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## Accessory Publication

### Review of the Australian species of the dermestid genus *Anthrenocerus* Arrow (Coleoptera : Dermestidae)

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#### *Abstract*

Descriptions or redescrptions of the genus *Anthrenocerus* Arrow and 31 species as well as a tabular key to all species is provided; the descriptions include adult genitalia and illustrations. One new combination, *Trogoderma niger* (Armstrong, 1943), comb. nov., is proposed. *Trogoderma riguum* Erichson, 1842 is recognised as the senior synonym of *A. australis* Hope, 1843 but *A. australis* is retained pending application to the ICZN. Fourteen new species are described, these are: *A. armstrongi*, sp. nov., *A. brindabella*, sp. nov., *A. corrugatus*, sp. nov., *A. decoris*, sp. nov., *A. hirsutus*, sp. nov., *A. intricatus*, sp. nov., *A. musaicus*, sp. nov., *A. nebulosus*, sp. nov., *A. occidentalis*, sp. nov., *A. pilatus*, sp. nov., *A. pinto*, sp. nov., *A. schwarzeneggeri*, sp. nov., *A. stellatus*, sp. nov., and *A. tessellatus*, sp. nov. The genus is now reported from Papua New Guinea.

#### Materials and methods

##### *Depositories*

The following abbreviations are used for the names of museums and institutions cited in the text: AMS, Australian Museum, Sydney; ANIC, Australian National Insect Collection, CSIRO Entomology, Canberra; ANIC (JAA), Private collection of Mr J. A. Armstrong, now incorporated in the ANIC; BCRI, Biological and Chemical Research Institute, NSW Agriculture, Orange; BMNH, The Natural History Museum, London; QDPI, Queensland Department of Primary Industries, Indooroopilly; HNHM, Hungarian Natural History Museum, Budapest; MDPI, Queensland Department of Primary Industries, Mareeba; MHNP, Museum Histoire Nationale, Prague; MV, Museum of Victoria, Melbourne; NHMH, Natural History Museum, Budapest, Hungary; NZAC, New Zealand Arthropod Collection, Auckland; OXUM, Hope Entomological Collections, Oxford; PMNH, Museum d'Histoire Naturelle, Paris, France; QMB, Queensland Museum, Brisbane; SAM, South Australian Museum, Adelaide; SGRL, Stored Grain Research Laboratories, CSIRO Entomology, Canberra; WADA, Western Australian Department of Agriculture, Perth; WAM, Western Australian Museum, Perth; ZMB, Zoologisches Museum, Berlin.

*Material examined*

Specimens listed in material examined are only sexed if their genitalia were dissected.

***Anthrenocerus armstrongi***, sp. nov.*Material examined*

*Holotype*. New South Wales, unsexed, (1); 31.05S 141.42E, Fowlers Gap Res. Stn, 29.xi–2 xii 1981, J. C. Cardale, on flowers *E. camaldulensis* (ANIC).

*Paratypes*. **New South Wales**: 3♂, 4♀, 41 unsexed, same data as holotype; 2 unsexed, same data as holotype, taken at light; 2 unsexed, same data as holotype, J. C. Cardale, I. D. Naumann, (2) ANIC Berlesate No. 763, *Euc. camaldulensis* litter; 1 unsexed, as previous, ANIC Berlesate No. 262; ♂, ♀, 3 unsexed, same data as holotype, 8–9.xii.1982, J. C. Cardale (all ANIC).

*Other material*. **South Australia**, 2♂, 2♀, 7 unsexed, 33.20S 137.06E, Little Pine Hill, SA, 19.xii.70, mallee, Britton, Misko, Pullen (ANIC); ♂, ♀, 3 unsexed, Victory Well, SA, Everard Pk Stn, 5.xi.1970, E. G. Matthews (SAM). **Victoria**, ♂, ♀, 6 unsexed, Hattah Lakes NP, Vic., 24.x.67, Britton and Misko (ANIC). **Western Australia**, ♂, ♀, 5 unsexed, A. M. and M. J. Douglas, leg. ABFJ, 2.i.1977, 70 km S Norseman, WA, on flowering mallee, WAM Collection 90/607–613; 2♂, 2♀, 6 unsexed, 19 km NNW of Mt Ragged, 33.27S 123.29E, WA, 19.i.1982, B. Hanich and T. F. Houston 429–1, on flowers of *Melaleuca lanceolata*, WAM Collection 90/625–634 (WAM).

***Anthrenocerus arrowi*** Armstrong*Material examined*

*Lectotype* (here designated). New South Wales, unsexed, (1) Bogan R., NSW, J. Armstrong, (2) TYPE, (3) *Anthrenocerus arrowi* Armst., Id. by J. Armstrong [ANIC (JAA)]. Lectotype chosen from 9 specimens mounted on same card, all bearing label 'TYPE'.

*Paralectotypes*. **New South Wales**: 8 unsexed, from same card as lectotype, same data as lectotype; 3♂, 2♀, 18 unsexed, same data as lectotype except substitute 'paratype' for 'TYPE' [ANIC(JAA)]. **Queensland**, ♂, 1 unsexed, (1) Townsville, Queensland, G. E. Bryant, F. P. Dodd, ix.02, (2) G. Bryant Coll, 1919–147, paratype, same identification label (ANIC, BMNH); 2 unsexed, (1) Queensland, F. P. Dodd., 1903–356[×2], (2) cotype, (3) paratype, same identification label; 3 unsexed [not examined], Qld. (Townsville) and NSW (Bogan R.) (all BMNH). **Western Australia**: ♀, SW Australia, Yallingup, 23.xii., 13–23.i.14., R.E. Turner, 1914–190, same identification label (ANIC).

*Other material*. **Queensland**: ♀, 3 unsexed, Townsville, 25.10.02, K16628 (AMS).

*Anthrenocerus australis* (Hope)*Material examined**Anthrenus australis*

*Lectotype* (here designated). South Australia, unsexed, (1) Type, Hope, Trans. Ent. Soc. 4. 1845 p. 105, coll. Hope Oxon., (2) Adel, (3) *australis* Hope, (4) Type Hope *Anthrenus australis*, Trans. Ent. Soc. 4 1845. p. 105, (5) Type Col: 256 1/3, *Anthrenus australis* Hope, Hope Dept. Oxford (OUM).

*Paralectotypes* (here designated). **South Australia:** 1 unsexed, (1) Type, Hope, Trans. Ent. Soc. 4. 1845 p. 105, coll. Hope Oxon., (2) Adelaide, (3) *Anthrenus australis* Hope, Trans. Ent. Soc. 4. 1845 p. 105, Adelaide, (4) Type Col: 256 2/3, *Anthrenus australis* Hope, Hope Dept. Oxford; ♀, (1) Type, Hope, Trans. Ent. Soc. 4. 1845 p. 105, coll. Hope Oxon., (2) Adelaide, (3) Type Col: 256 3/3, *Anthrenus australis* Hope, Hope Dept. Oxford (all OUM).

*Trogoderma riguum*

*Holotype*. Tasmania, unsexed, (1) rigua Er., Van Diem. Schayer, (2) 9236, (3) Typus, (4) Genus *Anthrenocerus* Arr., det. V. Kalik 1954 (ZMB).

*Paratype*. **Tasmania:** ♀, (1) Hist.-coll. Nr. 9236, Van Diem. Schayer, (2) Paratypus, (3) 9236, (4) rigua Er., (5) Zool. Mus. Berlin (ZMB).

*Cryptorhopalum erichsoni*

Type not located (inquiries to BMNH, OXUM, ZMB, PMNH, NHMH).

*Other material*. **Australian Capital Territory:** 39 unsexed, 35.14S 149.07E, Yowani, emg. 16.iii.1989, D. Schodde, *Chenonetta jubata* nest, col. 30.ix.1988; 10 unsexed, 35.14S 149.07E, Yowani, emg. 22.ix.1990, D. Schodde, *Chenonetta jubata* nest, col. 10.ix.1988; 10 unsexed, 35.14S 149.07E, Yowani, emg. 22.ix.1990, D. Schodde, *Anas superciliosa* nest, col. 15.ix.1988; 10 unsexed, ANU, emg. 22.ix.1990, D. Schodde, *Chenonetta jubata* nest, col. 20.ix.1988; 10 unsexed, 35.14S 149.07E, Yowani, emg. 22.ix.1990, D. Schodde, *Chenonetta jubata* nest, col. 23.ix.1988; 10 unsexed, 35.14S 149.07E, Yowani, emg. 22.ix.1990, D. Schodde, *Chenonetta jubata* nest, col. 30.ix.1988 (ANIC); ♀, 5 unsexed, Ex culture orig. Ginninderrah feed silo in grain, 18.viii.1972, coll. H. J. Banks (SGRL). **New South Wales:** ♀, MV, Ashfield, 2.xii.1980, D. A. Doolan (AMS); ♀, Bogan R., J. Armstrong (ANIC); ♀, Mittagong, Lea (SAM); ♀, 8 unsexed, ex. original cult. Forbes, 14.iv.1975, coll. H. G. G., Green property; 2♀, 19 unsexed, ex. original cult. Canowindra, coll. H. G. G., 18.iv.1975, Carman property on shed floor and wagon with oats; 3♀, 64 unsexed, ex. original cult. Forbes, 14.iv.1975, coll. H. G. G., Green property, in header bin; ♀, 1 unsexed, ex. original cult. Blayney, 8.iv.1975, coll. H. G. G., S. A. Marsden property with oats; ♀, 1 unsexed, ex. original cult. Trajere, coll. H. G. G., 16.iv.1974, Jackson property, possibly associated with rat carcass; ♀, 1 unsexed, Blayney, coll. H. J. Banks, 8.iv.1975, S. A. Marsden property with oats; 2♀, 6 unsexed, Forbes, Bred from larva coll. H. G. G., 14.iv.1975, Green property, in machine shed (all SGRL); 10 unsexed, Dareton, emg. 22.x.1990, J. N. Hobbs, *Smicromis brevirostris* nest, col. 7.xi.1989; 10 unsexed, 33.44S 151.10E, St Ives, Sydney, emg. 22.x.1990, B. Smith, infested carpet, col. 30.x.1989 (all ANIC). **Queensland:** ♀, 40 Mile Scrub NP, via Mt Garnet, 18.xi–21.xii.1985, Storey and Heiner, MDPI intercept trap site No. 13; ♀, same location, malaise trap; ♀, 4 unsexed, same location, 3–23.x.1985, malaise trap; 1 unsexed, 5 km NNW of Kuranda, 20.xii.1984–15.1.1985, Storey and Halfpapp, MDPI intercept trap site no. 24 (MDPI); ♀, 1 unsexed, Coen, 22.9.1959, E. Smith (MV). **South Australia:** ♀,

27.53S 138.40E, 15 km N. of Mungeranie HS., 18. ix. 72, J. Upton (ANIC); 1 unsexed, Adelaide, Griffith; ♀, Murray Bridge, Lea; ♀, Kangaroo I. (all SAM). **Tasmania:** ♀, 41.57S 148.14E, 15 km ENE Cranbrook, 28.i.1983, I. D. Naumann, J. C. Cardale; ♀, Kempton Water tray, 28.xi.1985, L. Hill (both ANIC); ♀, 3 unsexed, Avoca; ♀, West Tamar; ♀, 8 unsexed, Beaconsfield; ♂, 4 unsexed, Launceston; ♀, 4 unsexed, Kelso; ♀, 1 unsexed, A. Simson (all SAM); 10 unsexed, 42.37S 147.70E, Campania, emg. 22.x.1990, P. Park, *Hirundo neoxena* nest in cave, col. vi.1989 (ANIC). **Victoria:** ♀, Grampians (MV); ♀, 3 unsexed, Mildura, .x.1981, at avocado flowers (ANIC). **Western Australia:** 1 unsexed, Broome, J. G. Brooks Bequest, 1976 (ANIC); 3 unsexed, Perth, x.1939, emerged in lab (WADA).

**New Zealand:** ♀, 1 unsexed, Auckland, Panmure, Dunkirk Str., viii.1977, S. M. Reed, nests of *Sturnus vulgaris*; ♀, 2 unsexed, Roxburgh, 9.vii.1942, Emerged 5.x.1942, J. Charlton, attacking carpets; ♀, Epsom, xi.1988, R. M. Bean, on carpet; ♀, Insect collection, Owairaka, 19.i.1948, D. Spiller; ♀, 1 unsexed, Owairaka, Auckland, 23.vii.1958, B. M. v, ex culture; ♀, Havelock North, 5.i.1978, (all DSIR Ecology Div.)

### *Anthrenocerus bicolor* Arrow

#### *Material examined*

*Lectotype* (here designated). Northern Territory, unsexed, (1) Type H.T., (2) Adelaide R. 92–20, (3) 5612, (4) *Anthrenocerus bicolor* Arrow type (BMNH).

*Paralectotypes* (here designated). **Western Australia:** unsexed, not examined, (1) 1246, (2) Co-type, (3) Roebuck Bay 91–49, (4) *Anthrenocerus bicolor* Arrow cotype (BMNH); ♀, (1) Roebuck Bay 92–2, (2) Co-type, (3) *Anthrenocerus bicolor* Arr. G. J. Arrow det. [ANIC(JAA)].

*Other material.* **Northern Territory:** ♂, ♀, 5 unsexed, Bessie Spring, 16.40S 135.51E, 8 km ESE of Cape Crawford NT, 26 x. 1975, M. S. Upton; ♂, 1 unsexed, McArthur R., 16.27S 136.05E, 48 km SW by S of Borroloola NT, 29 x. 1975, M. S. Upton; ♀, Caranbirini W. H., 16.16S 136.05E, 33 km SW of Borroloola NT, 3 xi. 1975, M. S. Upton; ♂, 5 unsexed, 16.08S 136.06E, 22 km WSW of Borroloola NT, 2 xi. 1975, M. S. Upton; ♂, 2 unsexed, 14.34S 125.50E, W Walsh Pt, 10.v.1983 WA, I. D. Naumann, J. C. Cardale, ex ethanol; 1 unsexed, Oenpelli Hill NT, 11.xi.1972, D. H. Colless, on blossom (all ANIC); ♂, ♀, 8 unsexed, 12.06S 133.04E, Cooper Creek NT, 19 km E by S of Mt Borradaile, 5.vi.73, M. S. Upton (ANIC, SAM). **Queensland:** ♀, 5 unsexed, Campbell Ck, via Mt Carbine, Qld., viii.15.1976, R. I. Storey, on *Melaleuca* sp (MDPI). **Western Australia:** ♂, 14.34S 125.51E, Walsh Pt WA, 17.v.1983, I. D. Naumann, J. C. Cardale; ♀, 31 mi. S. of Port Headland WA, 1.ix.67, F. H. Uther-Baker (both ANIC).

### *Anthrenocerus blackburni* Armstrong

#### *Material examined*

*Holotype.* Victoria, unsexed, (1) 7234 V. [on card mount], (2) Blackburn, Erichsoni Reitt, (3) Holotype, (4) *Anthrenocerus blackburni* Armst. Id. J. Armstrong (SAM).

*Paratypes. New South Wales:* ♀, (1) Bombala NSW i.'30 Rev. A. J. Barrett, (2) K61433, (3) Paratype, (4) *Anthrenocerus blackburni* Armst. Id. J. Armstrong (AMS); unsexed, (1) 6006 [on card mount], (2) Illawarra NSW, (3) Paratype, (4) Multifasciate NSW, (5) *Anthrenocerus blackburni* Armst. Id. J. Armstrong (SAM).

*Other material. New South Wales:* ♀, Acacia Plat., J. Armstrong [ANIC(JAA)].

***Anthrenocerus brindabella*, sp. nov.**

*Material examined*

*Holotype.* Australian Capital Territory, Blundells Cr. Rd, 850 m, 3.5 km E of Piccadilly Circ., 13 i 1983, J.F. Lawrence (ANIC).

*Paratypes. Australian Capital Territory:* ♂, 5♀, and 4 unsexed. Same label data as holotype (ANIC).

***Anthrenocerus chalceus* Armstrong, 1943**

*Material examined*

*Lectotype* (here designated). New South Wales, unsexed, (1) 6003 [on card mount], (2) Galston NSW Lea and Dumbrell, (3) *Obscurely fasciate* NSW, (4) cotype, (5) *Anthrenocerus chalceus* Armst, Id J. Armstrong From card mount of 3 specimens, now mounted separately. [ANIC(JAA)].

*Paralectotypes* (here designated). **New South Wales:** ♂, [mounted on same card mount as cotype of *A. concolorus*; when viewed from above, *A. concolorus* on right hand side and *A. chalceus* on left hand side]. (1) 6003, (2) Galston, Lea and Dumbrell, (3) paratype[refers *A. concolorus*], (4) cotype[refers *A. chalceus*], (5) *Anthrenocerus*, left *chalceus* Armst. cotype, right *concolorous* Armst. paratype, Id. J. Armstrong (ANIC); ♂, 1 unsexed, (from same card mount as lectotype, now mounted separately) [ANIC(JAA)]; ♂, (1) Galston, Lea and Dumbrell, (2) cotype; 1 unsexed, (same data as above except specimen not the same species as lectotype) (SAM).

*Other material. New South Wales:* ♀, Kalinggal [Ku-ring-gai?] Chase NSW, 14.xii.1958, C.E. Chadwick, on flowers *Angophora cordifolia* (BCRI); 1 unsexed, North Sydney, NSW, J. Armstrong, cotype, *Anthrenocerus chalceus* Armst., Id. J. Armstrong (see comments) [both ANIC(JAA)].

***Anthrenocerus concolorus* Armstrong**

*Material examined*

*Holotype.* New South Wales, unsexed, (1) Galston, Lea and Dumbrell, (2) holotype, (3) *Anthrenocerus concolorous* Armst. Id. J. Armstrong (SAM).

*Paratype. New South Wales:* ♀, (1) Galston, Lea and Dumbrell, (2) paratype[refers *A. concolorus*], (3) cotype[refers *A. chalceus*], (4) *Anthrenocerus*, left *chalceus* Armst. cotype, right *concolorous* Armst. paratype, Id. J. Armstrong [ANIC(JAA)] (*A. concolorus* paratype mounted on same card as cotype of *A. chalceus*; when viewed from above, *A. concolorus* on right hand side and *A. chalceus* on left hand side).

*Other material. New South Wales:* 1 unsexed, Mt White, 29xii.1977, M. J. Fletcher (BCRI).

### *Anthrenocerus condensus* Armstrong

#### *Material examined*

*Lectotype* (here designated). New South Wales, unsexed, (1) Bulladelah, J. Armstrong, (2) cotype, (3) *Anthrenocerus condensus* Armst., Id. J. Armstrong [ANIC(JAA)].

*Paralectotype* (here designated). **New South Wales:** ♂, same data as lectotype [ANIC(JAA)].

### *Anthrenocerus confertus* (Reitter)

#### *Material examined*

##### *Cryptorhopalum confertum*

Types not located.

##### *Anthrenus flindersi*

*Lectotype* (here designated). Western Australia, unsexed, (1) T 502, (2) Type H.T., (3) *Anthrenus Flindersi* Blackb., (4) Blackburn coll. 1910–236., (5) *Anthrenocerus confertum* Brit.Mus.(N. H.). 1991– (BMNH).

*Paralectotypes* (here designated). **South Australia:** 2 unsexed, (separate cards on same pin), (1) 502 WA (on card mount), (2) W. Australia Blackb's coll. [×2], (3) *Cryptorhopalum flindersi* Bl., S. Australia, syn of *confertum* Reitt; 1 unsexed, (1) 502 [on card mount], (2) Port Lincoln Blackburn, (3) *Anthrenus flindersi* cotype (all SAM).

*Other material. Australian Capital Territory:* ♂, 6 km SW of Naas, 3.ii.1972, S. Misko, R. Kohout; ♀, 35.16S 149.06E, Black Mtn, 600 m, xii. 1987, M. E. Irwin, ex malaise trap (all ANIC). **New South Wales:** 1 unsexed, Nowra, 34.53S 150.35E, 119 km. S. of, on Nerriga–Nowra Rd, 19.i.71, woodlands, S. Misko and K. Pullen; ♀, Nelligen, 35.39S 150.08E, 16.i.70, J. Cardale; 1 unsexed, Bringenbrong, 29.i.68, S. Misko; ♂, 10 km W of Euston, 22.xi.1975, K. R. Norris; 1 unsexed, 4 km N of Euston, NSW, Sturt Hwy., 14.xi.73, S. Misko (ANIC); 2 unsexed, Bogan R, J. Armstrong, *Anthrenocerus confertum* Reitt., Id. J. Armstrong (ANIC, QMB); 7 unsexed, same location; 1 unsexed, Urbenville, J. Armstrong, *Anthrenocerus confertum* Reitt.=(*flindersi* Bl.) [ANIC(JAA)]. **Queensland:** 1 unsexed, Kuranda 1/47, J. G. Brooks Bequest, 1976 (ANIC); 1 unsexed, Burnside, N'b'r., 5.iv.66, coll. D. A. I., on spent flowers *M. integrifolia*, 11323, C.I.E. coll., A. 1894, *Anthrenocerus confertus* (Rtt.), R. Madge det. 1967, *Anthrenocerus confertus* (Reitter); 1 unsexed, N Qld, 7 km NE of Tolga, 17.xii.1981, Storey and De Faveri, light trap (all DPI); 1 unsexed, N Qld, Windsor Tableland, 30 km from main road, 28.xi–20.xii.1985, Storey and Brown, MDPI Intercept 14, Trap Site No. 6 (MDPI). **South Australia:** 1 unsexed, Murray R., A. H. Elston, 1442 *Cryptorhopalum flindersi* Bl., Id, by A. M. Lea, A.H. Elston Collection; 1 unsexed, Quorn, A. H. Elston, 1164 *Cryptorhopalum confertum* Reitt., Id. by A. M. Lea (both AMS); 2 unsexed, Adelaide, Griffith; 1 unsexed, 502 Quor, *Anthrenocerus*, 15604, *Cryptorhopalum confertum* Reitt., 3 unsexed, 502 Quorn, Quorn, SA, Blackb's coll., *confertum*, Reitt. *Flindersi*, Blackb. (all SAM). **Victoria:** 2 unsexed, Inglewood. V. 27.xi.45, E. Smith, 6 [ANIC(JAA)]; 2 unsexed, Inglewood xii 1919, J. E. Dixon Collection, don i.1940, 2 *Anthrenocerus confertim* Reitt., Id. J. Armstrong (MV). **Western Australia:** ♀, Eyre Bird Obs., 40 km S Cocklebidy, 23 xii. 1985, C. Reid, on *Melaleuca*,

*Acacia* and *Eucalyptus*; 2 unsexed, Perth, Kings Pk, xi–xii.1985, G. P. Hall, ANIC 1073 Flight intercept-trough trap; 1 unsexed, 29.50S 121.05E, 17 km SSE of Menzies, 12.xi.1977, T.A. Weir; 1 unsexed, on shrub, c. 10 km S. of Balladonia, coll. 16.xi.1990, P. J. Gullan (ANIC). 3 unsexed, Perth, x.13, Griffith Collection, Id. by A. M. Lea (SAM). 1 unsexed, Lake Bryde, 16.xii.1974, K.T. Richards; 1 unsexed, S Mandurah, 7.xi.1969, K.T. Richards; 1 unsexed, Yanhep, 10 miles N, 19.ix.1972, K. T. Richards (all WADA); 1 unsexed, A. M. and M. J. Douglas, leg. ABFJ 2.i.1977, 70 km S. Norseman, on flowering mallee [No. 90/614]; 1 unsexed, R. P. McMillan, Lake Jandalot, 11.xii.52 [No. 90/604]; 1 unsexed, same location, 52–3834 Lake Jandalot [No. 90/604]; 1 unsexed, same location, 52–3835 Lake Jandalot [No. 90/604]; 3 unsexed, Broomehill, 33.51S. 117.38E, 15–16.xii.1987, R. P. McMillan [No. 90/681–683]; 1 unsexed, 10 km NE Wanneroo, 4.i.1982, T.F. Houston, 418–5 [No. 90/623]; 1 unsexed, 37 km NNW of Gingin, 28.xii.1981, T. F. Houston, 417–2 [No. 90/602, 604, 614, 623, 681–683] (WAM).

### *Anthrenocerus convexus* Armstrong

#### *Material examined*

*Holotype*. South Australia, ♀, (1) Everard Rgs, C. Australia, Capt. S. A. White, (2) holotype, (3) *Anthrenocerus convexus* Armst., Id. J. Armstrong (SAM).

### *Anthrenocerus corrugatus*, sp. nov.

#### *Material examined*

*Holotype*. South Australia, unsexed, (1) Bordertown, coll. H. J. Banks, 18.iv.1977, (2) beneath bark of *Eucalyptus* (ANIC).

*Paratypes*. **South Australia**: ♂, 3 ♀, 1 unsexed, same data as holotype; ♀, 5 unsexed (originally on same card mount, now mounted separately), (1) Bogan R., J. Armstrong, (2) *Anthrenocerus bicolor* Arrow Id. J. Armstrong (ANIC); ♀, (1) Dorrigo, W. Heron, (2) *Anthrenocerus*, ?sp. nov. near *blackburni* Armst. (all SAM).

### *Anthrenocerus decoris*, sp. nov.

#### *Material examined*

*Holotype*. South Australia, unsexed, (1) Bordertown, coll. H. J. Banks, 18.iv.1977, (2) beneath bark of *Eucalyptus* (ANIC).

*Paratypes*. **South Australia**: 3 ♂, 2 ♀, 2 unsexed, same data as holotype (ANIC).



*Anthrenocerus hirsutus*, sp. nov.*Material examined*

*Holotype*. South Australia, unsexed, (1) Rudall, 33.41S 136.16E, 2 km S, 19.xii.70, Britton, Misko and Pullen (ANIC).

*Paratypes*. **South Australia**: 2♂, 3♀, 7 unsexed, same data as holotype (ANIC).

*Anthrenocerus intricatus*, sp. nov.*Material examined*

*Holotype*. Australian Capital Territory, unsexed, (1) 35.16 S 149.06 E, Black Mt., 600 m, i 1987, Weir, Lawrence, Dressler, (2) flight intercept window/trough trap (ANIC).

*Paratypes*. **Australian Capital Territory**: ♂, 2♀, 4 unsexed, same data as holotype; 3 unsexed same data as holotype, iii 1987 (all ANIC).

*Anthrenocerus maculosus* Armstrong*Material examined*

*Lectotype* (here designated). Northern Territory, ♀, (1) King R., 7-1-16, (2) cotype, (originally from card mount of 6, 2 lost before Armstrong saw them, now separately mounted) (MV).

*Paralectotypes* (here designated). **Northern Territory**: ♂, (1) King R., 7-1-16, (2) cotype, (3) *Anthrenocerus maculosus* Armst., Id. by J. Armstrong; 1 unsexed, (1) King R., 7-1-16, (2) cotype, (3) *Anthrenocerus maculosus* Armst., Id. J. Armstrong [both ANIC(JAA)]; 2♂, ♀, same data as lectotype [from same card mount as lectotype] (MV).

*Other material*. **Northern Territory**: ♀, Goose Lagoon, 16.10 S 136.15 E, 11 km SW by S of Borroloola, 31.x.1975, M. S. Upton; ♀, Birraduk Ck, 18 km E by N of Oenpelli, 4.vi.73, Upton and Feehan; (both ANIC); 5 unsexed, King R., under ledges of Sandstone bluff, 7-1-16, *Anthrenocerus maculosus* Armst., Id. by J. Armstrong (MV); 1 unsexed, Roper R., N. B. Tindale (SAM). **Queensland**: ♂, ♀, 3 unsexed, East Barratta Ck, Q. 19.ix.1970, W. B. Muir; ♀, Leura N Qld, 10.x.1982, J. W. Turner, ex Ironwood flower (all DPI); ♀, Australia: n. Qld, 40 Mile Scrub NP, via Mt Garnet, 23.x–22.xi.1985, Storey and Heiver, MDPI Intercept Trap Site No. 13 (MDPI). **Western Australia**: 3♂, 3♀, 19 unsexed, 15.46 S 128.38 E, 10 km W by N of Kununurra, 8.v.1983, I. Naumann, J. Cardale; ♂, 14.34 S 125.50 E, 1 km W Walsh Pt, 10 v 1983, I. D. Naumann, J.C. Cardale ex ethanol; 2♂, 2♀, 1 unsexed, 15.37S 128.41E, 19 km NNW Kununurra, 8.v.1983, I. D. Naumann, J. C. Cardale (all ANIC).

*Anthrenocerus musaicus*, sp. nov.*Material examined*

*Holotype*. Western Australia, unsexed, (1) (22.03S 118.09E), 29 km. NW. of Wittenoorn, W.A., 11.xi.70., E.B. Britton (ANIC).

*Paratypes*. **Western Australia**: ♂, ♀, 1 unsexed, same data as holotype; ♀, 5 unsexed, 21.58S 118.03E, 42 km. NW. of Wittenoorn, 11.xi.70., E. B. Britton; ♂, 22.18S 118.27E, 13 km. ESE of Wittenoorn, 11.xi.70., E. B. Britton; 1 unsexed, (1) 22.23S 118.43E, 43 km. ESE of Wittenoorn, 12.xi.70, E. B. Britton. **Northern Territory**: 2 unsexed, 12.17S 133.13E, Birraduk Creek, NT, 18 km E by N of Oenpelli, 4.vi.73, Upton and Feehan (all ANIC).

*Anthrenocerus nebulosus*, sp. nov.*Material examined*

*Holotype*. Australian Capital Territory, unsexed, Blundells Cr. Rd, 850 m, 3.5 km E of Piccadilly Circ, 13 i 1983, J. F. Lawrence (ANIC).

*Paratypes*. **Australian Capital Territory**: 4♂, 4♀, 24 unsexed, same data as holotype; ♀, (1) 35.19S 148.51E, Wombat Ck., 6 km NE of Piccadilly Circus, 750, ii.1984, Weir, Lawrence, Johnson, (2) flight intercept window trough trap (all ANIC).

*Anthrenocerus occidentalis*, sp. nov.*Material examined*

*Holotype*. Western Australia, unsexed, (1) 29.21S 117.20E, 15 km N by E Mt Singleton, 28–29.ix.1981, I. D. Naumann, J. C. Cardale, ex ethanol (ANIC).

*Paratypes*. **Western Australia**: ♀, same data as holotype; ♂, (1) 29.29S 117.20E, 11 km W by S Mt Singleton WA, 28.ix.1981, I. D. Naumann, J. C. Cardale, ex ethanol; ♀, (1) 29.18S 117.39E, 5 km SW by W Paynes Find, 29.ix.1981, I. D. Naumann, J. C. Cardale (all ANIC); 4♀, 2 unsexed, (1) Bindoo Hill Nature Reserve, Ca 27 km W Mullewa, 12ix.1987, T.F. Houston 655–1, (2) on flowers of ? *Baekea*, (3) WAM Collection 90/659, 661, 663–6; 1 unsexed, (1), 5km SE of Thundelarra HS, 28.54S 117.08E, 28 viii 1981, T.F. Houston 389–1, (2) on flowers of *Hakea preissii*, (3) WAM Collection 90/624; 1 unsexed, 24–25 km ENE of Beyondie HS, 24.47S 120.02E, 17–20.viii.1984, T. F. Houston and B. P. Hanich 581–2, (2) on flowers of *Thryptomene maisonneuvei*, (3) Western Australian Museum Collection 90/640; ♀, (1) Murdoch, 13 km S of Perth, WA, 31.x.1979, T. F. Houston 279–1, (2) on flowers of *Leptospermum ellipticum*, (3) WAM Collection 90/621; ♀, (1) Warralakin, 8.ix.1971, F. H. Uther-Baker, (2) WAM Collection 90/605 (WAM).

*Anthrenocerus pilatus*, sp. nov.*Material examined*

*Holotype*. Australian Capital Territory, unsexed, (1) Black Mt., light trap, 21.ii.68, M. S. Upton (ANIC).

*Paratypes*. **Australian Capital Territory**: 2♂, same data as holotype; 1 unsexed, same data as holotype, 25.i.68; ♀, same data as holotype, 2.ii.68; 1 unsexed, (1) Nth Canberra, 18.ii.1990, K. R. Pullen, (2) Kim Pullen Collection (all ANIC).

*Anthrenocerus pinto*, sp. nov.*Material examined*

*Holotype*. Queensland, unsexed, (1) Australia: N. Qld, 7 km NE of Tolga, 23.xii.1986, Storey and De Faveri, light trap (QMB).

*Paratypes*. **Queensland**: 1 unsexed, same data as holotype; ♂, 1 unsexed, same data as holotype, 5.i.1987; ♂, same data as holotype, 27.i.1987; 1 unsexed, same data as holotype, 23.i.1987; ♀, 1 unsexed, (1) Tolga, N. Qld, 31.x–6.xi.85, J. D. Brown, light trap; 1 unsexed, same data, 23–30.x.85; ♂, 1 unsexed, same data, 22.x.85; 1 unsexed, (1) N. Qld, Tolga, 25.ii.1986, J. D. Brown, light trap; ♀, same data, 14.xi.1986; ♀, 1 unsexed, (1) Coal Seam Ck, 15 km S of Laura, N. Qld., 31.x.1981, R.I. Storey, L.J. Titmarsh; 1 unsexed, (1) 65 km W of Chillagoe, 19.xi.1982, N. Qld., Storey, Brown and Jacobson (all QMB); ♂, 13.06S 142.56E, Wenlock R. Xing, Portland Roads Road, 17.vii.1986, T. Weir and A. Calder (ANIC); 1 unsexed, Flinders I, i.1927, Hale and Tindale (SAM). **Northern Territory**: 1 unsexed, 12.52S 132.50E, Koongarra, 15 km E of Mt Cahill, 15.xi.1972, M. S. Upton (ANIC)

*Anthrenocerus pulchellus* Arrow*Material examined*

*Lectotype* (here designated). Western Australia, unsexed, (1) Type H.T., (2) Baudin I., 92–2, (3) 5316, (4) *Anthrenocerus pulchellus* type Arrow (BMNH).

*Paralectotypes* (here designated). **Western Australia**: 4 unsexed (not examined), Baudin Pt, Baudin I, coll J. J. Walker (BMNH); ♂, ♀, (1) Baudin I, N WA, J. J. Walker, (2) Cotype, (3) *Anthrenocerus pulchellus* A., compared with type, G. J. A. [ANIC(JAA)].

*Other material*. **Northern Territory**: 1 unsexed, 23.32S 133.38E, 30 km NW by W of Alice Springs, 7.x.1978, M. S. Upton; 1 unsexed, 23.59S 133.38E Waterhouse Ra., 39 km SW by S of Alice Springs, 11.x.1978, M. S. Upton; 1 unsexed, 23.46S 133.47E Roe Ck, 12 km SW by W of Alice Springs, 9.x.1978, M. S. Upton; 2♀, 6 unsexed, 12.17S 133.13E Biraduk Creek, 18 km E by N of Oenpelli, 4.vi.73, Upton and Feehan; ♂, 12.18S 133.17E 15 km SW by S of Nimbuwah Rock, 10.xi.72, M. S. Upton; 2♂, ♀, 6 unsexed, Carranbirini W. H., 16.16S 136.05E 33 km SW of Borroloola, 3.xi.1975, M. S. Upton; ♂, 3 unsexed, Bessie Spring, 16.40S 135.51E, 8 km ESE of Cape Crawford, 26.x.1975, M. S. Upton; 2♀, 10 unsexed, 16.08S 136.06E 22 km WSW of Borroloola, 2.xi.1975, M. S. Upton; ♂, McArthur R., 16.27S 136.05E, 48 km SW by S of Borroloola,

29.x.1975, M. S. Upton; ♀, 12.50S 132.51E 15 km E by N of Mt Cahill, 29.x.72, at light, E. Britton; 1 unsexed, 12.23S 132.56E, 7 km NW by N of Cahills Crossing, (East Alligator R.), 4.xi.72, at light, E. Britton; 2 unsexed, 12.23S 132.57E, 5 km NNW of Cahills Crossing, (East Alligator R.), 5.xi.72, at light, E. Britton (all ANIC); 7 unsexed, King R., under ledges of sandstone bluff, 7-1-16; ♂, 4♀, 9 unsexed, same identification label, *Anthrenocerus pulchellus* Arrow, Id. J. Armstrong; 1, King R., 7-1-16 (all JAA, MV); 1 unsexed, 33 km NW Mt Carbine, 15.viii.1976, R.I. Storey, on *Eucalyptus* sp. (MDPI); ♀, North Point I., N. B. Tindale (SAM). **Western Australia:** ♀, 4 unsexed, 30 mi. N of Kumarina, 24.viii.67, F. H. Uther-Baker; ♂, 14.25S 126.40E, CALM site 4/3, 14 km S by E Kalumburu Mission, 3–6.vi.1988, T. A. Weir, at light, open forest, *Anthrenocerus* sp. 2, det. T.A. Weir 1989 (all ANIC).

### *Anthrenocerus quadrifasciatus* (Blackburn)

#### *Material examined*

*Lectotype* (here designated). South Australia, unsexed, (1) T. 9247 Ood. 72 0, (2) Type H.T., (3) Blackburn coll. 1910–236, (4) *Cryptorhopalum quadrifasciatum*, Blackb. (BMNH).

*Paralectotypes* (here designated). **South Australia:** ♀, (1) Ood., (2) *Anthrenus*-like sulci dark out., (3) Oodnadatta Blackburn, (4) *Cryptorhopalum 4-fasciatum* cotype, (5) J. 8655 *Cryptorhopalum 4-fasciatum* Bl. cotype; 1 unsexed, (1) vd. Ood. n. 47.7247, (2) *Cryptorhopalum 4-fasciatum* cotype, (3) 15603 *Cryptorhopalum quadrifasciatum* Blackb. cotype, (specimen missing abdomen and 50% of setae); 1 unsexed, (1) Ood., (2) Oodnadatta Blackburn, (3) *Cryptorhopalum 4-fasciatum* cotype, (4) *Anthrenocerus 4-fasciatum* Bl, (specimen missing most setae) (both SAM).

*Other material.* **New South Wales:** 2 unsexed, Bogan R., J. Armstrong [ANIC(JAA)]. **Western Australia:** ♂, 3 unsexed, 34 km ENE of Cosmo Newberry Mission, 27.55S 123.14E, 12.ix.1982, B. Hanich and T. F. Houston 455–1, on flowers of *Grevillea pterosperma*, No. 90/635–638 (WAM).

### *Anthrenocerus schwarzeneggeri*, sp. nov.

#### *Material examined*

*Holotype.* New South Wales, unsexed, (1) Graman, 2:ii:1958, T.V. Bourke (BCRI).

*Paratypes.* **New South Wales:** ♂, (1) Forest Reefs, Lea, (2) ? large lightly marked *australis*; ♀, (1) same data, (2) *Anthrenocerus* ? N. Sp. Id. J. Armstrong (both SAM); 1 unsexed, (1), J. Armstrong, (2) *Anthrenocerus confertum* Reitt. = *flindersi* Bl. Id. J. Armstrong, (3) F. E. Wilson Collection (MV).

### *Anthrenocerus signatus* Armstrong

#### *Material examined*

*Lectotype* (here designated). Queensland, unsexed, (1) Cairns dist., F.P. Dodd, (2) Cotype, (3) *Anthrenocerus signatus* Armst. Id. J. Armstrong (SAM).

*Paralectotypes* (here designated). **Queensland**: 4♂, ♀, 6 unsexed, same data as lectotype (JAA, SAM); ♂, ♀, (1) N. Qu., (2) N. Queensland, Blackb's Coll, (3) cotype (SAM).

*Other material*. **Australian Capital Territory**: ♀, 8 km S of Naas, 3.ii.72, on flowers, S. Misko, R. Kohout (ANIC). **New South Wales**: ♂, 28.37S 153.23E, Condong Falls NSW, Whian Whian SF, NNE of Lismore, 18.xi.83, D. Rentz, M. Harvey, St. 566; ♀, Tenterfield, 12/43, J.G. Brooks Bequest 1976, *blackburni* Armst. 62 (both ANIC); ♂, Ashton Park, 9.xi.1958, C. E. Chadwick (BCRI); ♂, Wanchabe, J. Armstrong, *Anthrenocerus signatus* Armst. Id. by J. Armstrong; ♀, French For., L. Sinclair, *Anthrenocerus blackburni* Armst. Id. by J. Armstrong (both ANIC); ♀, vicinity of Jenolan Caves, J. C. Wiburd, *Anthrenocerus signatus* Armst. Id. by J. Armstrong (SAM); **Queensland**: 3 unsexed, Cairns, xii.1946, J. G. Brooks, *Anthrenocerus signatus* Armst. (AMS); 1 unsexed, no label data; 6 unsexed, Cairns 12/46, J. G. Brooks Bequest 1976; ♂, 3 unsexed, 15.04S 145.07E, Mt Webb NP, 27–30.iv.1981, I. D. Naumann, ex ethanol; ♀, 3 unsexed, 15.03S 145.09E, 3km NE Mt Webb, 30.iv.–3.v.1981, A. Calder; ♂, 15.17S 145.13E, 1km N of Rounded Hill Qld, 5–6.x.1980, T. Weir (ANIC); 1 unsexed, Murray I, N. Qld, 09.56 S 144.04 E, 15.x.1984, R. Paton, ex Wongai (Wonga?) flower, TS2656; ♀, Australia SE Qld, Brisbane, 23.xi–6.xii.1979, malaise trap, DPI Indooroopilly site (both DPI); 4 unsexed, Cairns Brooks; 10 unsexed, same data as above, *Anthrenocerus signatus* Armst. Id. by J. Armstrong; ♂, Cairns, *Anthrenocerus signatus* Armst. Id. by J. Armstrong (all ANIC); 1 unsexed, Taringa, 3.xii.33, J. G. Brooks Bequest 1976; 1 unsexed, Walkamin N. Qld, 13.ix.1978, R. I. Storey, on Avocado flowers; 1 unsexed, M. Qld, 6 km NW of Kuranda, 2.x–6.xi.1984, Storey and Halfpapp, MDPI Intercept Trap Site No. 21; ♀, N. Qld, Aringa via Mareeba, 19.ii.1984, K. H. Halfpapp, Pheromone Trap, *Anthrenocerus* sp.. det. R. I. Storey 1986 (all MDPI); 3 unsexed, Kuranda i.52, G. Brooks, F. E. Wilson Collection (all MV); 2 unsexed, N. Qld Blackb's Coll, (1 missing head and thorax); 2 unsexed, Kuranda xi: 19, F. P. Dodd; ♀, 1 unsexed, Cairns dist. F. P. Dodd; 1 unsexed, 1808 4288, Bowen, A. Simson; 2 unsexed, 914, Mackay; 1 unsexed, Somerset N. Qld, C. T. McNamara (all SAM). **Victoria**: ♂, Wesburn Victoria, J. E. Dixon (MV).

### *Anthrenocerus stellatus*, sp. nov.

#### *Material examined*

*Holotype*. Queensland, unsexed, (1) East Barratta Ck, 19 xi.1970, W. B. Muir [handwritten] (ANIC).

*Paratypes*. **Queensland**: ♂, ♀, 7 unsexed, same data as holotype; ♂, ♀, 5 unsexed, (1) Ayr. N. Q. 20.10.70., W. B. Muir, (2) Ayr, N. Q., 10/70, W. M., (3) J. G. Brooks Bequest 1976 [originally from same card mount, now mounted separately]; ♂, (1) 15.03S 145.15E, 4 km SW of Casuarina Hill, Q., 30.iv–2.v.1981, I.D. Naumann; ♀, 1 unsexed, (1) 15.03S 145.09E, 3 km NE of Mt Webb, 30.iv–3.v.1981, A. Calder, (2) 'by beating' (all ANIC).

### *Anthrenocerus stigmaphilus* Armstrong

#### *Material examined*

*Lectotype* (here designated). New South Wales, unsexed, (1) with ants under log, 21.x.1946, (2) Bogan R., J. Armstrong, (3) Ant host *Stigmacros foreli* Viehm. Id. J. McAreavey, (4) Type, (5) *Anthrenocerus stigmaphilus* Armst. Id. by J. Armstrong (attached to card with 3 ants, see note) [ANIC(JAA)].

*Paralectotypes. New South Wales:* 3 unsexed, same data as lectotype, with 2 paratype labels, attached to card with 2 larval skins and remains of 3 ants (BMNH); 4 unsexed, same card mount as lectotype; 2♂, 2 unsexed, same data as lectotype, attached to card with 1 ant; ♀, 1 larva, same data as lectotype except missing date and identification labels; ♀, (1) Bogan R., J. Armstrong, (2) paratype, (3) *Anthrenocerus stigmaphilus* Armst. Id. by J. Armstrong [all ANIC(JAA)].

*Other material. Australian Capital Territory:* 1 unsexed, Black Mtn, Canberra, 10.ii.1987, under stone in *Stigmacros* sp. nest, R. W. Taylor (ANIC). **New South Wales:** 2♂, Bogan R., J. Armstrong [ANIC(JAA)]. **South Australia:** ♀, Glen Osmond, 31.x.1975, P. J. M. Greenslade, with brown *Stigmacros* larvae in alc. (ANIC); 3 unsexed, 1 larva, 1 ant, Adelaide, 6. 2. 10 (SAM). **Tasmania:** 1 unsexed, 2 ants, Dunarlan (Dunalley?), Tasmania (SAM).

### *Anthrenocerus terzonatus* (Blackburn)

#### *Material examined*

*Lectotype* (here designated). Queensland, unsexed, (1) T. 7254 Townsv., (2) Type H. T., (3) *Cryptorhopalum terzonatum* Blackb., (4) Blackburn coll. 1910–236 (BMNH).

*Paralectotypes. Queensland:* ♂, (1) 7254 Townsv., (2) Blackb's Coll, (3) *Cryptorhopalum terzonatum* cotype, (4) J. 8656 *Cryptorhopalum terzonatum* Bl, cotype; ♂, 1 unsexed, (1) 7254 Townsv., (2) *Cryptorhopalum terzonatum* cotype Townsville, (3) 15604 *Cryptorhopalum terzonatum* Bl, cotype; 1 unsexed, (1) 7254 Townsv. v. n. v., (2) Blackb's coll., (3) *Cryptorhopalum terzonatum* cotype (all SAM).

*Other material. New South Wales:* 7 unsexed, Bogan R., J. Armstrong; ♀, 3 unsexed, 3 larval skins, same location, *Anthrenocerus terzonatus* Blkb. Id. J. Armstrong; 1 larval skin, same location, 4, *Anthrenocerus terzonatus* Blkb.; 1 unsexed, Sea Lake, Goudie; 1 unsexed, J. Armstrong (all ANIC); ♂, Sydney 3.11.21 (Anthrenus) (BCRI); 1 unsexed, Birö 1900, Mt. Victoria, *Anthrenocerus terzonatum* Bl., det. V. Kalik 64 (HNHB); 1 unsexed, Bogan R., 209; ♀, Bogan R., J. Armstrong, *Anthrenocerus variabile* Reitt., Id. J. Armstrong, F. E. Wilson Collection; ♂, Hornsby, same identification label (all MV); 1 unsexed, Bogan R., J. Armstrong (SAM). **Northern Territory:** 1 unsexed, 12.17S 133.20E, Cooper Creek, 11 km S by W of Nimbawah Rock, 1.xi.72, at light, E. B. Britton (ANIC); 1 unsexed, Larrimah, 8.ix.1982, R. I. Storey, at light (MDPI). **Queensland:** 4 unsexed, Cunnamulla, xi.'42, N. Geary, *Orphinus quorrensis* Blkb., Id. by J. Armstrong (AMS). **South Australia:** 1 unsexed, 4995 Quorn, Quorn, Blackburn's coll., *Anthrenocerus terzonatum* Bl.; ♀, from light housing, i–iii.1960, Springbank, R. V. Southcott; 10 unsexed, *Anthrenus* sp., bred from Ceylon Lepidop.; 1 unsexed, Adelaide, J. G. O. Tepper, S. A. Adelaide, S. A. Museum, flew onto desk in upper Entomology, 24.x.1973, M. Anderson PTO, Fumigation of Museum 12.x.73 (all SAM). **Victoria:** 2 unsexed, J. E. Dixon (MV). **Western Australia:** 1 unsexed, 21.35S 117.04E, 2 km ENE of Millstream, 21.x.70, M. S. Upton (ANIC); ♂, 1 unsexed, Cue, W. H. Brown; 1 unsexed, 5 9991, Blackb's coll. (all SAM).

*Anthrenocerus tessellatus*, sp. nov.*Material examined*

*Holotype*. Western Australia, unsexed, (1) 13 km S of Wannoo, 26.49S, 114.37E, 31.vii.1985, T. F. Houston 614–4, (2) on flowers of *Hakea*, (3) WAM Collection 90/655 (WAM).

*Paratypes*. **Western Australia**: 3♂, ♀, same data as holotype, (3) WAM Collection 90/646–654; ♀, (1) 13 km S of Wannoo, 26.49S 114.37E, 21–23.viii.1985, T. F. Houston 615–2, (2) on flowers of *Thryptomene* aff. *mucronulata*, (3) WAM Collection 90/656 (WAM).

*Anthrenocerus trimaculatus* Armstrong*Material examined*

*Lectotype* (here designated). New South Wales, unsexed, (1) Bogan R., J.A. Armstrong, (2) cotype, (3) *Anthrenocerus trimaculatus* Armst. Id. J.A. Armstrong (ANIC(JAA)).

*Paralectotypes*. **New South Wales**: 3♂, 4♀, 9 unsexed, same data as lectotype (AMS, JAA, MV); 1 unsexed, same data as lectotype except missing identification label (AMS); 1 unsexed, same data as lectotype, (4) paratype 2926, (5) F. E. Wilson Collection; 1 unsexed, same data as lectotype except missing identification label, specimen missing head, thorax and one elytra [both ANIC(JAA)]; 2 unsexed, same data as lectotype except missing cotype label (BCRI); 1 unsexed (not seen), same data as lectotype except with 2 cotype labels (all BMNH). **South Australia**: 1 unsexed, (1) S Austral, (2) cotype, (3) Ret. M. M., (4) paratype, (5) on permanent loan from Macleay Museum, (6) University of Sydney, *Anthrenocerus trimaculatus* Armst. Id. J.A. Armstrong (ANIC).

*Other material*. **New South Wales**: 1♂, 4♀, Bogan R. J.A. Armstrong, *Anthrenocerus trimaculatus* Armst. Id. J. A. Armstrong (MV, WADA); 2 unsexed, 35.36 S 145.17 E, Blighty Rice Shed, *Trogoderma* flight trap D9, 20–27.xii.1990, J. Flisher; 2 unsexed, same locality, *Trogoderma* flight trap D7, 11–20.xii.1990, J. Flisher; 1 unsexed, same locality, 8–15.i.1991; 1, 34.20 S 146.08 E, Widgelli Rice Depot, *Trogoderma* flight trap W4, 8–15.i.1991, R. Delves (SGRL). **South Australia**: 1 unsexed, Hindmarsh Valley, A. Adcock (SAM). **Victoria**: 1 unsexed, Sea Lake, 14.xii., J. C. G[oudie] (MV).

*Anthrenocerus variabilis* (Reitter)*Material examined*

*Holotype*. Location unknown, not in BMNH, HNMH, MHNP, ZMB.

*Other material*. **New South Wales**: 6♂, 4♀, 17 unsexed, 31.05S 141.42E, Fowlers Gap Res. Stn, 29.xi–2.xii.1991, J. C. Cardale, on flowers *E. camaldulensis*; ♂, 3 unsexed, same data as above, 8–9.xii.1982, J. C. Cardale; 1 unsexed, Bogan R. NSW, J. Armstrong (all ANIC); **Northern Territory**: ♀, Oenpelli Hill, NT, 11.xi.1972, D. H. Colless, on blossom (ANIC). **South Australia**: 5 unsexed, R. Murray, A. H. Elston (AMS); ♂, ♀, 4 unsexed, Oodnadatta, Blackburn; 2 unsexed, Port Lincoln, Blackburn; ♀, Adelaide, Blackburn (all SAM).

**Western Australia:** 1 unsexed, Cue, WA, H.W. Brown; 3 unsexed, Geraldton and Mullewa, WA, Lea (all SAM).

*Trogoderma niger* (Armstrong, 1943), comb. nov.

*Material examined*

*Holotype.* New South Wales: ♀, (1) Bogan R. N.S. Wales, J. Armstrong, (2) Holotype, (3) *Anthrenocerus niger* Armst., Id. J. Armstrong [ANIC(JAA)].