

Menindee, 19.V.1971 [32.32° S, 142.40° E]; Ti-Tree Well - 11 km S, 28.X.1962 [22.26° S, 133.38° E]; Perth, Kings Park, 14.XII.1969 [31.97° S, 115.84° E]; Ayr - 24 km NW, 14.XI.1962 [19.45° S, 147.23° E]; SW Katherine: Manaulloo [14.50° S, 132.20° E]; Simpson Gap, 6.X.1972 [23.71° S, 133.71° E]; Sydney-Concord, 1.V.1960 [33.86° S, 151.10° E]; Perth (leg. J. Clark) [31.96° S, 115.87° E]; Gayamin Pool, Chittering [31.47° S, 116.09° E]; Woodstock-52 km S, 11.IV.1976 [20.07° S, 146.82° E]; above Baroalba springs, 17.XI.1972 [12.47° S, 132.51° E]. **Kalamurina - 2 km NE, 17.IX.1972 [27.70° S, 138.27° E]; **Jabiru, VI.1984 [12.67° S, 132.87° E]; ** Cameron Corner - 40 km E, XI.1976 [29.01° S, 141.41° E]; **Coonabarabran - 50 km E, 29.III.1980 [31.27° S, 149.80° E], **Mining Camp Mitchell Plateau, V.1983 [14.81° S, 125.83° E].

Cardiocondyla nuda

Fifty-eight samples with 84 workers in normal print are the basis of the morphological data sets. In further two samples marked with "***", it was not possible to investigate the full character set. These samples could be determined based on PLG and sqPDF and are included in the distribution map.

Australia: Cairns district [16.90° S, 145.80° E]; Cedar Creek NP, 13.X.1991 [27.75° S, 153.20° E]; Giru, 1981 [19.51° S, 147.13° E]; Hartleys Creek, 13.VIII.1983 [16.41° S, 145.36° E]; Horne Creek, 23.VIII.2004 [13.73° S, 143.20° E]; Koolan Island, I.1987 [16.13° S, 123.75° E]; Lansdown near Woodstock, 13.IV.1976 [19.67° S, 146.83° E]; Lord Howe Island, 3.XII.1966 [31.56° S, 159.09° E]; Lord Howe Island, 2.XII.1966 [31.56° S, 159.09° E]; Myall Lake, N-side, 28.XII.1977 [32.60° S, 152.40° E]; Cardwell, Kirrama, XII.1957 [18.00° S, 146.80° E]; Kuranda, 1.XI.1950 [16.82° S, 145.63° E]; Barham, 23.III.1960 [35.62° S, 144.15° E]; Bulli, V.1915 [34.31° S, 150.93° E]; Gove, VII.1982 [11.30° S, 132.30° E]; Norfolk, IV.1984 [29.00° S, 167.93° E]; Norfolk, Philip Island, III.1984 [29.03° S, 167.95° E]; Norfolk, Philip Island, XI.1984 [29.03° S, 167.95° E]; Norfolk, Philip Island, IX.1984 [29.11° S, 167.95° E]; Rimbija Island, II.1977 [11.10° S, 136.75° E]; Rounded Hill - 1 km N, V.1981 [15.17° S, 145.13° E]; Rounded Hill, 1980 [15.28° S, 145.21° E]; Rounded Hill, 1981 [15.28° S, 145.21° E]; Moggil, 17.V.1951 [27.58° S, 152.87° E]; S.W. Rocks, 19.V.1983 [30.88° S, 153.03° E]; Thurling Farm, Paddock, X/XI.1977 [17.22° S, 145.36° E]; Townsville - 45 km NW, 14.IV.1976 [19.18° S, 146.55° E]; Woodstock - 52 km S, 11.IV.1976 [20.07° S, 146.82° E]; **Torres Strait, Murray Isl., VII.1974 [9.92° S, 144.05° E]. **Fiji:** Ovalau (leg., Godeffroy, No. 2768), holotype *C. nuda* [17.68° S, 178.79° E]; Saiaro (leg. W.M. Mann) [17.90° S, 178.00° E]; Viti Levu, 17.IV.1976 [17.83° S, 177.94° E]; **Micronesia:** Pohnpei, 30.VII.1994 [6.97° S, 158.22° E]; Pohnpei, 19.III.2000 [6.97° S, 158.22° E]; Pohnpei, Ace, 26.XI.1995 [6.97° S, 158.22° E]; Pohnpei, clear area, 26.XI.1995 [6.97° S, 158.22° E]. **New Guinea:** Seleu, 1896 (leg. Biró) [3.15° S, 142.48° E]; Huon Peninsula, lower Busu River [6.73° S, 147.05° E]; Okapa - 15 km NW, Moife, X.1959 [6.44° S, 145.51° E]; Lae - 16 km NW, 12.VI.1972 [6.64° S, 146.89° E]; Loloata Island, 24.X.2004 [9.54° S, 147.29° E]; Manus: Ndova Island, 7.V.1972 [2.22° S, 147.24° E]; Morobe: Bulolo, 18.XII.1967 [7.76° S, 147.59° E]. **Samoa:** Upolu (leg. Godeffroy) [13.92° S, 171.74° W]; Tutuila: Pago Pago, 10.I.1923 [14.28° S, 170.70° W]; Upolu, Le Mafa, 30.III.1962 [13.88° S, 171.90° W]; Upolu: Alagaogao, 19.III.1962 [13.90° S, 171.70° W]. **Solomon Islands:** Honiara, 16.VI.1954 [9.43° S, 159.94° E]; Guadalcanal, 23.XII.1964 [9.64° S, 160.19° E]; Isabel: Buala, 14.XII.1964 [8.16° S, 159.62° E]; Malaita, 16.II.1965 [9.05° S, 161.00° E]; Santa Catalina, 5.VII.1933 [9.70° S, 160.00° E]; **Guadalcanal, Tenavatu, 13.XII.1954 [9.43° S, 160.10° E]. **Tonga:** Tonga Tabu (leg. Godeffroy) [21.18° S, 175.22° W]. **Vanuatu:** Aneityum, IX.1930 [16.50° S, 167.60° E]. **Wallis and Futuna:** Futuna: Mt. Puke, 1965 [14.30° S, 178.15° W]; Futuna: Nuku, III.1965 [14.30° S, 178.15° W]; Nuku Hifala, 30.III.1965 [14.30° S, 178.00° W]; Nuku Tapu, III.IV.1965 [14.30° S, 178.00° W]; Uvea, Matu-Utu, II.1965 [13.26° S, 176.16° W].

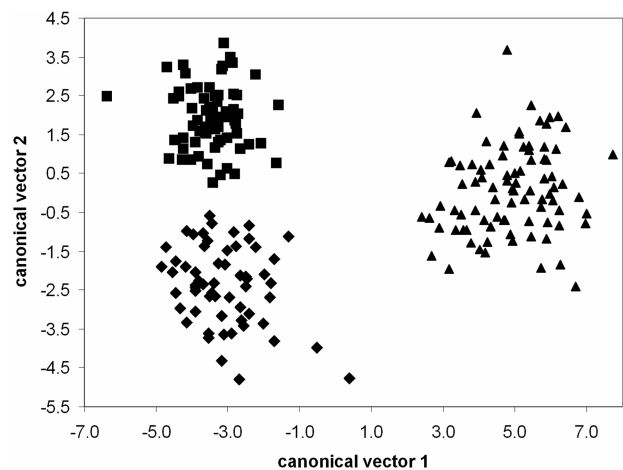


Fig. 1: Canonical discriminant analysis of the three major clades of the *Cardiocondyla nuda* group based on sample means: *C. mauritanica* (squares, n = 69), the forms of *C. kagutsuchi* complex (rhombs, n = 59) and *C. nuda et atalanta* (triangles, n = 86).

froy) [13.92° S, 171.74° W]; Tutuila: Pago Pago, 10.I.1923 [14.28° S, 170.70° W]; Upolu, Le Mafa, 30.III.1962 [13.88° S, 171.90° W]; Upolu: Alagaogao, 19.III.1962 [13.90° S, 171.70° W]. **Solomon Islands:** Honiara, 16.VI.1954 [9.43° S, 159.94° E]; Guadalcanal, 23.XII.1964 [9.64° S, 160.19° E]; Isabel: Buala, 14.XII.1964 [8.16° S, 159.62° E]; Malaita, 16.II.1965 [9.05° S, 161.00° E]; Santa Catalina, 5.VII.1933 [9.70° S, 160.00° E]; **Guadalcanal, Tenavatu, 13.XII.1954 [9.43° S, 160.10° E]. **Tonga:** Tonga Tabu (leg. Godeffroy) [21.18° S, 175.22° W]. **Vanuatu:** Aneityum, IX.1930 [16.50° S, 167.60° E]. **Wallis and Futuna:** Futuna: Mt. Puke, 1965 [14.30° S, 178.15° W]; Futuna: Nuku, III.1965 [14.30° S, 178.15° W]; Nuku Hifala, 30.III.1965 [14.30° S, 178.00° W]; Nuku Tapu, III.IV.1965 [14.30° S, 178.00° W]; Uvea, Matu-Utu, II.1965 [13.26° S, 176.16° W].

Cardiocondyla mauritanica

69 samples with 138 workers from Afghanistan, Egypt, Greece, India, Indonesia, Iran, Iraq, Israel, Jordan, Kiribati, Libya, Malta, Morocco, Oman, Puerto Rico, Pakistan, Portugal, Spain, Tunisia, Turkey, United Arab Emirates, Ukraine, and USA (Arizona, California, Florida).

Cardiocondyla kagutsuchi complex

59 samples with 148 workers from Bhutan, south China, Guam, Hawaii, India, Indonesia, Japan, Malaysia, Nepal, New Guinea, the Philippines, Singapore, Sri Lanka, and Thailand.

Results and discussion

The major subdivision of the *C. nuda* group

The three major clades of the *C. nuda* group – *C. mauritanica* (clade 1), the different forms of *C. kagutsuchi* (clade 2) and *C. nuda et atalanta* (clade 3) – are safely separable based on sample means by a DA computing 14 characters (Fig. 1).