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A synonymic list of burrower bugs of the Australian Region* (Heteroptera: Cydnidae)

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ABSTRACT. This synonymic list of the burrower bugs (*Cydnidae*) of the Australian Region includes 75 species in 18 genera. *Geobia fallax* MONTROUZIER, 1858, and *Acatalectus binotatus* WALKER, 1867 are treated as nomina dubia. Three species (*Pangaeus scotti* SIGNORET, 1882, *P. douglasi* SIGNORET, 1882, *Cephalocteus melolonthoides* SCHIÖDTE, 1843) are regarded as erroneously recorded from the Australian Region. The following new combinations are proposed: *Macroscythus dilatatus* (SIGNORET), *Microporus gestroi* (SIGNORET), *Microporus ovatulus* (DALLAS), *Microporus thoreyi* (SIGNORET). Lectotypes are designated for *Cydnus dilatatus* SIGNORET, 1881, and for *Cydnus piceus* WESTWOOD, 1837. *Macroscythus cheesmani* LIS is emended to *M. cheesmanae* LIS.

Key words: Entomology, Heteroptera, Cydnidae, Australian Region, catalogue.

INTRODUCTION

The representatives of the family *Cydnidae*, due to their specific way of life, are known under the popular name of "burrower bugs".

Revisions of the family in the Western Hemisphere, as well as in the Oriental Region were already published (FROESCHNER, 1960; LIS, 1994 c, respectively); also a part of the African taxa was recently reviewed (LINNAVUORI, 1993). Unfortunately, the taxonomy of *Cydnidae* in the Australian Region has been neither summarized nor clarified up to date; some progress has been made only recently (LIS, 1992 a, 1993 a, 1993 b, 1993 c, 1993 d, 1993 e, 1994 a, 1994 b, 1995).

The present synonymic list will serve as a base for a revision of the family in the Australian Region (LIS, in prep.). The names of the countries or zoogeographically significant islands from which the type-specimen(s) come are given in square brackets; when no single primary type was selected and more than one country

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(or island) were represented in the original syntype series, all the countries and/or islands are listed.

The classification of the family follows LIS (1994 c).

A SYNONYMIC LIST

Subfamily *GARSAURINAE* Froeschner

Garsauriinae FROESCHNER, 1960 a: 364 (type-genus: *Garsauria* WALKER, 1868).

Genus *Garsauria* WALKER

Garsauria WALKER, 1868: 536 (type-species: *Garsauria aradoides* WALKER, 1868, by monotypy).
Microrhynchus SIGNORET, 1883 b: LXIII (type-species: *Microrhynchus beccarii* SIGNORET, 1883, by monotypy), syn. by DISTANT, 1899: 224.

aradoides WALKER

Garsauria aradoides WALKER, 1868: 536 [Batchian Island].
Microrhynchus Beccarii SIGNORET, 1883 b: LXIII [Key Island], syn. by DISTANT, 1899: 224.

Subfamily *CYDNINAE* BILLBERG

Cydnides BILLBERG, 1829: 70 (type-genus: *Cydnus* FABRICIUS, 1803).

Tribe *Cydnini* BILLBERG

Genus *Blaena* WALKER

Blaena WALKER, 1868: 537 (type-species: *Blaena setosa* WALKER, 1868, by monotypy).
Macrymenus SIGNORET, 1881 b: XVII (type-species: *Macrymenus membranaceus* SIGNORET, 1881, by monotypy), syn. by DISTANT, 1899: 224.

blothroposa FROESCHNER

Blaena blothroposa FROESCHNER, 1966: 690 [Australia].

cirra FROESCHNER

Blaena cirra FROESCHNER, 1966: 692 [Australia].

coarctata FROESCHNER

Blaena coarctata FROESCHNER, 1960 b: 457 [Australia].

mediocarinata FROESCHNER*Blaena medicarinata* FROESCHNER, 1960 b: 459 [Australia].***multitricha*** FROESCHNER*Blaena multitricha* FROESCHNER, 1960 b: 460 [Australia].***setosa*** WALKER*Blaena setosa* WALKER, 1868: 538 [locality unknown].*Macrymenus membranaceus* SIGNORET, 1881 b: XVIII [Australia], syn. by DISTANT, 1899: 224.***subsulcata*** FROESCHNER*Blaena subsulcata* FROESCHNER, 1960 b: 464 [Australia].**Genus *Centrostephus* HORVÁTH***Centrostephus* HORVÁTH, 1919: 262 (type-species: *Chilocoris parumpunctatus* SIGNORET, 1884, by original designation).***pullus*** HORVÁTH*Centrostephus pullus* HORVÁTH, 1919: 264 [New Britain].***tumidicollis*** HORVÁTH*Centrostephus tumidicollis* HORVÁTH, 1919: 263 [New Guinea].**Genus *Chilocoris* MAYR***Chilocoris* MAYR, 1864: 907 (type-species: *Chilocoris nitidus* MAYR, 1864, by monotypy).*Amnestoides* SIGNORET, 1881 c: VIII (*Amnestoides ritzemai* SIGNORET, 1881, by monotypy), syn. with *Chilocoris* by SIGNORET, 1884: 517.*Statanus* DISTANT, 1908: 430 (*Statanus membranaceus* DISTANT, 1908, by original designation), syn. with *Chilocoris* by LIS, 1991 b: 172.*Macroporus* UHLER, 1876: 278 (*Macroporus repetitus* UHLER, 1876, by monotypy), syn. with *Chilocoris* by LIS, 1994 c: 52.***australis*** LIS*Chilocoris australis* LIS, 1995: in press [Australia].***bacanicus*** LIS*Chilocoris bacanicus* LIS, 1995: in press [Bacan Island].***barbarae*** LIS*Chilocoris barbarae* LIS, 1991 a: 301 [Sulawesi].***biroi*** HORVÁTH*Chilocoris Birói* HORVÁTH, 1919: 257 [New Guinea].

crassimargo HORVÁTH*Chilocoris crassimargo* HORVÁTH, 1919: 257 [New Guinea].***crassimargoides*** LIS*Chilocoris crassimargoides* LIS, 1993 b: 29 [New Guinea].***entzii*** HORVÁTH*Chilocoris Entzii* HORVÁTH, 1919: 260 [New Guinea].***impressicollis*** HORVÁTH*Chilocoris impressicollis* HORVÁTH, 1919: 256 [New Guinea].***madangicus*** LIS*Chilocoris madangicus* LIS, 1993 b: 34 [New Guinea].***maximus*** LIS*Chilocoris maximus* LIS, 1993 a: 14 [Solomon Islands].***peterseni*** FROESCHNER*Chilocoris peterseni* FROESCHNER, 1967: 14 [New Britain].***rolandi*** LIS*Chilocori rolandi* LIS, 1993 b: 35 [New Guinea].***tasmanicus*** LIS*Chilocoris tasmanicus* LIS, 1995: in press [Tasmania].***vagauensis*** LIS*Chilocoris vagauensis* LIS, 1993 b: 37 [New Guinea].**Genus *Cydnus* FABRICIUS***Cydnus* FABRICIUS, 1803: 184 (type-species: *Cimex aterrimus* FÖRSTER, 1771, subsequent designation by BLANCHARD, 1844).*Brachypelta* AMYOT & SERVILLE, 1843: 89 (type-species: *Cimex tristis* FABRICIUS, 1775, by monotypy), synonym by isogenotypy.***aterrimus*** (FÖRSTER)*Cimex aterrimus* FÖRSTER, 1771: 71 [Hispania ad fretum Gaditanum, not located].*Cimex tristis* FABRICIUS, 1775: 716 [Oriente], syn. by DALLAS, 1851: 121.*Cydnus aterrimus*: DALLAS, 1851: 121.**Tribe *Geotomini* WAGNER***Geotomini* WAGNER, 1963: 113.

Genus *Adrisa* AMYOT & SERVILLE

Adrisa AMYOT & SERVILLE, 1843: 89 (type-species: *Adrisa nigra* AMYOT & SERVILLE, 1843, by monotypy).
Geobia MONTROUZIER, 1858: 245 (type-species: *Geobia numeensis* MONTROUZIER, 1858, subsequent designation by HORVÁTH, 1919), syn. with *Adrisa* by SIGNORET, 1881 a: 622.
Acatalectus DALLAS, 1851: 122 (type-species: *Acatalectus rugosus* DALLAS, 1851, subsequent designation by LIS, 1992 b), syn. with *Adrisa* by SIGNORET, 1881a: 622.

***angusta* SIGNORET**

Adrisa angusta SIGNORET, 1881 d: 208 [Australia].

***atra* (DALLAS)**

Acatalectus ater DALLAS, 1851: 123 [Australia].

Adrisa atra: STAL, 1876: 20.

***distincta* SIGNORET**

Adrisa distincta SIGNORET, 1881 d: 211 [Australia].

***erichsoni* SIGNORET**

Adrisa Erichsoni SIGNORET, 1881 d: 215 [Australia].

***expansa* SIGNORET**

Adrisa expansa SIGNORET, 1881 d: 214 [Australia].

***flavomarginata* (VOLLENHOVEN)**

Acatalectus flavo-marginatus VOLLENHOVEN, 1868: 177 [New Caledonia].

Adrisa flavo-marginata: STAL, 1876: 20.

***mayri* SIGNORET**

Adrisa? Mayri SIGNORET, 1881 d: 218 [Australia].

***numeensis* (MONTROUZIER)**

Geobia numeensis MONTROUZIER, 1858: 245 [New Caledonia].

Acatalectus luteo-marginatus VOLLENHOVEN, 1868: 177 [Timor and Flores], syn. by SIGNORET, 1881d: 212.

Adrisa numeensis: STAL, 1876: 20.

***punctulata* (DALLAS)**

Acatalectus punctulatus DALLAS, 1851: 123 [Australia].

Adrisa punctata [sic!]: SIGNORET, 1881 a: 623.

***rugosa* (DALLAS)**

Acatalectus rugosus DALLAS, 1851: 122 [Australia].

Adrisa rugosa: STAL, 1876: 20.

***sepulchralis* (ERICHSON)**

Cydnus sepulchralis ERICHSON, 1842: 276 [Australia].

Adrisa sepulchralis [sic!]: STAL, 1876: 20.

similis SIGNORET

Adrisa similis SIGNORET, 1881 a: 624 [New Guinea].

willeyi KIRKALDY

Adrisa willeyi KIRKALDY, 1905: 358 [Lifu Island].

Genus *Aethus* DALLAS

Aethus Dallas, 1851: 112 (type-species: *Cydnus indicus* WESTWOOD, 1837, subsequent designation by VAN DUZEE, 1914).

parvulus SIGNORET

Aethus parvulus SIGNORET, 1882 a: 33 [Australia].

philippinensis DALLAS

Aethus philippinensis DALLAS, 1851: 118 [Philippines].

Cydnus ceylonicus MAYR, 1866: 362 [Java], syn. with *A. philippinensis* by LIS, 1993 d: 108.

Genus *Alonips* SIGNORET

Alonips SIGNORET, 1881 a: 653 (type-species: *Alonips obsoletus* SIGNORET, 1881, subsequent designation by CHINA, 1943).

obsoletus SIGNORET

Alonips obsoletus SIGNORET, 1881 a: 653 [Australia].

pilitylus SIGNORET

Alonips pilitylus SIGNORET, 1881 a: 654 [Australia].

Genus *Choerocydnus* WHITE

Choerocydnus WHITE, 1841: 472 (type-species: *Choerocydnus foveolatus* WHITE, 1841, by monotypy).

aeneus (SIGNORET)

Hiverus aeneus SIGNORET, 1883 a: 362 [Australia].

Choerocydnus aeneus: BERGROTH, 1909: 331.

coleopteroides BERGROTH

Choerocydnus coleopteroides BERGROTH, 1909: 330 [Australia].

foveolatus WHITE

Choerocydnus foveolatus WHITE, 1841: 472 [Australia].

***nigrosignatus* BUCHANAN WHITE**

Choerocydnus nigrosignatus BUCHANAN WHITE, 1878: 275 [New Zealand].

Choerocydnus albosignatus SIGNORET, 1882 b: 167 [New Zealand and Australia], syn. by BERGROTH, 1909: 331.

Genus *Fromundus* DISTANT

Fromundus DISTANT, 1901: 582 (type-species: *Fromundus opacus* DISTANT, 1901, by monotypy).

Brachysolen HORVATH, 1919: 269 (type-species: *Brachysolen opacus* HORVATH, 1919, by original designation), syn. with *Fromundus* by LIS, 1994 c: 173.

***pygmaeus* (DALLAS)**

Aethus pygmaeus DALLAS, 1851: 120 [India].

Fromundus pygmaeus: LIS, 1994 c: 181 [synonyms].

Genus *Geotomus* MULSANT & REY

Geotomus MULSANT & REY, 1866: 324 (type-species: *Cydnus punctulatus* COSTA, 1847, subsequent designation by DISTANT, 1902).

***breweri* SIGNORET**

Geotomus (Melanaethus) Breweri SIGNORET, 1883 c: 214 [Australia].

Geotomus Breweri: LETHIERRY & SEVERIN, 1893: 72.

***distanti* SIGNORET**

Geotomus Distanti SIGNORET, 1883 d: 58 [Australia].

***gracilipes* SIGNORET**

Geotomus gracilipes SIGNORET, 1883 c: 213 [Australia].

***niger* SIGNORET**

Geotomus? niger SIGNORET, 1883 c: 219 [Tasmania].

***oceanicus* SIGNORET**

Geotomus Oceanicus SIGNORET, 1881 a: 651 [Australia].

Genus *Hiverus* AMYOT & SERVILLE

Hiverus AMYOT & SERVILLE, 1843: 88 (type-species: *Hiverus hirtus* AMYOT & SERVILLE, 1843, by monotypy).

***ochraceus* DISTANT**

Hiverus ochraceus DISTANT, 1899: 223 [Tasmania].

Genus *Lactistes* SCHIÖDTE

Lactistes SCHIÖDTE, 1847: 456 (type-species: *Lactistes vericulatus* SCHIÖDTE, 1847, subsequent designation by DISTANT, 1902).

obesipes SIGNORET

Lactistes obesipes SIGNORET, 1880: CLXXII [Australia].

Lactistes obesipes SIGNORET, 1881 e: 52 [Australia], objective synonym of *L. obesipes* SIGNORET, 1880.

Genus *Macroscytus* FIEBER

Macroscytus FIEBER, 1860: 83 (type-species: *Cydnus brunneus* FABRICIUS, 1803, subsequent monotypy by FIEBER, 1861).

Hahnia ELLENRIEDER, 1862: 139, name preoccupied by *Hahnia* KOCH, 1841 [in Aranea] (type-species: *Hahnia gibbula* ELLENRIEDER, 1862, by monotypy), syn. with *Macroscytus* by LIS, 1994 c: 209.

Philapodemus KIRKALDY, 1910: 8 [as a new name for *Hahnia* ELLENRIEDER, 1862] (type-species: *Hahnia gibbula* ELLENRIEDER, 1862, by automatic fixation), syn. with *Macroscytus* by LIS, 1994 c: 209.

abditus LIS

Macroscytus abditus LIS, 1993 c: 41 [New Guinea].

annulipes HORVÁTH

Macroscytus annulipes HORVÁTH, 1919: 242 [New Guinea].

aquilus FROESCHNER

Macroscytus aquilus FROESCHNER, 1967: 17 [New Ireland].

astrolabicus HORVÁTH

Macroscytus astrolabicus HORVÁTH, 1919: 242 [New Guinea].

australis (ERICHSON)

Cydnus australis ERICHSON, 1842: 275 [Australia].

Aethus leptospermi DALLAS, 1851: 119 [New Zealand], syn. by SIGNORET, 1883 e: 483.

Aethus lifuanus MONTROUZIER, 1861: 62 [Lifu Island], syn. by SIGNORET, 1881 a: 647.

Macroscytus australicus [sic!]: SIGNORET, 1881 a: 647.

cheesmanae LIS, emendation

Macroscytus cheesmani LIS, 1993 c: 44 [New Guinea].

Note: The species-name was based on the collector's name; it was a feminine (not masculine) name - Mrs L.E. CHEESMAN.

dilatatus (SIGNORET), new combination

Cydnus dilatatus SIGNORET, 1881 a: 631 [Australia].

Note: Lectotype male (present designation): Australia, Somerset, I.75, L.M. D'ALBERTIS; *dilatatus* det. SIGNORET; Lectotype, *dilatatus* SIGN., labelled by R.C. FROESCHNER 59; in the collection of Naturhistorisches Museum Wien, Vienna, Austria.

***honiarensis* LIS**

Macroscytus honiarensis LIS, 1993 a: 16 [Solomon Islands].

***lansburyi* LIS**

Macroscytus lansburyi LIS, 1994 a: 323 [New Guinea].

***papuanus* HORVÁTH**

Macroscytus papuanus HORVÁTH, 1919: 243 [New Guinea].

***piceus* (WESTWOOD), new combination**

Cydnus piceus WESTWOOD, 1837: 18 [Australia].

Note: Lectotype female (present designation): N[ova] H[ollandia]; Type; Type Hem. No 62, *Cydnus piceus* WESTWOOD, Hope Dept. Oxford; Type, WESTW. (HOPE), C. Hemipt. 1837, Part I, page 18, DISTANT P.Z.S., 1900, p. 807-825; *Adrisa picea* WESTW. in the collection of Hope Entomological Collection, Oxford University, England.

***transversus* (BURMEISTER)**

Cydnus transversus BURMEISTER, 1834: 291 [Philippines].

Acatalectus transversus WALKER, 1867: 164 [Aru Island], syn. by DISTANT, 1899: 222.

Macroscytus transversus: SIGNORET, 1881 a: 642.

Genus *Microporus* UHLER

Microporus UHLER, 1872: 394 [name only], 1876: 275 (type-species: *Microporus obliquus* UHLER, 1872, by monotypy).

***gestroi* (SIGNORET), new combination**

Cydnus Gestroi SIGNORET, 1881 a: 638 [Australia].

Note: See also LIS, 1994 b.

***ovatulus* (DALLAS), new combination**

Aethus ovatulus DALLAS, 1851: 117 [Australia].

Note: See also LIS, 1994 b.

***thoreyi* (SIGNORET), new combination**

Cydnus Thoreyi SIGNORET, 1882: 152 [Australia].

Note: See also LIS, 1994 b.

Genus *Moonta* DISTANT

Moonta DISTANT, 1911: 338 (type-species: *Moonta alexandria* DISTANT, 1911, by monotypy).

***alexandria* DISTANT**

Moonta alexandria DISTANT, 1911: 338 [Australia].

Genus *Peltoscytus* LIS

Peltoscytus LIS, 1993 a: 18 (type-species: *Peltoscytus solomonensis* LIS, 1993, by original designation).

klysi LIS

Peltoscytus klysi LIS, 1993 e: 306 [Fiji].

samoanus LIS

Peltoscytus samoanus LIS, 1993 e: 303 [West Samoa].

solomonensis LIS

Peltoscytus solomonensis LIS, 1993 a: 20 [Solomon Islands].

secundus LIS

Peltoscytus secundus LIS, 1993 a: 22 [Solomon Islands].

Genus *Teabooma* DISTANT

Teabooma DISTANT, 1914: 372 (type-species: *Teabooma princeps* DISTANT, 1914, by monotypy).

princeps DISTANT

Teabooma princeps DISTANT, 1914: 373 [New Caledonia].

NOMINA DUBIA

Geobia fallax MONTROUZIER, 1858: 247 [Art and Balade Islands].

Acatalectus binotatus WALKER, 1867: 165 [locality unknown].

ERRONEOUSLY RECORDED FROM THE AUSTRALIAN REGION

Pangaeus douglasi SIGNORET, 1882 c: 258 [Australia]; now synonym of *P. bilineatus* (SAY, 1825) [American species].

Note: See FROESCHNER, 1960a.

Pangaeus scotti SIGNORET, 1882 c: 259 [New Zealand]; now synonym of *P. bilineatus* (SAY, 1825) [American species].

Note: See WOODWARD, 1953; FROESCHNER, 1960a.

Cephaloectus melolonthoides SCHIÖDTE, 1843: 333 [India].

Note: The species was originally described from India; LETHIERRY & SEVERIN (1893: 60) listed it also from Timor, but there existed no primary record of this species from the island. Therefore I suppose that the record was an error.

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