Coccinella rivosa* Thunberg: R.D. Pope des. 1982"; 1 male "rivosa γ lunata F./Paralectotype ♂ *Coccinella rivosa* Thunberg: R.D. Pope des. 1982".

Four other examples, 1 female "rivosa δ, Ind. Or.", 1 male "rivosa ε Ind. Or.", 1 female "rivosa β Mus. Thunb." and 1 [unsexed] "rivosa β" are all *Cheilomenes sulphurea* (Olivier, 1791), not agreeing with Thunberg's original illustration of *rivosa*.

rufa (*Coccinella*) 1820: 363 (nec Haworth, 1812) Cape of Good Hope.

Micraspis rufa (Thunberg) **comb. n.** Africa.

Species incertae sedis in Korschefsky 1932.

LECTOTYPE male "rufa Cap./Lectotypus *Verania rufa* (Thunberg) (Fürsch 1963)".

C. rufa Haworth is now accepted as a synonym of *Subcoccinella vigintiquatuorpunctata* (L.). A new name for *rufa* (Thunberg) should await a revisional study.

sedecimmaculata (*Coccinella*) 1795: 109 (nec Fabricius, 1787) Sweden.

=*Oenopia conglobata* (Linnaeus, 1758). Palaeoarctic.

Synonymised by Schoenherr 1808: 189 (as synonym of *impustulata* "Illiger"), but omitted from the *Coleopterorum catalogus* (Korschefsky 1931–2). *Coccinella conglobata* L. was segregated by Ganglbauer 1899: 99 into his newly created subgenus *Synharmonia* which, although later (Timberlake 1943: 16; Watson 1956: 48) accepted as a full genus, was recently synonymised with *Oenopia* Mulsant, 1850 by Knhzorian 1979: 69.

LECTOTYPE female, "16-maculata Mus. Thunb./Lectotype ♀ Coccinella 16-maculata Thunberg: R.D. Pope des. 1982".

C. sedecimmaculata Fabricius, 1787 is also a synonym of *conglobata* (L.).

sexmaculata (*Coccinella*) 1795: 106 (nec Fabricius, 1781) "Svecica".

=*Adalia decempunctata* (Linnaeus, 1758). Europe.

Synonymised with *C. decempunctata* L. (as synonym of *C. variabilis* Illiger) by Schoenherr 1808: 165. *C. decempunctata* included in *Adalia* Mulsant, 1846 (as subgenus of *Coccinella*) by Ganglbauer 1899: 995.

LECTOTYPE male, "6-maculata β /Lectotype ♂ Coccinella 6-maculata Thunberg: R.D. Pope des. 1982". Paralectotypes 2; 1 female, "6-maculata Mus. Thunb./Paralectotype ♀ Coccinella 6-maculata Thunberg: R.D. Pope des. 1982"; 1 male, "6-maculata α Mus. Thunb./Paralectotype ♂ Coccinella 6-maculata Thunberg: R.D. Pope des. 1982".

sexnotata (*Coccinella*) 1784: 9 "Svecica".

=*Aphidecta oblitterata* (Linnaeus, 1758). Europe, west Asia.

Synonymised with *C. m-nigrum* Illiger by Schoenherr 1808: 152. *C. m-nigrum* transferred to *Adalia* Mulsant, 1846 and synonymised with *A. oblitterata* by Mulsant 1850: 49. *A. oblitterata* transferred to *Aphidecta* Weise, 1893 by Weise 1893: 106.

LECTOTYPE female, "6- notata β Germ.?/Lectotype ♀ Coccinella 6-notata Thunberg: R.D. Pope des. 1982". Paralectotypes, 2 females, "6 notata γ lurida d G/Paralectotype ♀ Coccinella 6-notata Thunberg: R.D. Pope des. 1982"

A label "6-notata α" stands in the collection, but no specimen accompanies it.

sexpustulata (*Coccinella*) 1792: 106 (nec Linnaeus, 1758) No locality given.

=*Adalia bipunctata* (Linnaeus, 1758). Europe.

Synonymised with *Coccinella bipunctata* Linnaeus by Schoenherr 1808: 159. *C. bipunctata* transferred to *Adalia* Mulsant, 1846 by Mulsant 1846: 51.

LECTOTYPE female, "6-pustulata α Mus. Thunb./Lectotype ♀ Coccinella 6-pustulata Thunberg: R.D. Pope des. 1982". Paralectotypes 4; 1 female, "6-pustulata α / Paralectotype ♀ Coccinella 6-pustulata Thunberg: R.D. Pope des. 1986"; 1 female, "6-pustulata β /Paralectotype ♀ Coccinella 6-pustulata Thunberg: R.D. Pope des. 1986"; 1 male, 1 female, "6-pustulata γ /Paralectotype Coccinella 6-pustulata Thunberg: R.D. Pope des. 1986".

Whether or not Thunberg intended to re-describe *C. sexpustulata* Linnaeus, his omission of a bibliographic reference to that species made his own name available.

similata (*Coccinella*) 1795: 112 "Calmariae" [Kalmar, S. Sweden].

=*Adalia decempunctata* (Linnaeus, 1758). Europe.

Synonymised with *Coccinella decempunctata* Linnaeus (with both as synonyms of *C. variabilis* Illiger) by Schoenherr 1808: 168. *C. decempunctata* transferred to *Adalia* Mulsant, 1846 (as subgenus of *Coccinella*) by Ganglbauer 1899: 995.

LECTOTYPE female, "similata α Mus. Thunb./Lectotype ♀ Coccinella similata Thunberg: R.D. Pope des. 1982". Paralectotype male, "similata β variabilis/Paralectotype ♂ Coccinella similata Thunberg: R.D. Pope des. 1982".

similis (*Coccinella*) 1781: 15 No locality given.

Chnootriba similis (Thunberg). Africa.

Transferred to *Chnootriba* Dejean by Dejean 1837: 436.

LECTOTYPE male, "similis Mus. Thunb./Lectotype ♂ Coccinella similis Thunberg: R.D. Pope des. 1982".

Senior primary homonym of *C.* (now *Chilocorus*) *similis* Rossi, 1790 and *C. similis* Schrank, 1781 (= *Hippodamia variegata* (Goeze, 1777)).

simplex (*Coccinella*) 1820: 363 Cape of Good Hope.

= *Micraspis discolor* (Fabricius, 1798) **syn. n.** Southeast Asia.

Species *incertae sedis* in Korschefsky 1932.

LECTOTYPE female, "simplex Cap./Typus Verania simplex (Thunberg) = Verania discolor (Fabr.) Fürsch 1963."/Lectotype ♀ *Coccinella simplex* Thunberg: R.D. Pope des. 1982".

spicillum (*Coccinella*) 1820: 364 Cape of Good Hope.

= *Oenopia cuneata* (Thunberg, 1820)
= *Oenopia cinctella* Mulsant, 1850). South & east Africa.

Species *incertae sedis* in Korschefsky 1932. Synonymised by Khnzorian 1982: 414 with *spicillum* incorrectly rejected as a "*nomen oblitum*".

LECTOTYPE female, "spicillum Cap./Typus Oenopia spicillum (Thunbg)/= Oenopia cuneata (Thunbg.) = Oe. cinctella H. Fürsch det. 1963".

The comments under *cuneata* (q.v.) apply equally to *spicillum*.

strigata (*Coccinella*) 1795: 113 "Lapponia".

Anisosticta strigata (Thunberg). Northern Europe & Asia, northern North America.

Transferred to *Anisosticta* Dejean, 1837 by Mulsant 1866: 26 and Thomson 1866: 399.

LECTOTYPE female, "strigata Mus. Thunb./Lectotype ♀ *Coccinella strigata* Thunberg: R.D. Pope des. 1982".

suturalis (*Scymnus*) 1795: 106 Sweden.

Scymnus (Pullus) suturalis Thunberg. Europe.

LECTOTYPE, "suturalis ♂ Spharid. Mus./Lectotype *Scymnus suturalis* Thunberg: R.D. Pope des. 1982". Paralectotypes 3; 1, "suturalis β/Paralectotype *Scymnus sutura-*

lis Thunberg: R.D. Pope 1982"; 2, "suturalis γ discoidea L./Paralectotype *Scymnus suturalis* Thunberg: R.D. Pope des. 1982".

tredecimnotata (*Coccinella*) 1784: 10 "Europa, Upsaliae, Parisiis".

= *Adalia decempunctata* (Linnaeus, 1758). Europe.

Synonymised by Schoenherr 1808: 167 (as synonym of *C. variabilis* Illiger). *C. decempunctata* transferred to *Adalia* Mulsant, 1846 (as subgenus of *Coccinella*) by Ganglbauer 1899: 995.

LECTOTYPE female, "13-notata ♂ Mus. Thunb./Lectotype ♀ *Coccinella* 13-notata Thunberg: R.D. Pope des. 1982".

triangularis (*Coccinella*) 1795: 108 Sweden.

= *Coccinella undecimpunctata* Linnaeus, 1758. Europe, north Africa, palaearctic Asia.

Synonymised by Schoenherr 1808: 179.

LECTOTYPE female, "triangularis Mus. Thunb./Lectotype ♀ *Coccinella triangularis* Thunberg: R.D. Pope des. 1982".

tricuspidis (*Coccinella*) 1795: 107 "Nericia" [Närke, S. Sweden].

= *Adalia decempunctata* (Linnaeus, 1758) **syn. n.** Europe.

Species *incertae sedis* in Korschefsky 1932.

LECTOTYPE male, "tricuspidis Mus. Thunb./Lectotype ♂ *Coccinella tricuspidis* Thunberg: R.D. Pope des. 1982"/ Typus *Adalia* 10-punctata (L.) ♂ *tricuspidis* [Fürsch]".

trinotata (*Coccinella*) 1781: 11 "Capite bonae spei".

Pseudaspidimerus trinotatus (Thunberg) **comb. n.**
(= *Pseudaspidimerus circumflexus* (Motschulsky, 1858)) **syn. n.** Burma, Sri Lanka.

Species *incertae sedis* in Korschefsky 1932.

LECTOTYPE male, "3-notata/Lectotypus *Cryptogonus trinotatus* (Thunberg) = *Cryptogonus orbiculus* Gyllh. H. Fürsch det. 1963/ (= *Pseudaspidimerus circumflexus* (Motschulsky): R.D. Pope det. 1982)".

Synonymy from Kapur's unchallenged interpretation (1948: 121) of Motschulsky's species.

undecimsignata (*Coccinella*) 1820: 366 Cape of Good Hope.

Epilachna undecimsignata (Thunberg) **comb. n.**
?Asia.

Species *incertae sedis* in Korschefsky 1932.

LECTOTYPE female, "11-signata Cap./Typus Epilachna (Henosepilachna) 11-signata Thunberg" [H. Fürsch].

The species is close to *E. pyro* Mulsant.

undulata (*Coccinella*) 1781: 18 "Capite bonae spei".

Epilachna undulata (Thunberg). Southern Africa.

Transferred to *Epilachna* Dejean, 1837 by Mulsant 1850: 867.

LECTOTYPE [apex of abdomen obscured by secretion], "undulata Mus. Thunb./Lectotype Coccinella undulata Thunberg: R.D. Pope des. 1982".

vigintipustulata (*Coccinella*) 1781: 24 "Capite bonae spei"; 1820: 369.

=*Epilachna canina* (Fabricius, 1781). Southern Africa.

Synonymised by Schoenherr 1808: 203. Synonymy confirmed by comparison with the original specimens of *E. canina* (F.) in the Banks collection (BM(NH), London). Transferred to *Epilachna* Dejean, 1837 by Dejean 1837: 436.

LECTOTYPE female, "20-pustulata ♂ Mus. Thunb./Lectotype ♀ Coccinella 20-pustulata Thunberg: R.D. Pope des. 1982".

Three other specimens of the same species, in a different box of the collection and labelled "20-pustulata α canina F."; "20-pustulata β" and "20-pustulata γ" are considered to have no type status.

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