

BARAHNA, A NEW SPIDER GENUS FROM EASTERN AUSTRALIA (ARANEAE:
AMAUROBIOIDEA)

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Eight new species of *Barahna* gen. nov. are diagnosed, described and illustrated; these are *Barahna booloumba*, the types species and *B. brooyar*, *B. yeppoon*, *B. taroom*, *B. scoria*, *B. toonumar*, *B. myall* and *B. glenelg*. The last is described from a single female. The genus ranges from mid-eastern Queensland, through northern and eastern New South Wales to southern Victoria. □ *Araneae, Amaurobioidea, Barahna, new genus, eastern Australia.*

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This genus is unique among described Australian amaurobioids in having an embolus with obvious 'pars pendula', a name coined by Comstock (1913). It refers to the membranous part of the embolus in which the sperm duct is carried; it is reduced and not seen in most emboli. A further feature is the retrolateral apophysis on the male palpal patella. This occurs in at least two other, probably unrelated, Australian amaurobioids, *Paramatachia* and *Dardurus*.

Barahna spp. have been found in wet sclerophyll, vine scrub and open eucalypt forests from mid-east Queensland and eastern New South Wales. A single female specimen has been collected from southern Victoria suggesting that it also occurs in the coastal forests of that State. The spiders were found in sheet webs with a small retreat under rocks, logs or near the base of trees; they run on the underside of the web. Egg sacs containing 8 or more eggs are carried in the chelicerae. All species are named for their type locality.

METHODS

Most of the spiders were collected from pitfall traps (PF) or sieved litter samples. Notation of spines follows Platnick & Shadab (1975); measurements are in millimetres; the left palp is described and illustrated unless noted.

Abbreviations. Museums: AM, Australian Museum, Sydney; QM, Queensland Museum, Brisbane; SAM, South Australian Museum, Adelaide; WAM, West Australian Museum, Perth.

Collectors: DC, D. Cook; DW, D. Wallace; GBM, G. B. Monteith; GT, G. Thompson; MRG, M. R. Gray; RJR, R. J. Raven; SRM, S. R. Monteith; VED, V. E. Davies.

Location data: NP, National Park; SF, State Forest.

Anatomy: The usual abbreviations are used for body measurements, eyes and spinnerets. Abbreviations on illustrations are explained in the legends; others in the text.

SYSTEMATICS

Barahna gen. nov.

TYPE SPECIES. *Barahna booloumba* sp. nov.

ETYMOLOGY. From the Aboriginal 'baran-barahn', spider in the Bundjalung language of northern New South Wales-Queensland border region.

DIAGNOSIS. Females may be distinguished from other cribellate amaurobioids by the presence of a pair of small dorso-posterior protuberances in the foveal region (Fig. 1B); these each have a small pale (unsclerotised) area (Fig. 7). Males may be distinguished by a membranous pars pendula on the concave side of the embolus; as well, the palpal patella has a retrolateral apophysis (Fig. 1I).

DESCRIPTION. Small, 3-clawed cribellates (most less than 4.0). Coloration of the abdomen varies from pale to dark grey with a pattern of light spots in a vague chevron pattern (Fig. 1C). Carapace highest behind eyes; eyes directed forwards. From above, posterior eye row straight-slightly recurved, anterior row recurved. AME reduced. Two retromarginal and 4-6 promarginal cheliceral teeth (Fig. 1E); prolateral filamentous seta at base of fang longer than other setae. In the male the retromarginal teeth may be reduced in size and form a diagonal line with the promarginals. Labium about as long as wide; sternum longer than wide, pointed posteriorly

(Fig. 1D). Legs 4123 with bands of darker colour. Feathery hairs on legs and cephalothorax (Fig. 3D). Tarsal trichobothria in a single row, increasing in length distally; bothrium collariform; tarsal organ oval. Female genital atrium with medial thickening which is sclerotised basally (Fig. 1G); this sclerotisation provides a useful diagnostic character; it is not delineated in micrographs (Fig. 3A). Tiny lateral teeth, visible at high magnification, on posterior lateral edges of atrium. Long, coiled insemination ducts to posterior spermathecae (Fig. 3B). Male palp with oval tegulum, circular or semi-circular embolus with pars pendula; membraneous conductor. A small, thin apophysis (? median) obscured by conductor (Figs 1K, 2D) may be present. Retrolateral tibial and patellar apophyses. Cribellum with two spinning fields in female; large broad colulus in male. Proximal calamistrum with one row of setae. Large ALS with two MAP in female, one and a nubbin in male (Fig. 4B). PMS with paracribellar spigots in female. Four simple tracheal tubes in abdomen, medians longer than laterals.

KEY TO *BARAHNA* SPP.

1. ♂, very long embolus encircling tegulum to terminate postero-retrolaterally. ♀, basal sclerite of epigynal atrium pointed (Fig. 1G) or rounded 2
 ♂, embolus describing about three-quarters of a circle to terminate mid-retrolaterally (Fig. 6A). ♀, basal sclerite of atrium flat-topped (Fig. 6D) 6
2. ♂, embolus arising postero-retrolaterally on tegulum (Fig. 2G). ♀, basal sclerite short, rounded (Fig. 2J) *yeppoon*
 ♂, embolus arising antero- or mid-retrolaterally on tegulum. ♀, basal sclerite pointed, or slender and rounded (Fig. 5D). 3
3. ♂, embolus curled distally. ♀, basal sclerite pointed. 4
 ♂, embolus slightly curved distally. ♀, basal sclerite slender or rounded. 5
4. ♂, embolus arising on mid-retrolateral tegulum *booloumba*
 ♂, embolus arising on antero-retrolateral tegulum (Fig. 2A). *brooyar*
5. ♂, palpal patellar apophysis truncated (Fig. 5B). ♀, basal sclerite long, slender with rounded apex *taroom*
 ♂, palpal patellar apophysis digitiform. ♀, basal sclerite short, with small pointed apex (Fig. 5F) *scoria*
6. ♀, basal sclerite as long as wide (Fig. 6D) 7
 ♀, basal sclerite longer than wide (Fig. 6L) *glenelg*
7. ♂, patellar apophysis simple, digitiform. ♀, spermathecae small *toonumber*
 ♂, patellar apophysis long and bifid (Fig. 6G). ♀, spermathecae large *myall*

Barahna booloumba sp. nov.

(Figs 1A-K, 3A-C, 4A-C, 7A, 8B; Table 1)

ETYMOLOGY. From the type locality Booloumba Ck, Conondale NP.

MATERIAL. HOLOTYPE. ♂, Booloumba Ck, Conondale Ra, southeast Queensland, 26°38'S, 152°39'E, 200m, rainforest, PF, 29 Nov. 1991-8 Jan. 1992, DC (QM S42241). PARATYPES. Southeast Queensland: ♀, same locality as holotype, PF, 13-18 Apr. 1976, RJR (QM S42242); ♂, 2 ♀ (QM S42243); 4 ♂, 2 ♀ (QM S42244); 2 ♂, ♀, Sunday Ck, Conondale Ra, 26°43'S, 152°34'E, 900m, rainforest, PF, 7 Jan.-2 Mar. 1992, DC (QM S42245); 2 ♂, 2 ♀, same data as holotype (QM S42247); ♀, same locality as holotype, PF, 29 Nov. 1974-Feb. 1975, G Maywald (QM S42248); ♂, Little Yabba Ck via Kenilworth, 26°36'S, 152°35'E, PF, 10 Aug.-9 Nov. 1974, GBM, SRM (QM S42249); 2 ♂, same data (QM S42250); 2 ♂, Sunday Ck, 900m, PF, 29 Nov. 1996-7 Jan. 1997, DC (QM S42251); ♂, Mapleton Falls NP, 26°38'S, 152°51'S, 500m, PF, 8 Jan.-3 Mar. 1992, DC (QMS47136); ♂, Ewan Maddock Dam, 26°48'S, 152°59'E, PF, M. Glover (QM S28512); 3 ♀, 3 ♂, Mt Coolum, 26°34'S, 153°05'E, PF, Jan. 1984, B. R. Jahnke (QM S42252); ♀, Kenilworth SF, 26°38'S, 152°39'E, wet sclerophyll forest, 5 May 1998, G Milledge (AM KS71029); 2 ♂, same data (AM KS71030); ♂, ♀ (AM KS71031); 2 ♀, rainforest (AM KS71032); ♂, ♀, Conondale NP, 26°42'S, 152°37'E, wet sclerophyll forest, G Milledge (AM KS71033); ♂, Little Yabba Ck, via Kenilworth, PF, 29 Dec. 1974-22 Mar. 1975, GBM, SRM (QM S45688); ♂, Cold Ck via Imbil, 26°27'S, 152°37'E, PF, 31 Dec. 1974-27 Mar. 1975, GBM, SRM (QM S45689); ♂, Sunday Ck, 26°40'S, 152°34'E, rainforest, PF, 18 Dec. 1996-20 Jan. 1997, GBM (QM S45690); ♂, Mary Cairncross Pk via Maleny, 26°43'S, 152°33'E, 240m, PF, 29 Dec. 1974-27 Mar. 1975, GBM, SRM (QM S45691); ♂, Dingo Ck via Traveston, 26°19'S, 152°48'E, 100m, PF 5, 9 Nov.-31 Dec. 1974, GBM, SRM (QM S45692); 2 ♂, Camerons Scrub, 27°31'S, 152°44'E, 50m, PF 7562, 11 Nov. 1998-13 Jan. 1999, GBM, DC, GT (QM S45693); ♂, ♀, Camerons Scrub, top of ridge, 27°30'S, 152°44'E, 160m, rainforest, sieved litter, 21 Nov. 1998, GBM, GT (QM S45718); 2 ♂, Mt Coolum, open forest, Jan. 1984, B.R. Jahnke (QM S45694); 9 ♂, ♀, Enoggera Reservoir, 27°27'S, 152°55'E, site 3, 100m, rainforest, PF 9214, 27 Jan.-15 Mar. 2000, GBM, J.Holt (QM S45728); 4 ♂, ♀, same locality, site 8, rainforest, PF 9068, 10 Nov.-21 Dec. 1999, GBM (QM S45729); 7 ♂, site 3, PF 9063, 16 Oct.-21 Dec. 1999, GBM (QM S45730); ♀, PF 9433, 15 Mar.-18 May 2000, GBM (QM S45731); 4 ♂, ♀, PF 9098, 21 Dec. 1999-27 Jan. 2000, GBM, J. Holt (QM S45732); 2 ♂, Mt Cabinet via Jimna, 26°43'S, 152°34'E, PF 29, 30 Nov.-29 Dec. 1974, GBM, SRM (QM S45733); ♂, same data, 29 Mar.-16 June 1975 (QM S45734); ♂, Deer Reserve, Kilcoy, 26°59'S, 152°29, PF 30, 11 Jan.-29 Mar. 1975, GBM, SRM (QM S45735); ♀, same locality, 1 June-24 Aug. 1975 (QM S45736); 3 ♂, Tungi Ck, Jimna, 26°40'S, 152°28'E, PF, rainforest, 18 Dec. 1996-20 Jan. 1997, GBM (QM S45737); 3 ♂, same locality, PF28, 29 Dec. 1974-29 Mar. 1975, GBM, SRM (QM S45738); 2 ♂, Wrattens Camp Forestry via Widgee,

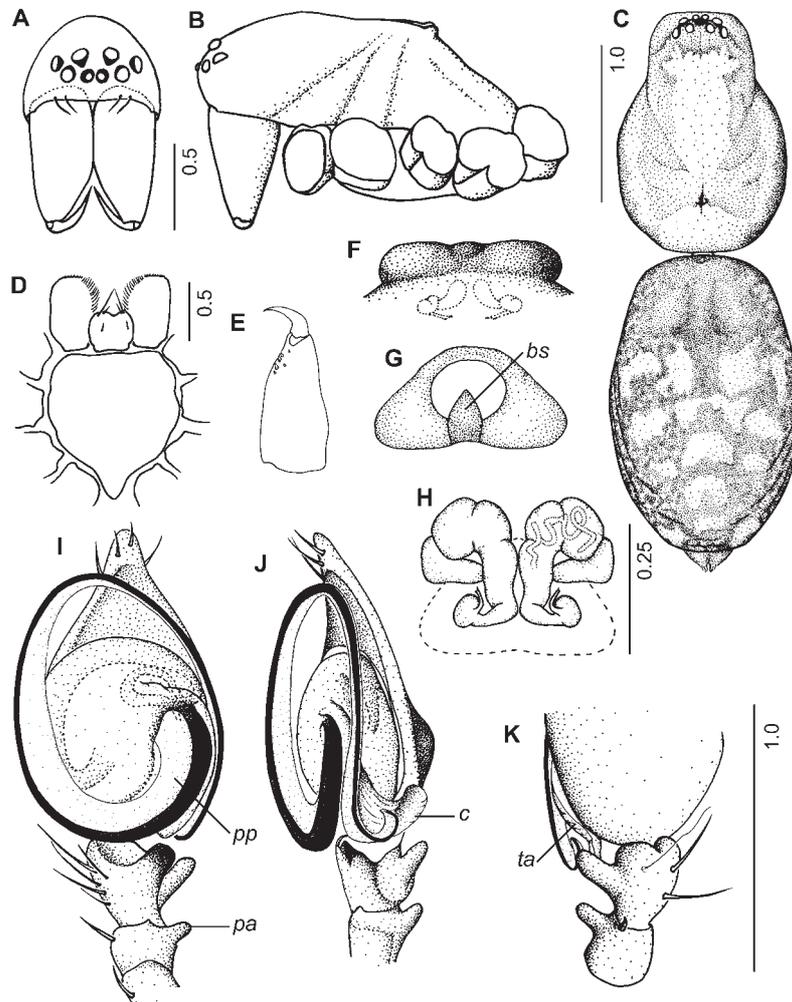


FIG. 1. A-K, *Barahna booloumba* sp. nov. A-H ♀; A, eyes, chelicerae (frontal); B, cephalothorax (lateral); C, body (dorsal); D, sternum, labium, maxillae; E, chelicera (ventral); F-H, epigynum (posterior, ventral, dorsal cleared). I-K, ♂ palp (ventral, retrolateral, dorsal). bs = basal sclerite, c = conductor, pa = patellar apophysis, pp = pars pendula, ta = tegular apophysis.

26°18'S, 152°20'E, PF 10, 11 Aug.-10 Nov. 1974, GBM, SRM (QM S45696); ♀, same data (QM S45697); 2♂, 8♀, Perrys Knob, 27°36'S, 152°36'E, vine scrub, 200m, sieved litter, 15 May 1999, GBM (QM S45695); ♀, ♂, same locality, PF 7564, 11 Nov. 1998-13 Jan. 1999, GBM, DC, GT (QM S45709); ♀, Mt Cotton, 27°37'S, 153°13'E, 200m, sieved litter, 13 Sept. 1997, GBM (QM S45714); ♀, Dandabah, Bunya Mts NP, 26°53'S, 151°36'E, notophyll vine forest with *Araucaria* emergents (hoop pine rainforest), 960m, litter, 29 Feb. 1976, VED (QM S45667); ♀ Paul Lentz Plain, Bunya Mts NP, 26°50'S, 151°33'E, hoop pine rainforest, PF, 7 Nov. 1994, Queensland National Parks (QM S45668); ♀, Bunya Mts NP, rainforest sieved litter, 2 Oct. 1979, GBM (QM S45669);

♂, ♀, Dandabah, Bunya Mts NP, under log with sheet web, 4 Sept. 1974, RJR (QM S45670); ♂, Bunya Mts NP, 26°54'S, 151°37'E, 1006m, rainforest, PF19, 1974-1975, GBM, SRM (QM S45671); ♂, same locality, 960m, rainforest, sieved litter, 2 Oct. 1979, GBM (QM S45674); 4♂, ♀, Belthorpe, 26°50'S, 152°41'E, rainforest, PF, 18 Dec. 1996-20 Jan. 1997, GBM (QM S55185); 2♂, 3♀, Redwood Pk, nr, Toowoomba, 27°34'S, 152°00'E, 7 Jan. 1986, GBM, SRM (QM S55186); 2♀, ♂, Cunninghams Gap NP, 28°03'S, 152°23'E, dry forest, sieved litter, 28 June 1991, D. Black (WAM 98/2081-3); ♂, Ravensbourne NP, 27°22'S, 152°11'E, 731m, rainforest, PF38, 10 Nov. 1974-12 Jan. 1975, GBM, SRM (QM S55188); 9♀, juv. ♂, Upper Brookfield nr Brisbane, 27°28'S, 152°52'E,

notophyll rainforest with *Araucaria*, litter, 22 May-11 Aug. 1976, RJR, VED (QM S55190); 3♂, 2♀, same location, 28 Jan. 1982, RJR, VED (QM S55191); ♂, ♀, PF, 23 Dec. 1980-22 Jan. 1981, RJR, VED (QM S55194); 4♀, 17 July 1981 (QM S55195); ♀ with egg sac under log, same data, 2 Sept. 1981 (QM S55198); 3♀, 2♂, PF, 8-23 Apr. 1981 (QM S55199); 3♂, Gold Ck nr Brisbane, 27°28'S, 152°53'E, PF, 31 July-1 Sept. 1981, RJR, VED (QM S55200); ♂, Flinton Hill nr Ipswich, 120m, PF 52, 20 May-11 Aug. 1976, GBM, SRM (QM S55201); ♂, Mt Glorious, 27°20'S, 152°45'E, 29 Sept. 1973, RJR (QM S55202); 2♀, Jollys Lookout, Boombana NP, open forest, litter, 30 June 1991, D. Black (WAM 98/2090-2); ♀, Brisbane Forest Pk nr Boombana, closed forest, PF, 17-24 July 1987, Rhonda Grundy (QM S55203); 2♂, Mt Mee via Samford, 27°05'S, 152°41'E, rainforest, PF14, 9 Nov. 1974-11 Jan. 1975, GBM, SRM (QM S55204); 2♀, Mt Mee SF, 27°06'S, 152°42'E, 550m, rainforest, stick brushing, 28 Feb. 1979, GBM (QM S55205); ♂, ♀, Mt Mee, Upper Neurum Ck, 27°05'S, 152°42'E, rainforest, sieved litter, 3 Sept. 1979, GBM (QM S55206); ♂, Mt Mee, Plateau Site, rainforest, PF 89, 8 Oct. 1977-20 Jan. 1978, GBM (QM S55207); ♂, Caimbale via Lamington NP, 28°10'S, 153°07'E, 762m, PF 57, 28 Sept. 1975-31 Jan. 1976, GBM, SRM (QM S 55208); 2♂, Bahrs Scrub, 27°46'S, 153°10'E, 100m, rainforest, PF, 10 Dec. 1991-21 Jan. 1992, DC (QM S25032). OTHER MATERIAL. New South Wales: ♂, New Brighton Beach via Brunswick Heads, 28°31'S, 153°33'E, 10m, rainforest, PF 39, 3 Aug.-16 Nov. 1975, GBM, SRM (QM S55189).

DIAGNOSIS. Retrolateral origin of embolus; palpal patellar apophysis digitiform (Fig. 1K). Sclerotised base of epigynal atrium pointed anteriorly. Dorso-posterior protuberances in foveal region rounded with small posterior unsclerotised areas (Fig. 7A).

DESCRIPTION. *Male.* CL1.9, AL 1.9. Ratio of AME: ALE: PME: PLE is 6:10:10:10. Legs 4123 (Table 1). Notation of spines. Femora: I, D110, P001; II, D111, P001, R001; III, D101, P101, R001; IV, D101, P001, R001. Patellae: III, D001. Tibiae: I, P011, V102, R011; II, D001, P101, V102, R101; III, D001, P101, V012, R101; IV, P101, V112, R101. Metatarsi spined with distal whorl 4-5 spines.

♂ palp (Fig. 1I-K). Embolus with membranous pars pendula arising retrolaterally

and encircling tegulum clockwise, ending in a distal curl postero-retrolaterally. Membranous conductor arising just anterior to embolus, broadening distally; small membranous thin finger-like tegular apophysis arising dorsal to embolus and obscured by conductor (Fig. 2D). Retrolateral tibial apophysis (RTA) with curved blunt ventro-retrolateral and digitiform retrolateral branches. Smaller digitiform patellar apophysis.

Other males ranged from 3.0-3.8 in length.

Female. CL 1.6, AL 1.8. Ratio of AME: ALE: PME: PLE is 6:9:9:9. Legs 4123 (Table 1). Carapace with two small dorso-posterior protuberances on fovea. Notation of spines. Femora: I, D101, P001; II, D101, P001, R001; III, D101, P001, R001; IV, D101, P001, V010, R001. Patellae: III, D001. Tibiae: I, P011, V102; II, P011, V010, R101; III, D001, P011, V012, R011; IV, D101, P011, V112, R011. Metatarsi spined with distal whorl of 4-5 spines.

Epigynum (Figs 1F-H, 3A,B). Gonopores at base of atrium; insemination ducts proceed laterally then coil (two or three coils) forward to turn back to enter spermathecae. Tiny lateral teeth on posterior lateral edges of atrium; sclerotised basal part of atrium pointed.

Spinnerets (Fig. 4A,C). ALS with two major ampullate spigots, about 14 piriform spigots and at least two tartipores. PMS with large anterior spigot (minor ampullate), two posterior spigots (cylindrical) and eight others. Four of these have one or two strobilate shafts (paracribellars) and four have single plain shafts (aciniform). PLS with two large (cylindrical) and four aciniform spigots.

Females ranged in length from 3.5-3.9.

DISTRIBUTION. *B. booloumba* (Fig. 8B) has been collected from many localities in southeastern Queensland and from Brunswick Heads in coastal New South Wales.

***Barahna brooyar* sp. nov.**
(Figs 2A-F, 8B)

ETYMOLOGY. From the type locality Brooyar SF.

MATERIAL. HOLOTYPE. ♂, Brooyar Fire Tower via Gympie, southeast Queensland, 26°10'S, 152°28'E, 457m, rainforest, PF54, 23 Aug. 1975-29 Feb. 1976, GBM, SRM (QM S45722). PARATYPES. Southeast Queensland: ♀, ♂ same data (QM S45723); ♂, same locality and collectors, 29 Feb.-25 Apr. 1976 (QMS45724); 7♂, Marys Ck, Forestry via Gympie, 26°16'S, 152°33'E, 240m, PF9, 11 Aug.-10 Nov. 1974, GBM, SRM (QM S45725); ♂, same locality and collectors, 16 June-28 Aug. 1975 (QM

TABLE 1. *Barahna booloumba* ♂ (♀) leg lengths.

	Leg I	Leg II	Leg III	Leg IV
Femur	1.7 (1.5)	1.5 (1.3)	1.3 (1.2)	1.9 (1.5)
Patella X Tibia	2.3 (1.9)	1.8 (1.4)	1.6 (1.3)	2.3 (1.8)
Metatarsus	1.6 (1.3)	1.3 (1.0)	1.3 (0.9)	1.9 (1.5)
Tarsus	1.0 (0.8)	0.8 (0.7)	0.6 (0.6)	0.8 (0.8)
Total	6.6 (5.5)	5.4 (4.4)	4.8 (4.0)	6.9 (5.6)

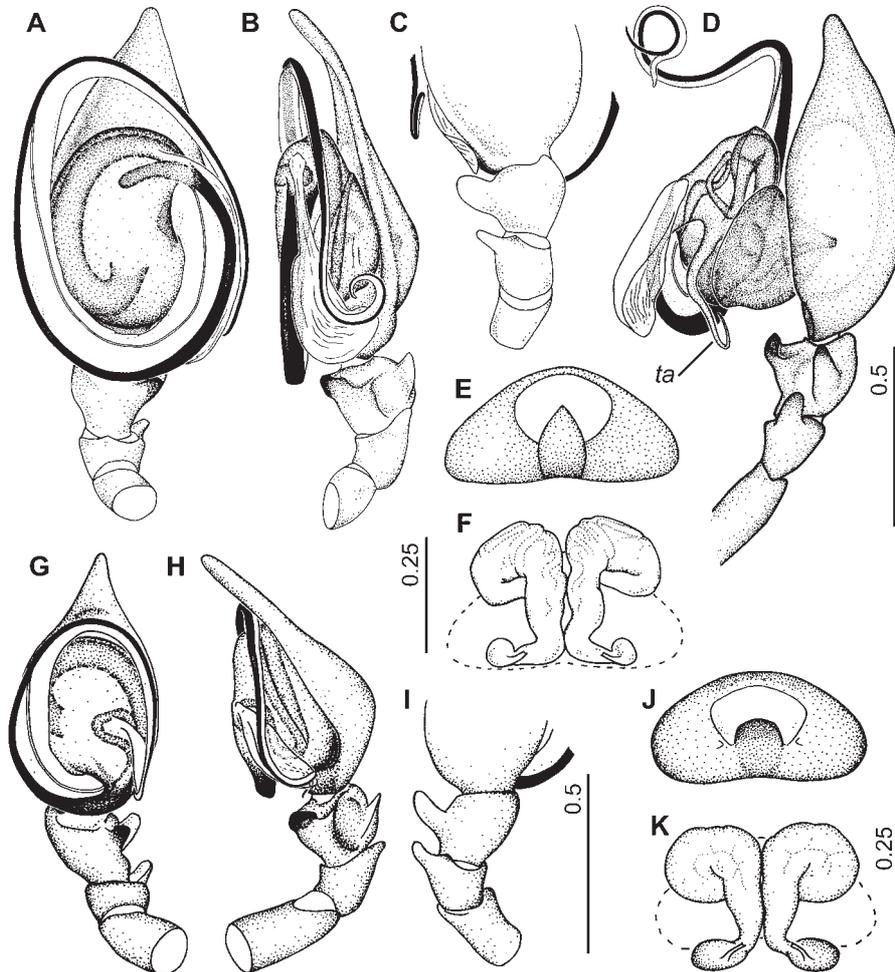


FIG. 2. A-K, *Barahna* spp. nov. A-F, *B. brooyar* sp. nov. A-D, ♂ palp (ventral, retrolateral, dorsal, expanded in KOH); E,F, ♀ epigynum (ventral, dorsal cleared). G-K, *B. yeppoon*. G-I, ♂ palp (ventral, retrolateral, dorsal); J,K, ♀ epigynum (ventral, dorsal cleared). ta = tegular apophysis.

S45726; ♀, 28 Mar.-16 June 1975 (QM S45727); ♂, 11 Aug.-10 Nov. 1974 (QM S55209).

DIAGNOSIS. In males the embolus arises near the anterior retrolateral edge of tegulum (Fig. 2A) obscuring the anterior coil of the sperm duct, unlike *B. booloumba* where it arises mid-retrolaterally (Fig. 1I) and the sperm duct is clearly seen.

DESCRIPTION. Male. CL 2.0, AL 1.8. Ratio of AME: ALE: PME: PLE is 6: 9: 8: 9. Legs 4123. I, 6.9; II, 5.6; III, 4.6; IV, 7.3. Notation of spines somewhat variable within left and right sides of spider and between specimens. Femora: I, D011,

P001; II, D001, P001; III, D110, P001, R00(1); IV, D100, R00(1). Tibiae: I, P011, V2(2)2, R011; II, D001, P0(0)1, V112, R101; III, D(1)0(0), P101, V(1)12, R011; IV, D00(1), P0(0)1, V(1)12, R(0)1(1). Metatarsi spined with dorsal whorl of 4-5 spines.

♂ palp (Fig. 2A-D). Embolus arising near anterior edge of tegulum obscuring coil of sperm duct; embolus curled distally. RTA digitiform, ventro-RTA blunt, sclerotised. Patellar apophysis digitiform.

Males ranged from 2.7-3.9 in length.

Female. CL 1.9, AL 2.1. Legs: I, 6.7; II, 5.3; III, 5.0; IV -. Notation of spines similar to male with

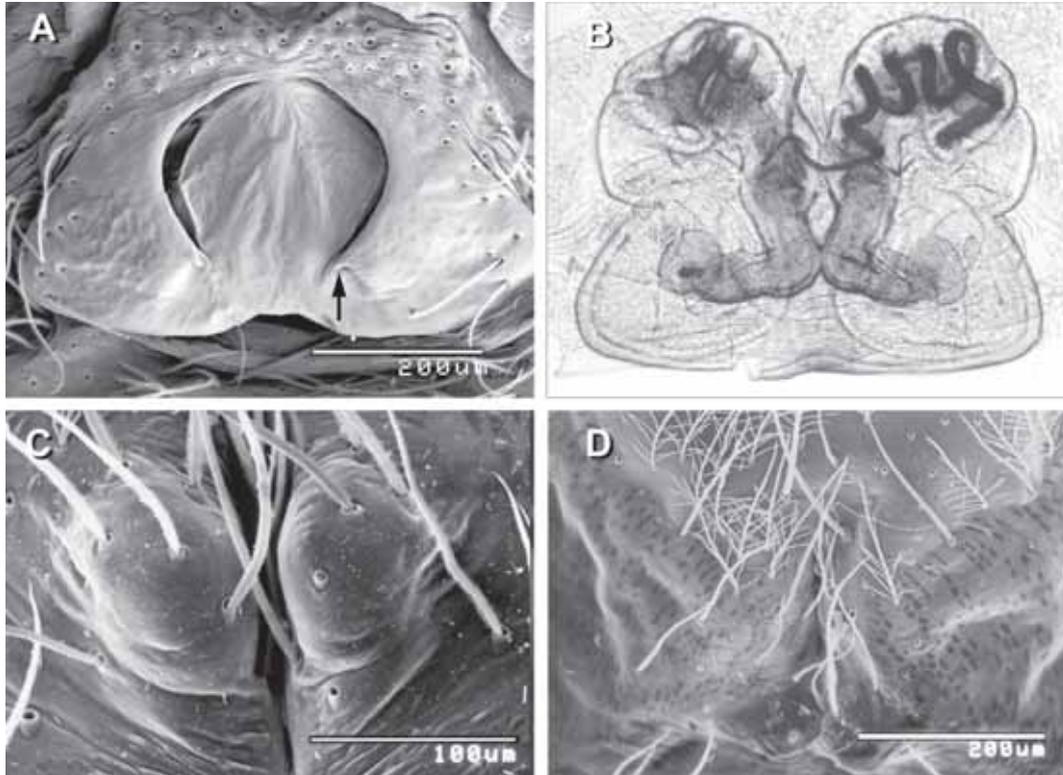


FIG. 3. A-D, *Barahna* spp. nov. A-C, *B. booloumba*; A, ♀ epigynum (ventral, arrow to lateral teeth); B, epigynum (dorsal cleared; photo-micrograph showing embolus in insemination duct); C, protuberances on fovea; D, *B. yeppoon*, ♀ foveal area.

fewer spines on ventral tibiae: III, 012; IV, V111. Epigynum (Fig. 2E,F). Sclerotised base of atrium long and pointed.

The other female was 4.0 long.

DISTRIBUTION. *B. brooyar* (Fig. 8B) has been collected from only two localities in southeastern Queensland.

***Barahna yeppoon* sp. nov.**
(Figs 2G-K, 3D, 4D, 8A)

ETYMOLOGY. From the type locality, Yeppoon.

MATERIAL. HOLOTYPE. ♂, Yeppoon, Meikleville Hill, Queensland, 23°06'S, 150°43'E, vine thicket, PF, 21 Apr.-18 July 1990, DW, RJR (QM S34450). **PARATYPES.** Queensland: 3♀, Yeppoon, Iwasaki Rd, vine thicket, PF, 18 July-23 Oct. 1990, DW, RJR, K. Williams (QM S33577); ♂, same locality as holotype, PF, 18 July-23 Oct. 1990; DW, RJR, K. Williams (QM S34096); ♂, 7♀, 6.2km W Yeppoon, 23°10'S, 150°43'E, semi-dry scrub, 27 May 2000, G. Milledge, H. Smith (AM KS67481); ♂, same data (AM KS67482); ♂, same data

(AM KS67483); 2♂, Frenchville, 23°20'S, 150°34'E, open forest, PF, 21 Apr.-18 July 1990, DW, RJR (QM S34443); ♀, Rosslyn Head, 23°10'S, 150°47'E, vine thicket, PF, 18 July-23 Oct. 1990, DW, RJR, K. Williams (QM S25580); 2♂, same data (QM S25589); 2♂, same locality, PF, 20 Apr.-18 July 1990, DW, RJR (QM S34246); 2♂, Bondoola, 23°11'S, 150°41'E, open forest, PF, 20 Apr.-July 1990, DW, RJR (QM S22196); ♀, same locality, PF, 18 July-23 Oct. 1990, DW, RJR, K. Williams (QM S46237); ♂, Nob Ck, 23 Sept. 1993, DW (QM S34427); ♂, Olsen's Caverns, 23°10'S, 150°28'E, open forest, PF, DW, RJR, K. Williams (QM S41239); ♀, Mt Archer, 23°20'S, 150°35'E, 650m, open forest, PF, 4 Sept.-11 Nov. 1991, DW, RJR (QM S46022); ♀, Mt Chalmers, 23°10'S, 150°38'E, open forest, PF, Oct. 1990-21 Mar. 1991, DW, RJR, K. Williams (QM S24551); ♂, Fairlies Knob, 25°32'S, 152°19'E, 120m, vine scrub, PF, 21 July-20 Oct. 2000, DC, J. Wright, E. Vanderduys, 9463 (QM S55257); ♀, Teewah Ck, Cooloola, 25°57'S, 153°06'E, 14 Sept. 1973, RJR (QM S55245); ♀, Cooloola, rainforest, under rotten log, 21 Aug. 1970, E.C. Dahms (QM S55246); ♂, ♀, Cooloola, high dune, PF, Oct. 1978, C. Plowman (QM S55248); ♀, 7♂, Orchid Beach, Fraser I., 24°58'S, 153°19'E, PF, 20 Aug.-17 Dec. 1997, RJR, P.

- Fishburn, P. Lawless (QM S43420); ♂, Fraser I., Feb. 1971, ANU (AM KS34841); ♂, 3 ♀, Fraser I., Orchid Beach, 24°58'S, 153°18'E, PF, 20 Aug.-17 Dec. 1997, RJR, P. Lawless (QM S43453); 3 ♂, ♀, same data (QM S41776); 3 ♂, 3 ♀, Fraser I., heath, *Banksia*, eucalypt, PF, 7 Mar.-1 Oct. 1996, RJR (QM S31275); ♂, Mt Coot-tha, 27°29'S, 152°57'E, PF, 17 Dec. 1996, RJR (QM S41181); ♀, Slaughter Pk, Mt Coot-tha, 22 May 1978, VED, RJR (QM S55261); ♀, Mt Coot-tha, 1 Sept. 1973, RJR (QM S55262); ♂, Mt Nebo, 27°24'S, 152°47'E, PF, mixed sclerophyll, 16 Oct. 1978, A. Rozefelds (QM S55263); ♂, Mt Glorious, 27°20'S, 152°45'E, sieved litter, 20 June 1991, D. Black (WAM 98/2101); 4 ♂, Cooloola Village, 26°00'S, 153°00'E, PF, 8 July-4 Dec. 1998, RJR, P. Lawless (QM S53390); ♂, Camerons Scrub, 27°30'S, 152°44'E, 90m, PF, 7557, vine scrub, 11 Nov. 98-13 Jan. 1999, GBM, DC, GT (QM S45715); ♂, Bunya Mts, Paradise, 26°52'S, 151°35'E, pyrethrum pine trunks 5026, GT (QM S45672); ♂, Marlaybrook, Bunya Mts, semi-evergreen thicket, 1-6 Mar. 1976, RJR, VED (QM S45673); ♀, Kroombit Tops, open forest with *Casuarina*, on sand, 23-25 Feb. 1982, GBM, RJR, GT (QM S45686); ♂, Calliope Ra. Kroombit Tops, 24°22'S, 151°00'E, PF 13, open forest, 12-18 Dec. 1983, GBM, VED, GT, J. Gallon (QM S55264); 2 ♂, ♀, same data, PF14 (QM S55265); ♀, Jimna SF, 26°40'S, 152°28'E, under logs, 31 May 1978, K. McDonald, S. Crafter (QM S45706); 10 ♂, top of Blackbutt Ra., via Benarkin, 26°52'S, 152°12'E, PF16, rainforest 396m, 17 Aug.-10 Nov. 1974, GBM, SRM (QM S55268); 4 ♂, same data (QM S55269); ♂, Base of Blackbutt Ra., 26°52'S, 152°11'E, 240m, PF 15, rainforest, 17 Aug.-10 Nov. 1974, GBM, SRM (QM S55270); 2 ♀, Fairlies Knob, 25°31'S, 152°17'E, 300m, PF9974, hoop pine scrub, 20 Dec. 2000-22 Mar. 2001, DC, GBM (QM S55271); 3 ♂, 4 ♀, same locality, PF9464, vine scrub, 21 July-20 Oct. 2000, DC, J. Wright, E. Vanderduys (QM S55272); ♂, same data, 120m, PF9463 (QM S55273); 2 ♂, One Tree Hill, 25°17'S, 151°55'E, 180m, vine scrub, PF9000, 27 Sept.-14 Dec. 1999, DC (QM S55274); ♀, Nipping Gully, 25°41'S, 151°25'E, 150m, PF7259, open forest site 3, 27 Aug.-9 Oct. 1998, GBM (QM S55275); ♂, same locality, 240m, PF 7707, 26 Jan.-2 June 1999, GBM, GT (QM S55276); 2 ♂, "Stockhaven", 25°48'S, 151°59'E, 450m, rainforest, PF 7515, 10 Oct.-19 Dec. 1998, GBM, C. Gough (QM S55277); ♂, Nangur SF, 26°08'S, 151°59'E, site 2, 320m, PF, rainforest, 29 July-23 Oct. 1995, GBM (QM S42320); ♂, Yarraman, 26°50'S, 152°03'E, 520m, rainforest, PF 17, 17 Aug.-10 Nov. 1974, GBM, SRM (QM S55278); 3 ♂, McAfees Lookout, 27°26'S, 152°52'E, 150m, PF7825, wet sclerophyll, 6 July-18 Oct. 1999, GBM (QM S55280); 2 ♂, 3 ♀, Camira, 27°38'S, 152°55'E, open forest, PF, 30 July-Oct. 1990, RJR (QM S19622-3); ♂, Camira, under log, 22 Jan. 1997, RJR (QM S55256); ♀, Rochedale SF, 27°34'S, 153°08'E, PF, 1-23 Oct. 1979, VED, RJR (QM S55282); ♂, same locality and collectors, PF, 20 Sept.-11 Oct. 1979 (QM S55283); ♀, 17 Jan. 1980 (QM S55285); ♀, PF, 30 Aug.-6 Sept. 1979 (QM S55286); ♂, Bulburin Barracks, 24°32'S, 151°28'E, 580m, rainforest, pyrethrum 7816, 8 Oct. 1999, GBM (QM S45680); 2 ♀, Bulburin SF, 540m, small sheet webs, 25-28 March 1977, RJR, VED (QM S45676); ♂, top of range, Bulburin SF, 24°33'S, 151°33'E, 600m, PF33, 5 Oct.-30 Dec. 1974, GBM, SRM (QM S45679); ♀, with egg sac, Bulburin Forest nursery, 24°31'S, 151°29'E, 580m, rainforest under log, 21 Mar. 1975, MRG, C. Horseman (AM KS71038); ♂, Rundle Ra., 23°39'S, 150°59'E, semi-evergreen vine thicket, 30m, 24-31 Mar. 1975, R. Kohout, VED (QM S45704); 12 ♂, 12 ♀, Mt Goonaneman, 25°26'S, 152°18'E, litter, 3-7 Nov. 1980, RJR, VED (QM S45701); 4 ♂, ♀, Rocky Pt., 10km S Round Hill Hd, 24°14'S, 151°56'E, 60m, PF71, 28 Aug.-15 Dec. 1976, GBM, SRM (QM S45699). OTHER MATERIAL. New South Wales: ♀, ♂, Carrai SF nr Carrai Bat Cave, 31°01'S, 152°20'E, Jan. 1993, MRG (AM KS34522).
- DIAGNOSIS.** In males the embolus arises retro-posteriorly whereas it is retrolateral in *B. booloumba* and antero-retrolateral in *B. brooyar*; palpal patellar apophysis blunt, inturned and shorter than *B. booloumba* and *B. brooyar* in which it is digitiform. Sclerotised base of epigynal atrium is bluntly rounded whereas it is sharply pointed in *B. booloumba*.
- DESCRIPTION.** *Male.* CL 2.0, AL 2.0. Ratio of AME: ALE: PME: PLE is 6:10:9:10. Legs 4123. I, 8.4; II, 7.0; III, 6.3; IV, 8.5. Notation of spines. Femora: I, D110, P001; II, D111, P001, R001; III, D110, P011, R001; IV, D110, P001, R001. Patellae: III, D001. Tibiae: I, P111, V222, R011; II, D001, P001, V221, R011; III, P011, V222, R011; IV, P111, V212, R101. Metatarsi spined with distal whorl of 5 spines.
- ♂ palp (Figs 2G-I, 4D). Embolus arises retro-posteriorly encircles tegulum to a distal curve postero-retrolaterally. Patellar apophysis short, blunt, slightly incurved.
- Males ranged in size from 3.1-4.0.
- Female* CL 2.2 AL 2.3, Ratio AME: ALE: PME: PLE is 7:11:10:11. Legs 4123. I, 8.2; II, 6.9; III, 6.3; IV, 8.3. Notation of spines similar to ♂ but fewer on ventral tibiae: III, V120; IV, V120. Epigynum (Fig. 2J,K) sclerotised base of atrium short with blunt-rounded apex. Small lateral teeth present.
- Females ranged from 3.1-4.9 (average 4.0).
- Scanning electron micrograph of the foveal region (Fig. 2D) revealed a pattern of dark spots which suggested pheromone production, however these were also found in the male. Further investigation of the pale areas near the fovea did not show any pores.
- DISTRIBUTION.** *B. yeppoon* (Fig. 8A) has been found from mid-eastern to southeastern Queensland. A male and female were collected

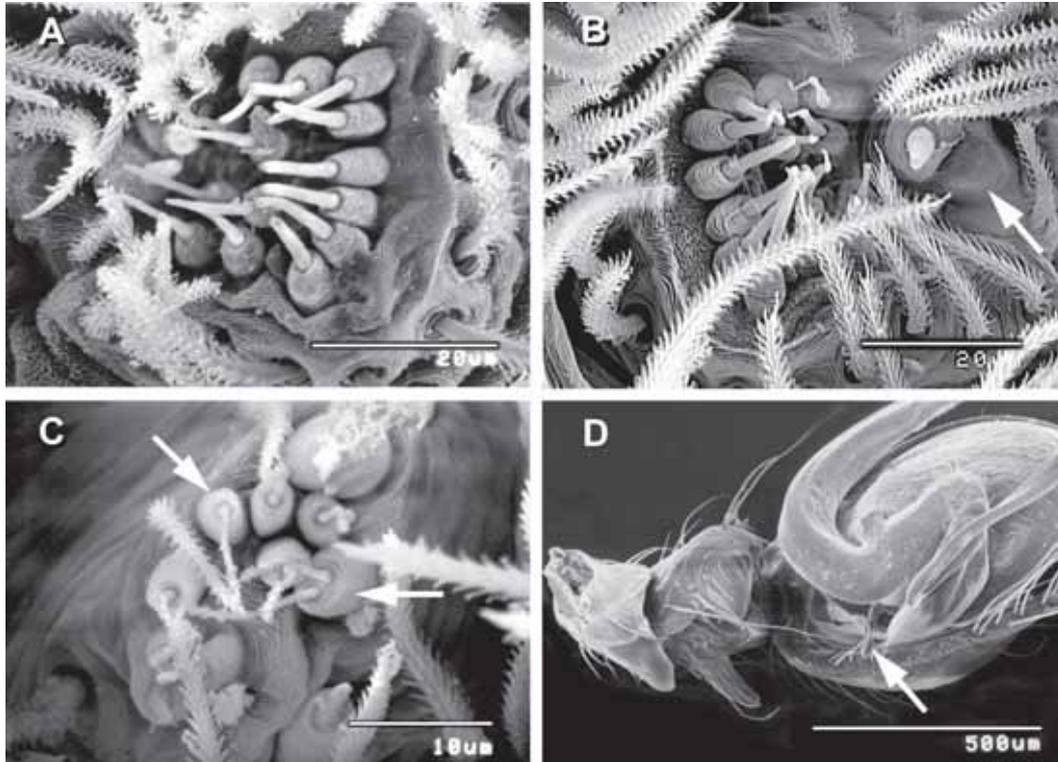


FIG. 4. A-D, *Barahna* spp. nov. A-C, *B. booloumba* spinnerets; A, ♀ ALS (left); B, ♂ ALS (right), arrow to nubbin; C, ♀ PMS, arrows to paracribellar spigots; D, *B. yeppoon*, ♂ palp, arrow to tegular apophysis.

from near the bat caves in Carrai SF, New South Wales.

***Barahna taroom* sp. nov.**
(Figs 5A-E, 8C)

ETYMOLOGY. From the type locality, Taroom.

MATERIAL. HOLOTYPE. ♂, Taroom, 9km N, southeast Queensland, 25°27'S, 150°08'E, PF, June-11 Sept. 1996, P. Lawless, H. Janetzki, D. Potter (QM S36452). PARATYPES. Queensland: ♀, Taroom, Dawson R., Nathan Gorge, riverine forest, PF, 12 Sept.-13 Jan. 1997, P. Lawless (QM S37019); ♂ ♀, same data (QM S37024); ♀, same data (QM S37034); 4 ♂ (QM S37049); 3 ♂, Taroom District, Nathan Gorge, riverine forest, PF107, 13 Nov. 96-13 Jan. 1997, P. Lawless (QM S36615); 2 ♂, same locality, PF010, 15 June-12 Sept. 1996, P. Lawless (QM S37265); 4 ♂, same data (QM S36860); 2 ♂, same locality, PF107, 13 Nov. 96-13 Jan. 1997, P. Lawless (QM S37076); 5 ♂, ♀, same data (QM S37096); ♂, Taroom District, 25°25'S, 150°01'E, Boggomoss no.19, PF105, 18 June-9 Sept. 1996, P. Lawless (QM S36811). ♂, Mt Zamia, 24°06'S, 148°05'E, vine scrub, 360m, PF9818, 27 Oct.-17 Dec. 2000, DC, GBM (QM S55215); ♂, Mt Gavial, 23°36'S, 150°29'E, open forest, 400m, PF7486, 17 Dec.

98-14 Mar. 1999, DC (QM S55217); ♂, Mt Hopeful, 23°45'S, 150°32'E, vine scrub, 440m, PF9012, 27 Sept.-15 Dec. 1999, DC (QM S55218); 2 ♂, Mt Gavial, 450m, open forest; PF7488, 18 Dec. 98-14 Mar. 1999, DC (QM S55224); ♀, Mt Gavial, 320m, vine forest, PF7489, 17 Dec. 98-14 Mar. 1999, DC (QM S55223); ♀, Mt Gavial, 400m, open forest, PF7687, 14 Mar.-28 June 1999, DC (QM S55222); 4 ♂, ♀, Nipping Gully, site 1, 25°41'S, 151°26'E, 200m, rainforest, PF7397, 9 Oct.-18 Dec. 1998, GBM, C. Gough (QM S55225); ♂, Nipping Gully, site 5, 200m, rainforest, PF7503, 9 Oct.-18 Dec. 1998, GBM, C. Gough (QM S55230); ♂, Nipping Gully, site 5, 300m, rainforest, intercept trap 7705, 26 Jan.-2 June 1999, GBM, GT (QM S55229); ♂, Wetheron, 25°34'S, 151°41'E, 150m, vine scrub, PF7509, 10 Oct.-19 Dec. 1998, GBM, C. Gough (QM S55228); ♂, East Woodmillar, 25°41'S, 151°36'E, 250m, vine scrub, intercept trap, GBM, C. Gough (QM S55231); ♂, ♀, Yeppoon, Meikleville Hill, 23°06'S, 150°43'E, vine thicket, PF, 18 July-23 Oct. 1990, DW, RJR, K. Williams (QM S55279); ♂, same locality and collectors, PF, 21 April-18 July 1990 (QM S34444); 3 ♂, ♀, same data (QM S34448); 3 ♀, Olsens Caverns, 23°10'S, 150°28'E, open forest, PF, 21 Apr.-18 July 1990, DW, RJR (QM S40767); ♀, Wonga Hills, 26°03'S, 150°49'E, site 4, 470m, brigalow, PF10249, 10 Oct.-11 Dec. 2002, GBM, DC (QM S55288). OTHER

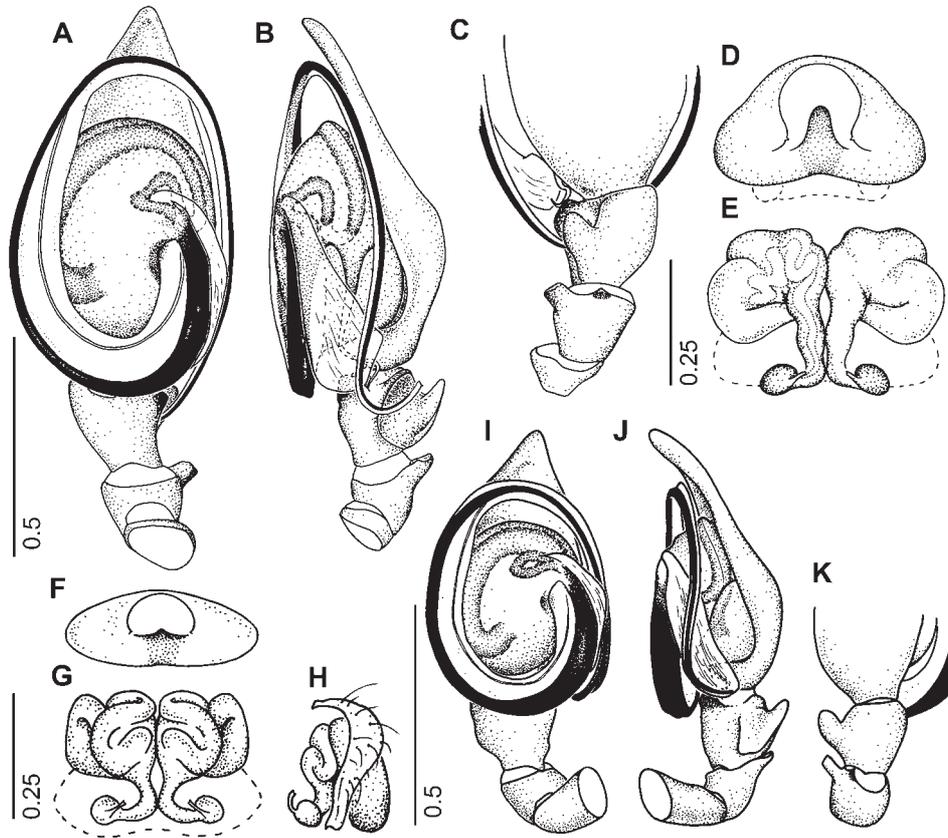


FIG. 5. A-K, *Barahna* spp. nov. A-E, *B. taroom*; A-C, ♂ palp (ventral, retrolateral, dorsal); D,E, ♀ epigynum (ventral, dorsal cleared); F-K, *B. scoria*; F-H, ♀ epigynum (ventral, dorsal cleared, lateral); I-K, ♂ palp (ventral, retrolateral, dorsal).

MATERIAL: 4♂, 2♀, Lower Dry Ck, Kroombit Tops, 45km SSW Calliope, 24°23'S, 150°56'E, 720m, microphyll rainforest, PF, site 10, 13-18 Dec. 1983, GBM, VED, J. Gallon, GT (QM S55242); 5♂, 2♀, same locality and collectors, 700m, PF, site 9, 11-18 Dec. 1983 (QM S45685); 3♀, Calliope Ra., Kroombit Tops, 24°22'S, 151°00'E, 880m, open forest, site 13, 12-18 Dec. 1983, GBM, VED, J. Gallon, GT (QM S55244); 2♂, The Caves, 23°11'S, 150°28'E, open forest, PF, 21 Apr.-18 July 1990, RJR, DW (QM S40757); ♀, same locality, PF, 21 Mar. 1991, RJR, DW, K. Williams (QM S19579).

DIAGNOSIS. Embolus arises antero-retrolaterally, unlike *B. yeppoon*, which has posterior origin, distally it is gently curved (Fig. 5B), unlike *B. booloumba* which is curled. ♂ palpal patellal apophysis is truncated (Fig. 5C.), unlike the other species. Basal sclerotisation of epigynal atrium is rounded anteriorly and longer than *B. yeppoon*, not pointed like *B. booloumba*; dorsal foveal protuberances reduced.

DESCRIPTION. Male. CL 2.2, AL 2.2. Ratio of eyes AME: ALE: PME: PLE is 6:8:9:10. Legs 4=123. I, 9.8; II, 8.0; III, 7.2; IV, 9.8. Notation of spines differs from *B. booloumba*: Femora: II, P011, R011. Tibia: III, V221, R011; IV, D001, V111, R111.

♂ palp (Fig. 5A-C). Embolus arising antero-retrolaterally; membraneous conductor broadening distally, tegular apophysis obscured by conductor. RTA digitiform; ventro-retrolateral apophysis blunt, sclerotised, inturned. Patellal apophysis short, truncate.

Other males were smaller, ranging from 3.2-3.8 in length.

Female. CL 1.5, AL 1.7. Legs 4123. I, 4.9; II, 3.9; III, 3.6; IV, 5.0. Notation of spines differs from *B. booloumba*. Femora: I, D100; III, D001; IV, D100. Tibiae: P001, V010; III, P101, V011, R101; IV, P101, V011, R101. Epigynum (Fig.

5D,E). Basal sclerotisation of atrium is long and rounded anteriorly. Insemination ducts and spermathecae similar to *B. booloumba*.

Females ranged in size from 3.2-3.6.

DISTRIBUTION. *B. taroom* (Fig. 8C) has been collected from mid-eastern to southeastern Queensland.

***Barahna scoria* sp. nov.**
(Figs 5F-K, 8C)

ETYMOLOGY. From the type locality Mt Scoria.

MATERIAL. HOLOTYPE. ♂, Mt Scoria, southeastern Queensland, 24°32'S, 150°36'E, 200m, vine scrub, PF 9468, 29 June-21 Oct. 2000, DC, J. Wright, E. Vanderduys (QM S55212), PARATYPES. 2♀, same locality as holotype, PF 9980, 20 Dec. 2000-23 Mar. 2001, DC, GBM (QM S55214); ♂, same data (QM S55213); 3♂, same locality, PF9452, 28 Mar.-29 June 2000, DC (QM S55216).

DIAGNOSIS. Embolus arises antero-retrolaterally, encircles tegulum and is gently curved distally like *B. taroom* and unlike other species. The sclerotised atrial base is low with a small pointed apex unlike *B. taroom* where the apex is thin and rounded.

DESCRIPTION. *Male*. CL 1.3, AL 1.3. Ratio of AME: ALE: PME: PLE is 5:8:7:8. Legs 4123. I, 5.0; II, 4.0; III, 3.6; IV, 5.2. Notation of spines. Femora: I, D101, P001; II, D100, P001, R001; III, D100, P001, R001; IV, D100, P001, R001. Patellae: I, D001; II, D001; III, D001; IV, D001. Tibiae. I, P011, V121, R001; II, P011, V112, R011; III, D001, P011, V012, R011; IV, D001, P011, V112, R011. Metatarsi spined with whorl of 4-5 spines distally.

♂ palp (Fig. 5I-K). Embolus emerging antero-retrolaterally from loop of sperm duct; slightly curved distally. Ventro-retrolateral tibial apophysis blunt and sclerotised, RTA short, digitiform. Patellal apophysis short, diagonally truncated.

Other males ranged from 2.5-2.9.

Female. CL 1.3, AL 1.5. Legs 4123. I, 4.3; II, 3.5; III, 3.2; IV, 4.6. Notation of spines. Femora: I, P001; II, D100; III, D100; IV, D100, R001. Tibiae: I, V020; II, V010; III, P011, R011; IV, D001, P001, R001. Metatarsi spined with whorl of 4-5 spines distally. Epigynum (Fig. 5F-H) sclerotised base of atrium low with small pointed apex.

The other female was 2.7 in length.

DISTRIBUTION. *B. scoria* (Fig. 8C) has been collected from only one locality, Mt Scoria.

***Barahna toonumbar* sp. nov.**
(Figs 6A-E, 8B)

ETYMOLOGY. From the type locality, Toonumbar SF.

MATERIAL. HOLOTYPE. ♂, Toonumbar SF via Grevillea, northern New South Wales, 28°28'S, 152°43'E, PF 23, 31 Mar.-2 Aug. 1975, GBM, SRM (QM S55259). PARATYPES. New SouthWales: ♂, same data (QM S55260); ♂, ♀, Border Ranges NP, Tweed Range Rd, 28°25'S, 153°02'E, 470m, 4 Feb.-9 Apr. 1993, M. Gray, G Cassis (AMKS35945); ♀, same data (AMKS35950); 3♀, Whian Whian SF, Running Rd, 28°36'S, 153°21'E, 250m, PF, 4 Feb.-9 Apr. 1993, MRG, G Cassis (AMKS35917); 2♀, Whian Whian SF, Mackays Rd, 420m, PF, MRG, G Cassis (AMKS35918).

DIAGNOSIS. Embolus shorter than that of previously described species; it arises postero-prolaterally ending mid-retrolaterally. Sclerotisation of base of epigynal atrium differs from previously described species; it is squarish and flat-topped.

DESCRIPTION. *Male*. CL 1.5, AL 1.4. Ratio of AME: ALE: PME: PLE is 6:9:8:8. Legs 4123. I, 4.3; II, 3.6; III, 3.3; IV, 4.9. Notation of spines. Femora: I, D101, P001; II, D011, P001, R001; III, D110, P001, R001; IV, D100, P001, R001. Patellae: III, D001; IV, D001. Tibiae: I, D001, P011, R011; II, D001, P101, V111, R101; III, D001, P101, V002, R101; IV, D101, P101, V112, R011. Metatarsi spined with whorl of 4-5 spines.

♂ palp (Fig. 6A-C). Embolus emerges postero-prolaterally; it describes about three-quarters of a circle around the tegulum to rest on the membranous conductor; tegular apophysis absent. The ventro-retrolateral apophysis inturns acutely to a point. RTA pointed. Patellal apophysis short.

Other two males 2.5 and 2.8 in length.

Female. CL 1.1, AL 1.5. Legs 4123. I, 3.4; II, 2.9; III, 2.6; IV, 3.6. Notation of spines. Femora: I, D100, P001; II, D100; III, D100, R001; IV, D100, R001. Patellae: II, D001; III, D001; IV, D001. Tibiae: I, V001; II, P001, V001, R001; III, D001, P101, V011, R101; IV, D100, P100, V001, R001. Metatarsi spined with whorl of 4-5 spines distally. Epigynum (Fig. 6D,E) basal sclerotised area flat-topped.

Other females ranged from 2.3-3.5.

DISTRIBUTION. *B. toonumbar* (Fig. 8B) has been collected from the Border Range area of northern New South Wales.

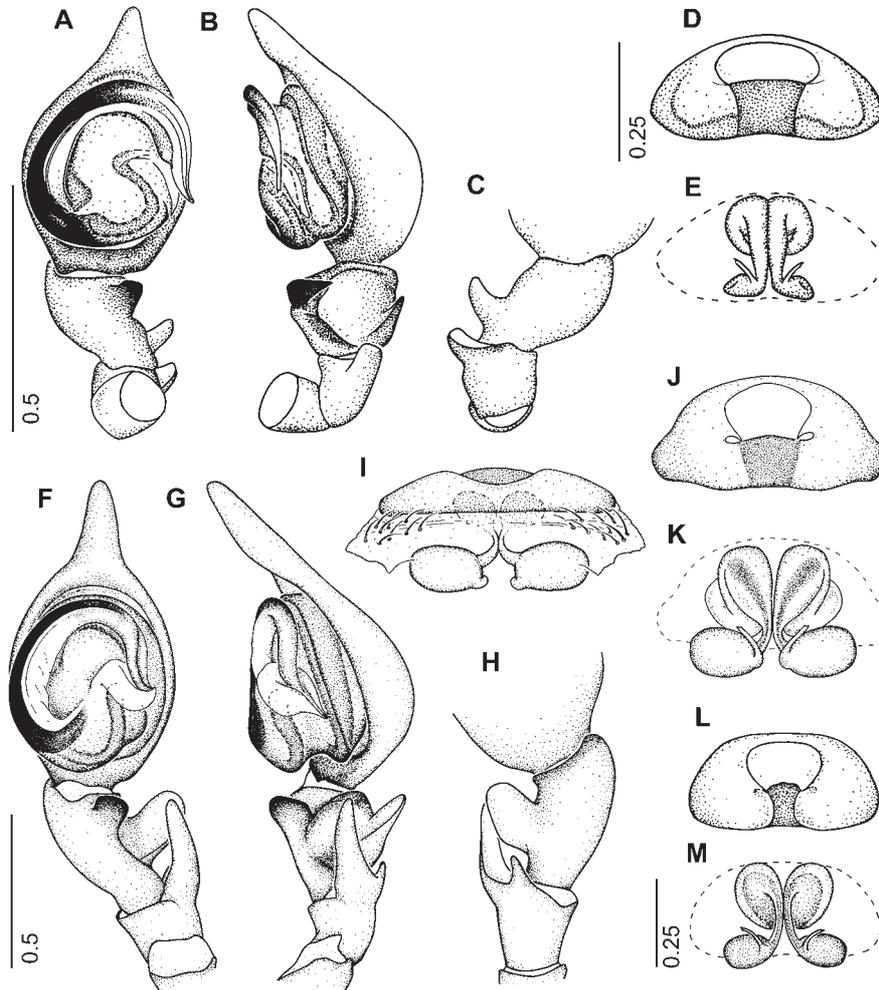


FIG. 6. A-L, *Barahna* spp. nov. A-E, *B. toonumbar*; A-C, ♂ palp (ventral, retrolateral, dorsal); D, E, ♀ epigynum (ventral, dorsal cleared); F-K, *B. myall*; F-H, ♂ palp (ventral, retrolateral, dorsal); I-K, ♀ epigynum (posterior, ventral, dorsal cleared); L, M, *Barahna glenelg*, ♀ epigynum (ventral, dorsal cleared).

***Barahna myall* sp. nov.**
(Figs 6F-K, 7B, C, 8B)

ETYMOLOGY. From type locality, Myall Lakes NP.

MATERIAL. HOLOTYPE. ♂, Myall Lakes NP, New South Wales, 32°38'S, 152°12'E, PF, 10 Oct. 1997, L. Wilkie (AM KS71037). PARATYPES. N.S.W.: 2♂, 2♀, Smiths Lake, Myall Lakes, 32°23'S, 152°30'E, dry sclerophyll, 8 May 1974, L. Blyton (AM KS34835); ♀ (tracheal tubes dissected) same data (AM KS34835); ♂, Myall Lakes, same data as holotype (AM KS71036); ♀, 1 June 1997 (AM KS71035); 3♂, ♀, same data as holotype (AM KS62448); ♀ (AM KS62449); ♀, with egg sac, Upper Allyn, 32°22'S, 151°32'E, MRG (AM KS34837);

♀, Gloucester, 56km W on Barrington Tops Forest Rd, 32°01'S, 151°22'E, 17 Mar. 1982, MRG, H. Parnaby (AM KS8829). ♂, Kerewong SF nr Lorne, 31°36'S, 152°34'E, PF coll. 15 July 1979, D. Milledge (AMKS5404); ♀, same data (AM KS71034). ♂, Lorne SF, 31°35'S, 152°57'E, PF, coll. 4 Nov. 1979, D. Milledge (AM KS5599); ♂, same data (AM KS5641); 2♀, same data (AM KS5667); 2♂, same location, coll. 30 July 1979 (AM KS16214); ♀, same data (AM KS16219); ♀, Dorrigo NP, Dorrigo-Bellingen Rd, 30°24'S, 152°45'E, PF, 18 Feb. 1993, MRG, G. Cassis (AM KS35767). ♀, Kuring-gai NP, Bobbin Head (W side), 33°39'S, 151°09'E, 10 Apr. 1974, MRG (AM KS34832); ♀, same locality, 10 May 1974, MRG (AM KS34833); ♀, same locality, 2 Nov. 1993, MRG (AM KS34834); 2♂, ♀, juvs. Maria SF nr Kempsey, 31°11'S, 152°50'E, in logs,

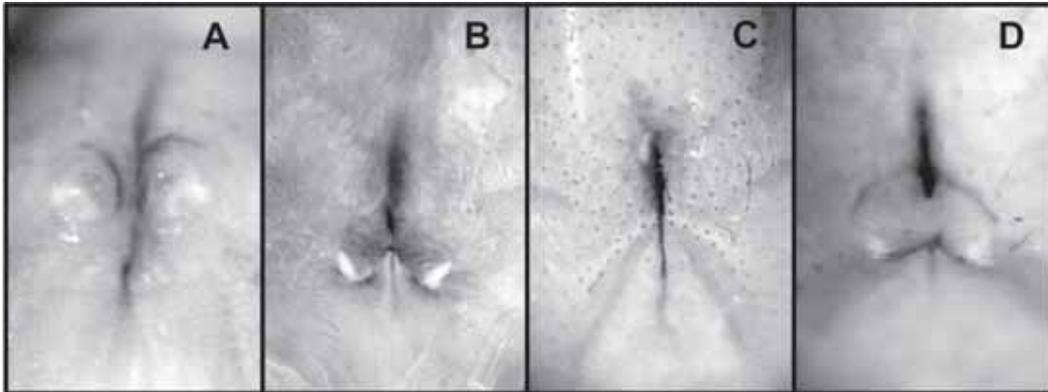


FIG. 7. A-D, *Barahna* spp. nov. foveal areas. A, ♀ *B. booloumba*; B, ♀ *B. myall*; C, ♂ *B. myall*; D, ♀ *B. glenelg*.

Eucalyptus gummifera (Bloodwood forest), 23 Apr. 1974, MRG (AMKS34836); ♀, Bulls Ground SF, nr Wauchope, 31°35'S, 152°41'E, PF, 10 Feb. 1991, A. York, NSW Forestry (AM KS43484); ♂, Kiwarrak SF, nr Taree, 31°58'S, 152°26'E, PF coll. 28 Sept. 1979, W.C. King (AM KS3943). 2 ♀, Glen Dhu Cave Timor, 31°34'S, 151°27'E, cave, 25 May 1995, S. Eberhard (AM KS57011).

DIAGNOSIS. Larger than other species, seldom less than 5.0 in length. Embolus arises postero-prolaterally and terminates mid-retrolaterally as in *B. toonumbar* and unlike other species. Patellar apophysis very long and bifid unlike *B. toonumbar*. Sclerotised base of atrium is flat and square like *B. toonumbar*. Spermathecae larger than other species.

DESCRIPTION. *Male.* CL 3.0 AL 2.4. Ratio of AME: ALE: PME: PLE is 10:13:12:13. Legs 4123. I, 10.5; II, 8.8; III, 8.0; IV 11.0. Notation of spines. Femora: I, D101, P002, R001; II, D101, P011, R011; III, D111, P011, R011; IV, D110, P001. Patellae: II, D001; III, D001. Tibiae: I, P110, V202, R011; II, P011, V222, R011; III, D001, P011, V222, R011; IV, D100, P101, V222, R011. Metatarsi spined with distal whorl of 5 spines.

♂ palp (Fig. 6F-H). Embolus arises posteriorly describing about three quarters of a circle round the tegulum to rest on membranous conductor. Tegular apophysis absent. Short, blunt ventro-RTA, digitiform RTA. Bifid patellar apophysis, longer than RTA.

Other males ranged from 3.6-5.6.

Female. CL 2.4 AL 2.8. Ratio of AME: ALE: PME: PLE is 9:13:11:14. Legs 4123. I, 7.9; II, 6.4; III, 5.7; IV, 8.5. Notation of spines. Femora: I, D101, P002, R001; II, D101, P011, R011; III, D111, P011, R011; IV, D110, P001. Patellae. II,

D001; III, D001. Tibiae: I, P110, V202, R011; II, P011, V222, R011; III, D001, P011, V222, R011; IV, D100, P101, V222, R011. Metatarsi spined with whorl of 5 spines distally.

The foveal area is almost flat and the associated pale areas dorsal rather posterior (Fig. 7B); further investigation did not show any pores. The male lacks the swellings and pale areas (Fig. 7C).

Epigynum (Fig. 6I-K). Basal sclerotised area of atrium flat-square; spermathecae large. Four simple tracheal tubes in abdomen, medians longer than laterals (dissection courtesy of M.R.Gray).

Other females ranged from 5.2-6.5.

DISTRIBUTION. *B. myall* (Fig. 8B) was collected from eastern New South Wales. Females from Kuring-gai NP near Sydney which are placed in this species need further confirmation when males are available.

***Barahna glenelg* sp. nov.**
(Figs 6L,M, 7D, 8D)

ETYMOLOGY. From the type locality, Glenelg R.

MATERIAL. HOLOTYPE. ♀, Glenelg R, Dartmoor, Victoria, 37°55'S, 141°16'E, under logs at base of limestone outcrop, 25 Mar. 1974, MRG (AMKS034839).

DIAGNOSIS. Foveal protuberances broader than other species. Basal sclerite flat-topped like *B. toonumbar* and *myall* but differing from these in being longer than wide.

DESCRIPTION. Female. CL 2.5, AL 2.9. Ratio of AME: ALE: PME: PLE is 8:10:9:9. Coloration and pattern similar to other species. Foveal protuberances occupying a wider area separating foveal groove (Fig. 7D). Legs 4123. I, 7.2; II, 6.5;

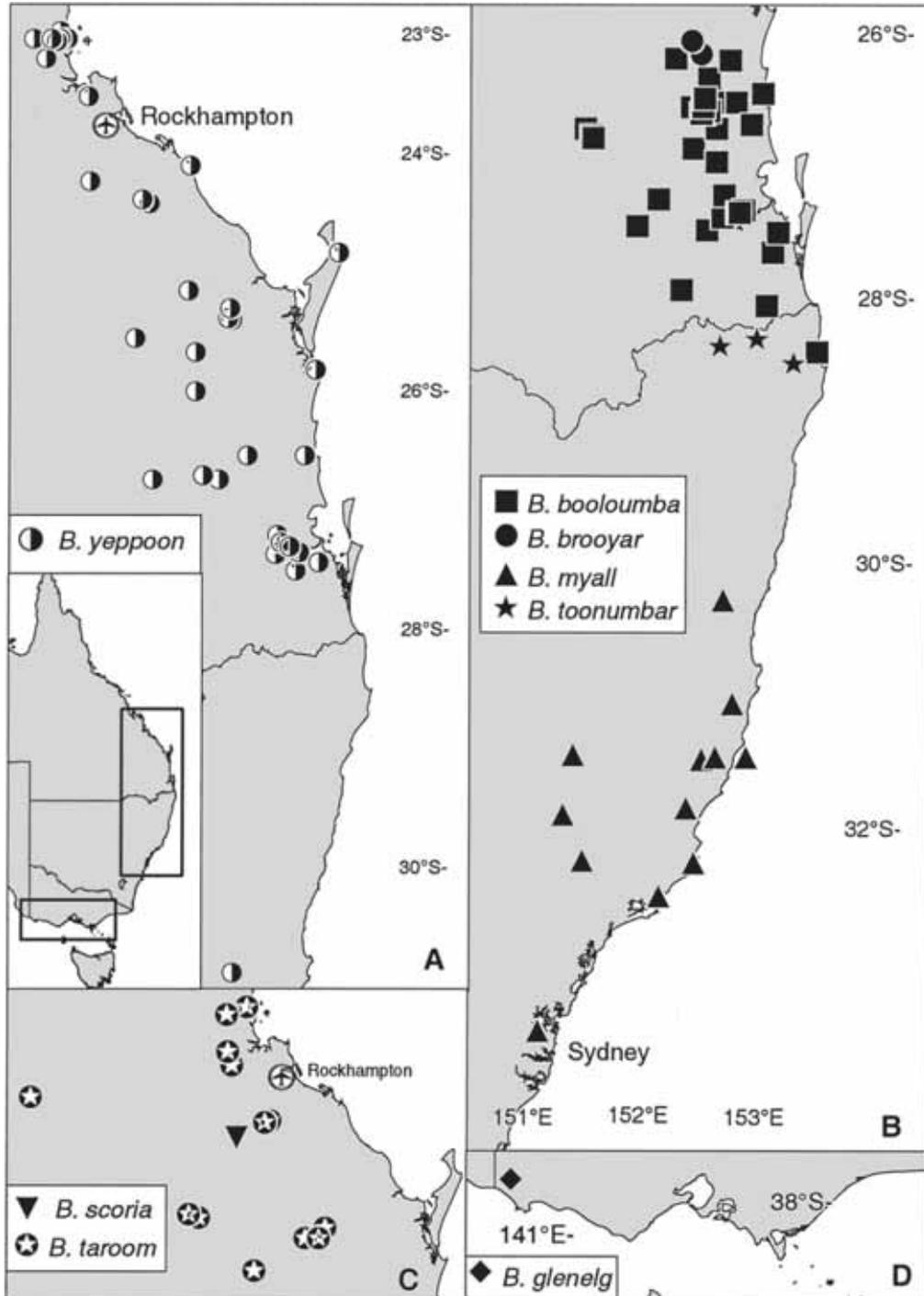


FIG. 8. A-D, distribution maps of *Barahna* spp. nov. A, *B. yeppoon*; B, *B. booloumba*, *B. brooyar*, *B. myall*, *B. toonumbar*; C, *B. scoria*, *B. taroom*; D, *B. glenelg*.

III, 5.9; IV, 7.8. Notation of spines. Femora: I, D101, P002, R001; II, D101, P001, R001; III, D111, P011, R001; IV, D101, P001, R001. Tibiae: I, P011, V221, R000; II, P011, V202, R011; III, D001, P101, V122, R101; IV, D001, P101, V112, R101. Metatarsi spined with distal whorl of 4-5 spines.

Epigynum (Fig. 6L,M). Basal sclerite of atrium longer than wide, flat-topped.

The male is unknown.

DISTRIBUTION. One female *B. glenelg* (Fig. 8D) has been collected from Glenelg R., near Dartmoor, Victoria.

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