

## Supplementary Material

### Systematics, phylogeny and host associations of the Australian endemic monaloniine genus *Rayieria* Odhiambo (Insecta : Heteroptera : Miridae : Bryocorinae)

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#### Table S1. Material examined

##### *Rayieria acaciae*, sp. nov.

*Paratypes. AUSTRALIA: Australian Capital Territory:* 65 Sprent Street, Narrabundah, 35.3366°S 149.14399°E, 07 Apr 1964, F. Grossbechler, *Acacia rubida* (Fabaceae), ♂ (AMNH\_PBI 00033954), ♀ (AMNH\_PBI 00033955) (ANIC). Belconnen, 35.23675°S 149.06721°E, 24 Mar 1982 - 28 Mar 1982, S. Nesar, *Acacia longifolia* (Fabaceae), ♂ (AMNH\_PBI 00033962), ♀ (AMNH\_PBI 00033963) (ANIC); 20 Jun 1982, S. Nesar, ♀ (AMNH\_PBI 00033992) *Acacia longifolia* (Fabaceae), 1juvenile (AMNH\_PBI 00033990), ♂ (AMNH\_PBI 00033991), ♀ (AMNH\_PBI 00033993) (ANIC). Black Mountain, 35.26387°S 149.10051°E, 27 Jan 1987, D. C. F. Rentz, ♂ (AMNH\_PBI 00033986) (ANIC). Burrunjuck Cres. Duffy, 35.33333°S 149.03333°E, 17 Feb 1999, M.J. Dudzinski, *Acacia rubida* (Fabaceae), 2♂ (AMNH\_PBI 00034065, AMNH\_PBI 00034067), ♀ (AMNH\_PBI 00034066) (ANIC). Canberra, 35.2833°S 149.2167°E, 605 m, Apr 1973, Carvalho, 4♂ (AMNH\_PBI 00038915-AMNH\_PBI 00038918), 3♀ (AMNH\_PBI 00038919-AMNH\_PBI 00038921), 3juvenile (AMNH\_PBI 00029082-AMNH\_PBI 00029084) (SAMA); 03 Jan 1975, T. Bellas, 8♂ (AMNH\_PBI 00033957, AMNH\_PBI 00033964, AMNH\_PBI 00034047-AMNH\_PBI 00034049, AMNH\_PBI 00034051-AMNH\_PBI 00034053), 4♀ (AMNH\_PBI 00033957, AMNH\_PBI 00033965, AMNH\_PBI 00034050, AMNH\_PBI 00034054), 1juvenile (AMNH\_PBI 00033958) (ANIC); Nov 1981, S. Nesar, *Acacia pravissima* (Fabaceae), 1sex unknown (AMNH\_PBI 00034027), 2♀ (AMNH\_PBI 00034028, AMNH\_PBI 00034029) (ANIC); 16 Nov 1981, S. Nesar, *Acacia longifolia* (Fabaceae), ♂ (AMNH\_PBI 00033971-AMNH\_PBI 00033974, AMNH\_PBI 00033916-AMNH\_PBI 00033920, AMNH\_PBI 00033922, AMNH\_PBI 00033921), 17♀ (AMNH\_PBI 00033975-AMNH\_PBI 00033981, AMNH\_PBI 00033915, AMNH\_PBI 00033923-AMNH\_PBI 00033930, AMNH\_PBI 00034061) (ANIC); Dec 1984, T. Bellas and M. Carver, *Acacia mearnsii* De Wild. [introduced] (Fabaceae), 2♂ (AMNH\_PBI 00034176, AMNH\_PBI 00034177), ♀ (AMNH\_PBI 00034141) (ANIC). Canberra (Farrer), 35.22°S 151.59°E, 06 Jan 1986, D. C. F. Rentz, ♂ (AMNH\_PBI 00034178) (ANIC). Deakin, 35.31416°S 149.10777°E, 586 m, 28 Dec 1970, E. Britton, 9♂ (AMNH\_PBI 00033959, AMNH\_PBI 00033966, AMNH\_PBI 00033967, AMNH\_PBI 00034031-AMNH\_PBI 00034036), 10♀ (AMNH\_PBI 00033960, AMNH\_PBI 00033968, AMNH\_PBI 00034039-AMNH\_PBI 00034046), 2sex unknown (AMNH\_PBI 00034037, AMNH\_PBI 00034038) (ANIC). Lyneham, 35.25031°S 149.1242°E, 03 Mar 1967, A.G. Wilson, *Acacia rubida* (Fabaceae), 5♀ (AMNH\_PBI 00033947-AMNH\_PBI 00033949, AMNH\_PBI 00033969, AMNH\_PBI 00033970) (ANIC). Narrabundah, 35.33186°S 149.15304°E, 15 Apr 1964, F. Grossbechler, *Acacia rubida* (Fabaceae), 4♀ (AMNH\_PBI 00033950-AMNH\_PBI 00033953), 2♂ (AMNH\_PBI 00033953, AMNH\_PBI 00033913) (ANIC). North end Majura Av., Ainslie, 35.25033°S 149.15547°E, 28 Mar 1967, W. Martin, 2♂ (AMNH\_PBI 00033956, AMNH\_PBI 00033914) (ANIC). **New South Wales:** 2.7 km NE of Queanbeyan, 35.34117°S 149.26555°E, 670 m, 05 Jan 1975, I. F. B. Common, *Acacia rubida* (Fabaceae), 2♂ (AMNH\_PBI 00033945, AMNH\_PBI 00033946), ♀ (AMNH\_PBI 00033961) (ANIC). Armidale, 30.5152°S 151.6651°E, 979 m, 20 Jan 1962, C. W. Frazier, ♀

(AMNH\_PBI 00033985) (ANIC). Ashfield, 33.8991°S 151.1246°E, 28 Jan 1981, D. A. Doolan, ♂ (AMNH\_PBI 00019269) (AM). Braidwood, 35.44221°S 149.79921°E, Jan 1966, J.W.B., ♂ (AMNH\_PBI 00020186), 2♀ (AMNH\_PBI 00019278, AMNH\_PBI 00019279) (AM). Brindabella, 35.3675°S 148.6528°E, 23 Mar 1987, D. Horan, *Acacia farnesiana* (L.) Willd. (Fabaceae), ♂ (AMNH\_PBI 00034175) (ANIC). Goodiman State Conservation Area, plot 4, 32.21663°S 149.37361°E, 582 m, 15 Dec 2007, C. Symonds, *Acacia ausfeldii* Regel (Fabaceae), ♀ (AMNH\_PBI 00400480) (UNSW); 26 Nov 2008, C. Symonds, *Acacia ausfeldii* Regel (Fabaceae), ♀ (AMNH\_PBI 00019293) (AM). Goulburn, 34.749°S 149.735°E, 26 Jan 1953, C. E. Chadwick, *Grevillea arenaria* (Proteaceae), 2♀ (AMNH\_PBI 00019277) (AM). Mount Keira, 34.24°S 150.51°E, 21 Jan 1994, G. Cassis, *Lomandra longifolia* (Asparagaceae), ♂ (AMNH\_PBI 00019340) (AM). New England University, Armidale, 30.49579°S 151.63981°E, 01 Feb 1967, C. W. Frazier, 2♀ (AMNH\_PBI 00033983, AMNH\_PBI 00033984) (ANIC); 07 Mar 1967, C. W. Frazier, ♀ (AMNH\_PBI 00033982) (ANIC). Nielsen Park, Vaucluse, 33.85302°S 151.26723°E, 26 Nov 1982, S. Nesar and M.J. Morris, *Acacia longifolia* (Fabaceae), ♂ (AMNH\_PBI 00033994), sex unknown (AMNH\_PBI 00033995), 4♀ (AMNH\_PBI 00033996-AMNH\_PBI 00033999) (ANIC). Rosebrook, 32.64746°S 151.50969°E, 28 Dec 1924, R. V. Southcott, ♂ (AMNH\_PBI 00038922), ♀ (AMNH\_PBI 00038922) (SAMA). Springwood, Patersons Rd, 1.1km from Springwood Rd, plot 1, 33.69958°S 150.59086°E, 348 m, 19 Nov 2008, C. Symonds, *Acacia longifolia* (Fabaceae), ♂ (AMNH\_PBI 00400447), 2♀ (AMNH\_PBI 00400485) (UNSW). Timbillica, 10 km NE of Genoa, 37.37152°S 149.70205°E, 29 Jan 1975, A. Neboiss, ♂ (AMNH\_PBI 00030083) (MVMA). Yarrobil National Park, plot 1, 32.27741°S 149.36166°E, 500 m, 14 Dec 2007, C. Symonds, *Acacia ausfeldii* Regel (Fabaceae), ♂ (AMNH\_PBI 00400478) (UNSW). Yarrobil National Park, plot 2, 32.30319°S 149.35675°E, 500 m, 25 Nov 2008, C. Symonds, *Acacia ausfeldii* Regel (Fabaceae), ♂ (AMNH\_PBI 00019289) (AM). Yarrobil National Park, plot 3, 32.29536°S 149.38191°E, 500 m, 25 Nov 2008, R. Hazali, *Acacia ausfeldii* Regel (Fabaceae), ♂ (AMNH\_PBI 00019292) (AM). Yarrobil National Park, plot 4, 32.28702°S 149.3635°E, 500 m, 25 Nov 2008, R. Hazali, *Acacia ausfeldii* Regel (Fabaceae), ♀ (AMNH\_PBI 00019149) (AM), *Acacia ausfeldii* Regel (Fabaceae), ♂ (AMNH\_PBI 00400484) (UNSW). Yengo National Park, Mt Wareng, Howes Valley fire trail, plot 3, 32.86694°S 150.86019°E, 350 m, 20 Dec 2007, H. Finlay, *Jacksonia scoparia* (Fabaceae), ♀ (AMNH\_PBI 00400483) (UNSW). **Northern Territory:** 22 km N of Carpentaria Hwy (N of Cape Crawford) on Savannah Way, 16.50003°S 135.68098°E, 118 m, 23 Apr 2009, Cassis, Tatarinic, Monteith, *Acacia* sp. (Fabaceae), 5♂ (AMNH\_PBI 00193279-AMNH\_PBI 00193282, AMNH\_PBI 00193285) (NTM), *Acacia* sp. (Fabaceae), 6♂ (AMNH\_PBI 00400450, AMNH\_PBI 00400452, AMNH\_PBI 00400453, AMNH\_PBI 00400455, AMNH\_PBI 00400457, AMNH\_PBI 00400458), 6♀ (AMNH\_PBI 00400462, AMNH\_PBI 00400463, AMNH\_PBI 00400465, AMNH\_PBI 00400466, AMNH\_PBI 00400468, AMNH\_PBI 00400469), 6juvenile (AMNH\_PBI 00400470-AMNH\_PBI 00400472, AMNH\_PBI 00400474, AMNH\_PBI 00400475, AMNH\_PBI 00400477) (UNSW), *Acacia* sp. (Fabaceae), 2♀ (AMNH\_PBI 00193283, AMNH\_PBI 00193284), 2juvenile (AMNH\_PBI 00193286, AMNH\_PBI 00193287) (WAMP). 22 mi S of Alice Springs, 24.3°S 134.6°E, 15 Feb 1966, Britton, Upton & McInnes, ♀ (AMNH\_PBI 00033944) (ANIC). 53 km E by N of Alice Springs, 23.355°S 134.22°E, 06 Oct 1978, Upton & Barrett, ♂ (AMNH\_PBI 00033912) (ANIC). Melville Island, 11.56479°S 130.95818°E, no date provided, W. D. Dodd, ♂ (AMNH\_PBI 00029087), ♀ (AMNH\_PBI 00029088), 1sex unknown (AMNH\_PBI 00029089) (SAMA). Nitmiluk [Katherine Gorge] National Park, 14.14057°S 132.47292°E, 04 Dec 1980 - 06 Dec 1980, M. B. Malipatil, ♂ (AMNH\_PBI 00193277), ♂ (AMNH\_PBI 00193278) (NTM). Palm Valley, 23 May 1983, G. A. Holloway, Light Trap, ♂ (AMNH\_PBI 00019257) (AM). **Queensland:** 10 km S of Toowoomba, Preston Road, 27.67424°S 151.992°E, 690 m, Jan 2001, G. Cassis, *Acacia farnesiana* (L.) Willd. (Fabaceae), 12♀ (AMNH\_PBI 00019577-AMNH\_PBI 00019588), 8♂ (AMNH\_PBI 00019590-AMNH\_PBI 00019592, AMNH\_PBI 00019594-AMNH\_PBI 00019598) *Acacia farnesiana* (L.) Willd. (Fabaceae), ♂ (AMNH\_PBI 00020193) (AM), *Acacia farnesiana* (L.) Willd. (Fabaceae), 13♀ (AMNH\_PBI 00400527-AMNH\_PBI 00400539), 8♂ (AMNH\_PBI 00400514-AMNH\_PBI 00400521) (UNSW). 26.1km W of Mt. Garnet, 17.83677°S 144.94902°E, 673 m, 22 May 2006, Cassis, Barrow, Finlay, and Symonds, 1juvenile (AMNH\_PBI 00020207), ♂ (AMNH\_PBI 00020191) *Acacia cf. platycarpa* (*leptoloba*) F. Muell. (Fabaceae), det. RBG staff, ♂ (AMNH\_PBI 00019142), ♀ (AMNH\_PBI 00020204) (AM), ♂ (AMNH\_PBI 00005130), 4♀ (AMNH\_PBI 00005136, AMNH\_PBI 00005138, AMNH\_PBI 00005139, AMNH\_PBI 00005219),

ljuvenile (AMNH\_PBI 00005140) *Acacia cf. platycarpa (leptoloba)* F. Muell. (Fabaceae), det. RBG staff, ♂ (AMNH\_PBI 00005126) (AMNH), 3♂ (AMNH\_PBI 00201898, AMNH\_PBI 00201896, AMNH\_PBI 00201900), ♀ (AMNH\_PBI 00201897), ljuvenile (AMNH\_PBI 00201895) (QM), ♂ (AMNH\_PBI 00400379), ♀ (AMNH\_PBI 00404949) (UNSW). 41.4km S of Lolworth Homestead, 20.40077°S 145.16513°E, 513 m, 18 May 2006, Cassis, Barrow, Finlay, and Symonds, *Acacia melleodora* (Fabaceae), det. RBG staff, 4♂ (AMNH\_PBI 00019337, AMNH\_PBI 00019339, AMNH\_PBI 00019341, AMNH\_PBI 00019342), 1sex unknown (AMNH\_PBI 00019349) (AM), *Acacia melleodora* (Fabaceae), det. RBG staff, 3♀ (AMNH\_PBI 00005210, AMNH\_PBI 00005211, AMNH\_PBI 00005208) (AMNH), *Acacia melleodora* (Fabaceae), det. RBG staff, 2♂ (AMNH\_PBI 00201902, AMNH\_PBI 00201906), 3♀ (AMNH\_PBI 00201904, AMNH\_PBI 00201905, AMNH\_PBI 00201903) (QM), *Acacia melleodora* (Fabaceae), det. RBG staff, ♂ (AMNH\_PBI 00201901) (WAMP). 57km W of Mt. Garnet, Forty Mile Scrub, 18.05494°S 144.86247°E, 781 m, 22 May 2006, Cassis, Barrow, Finlay, and Symonds, *Acacia flavescens* (Fabaceae), det. RBG staff, ♀ (AMNH\_PBI 00202017) (QM). 58km W of Mt. Garnet, Forty Mile Scrub National Park, 18.08155°S 144.85902°E, 758 m, 23 May 2006, Cassis, Barrow, Finlay, and Symonds, *Acacia leptostachya* Benth. (Fabaceae), det. RBG staff, 2♀ (AMNH\_PBI 00020190, AMNH\_PBI 00020206) (AM), *Acacia leptostachya* Benth. (Fabaceae), det. RBG staff, 2♀ (AMNH\_PBI 00005218, AMNH\_PBI 00005217) (AMNH), *Acacia leptostachya* Benth. (Fabaceae), det. RBG staff, ♀ (AMNH\_PBI 00201899) (QM). Bluff Ra., Biggenden, 25.50996°S 152.04302°E, 04 Jan 1974, H. Frauca, ♀ (AMNH\_PBI 00034030) (ANIC). Brisbane, 27.46785°S 153.02801°E, 18 Dec 1989 - 19 Dec 1989, R. Wharton, ♀ (AMNH\_PBI 00019355) (TAMU); 22 Jan 1990 - 26 Jan 1990, R. Wharton, ♀ (AMNH\_PBI 00019352) (TAMU). Carnarvon Gorge NP, 25.03333°S 148.23333°E, 01 Dec 1993, G. Cassis, *Acacia* sp. (Fabaceae), ♂ (AMNH\_PBI 00019266) (AM). Carnarvon Range, 25.28333°S 148.73333°E, 14 Dec 1938, N. Geary, 2♀ (AMNH\_PBI 00019281, AMNH\_PBI 00019282) (AM). Cunnamulla, 28.071°S 145.685°E, Dec 1947, N. Geary, ♂ (AMNH\_PBI 00019280) (AM). Goodwood, Isis Shire, 25.2379°S 152.277°E, 15 Apr 1973, H. Frauca, ♀ (AMNH\_PBI 00033900) (ANIC). Noosa Heads, 26.3954°S 153.09043°E, 29 Nov 1985, D. Bickel & G. Cassis, 5♂ (AMNH\_PBI 00019259-AMNH\_PBI 00019263), 2♀ (AMNH\_PBI 00019264, AMNH\_PBI 00019265) (AM). Pinnock [Pinock] R., Gorge Hogback Ra., WSW of Bundaberg, 25.03481°S 151.80731°E, 23 Sep 1972, H. Frauca, ♂ (AMNH\_PBI 00033987) (ANIC). Selwyn Mine, 160 km SE of Mt Isa, 22.08585°S 140.21294°E, 14 Feb 1991 - 28 Feb 1991, T. Woodger, ♂ (AMNH\_PBI 00020199) (AM). **South Australia:** 17 km E of Nepebunna, Gammon Ranges National Park, 30.57312°S 139.1273°E, 480 m, 07 Nov 1998, Schuh, Cassis, Silveira, *Acacia rivalis* J. Black (Fabaceae), det. Det: Royal Bot Gard. NSW NSW427671, ♂ (AMNH\_PBI 00038961), 3♀ (AMNH\_PBI 00029102, AMNH\_PBI 00038962, AMNH\_PBI 00029103) (SAMA). 20 km W of Nepabunna, Mt. Serle, 30.55365°S 138.8304°E, 630 m, 07 Nov 1998, Schuh, Cassis, Silveira, *Acacia rivalis* J. Black (Fabaceae), det. Det: Royal Bot Gard. NSW NSW427671, ♂ (AMNH\_PBI 00019267), ♀ (AMNH\_PBI 00019268) (AM). [Ooldoa], 22 Apr 1973, D. K. Hood, Light Trap, ♂ (AMNH\_PBI 00038914) (SAMA). **Victoria:** Mt. Pinnibar, 36.53551°S 148.00331°E, 1143 m, 09 Mar 1967, K. R. Norris, ♂ (AMNH\_PBI 00034055) (ANIC). Tennyson Creek, 5 km NW of Buldah, 37.14°S 149.07°E, 10 Jan 1982 - 16 Jan 1982, Unknown, ♀ (AMNH\_PBI 00019283) (AM). **Western Australia: Pilbara Co.:** 19.7 km E of 'Onslow Rd' on Nth Coast Hwy, 22.00344°S 115.62308°E, 80 m, 29 Aug 2005, G. Cassis, S. Lassau, S. and G. Carter, *Acacia tumida var. pilbarensis* (Fabaceae), det. Field ID, 2♀ (AMNH\_PBI 00019286, AMNH\_PBI 00019287) (AM), *Acacia tumida var. pilbarensis* (Fabaceae), det. Field ID, ♂ (AMNH\_PBI 00005214), ♀ (AMNH\_PBI 00005213) *Acacia ancistrocarpa* Maiden & Blakely (Fabaceae), det. Field ID, ♀ (AMNH\_PBI 00005212) (AMNH), *Acacia tumida var. pilbarensis* (Fabaceae), det. Field ID, ♂ (AMNH\_PBI 00400380) (UNSW), *Acacia tumida var. pilbarensis* (Fabaceae), det. Field ID, ♂ (AMNH\_PBI 00030501), ♀ (AMNH\_PBI 00030502), ljuvenile (AMNH\_PBI 0030500) *Acacia ancistrocarpa* Maiden & Blakely (Fabaceae), det. Field ID, ♂ (AMNH\_PBI 00030488) (WAMP). 16 km N Moora, 30.49394°S 116.0293°E, 16 Nov 1963, J. Sedlacek, ♂ (AMNH\_PBI 00045816) (BPBM). Applecross, 32.00967°S 115.84884°E, 22 Jan 1969, F. H. Uther Baker, ♀ (AMNH\_PBI 00029086) (SAMA). Attadale, Burke Drive, 32.02012°S 115.8055°E, 29 Oct 1983, R. Patterson, ♂ (AMNH\_PBI 00030385) (WAMP). Bold Park, 31.95°S 115.7667°E, 16 Nov 2975, R. P. McMillan, ♂ (AMNH\_PBI 00030390) (WAMP). Cannington, 32.01921°S 115.93279°E, 14 Nov 1982, S. Neser, *Acacia saligna* (Labill.) H.L. Wendl. (Fabaceae), 2♂ (AMNH\_PBI 00034062, AMNH\_PBI 00034063) (ANIC). Cannington,

32.01942°S 115.93301°E, 14 Nov 1982, S. Nesar, *Acacia saligna* (Labill.) H.L. Wendl. (Fabaceae), 2♂ (AMNH\_PBI 00034005, AMNH\_PBI 00034006), ♀ (AMNH\_PBI 00034007) (ANIC). Carnarvon Road, 24.89424°S 113.67257°E, 440 m, 22 Sep 1969, F. H. Uther Baker, ♂ (AMNH\_PBI 00038904), ♀ (AMNH\_PBI 00029085) (SAMA). Dongarra, 29.24941°S 114.935°E, 13 Nov 1982, S. Nesar, *Acacia saligna* (Labill.) H.L. Wendl. (Fabaceae), ♂ (AMNH\_PBI 00033989), 5♀ (AMNH\_PBI 00034000-AMNH\_PBI 00034004) (ANIC). Drysdale River, 15.02°S 126.55°E, 03 Aug 1975 - 08 Aug 1975, I. F. B. Common & M. S. Upton, ♂ (AMNH\_PBI 00033988) (ANIC). Eneabba, 29.8178°S 115.26759°E, 10 Sep 1982, R. P. McMillan, ♂ (AMNH\_PBI 00030387) (WAMP). Kalbarri, 27.71°S 114.165°E, Nov 1969, W.J. Marsh, ♀ (AMNH\_PBI 00030389) (WAMP). Kelmscott, 32.11471°S 116.01784°E, 06 Nov 1982, S. Nesar, *Acacia saligna* (Labill.) H.L. Wendl. (Fabaceae), 2♂ (AMNH\_PBI 00034018, AMNH\_PBI 00034019), ♀ (AMNH\_PBI 00034020) (ANIC). Kojonup, 33.83333°S 117.15°E, 17 Dec 1978, R. P. McMillan, ♀ (AMNH\_PBI 00030386) (WAMP). North West Coast Hiway 72 km NE of jct with Blowholes Rd, 24.18336°S 114.0381°E, 34 m, 28 Oct 2004, Cassis, Wall, Weirauch, Tatarnic, Symonds, *Acacia murrayana* (Fabaceae), det. PERTH staff PERTH6988989, 1juvenile (AMNH\_PBI 00020189) *Acacia murrayana* (Fabaceae), det. PERTH staff PERTH6988989, ♂ (AMNH\_PBI 00020188) (AM), *Acacia murrayana* (Fabaceae), det. PERTH staff PERTH6988989, ♂ (AMNH\_PBI 00005141), ♀ (AMNH\_PBI 00005129) (AMNH), *Acacia murrayana* (Fabaceae), det. PERTH staff PERTH6988989, ♂ (AMNH\_PBI 00030487), ♀ (AMNH\_PBI 00030486) (WAMP). Perth, 31.9333°S 115.8333°E, 32 m, Nov 1973, S.M. Wade, ♂ (AMNH\_PBI 00030384) (WAMP); 06 Nov 1982, S. Nesar, 7♂ (AMNH\_PBI 00034008-AMNH\_PBI 00034013, AMNH\_PBI 00034017), 4♀ (AMNH\_PBI 00034014-AMNH\_PBI 00034017) (ANIC); 14 Nov 1982, S. Nesar, *Acacia saligna* (Labill.) H.L. Wendl. (Fabaceae), 5♂ (AMNH\_PBI 00034021-AMNH\_PBI 00034025), ♀ (AMNH\_PBI 00034026) (ANIC). Sandridge, W. Highway 90-115 km N of Carnarvon, 24.09661°S 114.04884°E, 10 Sep 1981, L. P. Kelsey, 2♂ (AMNH\_PBI 00034143, AMNH\_PBI 00034136) (ANIC). Shenton Park (Perth), 31.95678°S 115.82417°E, Jan 1976, S. M. Slack-Smith, ♂ (AMNH\_PBI 00030388) (WAMP). ca. 28 km SE of North West Coastal Hiway, on Mardathuna Rd (W of Kennedy Range National Park), 24.46768°S 114.5409°E, 219 m, 02 Nov 2004, Cassis, Wall, Weirauch, Tatarnic, Symonds, *Acacia murrayana* (Fabaceae), det. PERTH staff PERTH6991572, ♀ (AMNH\_PBI 00019555) (AM), *Acacia murrayana* (Fabaceae), det. PERTH staff PERTH6991572, ♀ (AMNH\_PBI 00005131) (AMNH), *Acacia murrayana* (Fabaceae), det. PERTH staff PERTH6991572, ♀ (AMNH\_PBI 00030559) (WAMP).

*Other specimens examined.* **AUSTRALIA: Queensland:** 57km W of Mt. Garnet, Forty Mile Scrub, 18.05494°S 144.86247°E, 781 m, 22 May 2006, Cassis, Barrow, Finlay, and Symonds, *Acacia flavescens* (Fabaceae), det. RBG staff, ♀ (AMNH\_PBI 00005215) (AMNH). **Western Australia: Pilbara Co.:** 19.7 km E of 'Onslow Rd' on Nth Coast Hwy, 22.00344°S 115.62308°E, 80 m, 29 Aug 2005, G. Cassis, S. Lassau, S. and G. Carter, *Acacia tumida* var. *pilbarensis* (Fabaceae), det. Field ID, ♀ (AMNH\_PBI 00030489) (WAMP).

#### *Rayieria albaornata*, sp. nov.

*Paratypes.* **AUSTRALIA: Western Australia:** 10 S Perenjori, 29.51879°S 116.30842°E, 01 Nov 1958, E. F. Riek, ♀ (AMNH\_PBI 00034076) (ANIC). 28 km S of Menzies (3.5 km E of Hiway), 29.91917°S 121.1514°E, 500 m, 25 Oct 1996, Schuh and Cassis, *Grevillea juncifolia* Hook. subsp. *temulenta* P. Olde & N. Marriott (Proteaceae), det. PERTH staff PERTH 05099951, ♂ (AMNH\_PBI 00019295), ♀ (AMNH\_PBI 00019298) (AM), *Grevillea juncifolia* Hook. subsp. *temulenta* P. Olde & N. Marriott (Proteaceae), det. PERTH staff PERTH 05099951, ♂ (AMNH\_PBI 00404947) (UNSW), *Grevillea juncifolia* Hook. subsp. *temulenta* P. Olde & N. Marriott (Proteaceae), det. PERTH staff PERTH 05099951, ♂ (AMNH\_PBI 00030503) (WAMP). 123 km W of Coolgardie on Great Eastern Hiway, 31.23414°S 120.1562°E, 17 Nov 1999, R.T. Schuh, G. Cassis and R. Silveira, *Grevillea hookeriana apiciloba* (Proteaceae), det. Perth staff PERTH 05670187, ♂ (AMNH\_PBI 00030558), 2♀ (AMNH\_PBI 00030563, AMNH\_PBI 00030555) (WAMP). 135 km W of Coolgardie on Great Eastern Hiway, 31.27202°S 120.0059°E, 489 m, 17 Nov 1999, R.T. Schuh, G. Cassis and R. Silveira, *Grevillea hookeriana apiciloba* (Proteaceae), det. PERTH staff PERTH

05670187, ♀ (AMNH\_PBI 00019148) (AM), *Grevillea hookeriana apiculoba* (Proteaceae), det. PERTH staff PERTH 05670187, ♀ (AMNH\_PBI 00404947) (UNSW), *Grevillea hookeriana apiculoba* (Proteaceae), det. PERTH staff PERTH 05670187, ♀ (AMNH\_PBI 00030556), ♂ (AMNH\_PBI 00030557) (WAMP). Southern Cross, 31.21666°S 119.33333°E, Oct 1981, R. P. McMillan, ♀ (AMNH\_PBI 00030411) (WAMP).

***Rayieria basifer* (Walker, 1873)**

*Other specimens examined.* **AUSTRALIA: Australian Capital Territory:** Black Mountain, 35.26387°S 149.10051°E, 21 Jan 1987, D. C. F. Rentz, 2♂ (AMNH\_PBI 00033872, AMNH\_PBI 00033873) (ANIC); 21 Jan 1987, D. C. F. Rentz, ♂ (AMNH\_PBI 00033869), ♀ (AMNH\_PBI 00033870) (ANIC). Canberra, 35.2833°S 149.2167°E, 605 m, 29 Jan 1958, W. J. M. Vestjens, ♂ (AMNH\_PBI 00033901) (ANIC). Canberra (Farrer), 35.22°S 151.59°E, 20 Apr 1984, D. C. F. Rentz, ♀ (AMNH\_PBI 00033943) (ANIC); 10 Jan 1987, D. C. F. Rentz, ♀ (AMNH\_PBI 00033899) (ANIC); 21 Jan 1987, D. C. F. Rentz, ♀ (AMNH\_PBI 00033871) (ANIC). Mt. Ainslie, Canberra, 35.267°S 149.167°E, 02 Jan 1966, M. S. Upton, 4♂ (AMNH\_PBI 00033931-AMNH\_PBI 00033934), 3♀ (AMNH\_PBI 00033935-AMNH\_PBI 00033937) (ANIC). Mt. Coree, 35.3°S 148.8°E, 822 m, 06 Feb 1957, E. F. Riek, ♂ (AMNH\_PBI 00033938) (ANIC). Spence, 35.19499°S 149.06196°E, 14 Jan 1977, G.P. Hall, ♀ (AMNH\_PBI 00033860) (ANIC). **New South Wales:** "Lorien", approx. 1 km NNW of Lansdowne via Taree, 31.77666°S 152.52465°E, 25 Apr 1982, G. & T. Williams, ♂ (AMNH\_PBI 00019246) (AM). 3.2 km [2 mi] N of Old Adaminaby, 36.00682°S 148.70071°E, 24 Feb 1962, R. V. Southcott, ♀ (AMNH\_PBI 00038903) (SAMA). 16.1 km [10 mi] N of Broken Hill, 31.87114°S 141.51066°E, 07 Feb 1963, K. Dansie, Light Trap, ♂ (AMNH\_PBI 00028102), 1sex unknown (AMNH\_PBI 00028103), 3♀ (AMNH\_PBI 00028104, AMNH\_PBI 00028105, AMNH\_PBI 00038902) (SAMA). 40 km N Broken Hill, 31.62181°S 141.63689°E, 19 Nov 1949, S. J. Paramonov, ♀ (AMNH\_PBI 00033867) (ANIC). Armidale, 30.5152°S 151.6651°E, 979 m, 01 Jan 1976, C. W. Frazier, ♀ (AMNH\_PBI 00033906) (ANIC). Arrawarra, North Coast, 30.05943°S 153.19395°E, 08 Apr 1968, C. W. Frazier, ♀ (AMNH\_PBI 00033877) (ANIC). Bibbenluke, 36.83333°S 149.28333°E, 841 m, 23 Feb 1961, T.V. Bourke, ♀ (AMNH\_PBI 00202901) (ASCU). Bogan River, 33.0068°S 148.03461°E, J. Armstrong, ♀ (AMNH\_PBI 00019243) (AM). Brooklana, E Dorrigo, 30.26667°S 152.85°E, 1929, W. Heron, ♀ (AMNH\_PBI 00019071), ♂ (AMNH\_PBI 00019241) (AM). Callubri, Bogan River, 31.9218°S 147.2932°E, 01 Mar 1953, J. Armstrong, *Eucalyptus bicolor* (Myrtaceae), ♀ (AMNH\_PBI 00019244) (AM), ♀ (AMNH\_PBI 00034133) (ANIC); 20 Feb 1958, A. Musgrave, ♀ (AMNH\_PBI 00033875) (ANIC). Canowindra, 33.54883°S 148.65933°E, 29 Dec 1954, F. E. Wilson, 1sex unknown (AMNH\_PBI 00028096) (SAMA). Clarence, 33.46666°S 150.23333°E, 26 Jan 1983, N. W. Rodd, ♀ (AMNH\_PBI 00019258) (AM). Congo, 8 km SE by E of Moruya, 35.58°S 150.09°E, 16 Mar 1980, M.S. Upton, ♂ (AMNH\_PBI 00033941), ♀ (AMNH\_PBI 00033942) (ANIC). Dainers Gap, 36.2°S 148.71666°E, 1585 m, 21 Feb 1973, P. Morrow, *Eucalyptus pauciflora* (Myrtaceae), ♀ (AMNH\_PBI 00033904) *Eucalyptus* sp. (Myrtaceae), ♀ (AMNH\_PBI 00033905) (ANIC). Gnalta Stn nr Broken Hill, 31.94225°S 141.46671°E, 09 Dec 1960, N. McFarland, ♂ (AMNH\_PBI 00028097) (SAMA). Kosciusko, 35.76928°S 148.46975°E, 1524 m, Mar 1889, Helms, 3♀ (AMNH\_PBI 00019238-AMNH\_PBI 00019240) (AM). Leura, 33.71667°S 150.33333°E, 99 m, 29 May 1934, H. Hess, ♀ (AMNH\_PBI 00019242) (AM). Moonbar, Monaro, 36.5°S 148.53333°E, 1067 m, Mar 1889, Helms, 2♂ (AMNH\_PBI 00019230, AMNH\_PBI 00019231), 1sex unknown (AMNH\_PBI 00019232), 5♀ (AMNH\_PBI 00019233-AMNH\_PBI 00019237) (AM). Mount Tomah, 33.544°S 150.421°E, 09 Feb 1984, N. W. Rodd, ♂ (AMNH\_PBI 00019245) (AM); 28 Feb 1984, N. W. Rodd, ♀ (AMNH\_PBI 00019305) (AM). Mt. Boyce, Blue Mountains, 33.615°S 150.268°E, 04 Jan 1983, N. W. Rodd, ♀ (AMNH\_PBI 00019186) (AM). Oxley Highway, 72.4 km [45 mi] W Wauchope, 31.40976°S 152.16611°E, 04 Jan 1970, G. A. Holloway, ♂ (AMNH\_PBI 00019225) (AM). Warrumbungle National Park, via Coonabarabran, 31.28333°S 149°E, 494 m, 21 Dec 1973, I. Naumann, Light Trap, ♂ (AMNH\_PBI 00019146) (AM), Light Trap, ♂ (AMNH\_PBI 00034142) (ANIC). Wauchope, 72 km W on Oxley Highway, 31.45°S 152.73333°E, 04 Jan 1970, Britton, Holloway & Misko, 3♂ (AMNH\_PBI 00033907, AMNH\_PBI 00033939, AMNH\_PBI 00033940) (ANIC). Winston Hills, Charles Street, 33.77261°S 150.97021°E, 09 Jun 2008, D.S. Kent, *Eucalyptus scoparia* (Myrtaceae), ♀ (AMNH\_PBI 00400347) (UNSW). airstrip, Bago S. F. Blowering Dam, 35.419°S

148.276°E, D. Hyatt & G. A. Holloway, ♀ (AMNH\_PBI 00019223) (AM). **Northern Territory:** 1 km N of Barrow Creek, 21.477°S 133.918°E, 11 Apr 1981, M. Malipatil & J. Hawkins, ♀ (AMNH\_PBI 00193276), 2♀ (AMNH\_PBI 00193268, AMNH\_PBI 00193273) (NTM). 2 mi S of Barrow Creek, 21.512°S 133.95°E, 13 Feb 1966, Britton, Upton & McInnes, ♂ (AMNH\_PBI 00033874) (ANIC). 4 mi. W. of Coolibah HS, 15.34°S 130.54°E, 17 m, 10 Sep 1964, A. Douglas, 2♀ (AMNH\_PBI 00030382, AMNH\_PBI 00030383) (WAMP). 4.6 km S of Renner Springs, 18.34735°S 133.81688°E, 08 Mar 1966, N. McFarland, ♀ (AMNH\_PBI 00028098), ♀ (AMNH\_PBI 00028095) (SAMA). 6.4 km WSW of Victoria River Downs, 16.427°S 130.957°E, 24 Jul 1973, L. P. Kelsey, ♂ (AMNH\_PBI 00033891) (ANIC). 10 mi NW of Yuenduni Creek bed, 20 Feb 1968, Unknown, 2♂ (AMNH\_PBI 00038905, AMNH\_PBI 00038906) (SAMA). 30 km S of Alice Springs, 23.89713°S 133.76049°E, 03 Nov 1974, E. Exley & R. Storey, *Eucalyptus gamophylla* F. Muell. (Myrtaceae), ♂ (AMNH\_PBI 00034183) (ANIC). Bullock Ck Camfield Hmsd, 17.16666°S 131.41666°E, 19 Aug 1982 - 20 Aug 1982, I. Archibald, ♀ (AMNH\_PBI 00193270) (MNT), ♀ (AMNH\_PBI 00193272) (NTM). Caranbirini Waterhole, 33km SW of Borroloola, 16.16°S 136.05°E, 03 Nov 1975, M. S. Upton, ♀ (AMNH\_PBI 00033894) (ANIC). Coolibah Ck., 19 km WNW Top Springs, 16.45°S 131.65416°E, 03 Jun 1998, J.D. Oswald, ♂ (AMNH\_PBI 00046014), 5♀ (AMNH\_PBI 00046016-AMNH\_PBI 00046020) (TAMU). Illungnarra WH 90km SW by S of Urandangi, 22.18°S 137.52°E, 15 Oct 1978, M. S. Upton, ♂ (AMNH\_PBI 00034179), 2♀ (AMNH\_PBI 00034140, AMNH\_PBI 00033883) (ANIC). Katherine, 14.467°S 132.267°E, 17 Aug 1973 - 18 Aug 1973, L. P. Kelsey, ♂ (AMNH\_PBI 00033885), ♀ (AMNH\_PBI 00033886) (ANIC). Katherine River, 25km NE Katherine, 03 Oct 1977, G. F. Gross & J. A. Forrest, 3♂ (AMNH\_PBI 00028094, AMNH\_PBI 00038909, AMNH\_PBI 00029100), ♀ (AMNH\_PBI 00038908) (SAMA). Lake Woods, 15 km SW Elliot, 17.70028°S 133.46661°E, 05 Oct 1977, G. F. Gross, ♂ (AMNH\_PBI 00029090) (SAMA). Limestone Gorge, 16.03333°S 130.38333°E, 23 Jun 1986 - 26 Jun 1986, M. B. Malipatil, ♂ (AMNH\_PBI 00193274) (NTM). N.T. Top Humbert Yard on Humbert River, 16.43333°S 130.46666°E, 08 Jul 1986 - 10 Jul 1986, I. Archibald, ♀ (AMNH\_PBI 00193269), ♂ (AMNH\_PBI 00193275) (NTM). Palm Valley, 23 May 1983, G. A. Holloway, ♀ (AMNH\_PBI 00019065) (AM). Plenty Hwy, 268 km ENE of Alice Springs, 22.81163°S 136.27945°E, 14 Oct 1978, M. S. Upton, 2♀ (AMNH\_PBI 00033863, AMNH\_PBI 00033865) (ANIC). Standley Chasm, 26 mi W of Alice Springs, 23.716°S 133.47°E, 09 Feb 1966, Britton, Upton & McInnes, ♂ (AMNH\_PBI 00034134) (ANIC). **Queensland:** 3km NE Mt. Webb, 15.05°S 145.15°E, 01 Oct 1980 - 30 Oct 1980, J. C. Cardale, ♀ (AMNH\_PBI 00033881) (ANIC); 01 Oct 1980 - 03 Oct 1980, T. Weir, 2♂ (AMNH\_PBI 00033888, AMNH\_PBI 00033889), ♀ (AMNH\_PBI 00033890) (ANIC); 30 Apr 1981 - 03 May 1981, A. Calder, ♀ (AMNH\_PBI 00033861), ♂ (AMNH\_PBI 00033887) (ANIC). 7 km N of Hope Vale Mission, 15.2398°S 145.1084°E, 04 Oct 1980, T. Weir, 2♂ (AMNH\_PBI 00033876, AMNH\_PBI 00033884) (ANIC). 24.7 km W of Mitchell, 26.4881°S 147.7384°E, 490 m, 31 Oct 1998, Schuh, Cassis, Silveira, *Eucalyptus camaldulensis* Dehnh. (Myrtaceae), det. Det: Royal Bot Gard. NSW NSW427491, ♀ (AMNH\_PBI 00017878) (AM). 62.8 km [39 mi] of Emerald, 23.55139°S 148.76564°E, 29 Dec 1974, R. I. Storey, *Eucalyptus* sp. (Myrtaceae), ♀ (AMNH\_PBI 00034182) (ANIC). Blackdown Tableland, 23.8°S 149.1333°E, 17 Jan 1987, M.S. & B.J. Moulds, ♀ (AMNH\_PBI 00033868) (ANIC). Boothill Creek, 80 m S of Mackay, 21.86667°S 148.88333°E, 237 m, 24 May 1968, G. Monteith, 2♂ (AMNH\_PBI 00201849, AMNH\_PBI 00201851) (QM), ♂ (AMNH\_PBI 00201848) (SAMA). Bunya Mts, Mowbullan, 26.85°S 151.56666°E, 07 Jan 1970, G. A. Holloway, ♂ (AMNH\_PBI 00019250) (AM). Cunnamulla, 28.071°S 145.685°E, Feb 1941, N. Geary, ♀ (AMNH\_PBI 00019199) (AM). Prince Henry Heights, Toowoomba, 27.33°S 151.59°E, 620 m, 10 Jan 1983, I. F. B. Common, ♂ (AMNH\_PBI 00033866) (ANIC); 20 Jan 1983, I. F. B. Common, ♀ (AMNH\_PBI 00033903) (ANIC); 05 Apr 1983, I. F. B. Common, ♀ (AMNH\_PBI 00034180) (ANIC); 08 Mar 1984, I. F. B. Common, ♀ (AMNH\_PBI 00034181) (ANIC). Roma, 26.563°S 148.805°E, 30 Mar 1964, G. B. Monteith, ♂ (AMNH\_PBI 00201852) (QM). Thornton River, 60 ml NE of Camooweal, 19.56667°S 138.4°E, 240 m, 18 May 1972, G. B. & S. R. Monteith, 4♂ (AMNH\_PBI 00201847, AMNH\_PBI 00201844-AMNH\_PBI 00201846), ♀ (AMNH\_PBI 00201850) (QM). Warwick, 28.218°S 152.026°E, 27 Jan 1964, G. Monteith, ♂ (AMNH\_PBI 00201843) (QM). [Lam. Nat. Pk], 03 Feb 1963, G. Monteith, ♂ (AMNH\_PBI 00201853) (QM). ca. 16 km SSW Lakeland, 15.98861°S 144.77°E, 29 May 1998, J.D. Oswald, ♂ (AMNH\_PBI 00046013), ♀ (AMNH\_PBI 00046015) (TAMU). **South Australia:** 1 mi E of Mt Lofty, nr Picadilly, 34.9831°S 138.70406°E, 03 Jan 1974, P. B. McQuillan, ♂ (AMNH\_PBI

00029101), ♀ (AMNH\_PBI 00028099) (SAMA). 10mi NW Arkaroola, 30.28333°S 139.26667°E, 710 m, 29 Oct 1969, N. McFarland, ♂ (AMNH\_PBI 00028106) (SAMA). Aldgate, 20 km E of Adelaide, 35.01667°S 138.73333°E, 400 m, 31 Dec 1960 - 01 Jan 1961, J.L. and M. Gressitt, ♂ (AMNH\_PBI 00045841) (BPBM). Anajatra, Mann Ranges, 26.1°S 130.08333°E, 728 m, 10 May 1983 - 11 May 1983, G. A. Holloway, ♂ (AMNH\_PBI 00019227) (AM). Cadelga Homestead, 26.08949°S 140.4106°E, 150 m, 04 Nov 1998, Schuh, Cassis, Silveira, Light Trap, ♂ (AMNH\_PBI 00019306) *Eucalyptus camaldulensis* Dehnh. (Myrtaceae), det. Det: Royal Bot Gard. NSW NSW427487, ♀ (AMNH\_PBI 00019069) (AM). Leigh Creek, 30.541°S 138.473°E, 03 Jan 1967, G. C. Gregory, ♀ (AMNH\_PBI 00033862) (ANIC). Scorpion Springs C.P., Western Part of Park, 35.532°S 140.204°E, 16 Jan 1983, Unknown, ♀ (AMNH\_PBI 00028100) (SAMA). Tomkinson Ranges, Teizi Soak, 26.15°S 129.43333°E, 644 m, 12 May 1983, G. A. Holloway, ♀ (AMNH\_PBI 00019068) (AM). Upper Sturt, Mt. Lofty Ra., 34.98333°S 138.7°E, 310 m, 11 Feb 1977, P. B. McQuillan, ♂ (AMNH\_PBI 00038913) (SAMA). Windy Creek, just below Aroona Dam., 10 km SW Copley, 30.63481°S 138.39509°E, 24 Nov 1975, G. F. Gross, ♂ (AMNH\_PBI 00038912) (SAMA). Wilpena Pound, Flinders Ranges, 31.85591°S 138.46808°E, 525 m, 20 Jan 1976, M.S. & B.J. Moulds, ♀ (AMNH\_PBI 00019221) (AM). **Tasmania:** Arve River T. 23, 43.135°S 146.8047°E, 123 m, Feb 1963, I. F. B. Common & M. S. Upton, 4♂ (AMNH\_PBI 00033852-AMNH\_PBI 00033855), 2♀ (AMNH\_PBI 00033856, AMNH\_PBI 00033902) (ANIC). **Victoria:** Mt. Pinnibar, 36.53551°S 148.00331°E, 1143 m, 09 Mar 1967, K. R. Norris, ♂ (AMNH\_PBI 00034137), ♀ (AMNH\_PBI 00034137) (ANIC). Wyperfeld [Wyperfield] National Park, 35.64836°S 141.73279°E, 113 m, 08 Dec 1928, G. Daniels, ♂ (AMNH\_PBI 00020164) (AM). **Western Australia:** 1 km N of Millstream, 21.35°S 117.04°E, 28 Oct 1970, Upton & Feehan, 2♂ (AMNH\_PBI 00033857, AMNH\_PBI 00033882), ♀ (AMNH\_PBI 00033879) (ANIC). 30 E Norseman, 26 Oct 1958, E. F. Riek, ♂ (AMNH\_PBI 00033908) (ANIC). 39.7 km N of Ravensthorpe, 33.32199°S 119.82°E, 500 m, 06 Dec 1997, Schuh, Cassis, Brailovsky, Asquith, *Eucalyptus pleurocarpa* Schauer (Myrtaceae), 1sex unknown (AMNH\_PBI 00019200), 2juvenile (AMNH\_PBI 00019201, AMNH\_PBI 00019202), 3♂ (AMNH\_PBI 00019204, AMNH\_PBI 00019205, AMNH\_PBI 00019203), 4♀ (AMNH\_PBI 00019206-AMNH\_PBI 00019209) (AM). 80 km W of Esperance, 21.86667°S 148.88333°E, 237 m, 20 Dec 1985, C. Reid, 2♀ (AMNH\_PBI 00033858, AMNH\_PBI 00033859) (ANIC); 27 Dec 1985, C. Reid, ♀ (AMNH\_PBI 00033878) (ANIC). 81 km E of Norseman, 32.07347°S 122.6166°E, 600 m, 23 Oct 1996, Schuh and Cassis, *Eucalyptus* sp. (Myrtaceae), det. PERTH staff PERTH 05056233, 10♂ (AMNH\_PBI 00019169-AMNH\_PBI 00019177, AMNH\_PBI 00019179), 6♀ (AMNH\_PBI 00019181-AMNH\_PBI 00019185, AMNH\_PBI 00019180) (AM). Bunbury, 33.32711°S 115.63699°E, Jan 1954, A. Snell, ♂ (AMNH\_PBI 00019247) (AM). Crossing Pool, Millstream, 21.58074°S 117.09288°E, 21 Oct 1970, J. C. Cardale, 4♀ (AMNH\_PBI 00033895-AMNH\_PBI 00033898) (ANIC). Drysdale River, 15.02°S 126.55°E, 03 Aug 1975 - 08 Aug 1975, I. F. B. Common & M. S. Upton, ♀ (AMNH\_PBI 00033892) (ANIC). Eradu [Eradu Siding], 28.7°S 115.03333°E, 115 m, 08 Sep 1926, Nicholson, ♂ (AMNH\_PBI 00033864) (ANIC). Fitzgerald River National Park, Hammersley Road, 33.90674°S 119.9567°E, 280 m, 06 Dec 1997, Schuh, Cassis, Brailovsky, Asquith, *Eucalyptus pleurocarpa* Schauer (Myrtaceae), ♂ (AMNH\_PBI 00019189), 3♀ (AMNH\_PBI 00019191-AMNH\_PBI 00019193) (AM). Fitzgerald River National Park, Hammersley Road, 33.81038°S 119.787°E, 215 m, 06 Dec 1997, Schuh, Cassis, Brailovsky, Asquith, ♀ (AMNH\_PBI 00019066) *Eucalyptus pleurocarpa* Schauer (Myrtaceae), ♂ (AMNH\_PBI 00019190), ♀ (AMNH\_PBI 00019188) (AM). Fremantle, 32.05442°S 115.74705°E, 15 Dec 1983, K. R. Norris, 1juvenile (AMNH\_PBI 00033880) (ANIC). Kelmscott High School, Perth, 32.12°S 116.01°E, 30 Nov 1977, A. Page, ♂ (AMNH\_PBI 00030369) (WAMP); 17 Jan 1978, A. Page, ♂ (AMNH\_PBI 00030376), ♀ (AMNH\_PBI 00030377) (WAMP). Kimberley, Lennard River, Xing Gibb River Road, 17.23°S 124.44°E, 08 Apr 1988, T. F. Houston, ♂ (AMNH\_PBI 00030372), 2♀ (AMNH\_PBI 00030374, AMNH\_PBI 00030375) (WAMP); 14 Jul 1988 - 28 Jul 1988, T. F. Houston, ♀ (AMNH\_PBI 00030373) (WAMP). Kojonup, 33.83333°S 117.15°E, 03 Jan 1979, R. P. McMillan, 2♀ (AMNH\_PBI 00030371, AMNH\_PBI 00030370) (WAMP). Lake Magenta Road, 32 km N of South Coast Hiway, 33.53838°S 119.2562°E, 250 m, 07 Dec 1997, Schuh, Cassis, Brailovsky, Asquith, *Eucalyptus pleurocarpa* Schauer (Myrtaceae), ♂ (AMNH\_PBI 00019178) (AM). Millstream National Park, Pipeline Rd, 21.34°S 117.05°E, 09 May 2003, A. Zwick, A. Slipinski, and K. Pullen, Light Trap, ♂ (AMNH\_PBI 00034064) (ANIC). Morgan Falls, 15.02°S 126.4°E, 16 Aug 1975 - 17 Aug 1975, I. F. B. Common & M. S. Upton, ♀ (AMNH\_PBI 00033893) (ANIC).

Nangarup, Jct. of Doyle Road and Springdale Road, 33.82061°S 120.8682°E, 60 m, 27 Nov 1999, R.T. Schuh, G. Cassis and R. Silveira, *Eucalyptus pleurocarpa* Schauer (Myrtaceae), ♂ (AMNH\_PBI 00019291) *Eucalyptus pleurocarpa* Schauer (Myrtaceae), det. Perth staff PERTH 05613213, 2♀ (AMNH\_PBI 00019302, AMNH\_PBI 00019303) (AM). Pallarup Nature Reserve, 2.5 km W of Lake King-Ravensthorpe Road, 33.24958°S 119.7181°E, 390 m, 05 Dec 1997, Schuh, Cassis, Brailovsky, Asquith, *Eucalyptus pleurocarpa* Schauer (Myrtaceae), det. PERTH staff PERTH 05055512, 4♂ (AMNH\_PBI 00019210-AMNH\_PBI 00019213), 2♀ (AMNH\_PBI 00019214, AMNH\_PBI 00019195) (AM). West Beach, Fitzgerald River National Park, 33.95175°S 119.9769°E, 20 m, 28 Nov 1999, R.T. Schuh, G. Cassis and R. Silveira, *Eucalyptus pleurocarpa* Schauer (Myrtaceae), det. Perth staff PERTH 05613213, ♂ (AMNH\_PBI 00019299), 2♀ (AMNH\_PBI 00019300, AMNH\_PBI 00019301) (AM). [Coralling up R.], Mar 1974, F. H. Uther Baker, ♀ (AMNH\_PBI 00028101) (SAMA). **unknown:** [Launcling Place], 24 Apr 1961, Unknown, ♂ (AMNH\_PBI 00029108) (MVMA).

***Rayieria decorata*, sp. nov.**

*Paratypes.* **AUSTRALIA: Western Australia:** 0.6 km S of Eneabba on Brand Hiway, 29.82335°S 115.2585°E, 100 m, 31 Oct 1996, Schuh and Cassis, *Micromyrtus hursthousei* W. Fitzg. (Myrtaceae), det. PERTH staff PERTH 05120241, ♀ (AMNH\_PBI 00019070) (AM), *Micromyrtus hursthousei* W. Fitzg. (Myrtaceae), det. PERTH staff PERTH 05120241, ♀ (AMNH\_PBI 00030504) (WAMP). 1 km E of Grey Rd on Ajana Rd, on southern boundary of Kalbarri National Park, 27.87052°S 114.1667°E, 197 m, 23 Oct 2004, Cassis, Wall, Weirauch, Symonds, *Scholtzia umbellifera* (Myrtaceae), det. PERTH staff PERTH6987982, ♀ (AMNH\_PBI 00019351) (AM), *Scholtzia umbellifera* (Myrtaceae), det. PERTH staff PERTH6987982, 2♀ (AMNH\_PBI 00020198, AMNH\_PBI 00030491) (WAMP). 6.5 km NE of Fisheries Road on Balladonia Road, 33.72415°S 123.1123°E, 120 m, 25 Nov 1999, R.T. Schuh, G. Cassis and R. Silveira, *Darwinia vestita* (Endl.) Benth. (Myrtaceae), det. Perth staff PERTH 05671698, ♀ (AMNH\_PBI 00030505) (WAMP). 18 km E Northam, 31.64037°S 116.84594°E, 01 Nov 1963, J. Sedlacek, ♀ (AMNH\_PBI 00042329) (BPBM). 28 km S of Menzies (3.5 km E of Hiway), 29.91917°S 121.1514°E, 500 m, 25 Oct 1996, Schuh and Cassis, *Calytrix angulata* Lindl. (Myrtaceae), det. PERTH staff PERTH 05099706, ♂ (AMNH\_PBI 00019404) *Calytrix angulata* Lindl. (Myrtaceae), det. PERTH staff PERTH 05099706, ♂ (AMNH\_PBI 00019366), 4♀ (AMNH\_PBI 00019372-AMNH\_PBI 00019374, AMNH\_PBI 00019403), 1juvenile (AMNH\_PBI 00019376) *Homalocalyx grandiflorus* (Myrtaceae), det. PERTH staff PERTH 05099935, ♂ (AMNH\_PBI 00019361), ♀ (AMNH\_PBI 00019369) (AM), *Calytrix angulata* Lindl. (Myrtaceae), det. PERTH staff PERTH 05099706, ♂ (AMNH\_PBI 00030495), 3♀ (AMNH\_PBI 00030494, AMNH\_PBI 00030494, AMNH\_PBI 00030492) (WAMP). 49 km S Eneabba, Coomallo Rest Area, jct of Brand Hiway and Jurien East Rd, 30.22339°S 115.3982°E, 162 m, 21 Oct 2004, Cassis, Wall, Weirauch, Symonds, *Thryptomene hyporhytis* Turcz. (Myrtaceae), det. PERTH staff PERTH6986900, ♂ (AMNH\_PBI 00030506) (WAMP). Bencubbin, 30.80378°S 117.86396°E, 03 Oct 1983, R. P. McMillan, 3♀ (AMNH\_PBI 00030396-AMNH\_PBI 00030398), ♂ (AMNH\_PBI 00030399) (WAMP). Booloogooro HS, 24.65°S 113.7°E, 27 Aug 1980 - 29 Aug 1980, C.A.Howard & T.F.Houston, *Verticordia forrestii* (Myrtaceae), ♂ (AMNH\_PBI 00030402), 3♀ (AMNH\_PBI 00030403-AMNH\_PBI 00030405) (WAMP). Brand Hiway 45.9 km S of Dongarra Road, 29.57703°S 115.1348°E, 100 m, 31 Oct 1996, Schuh and Cassis, *Micromyrtus hursthousei* W. Fitzg. (Myrtaceae), det. PERTH staff PERTH 05120241, ♀ (AMNH\_PBI 00030490) (WAMP). Kalbarri National Park, 7 km E of Kalbarri, 27.68008°S 114.2386°E, 400 m, 29 Oct 1996, Schuh and Cassis, *Calytrix variabilis* Lindl. (Myrtaceae), det. Perth staff PERTH 05120470, ♀ (AMNH\_PBI 00019377) (AM). Karara, N of Emu Fence on track to Corner Well, 29.16833°S 116.66633°E, 268 m, 20 Sep 2009, C. Symonds, *Homalocalyx aureus* (Myrtaceae), det. WA Herbarium, ♀ (AMNH\_PBI 00030507) (WAMP). Lochada, 6.13km SE Boiada Camp, 29.24582°S 116.54328°E, 299 m, 15 Sep 2009, C. Lambkin & G. Monteith, ♀ (AMNH\_PBI 00400382) (UNSW), ♀ (AMNH\_PBI 00030508) (WAMP). Mt. Lindesay, 23 km NW of Denmark, 34.85058°S 117.2767°E, 100 m, 17 Dec 1997, Schuh, Cassis, Brailovsky, *Taxandria* sp. (Myrtaceae), det. PERTH staff PERTH 05095360, ♂ (AMNH\_PBI 00019405) (AM). Southern Cross, 31.21666°S 119.33333°E, 25 Oct 1981, R. P. McMillan, 2♀ (AMNH\_PBI 00030400, AMNH\_PBI 00030401) (WAMP). Wialki, 30.48527°S 118.11666°E, 20 Oct 1981, R. P. McMillan, ♂



(AMNH\_PBI 00030394), ♀ (AMNH\_PBI 00030395) (WAMP). Yalgorup National Park, 32.845°S 115.66138°E, 27 Nov 1998, G. Cassis, ♂ (AMNH\_PBI 00019379) (AM).

*Other specimens examined.* **AUSTRALIA: Western Australia:** 28 km S of Menzies (3.5 km E of Hiway), 29.91917°S 121.1514°E, 500 m, 25 Oct 1996, Schuh and Cassis, *Calytrix angulata* Lindl. (Myrtaceae), det. PERTH staff PERTH 05099706, ♀ (AMNH\_PBI 00030493) (WAMP).

***Rayieria frontalis*, sp. nov.**

*Paratypes.* **AUSTRALIA: Queensland:** Glamorgan, 27.51519°S 152.6327°E, 28 Mar 1964, C. Hembrow, ♂ (AMNH\_PBI 00019380) (AM). **South Australia:** Gawler Ranges, 4 km SW Scrubby Peak, 32.64°S 135.134°E, 12 Dec 1989, J. A. Forrest, Light Trap, ♂ (AMNH\_PBI 00029093) (SAMA). Leigh Creek, 30.541°S 138.473°E, Oct 1964 - Mar 1965, G. C. Gregory, ♂ (AMNH\_PBI 00034071) (ANIC). **Western Australia:** 2 km N of Canegrass [Cane Grass] Swamp, 30.11°S 121.1°E, 25 Sep 1995, M. S. & B. J. Moulds & K. A. Kopestonsky, ♀ (AMNH\_PBI 00019368) (AM). 70 km NNW of Kalgoorlie, 30.18333°S 121.16666°E, 11 Nov 1977, T. Weir, ♂ (AMNH\_PBI 00034070) (ANIC). Buningonia Spring (Well), 31.43333°S 123.55°E, 18 Nov 1978 - 25 Nov 1978, T. F. Houston et al, Light Trap, 2♀ (AMNH\_PBI 00030406, AMNH\_PBI 00030407), ♂ (AMNH\_PBI 00030408) (WAMP). Moir's Rock 42 km NNW Salmon Gums, 32.65°S 121.41666°E, 03 Jan 1987, G. and A. Daniels, ♂ (AMNH\_PBI 00201854), ♀ (AMNH\_PBI 00201855) (QM).

***Rayieria gearyi*, sp. nov.**

*Paratypes.* **AUSTRALIA: Queensland:** Thargomindah, 27.99008°S 143.81978°E, Apr 1941, N. Geary, 4♂ (AMNH\_PBI 00019357, AMNH\_PBI 00019359, AMNH\_PBI 00019360, AMNH\_PBI 00019362), ♀ (AMNH\_PBI 00019358) (AM). **Western Australia: Pilbara Co.:** 19.7 km E of 'Onslow Rd' on Nth Coast Hwy, 22.00344°S 115.62308°E, 80 m, 29 Aug 2005, G. Cassis, S. Lassau, S. and G. Carter, *Acacia ancistrocarpa* Maiden & Blakely (Fabaceae), det. Field ID, 4♂ (AMNH\_PBI 00019308, AMNH\_PBI 00019310, AMNH\_PBI 00019312, AMNH\_PBI 00030512), 9♀ (AMNH\_PBI 00019316, AMNH\_PBI 00019317, AMNH\_PBI 00019319-AMNH\_PBI 00019324, AMNH\_PBI 00030515), 1juvenile (AMNH\_PBI 00019326), 1sex unknown (AMNH\_PBI 00019327) (AM), *Acacia ancistrocarpa* Maiden & Blakely (Fabaceae), det. Field ID, 3♂ (AMNH\_PBI 00030509-AMNH\_PBI 00030511), 2♀ (AMNH\_PBI 00030513, AMNH\_PBI 00030514) (WAMP). 45 km W of Tom Price on Nanutarra Rd, 22.96088°S 117.33425°E, 386 m, 27 Aug 2005, G. Cassis, S. Lassau, S. and G. Carter, *Acacia coriacea* DC. *subsp. pendens* (Fabaceae), det. Perth staff PERTH 7300379, 2♂ (AMNH\_PBI 00019394, AMNH\_PBI 00019395), 2♀ (AMNH\_PBI 00019398, AMNH\_PBI 00019396), 1juvenile (AMNH\_PBI 00019401) (AM), *Acacia coriacea* DC. *subsp. pendens* (Fabaceae), det. Perth staff PERTH 7300379, ♂ (AMNH\_PBI 00030516), ♀ (AMNH\_PBI 00030517) (WAMP). 64 km ESE of Onslow, 22.02605°S 115.41216°E, 67 m, 29 Aug 2005, G. Cassis, S. Lassau, S. and G. Carter, *Acacia ancistrocarpa* Maiden & Blakely (Fabaceae), det. Perth staff PERTH 7250592, 2♂ (AMNH\_PBI 00019329, AMNH\_PBI 00019330), 2♀ (AMNH\_PBI 00019315, AMNH\_PBI 00019333) (AM), *Acacia ancistrocarpa* Maiden & Blakely (Fabaceae), det. Perth staff PERTH 7250592, 2♂ (AMNH\_PBI 00030519, AMNH\_PBI 00030520), ♀ (AMNH\_PBI 00030518) (WAMP). 247 km W of Tom Price on Nanutarra Rd, 22.43425°S 115.90172°E, 155 m, 28 Aug 2005, G. Cassis, S. Lassau, S. and G. Carter, 1juvenile (AMNH\_PBI 00019335) (AM), 1juvenile (AMNH\_PBI 00030521) (WAMP). Approx. 26 km N of Hamersley on Railway Rd, right side of rd., 22.07027°S 117.70222°E, 27 May 2004, M. Bulbert, N. Tatarnic & D. Britton, ♂ (AMNH\_PBI 00019400) (AM); 06 Jun 2004, M. Bulbert, N. Tatarnic and S. Lassau, 2♀ (AMNH\_PBI 00020177, AMNH\_PBI 00020181) (AM). 12.5km SSE of Banjiwam HS, 27.7°S 121.61666°E, 22 Feb 1980 - 28 Feb 1980, T. F. Houston et al, Light Trap, ♂ (AMNH\_PBI 00030412) (WAMP). 101 km SE by E Broome, 18.45°S 123.05°E, 19 Aug 1976, I. F. B. Common, 4♂ (AMNH\_PBI 00034068, AMNH\_PBI 00034069, AMNH\_PBI 00034139, AMNH\_PBI 00034144) (ANIC). Cadjeput Rockhole, 21.53194°S 119.14916°E, 29 Sep 1988, B.P. Hanich et al., ♀ (AMNH\_PBI 00030392) (WAMP). Kathleen Valley, 27.51666°S 120.56666°E, 1963, T. Moriarty, ♂

(AMNH\_PBI 00030393) (WAMP). Kimberley Dist., Dampier Peninsula, 12.9 km W of Cape Leveque Rd, 17.09509°S 122.4768°E, 130 m, 19 May 1999, G.Cassis, R.Silveira, Light Trap, ♂ (AMNH\_PBI 00019229) (AM). Nangarup, Jct. of Doyle Road and Springdale Road, 33.82061°S 120.8682°E, 60 m, 27 Nov 1999, R.T. Schuh, G. Cassis and R. Silveira, *Eucalyptus pleurocarpa* Schauer (Myrtaceae), det. PERT staff PERTH 05613213, 1juvenile (AMNH\_PBI 00019385) (AM). Pilbara region, Juna Downs Station, Juna Downs Rd to Packsaddle Bore, 5km E of homestead, 22.87183°S 118.52483°E, 23 Sep 2005 - 28 Sep 2005, CVA volunteers, 2♂ (AMNH\_PBI 00020179, AMNH\_PBI 00020180) (AM). Python Pool, 4 mi E of Mt Herbert, 21.33333°S 117.21667°E, 286 m, 28 Jul 1964, P. B. Carne, Light Trap, ♂ (AMNH\_PBI 00034138) (WAMP).

***Rayieria grandiocula*, sp. nov.**

**Paratypes. AUSTRALIA: New South Wales:** Bogan River, 33.0068°S 148.03461°E, J. Armstrong, 2♀ (AMNH\_PBI 00019255) (AM); 23 Nov 1931, J. Armstrong, ♂ (AMNH\_PBI 00019254), ♀ (AMNH\_PBI 00019254) (AM). Yagobie Crossing, 29.53333°S 150.25°E, 282 m, 16 Jan 1952, A. Dyce, ♂ (AMNH\_PBI 00034056) (ANIC). **South Australia:** Eringunda Valley, Flinders Ranges, 31.35363°S 138.60191°E, 06 Mar 1973, E. G. Matthews, ♂ (AMNH\_PBI 00038907) (SAMA). **Victoria:** Benalla, 36.551°S 145.979°E, 18 Feb 1967, G. B. Monteith, 3♂ (AMNH\_PBI 00201840, AMNH\_PBI 00201856, AMNH\_PBI 00201857) (QM). **Western Australia:** 46.5 km W of Yalgoo, 28.41302°S 116.2151°E, 600 m, 27 Oct 1996, Schuh and Cassis, Light Trap, ♀ (AMNH\_PBI 00030497) (WAMP).

***Rayieria kennedyi*, sp. nov.**

**Paratypes: AUSTRALIA: Western Australia: Pilbara Co.:** 175 km W of Tom Price on Nanutarra Rd, 22.72841°S 116.435°E, 224 m, 28 Aug 2005, G. Cassis, S. Lassau, S. and G. Carter, 1juvenile (AMNH\_PBI 00019551) (AM), ♀ (AMNH\_PBI 00400487) (UNSW). 247 km W of Tom Price on Nanutarra Rd, 22.43425°S 115.90172°E, 155 m, 28 Aug 2005, G. Cassis, S. Lassau, S. and G. Carter, 3♂ (AMNH\_PBI 00019557, AMNH\_PBI 00019559, AMNH\_PBI 00020208), ♀ (AMNH\_PBI 00019563), 3juvenile (AMNH\_PBI 00019198, AMNH\_PBI 00019553, AMNH\_PBI 00019402), ♀ (AMNH\_PBI 00019251) (AM). Hamersley-Mt. Bruce Rd. 55km W of Mt Bruce, 4km SW along track next to pipeline, 22.53027°S 117.93305°E, 01 Jun 2004, M. Bulbert, N. Tatarnic and S. Lassau, ♂ (AMNH\_PBI 00020178) (AM). Fowlers Camp (at end of Fowlers Camp Rd), Shark Bay World Heritage Area, 26.10801°S 113.6167°E, 24 Oct 2004, Cassis, Wall, Weirauch, Symonds, ♀ (AMNH\_PBI 00005231) (AMNH). NW Coastal Hiway 61.7 km N of Kalbarri Rd, 27.41007°S 114.664°E, 500 m, 30 Oct 1996, Schuh and Cassis, *Mirbelia* sp. (Papilionaceae), det. PERTH staff PERTH 05120268, 2♀ (AMNH\_PBI 00019569, AMNH\_PBI 00019393), 1sex unknown (AMNH\_PBI 00019568), ♂ (AMNH\_PBI 00019572) *Mirbelia* sp. (Papilionaceae), det. PERTH staff PERTH 05120268, 4♂ (AMNH\_PBI 00019388-AMNH\_PBI 00019391), ♀ (AMNH\_PBI 00019392) (AM), *Mirbelia* sp. (Papilionaceae), det. PERTH staff PERTH 05120268, 2♂ (AMNH\_PBI 00030535, AMNH\_PBI 00030536) (WAMP). ca. 107.7 km SE of North West Coastal Hiway, on Mardathuna Rd (W of Kennedy Range National Park), 24.66376°S 114.7821°E, 163 m, 01 Nov 2004, Cassis, Wall, Weirauch, Tatarnic, Symonds, *Acacia sclerosperma subsp. sclerosperma* (Fabaceae), det. PERTH staff PERTH6990169, 3♀ (AMNH\_PBI 00019144, AMNH\_PBI 00019561, AMNH\_PBI 00019408), 1juvenile (AMNH\_PBI 00019570), 3♂ (AMNH\_PBI 00019560, AMNH\_PBI 00005241, AMNH\_PBI 00019562) *Mirbelia* sp. *Carnarvon* (J.S. Beard 6008) (Papilionaceae), det. PERTH staff PERTH6990320, 5♂ (AMNH\_PBI 00020195, AMNH\_PBI 00019406, AMNH\_PBI 00019565, AMNH\_PBI 00018485, AMNH\_PBI 00020211), 2♀ (AMNH\_PBI 00020211, AMNH\_PBI 00019222) (AM), 1juvenile (AMNH\_PBI 00005229) *Acacia sclerosperma subsp. sclerosperma* (Fabaceae), det. PERTH staff PERTH6990169, 2♀ (AMNH\_PBI 00005232, AMNH\_PBI 00005234), 2♂ (AMNH\_PBI 00005236, AMNH\_PBI 00005239) *Mirbelia* sp. *Carnarvon* (J.S. Beard 6008) (Papilionaceae), det. PERTH staff PERTH6990320, 4♂ (AMNH\_PBI 00005223, AMNH\_PBI 00005222, AMNH\_PBI 00005221, AMNH\_PBI 00005220), 4♀ (AMNH\_PBI 00005225, AMNH\_PBI 00005227, AMNH\_PBI 00005228, AMNH\_PBI 00005230) (AMNH), *Acacia sclerosperma subsp. sclerosperma* (Fabaceae), det. PERTH staff PERTH6990169, ♀

(AMNH\_PBI 00400461), 2♂ (AMNH\_PBI 00400486, AMNH\_PBI 00005240) (UNSW), *Acacia sclerosperma* subsp. *sclerosperma* (Fabaceae), det. PERTH staff PERTH6990169, 5♀ (AMNH\_PBI 00030523, AMNH\_PBI 00030524, AMNH\_PBI 00030532, AMNH\_PBI 00030529, AMNH\_PBI 00030520), ♂ (AMNH\_PBI 00030525) *Mirbelia* sp. *Carnarvon* (J.S. Beard 6008) (Papilionaceae), det. PERTH staff PERTH6990320, 3♂ (AMNH\_PBI 00030526, AMNH\_PBI 00030527, AMNH\_PBI 00030531), 3♀ (AMNH\_PBI 00030531, AMNH\_PBI 00030534, AMNH\_PBI 00030528) (WAMP).

***Rayieria minuta***, sp. nov.

*Paratypes.* **AUSTRALIA: Western Australia:** Pilbara region, Hamersley Gorge, upstream, 22.25516°S 117.98483°E, 08 Jun 2004, M. Bulbert, N. Tatarnic and S. Lassau, ♀ (AMNH\_PBI 00020185) (AM). Pilbara region, Nanutarra-Wittenoom Rd., 1.7km N of Hamersley Rd. turnoff, 22.22566°S 117.96833°E, 30 May 2004, M. Bulbert, N. Tatarnic & D. Britton, ♀ (AMNH\_PBI 00030496) (WAMP).

***Rayieria queenslandica***, sp. nov.

*Paratypes.* **AUSTRALIA: New South Wales:** Grenfell, 33.87782°S 148.16494°E, 1918, W. W. Froggatt, ♀ (AMNH\_PBI 00019256) (AM), ♀ (AMNH\_PBI 00033909), 3♂ (AMNH\_PBI 00033909, AMNH\_PBI 00033911), 1sex unknown (AMNH\_PBI 00019256) (ANIC). **Queensland:** 174 Jesmond Road, Brisbane, 27.51278°S 152.96283°E, 30 Oct 1990, G. M. Chamberlain, ♂ (AMNH\_PBI 00019228) (TAMU). Carnarvon Gorge NP, 25.03333°S 148.23333°E, 29 Nov 1993, G. Cassis, Light Trap, ♂ (AMNH\_PBI 00019382), ♀ (AMNH\_PBI 00020182) (AM).

***Rayieria rubranigra***, sp. nov.

*Paratypes.* **AUSTRALIA: Northern Territory:** 30.4 km S of Bing Bong, 15.90631°S 136.33245°E, 15 m, 21 Apr 2009, Cassis, Tatarnic, Monteith, *Eucalyptus* sp. (Myrtaceae), ♂ (AMNH\_PBI 00020194) (UNSW). **Western Australia:** 10km NW by N of Mining Camp, Mitchell Plateau Kimberley Dist., 14.45°S 125.47°E, 17 May 1983, D.C.F. Rentz & J. Balderson, ♂ (AMNH\_PBI 00034072) (ANIC). near Mitchell Plateau Airfield, 14.48°S 125.49°E, 15 May 1983, I. D. Naumann & J. C. Cardale, Light Trap, ♂ (AMNH\_PBI 00034075) (ANIC).

**Table S2. Measurements of *Rayieria* species**

Species		Length					Width		
		Body	Cun-Clyp	Pronotum	AntSeg2	AntSeg1	Head	Pronotum	InterOcelli
<i>R. acacia</i>									
♂ (N=5)	Mean	7.47	5.23	1.19	3.86	2.46	1.21	1.53	0.62
	SD	0.26	0.08	0.02	0.38	0.13	0.03	0.07	0.04
	Range	0.59	0.19	0.04	1.03	0.33	0.08	0.16	0.11
	Min	7.16	5.16	1.16	3.28	2.30	1.17	1.46	0.58
	Max	7.75	5.35	1.20	4.31	2.62	1.26	1.63	0.68
♀ (N=5)	Mean	8.25	5.91	1.31	4.42	2.68	1.31	1.72	0.70
	SD	0.77	0.47	0.08	0.55	0.20	0.07	0.17	0.08
	Range	1.76	1.13	0.20	1.43	0.53	0.17	0.42	0.22
	Min	7.16	5.22	1.20	3.86	2.46	1.23	1.48	0.58
	Max	8.92	6.35	1.40	5.29	2.99	1.40	1.90	0.79
<i>R. albaornata</i>									
♂ (N=5)	Mean	6.87	4.73	1.13	3.13	1.83	1.12	1.60	0.68
	SD	0.31	0.29	0.06	0.25	0.24	0.05	0.07	0.03
	Range	0.80	0.75	0.17	0.69	0.62	0.11	0.17	0.06
	Min	6.59	4.39	1.02	2.84	1.47	1.07	1.52	0.66
	Max	7.39	5.14	1.19	3.53	2.09	1.18	1.69	0.72
♀ (N=5)	Mean	7.40	5.13	1.23	3.14	1.99	1.21	1.77	0.73
	SD	0.43	0.44	0.07	0.17	0.14	0.05	0.10	0.05
	Range	1.07	1.03	0.18	0.44	0.40	0.12	0.27	0.14
	Min	6.87	4.42	1.11	2.92	1.78	1.15	1.64	0.67
	Max	7.94	5.44	1.30	3.36	2.19	1.27	1.91	0.81
<i>R. basifer</i>									
♂ (N=5)	Mean	8.20	5.89	1.40	4.02	2.40	1.35	1.74	0.62
	SD	0.76	0.65	0.13	0.59	0.30	0.09	0.18	0.08
	Range	1.86	1.60	0.33	1.60	0.78	0.24	0.46	0.20
	Min	6.86	4.75	1.19	3.14	1.96	1.19	1.45	0.50
	Max	8.72	6.35	1.52	4.74	2.74	1.43	1.91	0.70
♀ (N=5)	Mean	8.68	6.21	1.38	4.09	2.42	1.33	1.81	0.67
	SD	1.00	0.63	0.15	0.85	0.53	0.11	0.15	0.07
	Range	1.98	1.23	0.41	2.07	1.31	0.29	0.39	0.16
	Min	7.51	5.47	1.17	3.36	1.99	1.22	1.59	0.61
	Max	9.49	6.70	1.58	5.44	3.30	1.50	1.98	0.78
<i>R. decorata</i>									
♂ (N=5)	Mean	6.08	4.12	0.98	0.91	1.87	1.31	0.55	1.87
	SD	1.04	0.75	0.12	0.01	0.31	0.07	0.02	0.31
	Range	2.68	1.90	0.32	0.04	0.75	0.16	0.04	0.75
	Min	5.12	3.44	0.81	0.89	1.62	1.25	0.53	1.62
	Max	7.80	5.34	1.13	0.93	2.37	1.41	0.57	2.37
♀ (N=5)	Mean	5.65	3.86	0.92	2.88	1.52	0.91	1.38	0.57
	SD	0.43	0.35	0.15	0.46	0.33	0.09	0.23	0.07
	Range	1.16	0.88	0.33	1.13	0.79	0.20	0.56	0.16
	Min	4.99	3.28	0.76	2.31	1.13	0.82	1.15	0.48
	Max	6.15	4.16	1.09	3.43	1.91	1.02	1.70	0.64
<i>R. frontalis</i>									
♂ (N=5)	Mean	7.29	5.16	1.24	3.48	1.60	1.18	1.44	0.59
	SD	0.37	0.29	0.09	0.07	0.14	0.04	0.03	0.02
	Range	0.83	0.68	0.24	0.15	0.32	0.09	0.08	0.05
	Min	6.82	4.82	1.13	3.42	1.42	1.13	1.39	0.57
	Max	7.66	5.50	1.37	3.57	1.74	1.22	1.47	0.62
♀ (N=5)	Mean	9.36	6.58	1.43	3.83	1.90	1.27	1.71	0.71
	SD	0.55	0.38	0.11	0.22	0.19	0.05	0.06	0.02
	Range	1.35	0.86	0.23	0.57	0.46	0.13	0.17	0.05
	Min	8.66	6.14	1.33	3.51	1.61	1.21	1.64	0.69

	Max	10.01	6.99	1.55	4.08	2.07	1.34	1.81	0.73
<i>R. gearyi</i>									
♂ (N=5)	Mean	7.11	4.66	0.94	3.28	1.87	1.11	1.44	0.56
	SD	0.51	0.40	0.06	0.24	0.25	0.06	0.16	0.03
	Range	1.03	0.88	0.14	0.52	0.59	0.16	0.38	0.09
	Min	6.52	4.20	0.85	2.93	1.61	1.02	1.25	0.52
	Max	7.55	5.08	0.99	3.45	2.19	1.18	1.63	0.61
♀ (N=5)	Mean	8.04	5.41	1.11	3.58	1.99	1.13	1.66	0.64
	SD	0.31	0.27	0.10	0.19	0.13	0.05	0.10	0.02
	Range	0.73	0.72	0.26	0.50	0.34	0.13	0.27	0.05
	Min	7.56	5.02	0.96	3.35	1.86	1.05	1.56	0.62
	Max	8.30	5.74	1.22	3.85	2.19	1.18	1.82	0.67
<i>R. grandiocula</i>									
♂ (N=5)	Mean	8.33	5.82	1.40	3.66	1.89	1.45	1.75	0.58
	SD	0.35	0.29	0.05	0.10	0.05	0.05	0.04	0.04
	Range	0.90	0.67	0.13	0.26	0.15	0.13	0.09	0.11
	Min	7.84	5.52	1.36	3.54	1.81	1.41	1.71	0.52
	Max	8.73	6.18	1.49	3.80	1.96	1.54	1.80	0.63
♀ (N=3)	F1	8.86	6.59	1.55	n/a	n/a	1.46	1.95	0.63
	F2	9.50	6.55	1.58	n/a	1.99	1.52	1.87	0.66
	F3	9.49	6.96	1.79	n/a	n/a	1.52	2.07	0.66
<i>R. kennedyi</i>									
♂ (N=5)	Mean	6.27	4.40	0.93	3.57	2.12	1.00	1.31	0.69
	SD	0.57	0.41	0.10	0.55	0.29	0.06	0.08	0.04
	Range	1.56	1.12	0.24	1.39	0.74	0.14	0.22	0.12
	Min	5.39	3.78	0.77	2.62	1.64	0.91	1.19	0.63
	Max	6.96	4.89	1.01	4.01	2.38	1.05	1.41	0.75
♀ (N=5)	Mean	7.31	5.10	1.09	3.66	2.26	1.05	1.51	0.64
	SD	0.68	0.50	0.11	0.37	0.32	0.06	0.13	0.26
	Range	1.64	1.20	0.29	0.83	0.83	0.17	0.33	0.61
	Min	6.12	4.21	0.92	3.21	1.75	0.95	1.30	0.20
	Max	7.76	5.41	1.21	4.04	2.57	1.12	1.63	0.81
<i>R. minuta</i>									
♂ (N=1)	M1	5.36	4.06	0.81	3.25	1.43	0.91	0.97	0.58
♀ (N=2)	F1	5.60	4.31	0.73	2.95	1.29	0.95	1.15	0.61
	F2	6.53	4.43	0.95	3.72	1.61	1.00	1.31	0.62
<i>R. queenslandica</i>									
♂ (N=4)	Mean	7.55	5.39	1.23	4.15	2.05	1.19	1.50	0.57
	SD	0.37	0.24	0.05	0.20	0.12	0.08	0.14	0.04
	Range	0.84	0.54	0.12	0.28	0.27	0.20	0.34	0.09
	Min	7.05	5.16	1.18	4.01	1.95	1.10	1.34	0.53
	Max	7.90	5.70	1.29	4.29	2.23	1.30	1.68	0.63
♀ (N=1)	F1	8.32	6.12	1.34	n/a	2.28	1.30	1.72	0.63
<i>R. rubranigra</i>									
♂ (N=4)	Mean	6.04	4.35	0.97	3.67	1.97	1.06	1.21	0.50
	SD	0.57	0.43	0.10	0.31	0.19	0.11	0.14	0.04
	Range	1.28	1.02	0.25	0.71	0.42	0.19	0.30	0.08
	Min	5.59	3.93	0.84	3.29	1.79	0.97	1.04	0.45
	Max	6.88	4.95	1.09	4.01	2.21	1.16	1.33	0.53