ILLUSTRATED KEYS TO THE GENERA OF JUMPING SPIDERS (ARANEAE: SALTICIDAE) IN AUSTRALIA

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From the keys, accompanying notes and illustrations 57 presently described genera of Australian salticids can be identified. Four genera, *Rhombonotus, Canama, Jotus* and *Prostheclina* have been reinstated. Three genera, *Harmochirus, Omoedus* and *Mintonia* are newly recorded from northern Australia. The following spiders are illustrated for the first time: ? *Canama hinnuleus*, ? *Cocalus gibbosus*, & *Coccorchestes ferreus*, ? *Hypoblemum* sp., & *Ligonipes* sp., & 'Lycidas' *michaelseni*, ? *Maratus* sp., & *Prostheclina pallida*, ? *Sandalodes bipenicillatus*, ? '*Trite' daemelii*, and ? '*Trite' longula. Discocnemius* Thorell, 1881 and *Haterius* Simon, 1900 are newly synonymised with *Ligonipes* Karsch, 1878, resulting in new combinations: *D. lacertosus* = *L. lacertosus* (Thorell, 1881) n. comb.; *H. semitectus* = *L. semitectus* (Simon, 1900) n. comb. The Australian *Pystira* spp. have been transferred to *Zenodorus* thus *P. orbiculata* = *Z. orbiculatus* (Keyserling, 1881) n. comb. and *P. obscurofemorata* = *Z. obscurofemoratus* (Keyserling, 1881) n. comb.

□ Key, Salticidae, jumping spiders, Australia.

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In Koch and Keyserling's (1871-1883) monumental three volume work, *Die Arachniden Australiens*, more than 150 species of jumping spiders, mostly from Australia, were described. The work was well illustrated and contained a key to 46 genera, based mainly on habitus, lengths of legs and arrangement of eyes. Because these volumes are rare it seems opportune to publish new illustrations of as many Australian genera as we can identify and to construct keys using more reliable characters. We recognise that many more genera and hundreds of species are yet to be described.

Subsequent accounts of the genera of jumping spiders have dealt with the salticid genera of the world. A historical review was given by Peckham and Peckham (1885). Finding some names were preoccupied, they provided several new generic names, including 5 for Australian spiders (see list of genera p. 191). They also gave a key to 84 genera, rather less than were then described because the descriptions on which their key was based were too incomplete for some genera to be included. Simon (1897-1903) separated the jumping spiders of the world into 3 major divisions depending on the retromarginal dentition of the chelicera - the Pluridentati with several teeth, the Fissidentati with a divided tooth and the Unidentati with a single tooth or none; the last is by far the largest group. Whether the system is artificial (Zabka believes that it is) or not, it seems to be a practical and sensible way to structure keys when so few sub-families are sufficiently defined to be of use in this respect. It says much for Simon's analytical skill that these divisions, which he considered 'peut-être un peu artificielles', are still used. It is clear that within these divisions many natural groups of genera can be recognised. Simon (loc. cit.) gave keys to 'groupes' (some of which have since been recognised as sub-families) and within the 'groupes' he gave keys to genera. These keys, in association with the illustrations from Koch and Keyserling (loc. cit.) are the main basis for the identification of genera in Australia today. Petrunkevitch (1928) recognised and gave keys for 23 sub-families arranged, somewhat reluctantly, in Simon's three divisions; he listed the genera in the sub-families.

Chrysanthus (1968) redescribed and figured 20 salticid species from New Guinea, nearly all of which are also found in northern Australia. In recent revisions Wanless (1978, 1981, 1984a, 1984b) has redescribed and figured several Australian 'plurident' genera, culminating in his revision (1988) of the Astieae. This is the first and only comprehensive revision of a group of Australian salticids and in it he gives keys to genera and species.

Prószyński's (1984, 1987) recent atlases of specimens in European museums have been valuable. Zabka's (1987a, 1987b) drawings of some of the existing types are reproduced in this paper, along with other drawings from types and

many from fresh material. The key is divided into 3 sectional keys, the Pluridentati (16 genera), the Fissidentati (13 genera) and the Unidentati (28 genera). Short notes on the genera are given below the relevant part of the keys. Occasionally attention is drawn to the similarity between genera with different cheliceral dentition, suggesting that these are closely related e.g. *Harmochirus* (fissident) and *Bianor* (unident).

Many of the Australian spiders described by early workers were assigned to Northern Hemisphere genera to which they do not belong. In many cases this has been recognised and new names have been given or transfers made to other described genera. We recognise that several of the latter do not belong in these genera either. No new names have been supplied here as it is hoped that proper diagnoses and revisions of the genera will accompany such a move. The present names of seven such genera are placed in single inverted commas to indicate their indeterminate status e.g. 'Breda' jovialis.

Salticids are seldom less than 2.0mm in length, most are between 4.0-8.0mm. Unlike most spiders the males often exceed the females in size. The lengths of spiders in the size classes used are as follows: 'small', less than 4.0mm; 'medium', 4.0-8.0mm; 'large', more than 8.0mm.

The following abbreviations are used: ALE, anterior lateral eyes; AME, anterior median eyes; PLE, posterior lateral eyes and PME, posterior median (or middle) eyes.

A glossary of most of the terms used may be found in Davies (1986). Other terms: 'fossa(e)', the single or paired epigynal indentation(s) within which the gonopores are situated; 'pars cephalica', the anterior part of carapace, in front of PLE; 'pars thoracica', the posterior part of carapace, behind PLE; 'ocular quadrangle', quadrangle formed by ALE and PLE; 'posterior ocular quadrangle', quadrangle formed by PME and PLE.

ILLUSTRATIONS

Figures and labels on Plates 1 and 2 show the general structure of salticids and introduce the terminology used. The rest of the illustrations are an essential part of the keys and should be examined as these are worked through. In almost all instances, a dorsal view of the $\mathfrak P$ is drawn and often a lateral view of the carapace to show height. A ventral view and a 'cleared' view of the epigynum are given. The latter may be ventral, dorsal or a combination of both views; sometimes a schematic drawing showing the course of the insemination ducts to spermathecae and to fertilization ducts is included. The $\mathfrak F$ habitus is occasionally drawn;

ventral and retrolateral views of the left palp of the & are given. Leg 1 and a chelicera of the & and a may be drawn. The labium and endite(s) are illustrated if they are diagnostic. Usually only structures that do not appear in Plates 1 or 2 are labelled in subsequent Plates. An asterisk following the name of the species on the Plate indicates it is the type species of the genus. The drawings were done by Zabka using a grid system; some additional illustrations were done by Sybil Monteith using a camera lucida.

APPENDIX

An appendix gives the geographical localities of the specimens that have been drawn. Where a 'type specimen' has been examined the initials of the Museum where it is deposited is given.

ACKNOWLEDGEMENTS

We thank the Council of the Australian Biological Resources Study for the financial support of Marek Zabka while he did the illustrations for this paper at the Queensland Museum between July and October 1987. He supplied some additional drawings while holding the Australian Museum Fellowship 1987/88 in Sydney. We are grateful to the Directorate of the Queensland Museum for their support of Sybil Monteith who did supplementary drawings (unsigned) and the final lay-out of the illustrations. We thank Mr F. Wanless for permission to copy his drawings of ? Adoxotoma nigroolivacea and & Mintonia tauricornis.

We are grateful to Dr M. Gray for use of several spiders from the Australian Museum (AM), and the following colleagues for allowing examination of types in their collections: Mr F. Wanless and Mr P. Hillyard, British Museum of Natural History, London, England (BMNH); Dr G. Rack, Zoologisches Institut und Zoologisches Museum, Hamburg, BDR (ZMH); Dr J. Heurtault, Museum National d'Histoire Naturelle, Paris, France (MNHP); Dr M. Moritz, Museum fur Naturkunde der Humboldt — Universitat, Berlin, DDR (ZMB); Dr S. Langemark, Zoologisk Museum, Universitetspaken, Copenhagen, Denmark (ZMK); Dr Arbocco, Museo Civico di Storia Naturale, Genoa, Italy (MCG).

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We are grateful to Mr F. Wanless who made helpful comments on the keys at an early stage and to Professor N.I. Platnick and Mr Bruce Campbell who read, made corrections and suggested improvements to the final manuscript.

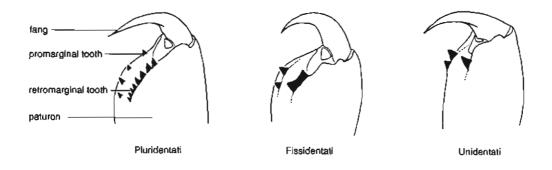
INDEX TO GENERA

PLURIDENTATI Plate	UNIDENTATI	Plate
Arasia Simon, 190116	Bianor Peckham & Peckham, 1885	47
Astia L. Koch, 187914	Clynotis Simon, 1901	56
Bavia Simon, 1877	Coccorchestes Thorell, 1881	
Cocalus C.L. Koch, 18464	Cosmophasis Simon, 1901	
Copocrossa Simon, 190112	Frigga C.L. Koch, 1851	
<i>Cyrba</i> Simon, 1876	Gangus Simon, 1902	
Damoetas Peckham & Peckham, 188511	Holoplatys Simon, 1885	
Helpis Simon, 190118	Hypoblemum Peckham & Peckham, 1885	
Jacksonoides Wanless, 198817	Jotus L. Koch, 1881 (reinstated)	
Ligonipes Karsch, 1878	Lycidas Karsch, 1878	
Mintonia Wanless, 1984 5	Maratus Karsch, 1878	40
Myrmarachne Macleay, 183810	Margaromma Keyserling, 1882	38
Portia Karsch, 1878	Menemerus Simon, 1868	55
Rhombonotus L. Koch, 1879 (reinstated) 9	Mopsus Karsch, 1878	
Sondra Wanless, 198819	Ocrisiona Simon, 1901	62
Tauala Wanless, 1988	Omoedus Thorell, 1881	
	Palpelius Simon, 1903	39
FISSIDENTATI	Plexippus C.L. Koch, 1846	
Adoxotoma Simon, 190927	Prostheclina Keyserling, 1882 (reinstated)	
<i>Canama</i> Simon, 1903 (reinstated)	Sandalodes Keyserling, 1883	
Cytaea Keyserling, 188230	Zenodorus Peckham & Peckham, 188535	
<i>Diolenius</i> Thorell, 186921		
Ergane L. Koch, 188124	Species (Unidentati) requiring revisions 1	before
Euryattus Thorell, 188132	generic resolution	
Harmochirus Simon, 188522	'Breda' jovialis (L. Koch, 1879)	58
Hasarius Simon, 187128	'Clynotis' albobarbatus (L. Koch, 1879)	59
Opisthoneus L. Koch, 188023	'Lycidas' michaelseni (Simon, 1909)	
Servaea Simon, 188731	'Menemerus' bracteatus (L. Koch, 1879)	
Simaetha Thorell, 188125	'Salpesia' squalida (Keyserling, 1883)	43
Simaethula Simon, 190226	'Trite' daemelii (Keyserling, 1883)	60
Tara Peckham & Peckham, 188520	'Trite' longula (Thorell, 1881)	54

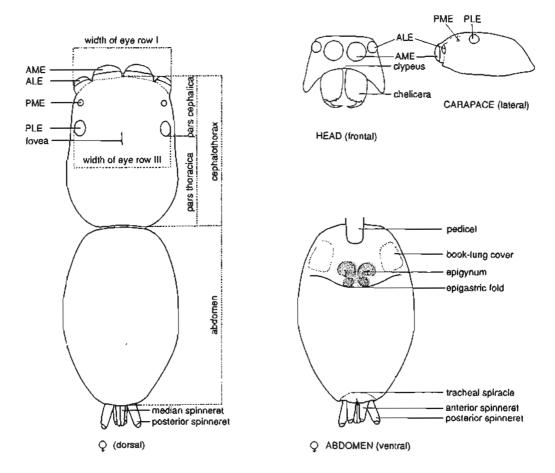
KEY TO FAMILY SALTICIDAE

The family is divided into 3 sections, based on the dentition of the inferior (retro-) margin of the chelicera (Plate 1). Şeparate keys are then given for each section.

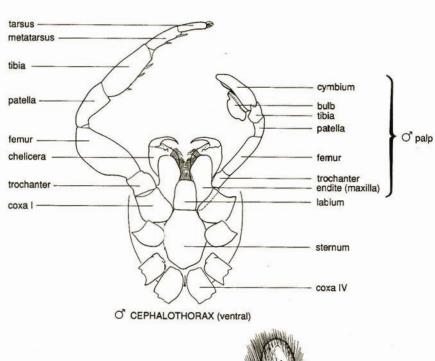
1.	Retromargin of chelicera with many teeth, isolated or in series(p.194) PLURIDENTATI
_	Retromargin of chelicera with one tooth2
2.	Cheliceral tooth with 2 cusps, rarely truncated or serrulate(p.214) FISSIDENTATI
_	Cheliceral tooth simple, occasionally absent(p.230) UNIDENTATI

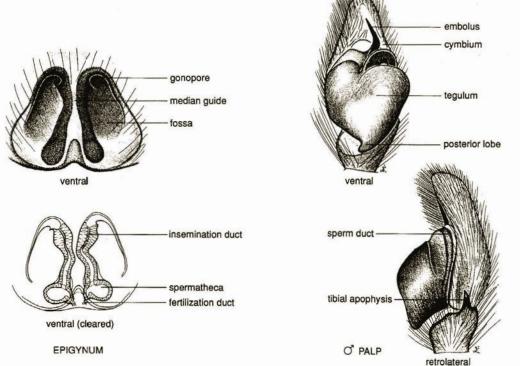


CHELICERAE (ventral)



1. MORPHOLOGY OF SALTICIDAE





2. MORPHOLOGY OF SALTICIDAE

PLURIDENTATI - KEY TO GENERA

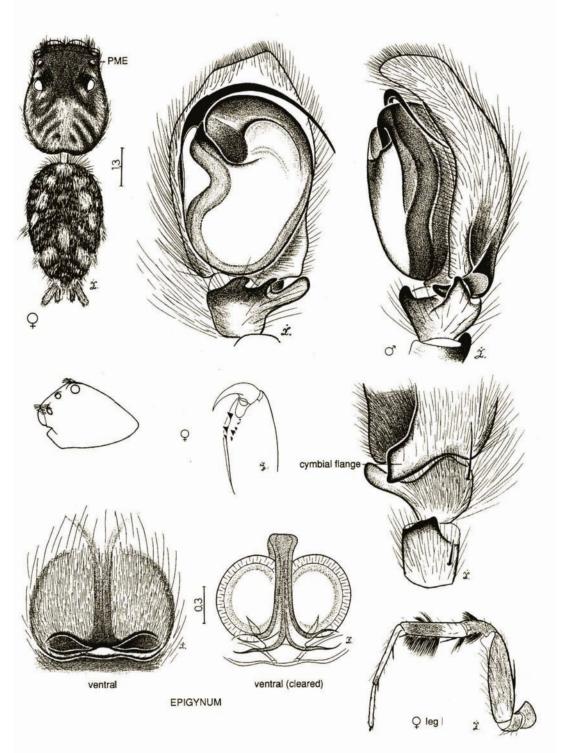
1.	Middle eyes (PME) relatively large; pars cephalica rising steeply to high point at level of PLE 2
-	Middle eyes small; pars cephalica flat or rising gradually
2.	Abdomen with tufts of hair; legs with fan-like fringes
	(northern Australia)
-	Abdomen without tufts of hair; legs without obvious fringes
3.	Small, low prominence in posterior ocular quadrangle
	(northern Queensland)
_	Without small prominence in posterior ocular quadrangle(Pl. 5) Mintonia
	(northern Queensland)
4.	Thoracic fovea unusually long. 9 epigynum with notched posterior margin(Pl. 6) Cyrba (introduced)
-	Thoracic fovea not unusually long. ♀ epigynum otherwise
	Spiders ant-like. Carapace at least 1.5 × longer than wide; widest part of carapace at or in front of PLE. Abdomen slightly constricted in the anterior third
-	Spiders not ant-like. Carapace not much longer than wide (exc. Copocrossa); widest part of carapace
	behind PLE. Abdomen not constricted
6.	♀ and ♂ tibia I heavily fringed
	and tibia I unfringed or very lightly fringed

Wanless (1978b) gives synonymies of *Portia* and *P. fimbriata*. There is an excellent coloured photograph of *P. fimbriata* in Jackson (1985a) showing its strange habitus particularly its tufted tibiae and thin elongate metatarsi and tarsi. At rest, in other spiders' webs, it resembles detritus. Reports of *Portia* spp. entering other spiders' webs are documented in Wanless (*loc. cit.*). Coleman (1978) and Murphy (in Wanless 1978b) appear to have been the first persons to observe the web-building of this highly specialised salticid. The biology of *P. fimbriata* has since been extensively studied by Jackson (1982a) and others. Williams and McIntyre (1980) showed that the anterior median eyes of *P. fimbriata* have a telephoto component enabling it to increase the image size and thus assist in the stalking and catching of prey. For further references on behaviour see Jackson and Hallas (1986a).

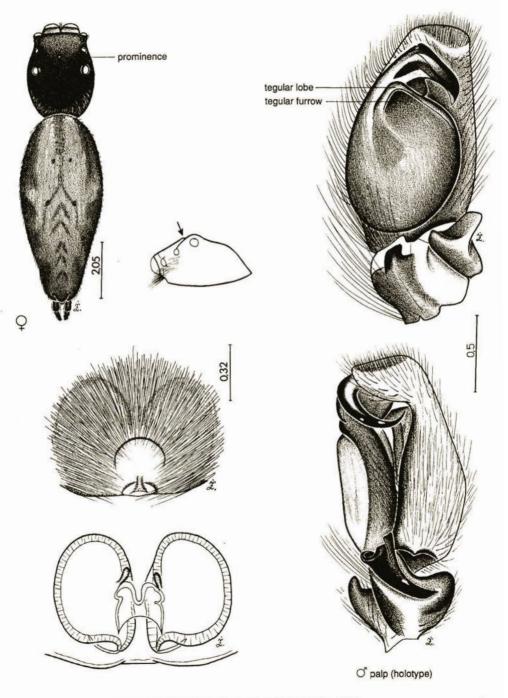
Wanless (1981) revised *Cocalus* and described δ *C. gibbosus*. The \circ is figured here for the first time. *Opisthoncus*, a fissident spider, also has a small prominence in the posterior ocular quadrangle, and occasionally it has plurident dentition; the structure of the δ palps and \circ epigyna easily distinguish the genera.

Mintonia is recorded from Australia for the first time. To give some idea of the & palp, drawings of M. tauricornis from Sarawak have been copied from Wanless (1984a).

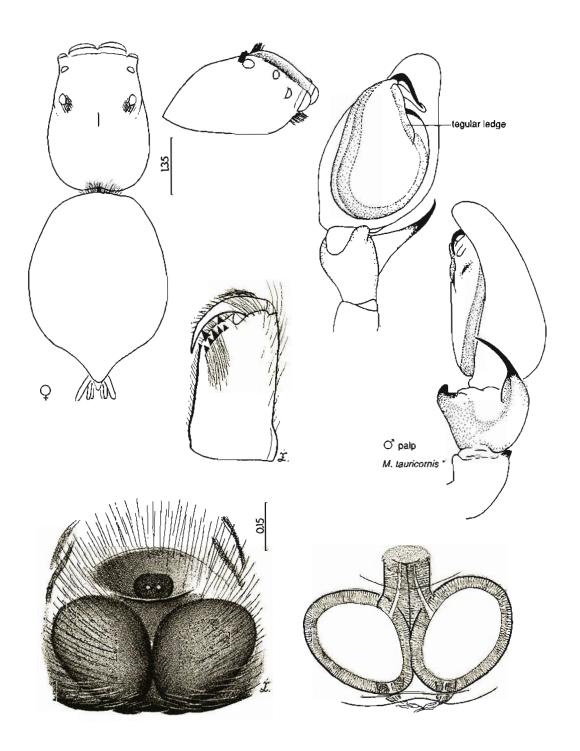
See Wanless (1984b) for synonymies of Cyrba and C. ocellata. In his revision Wanless (loc. cit.) gives excellent micrographs of the abdominal secretory organs of Cyrba spp. and discusses their possible significance. Jackson and Hallas (1986b) give behavioural data on C. algerina, which probably applies to all Cyrba spp. As well as being an effective cursorial predator of insects it invades other spiders' webs to eat them, their eggs and their kleptoparasites. Portia, Cocalus, Mintonia and Cyrba are among those that Wanless (1984a) has assigned to the sub-family Spartaeinae.



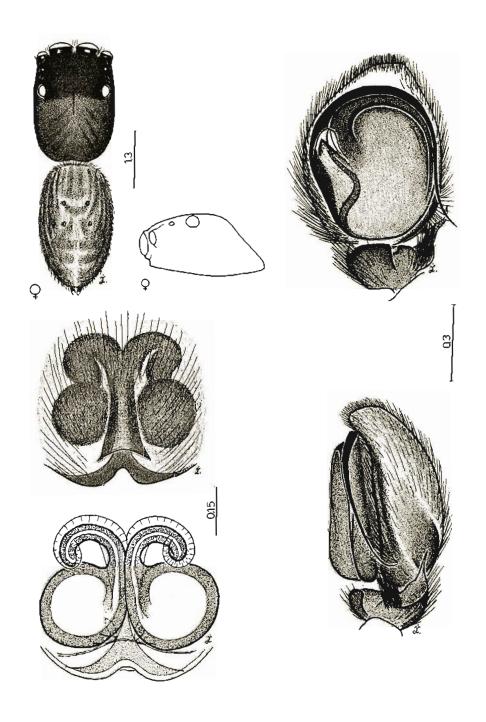
3. PORTIA FIMBRIATA (DOLESCHALL, 1859)



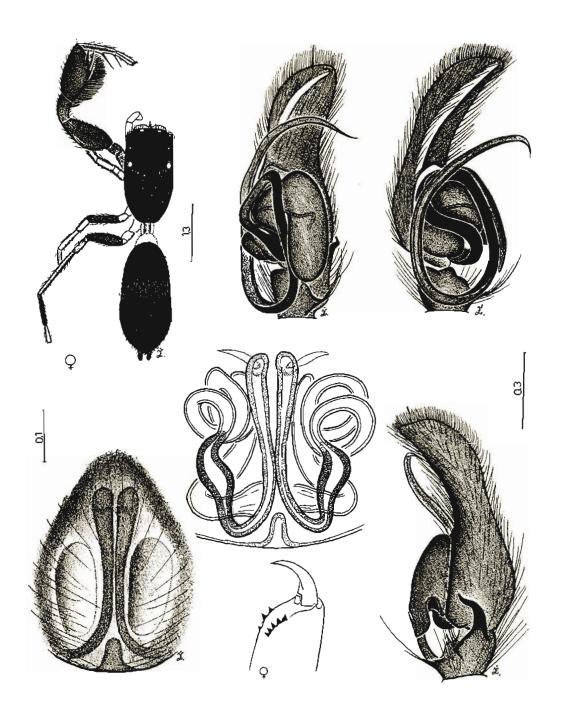
4. COCALUS GIBBOSUS WANLESS, 1981



5. MINTONIA SP. loc. Kuranda, northeast Queensland



6. CYRBA OCELLATA (KRONEBERG, 1875)



7. LIGONIPES SP. loc. Brisbane, southeast Queensland

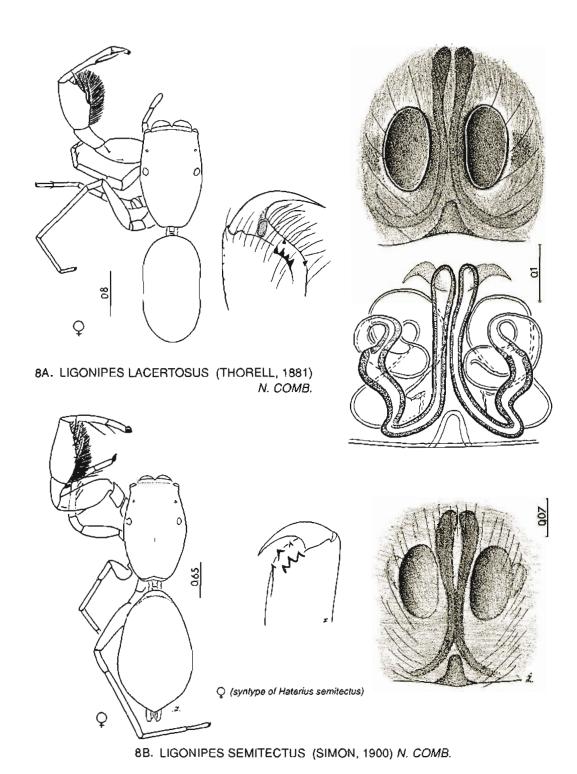
The 4 plurident ant-mimics Ligonipes, Rhombonotus, Myrmarachne and Damoetas form part of a natural group, the Myrmarachninae. The $\mathfrak Q$ holotype of L. illustris, type species of Ligonipes is very fragile and has not been dissected. Prószyński (1984: 158) illustrates the habitus. The species drawn here is probably not illustris, s.strict; & Ligonipes is illustrated for the first time. Discocnemius Thorell, 1881 and Haterius, Simon 1900 are newly synonymised with Ligonipes Karsch 1878, resulting in new combinations: D. lacertosus = L. lacertosus (Thorell, 1881) and H. semitectus = L. semitectus (Simon, 1900). The former is drawn from fresh material from the type locality, see also Prószyński (1984: 35); the latter is drawn from $\mathfrak Q$ syntype. The reasons for the synonymies are the possession of fringed and swollen tibiae I, the length and position of the ventral spines on metatarsus I, the position of the PME and the similarity of the $\mathfrak Q$ epigynal structures. L. lacertosus and L. semitectus may be conspecific.

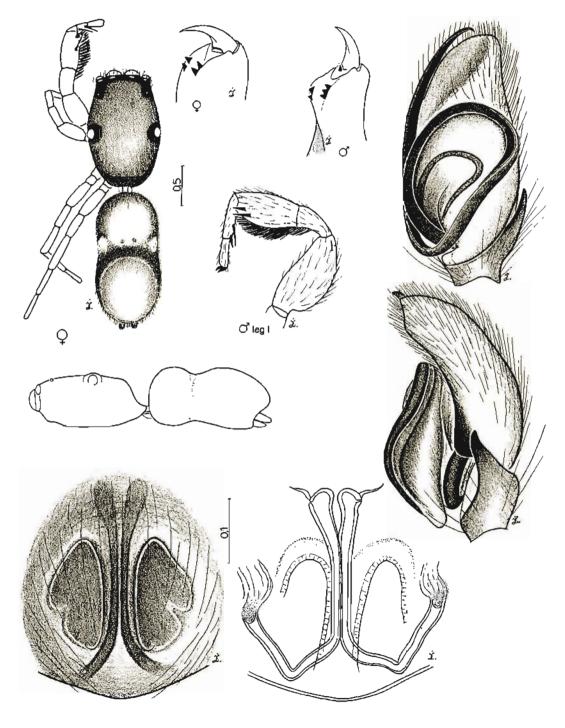
Rhombonotus Koch, 1879 was synonymised with Ligonipes by Simon (1897-1903: 493). It is reinstated as a valid genus differing from Ligonipes in habitus, eye arrangement and in having simple uncoiled insemination ducts in the 2.

The & Myrmarachne has strongly developed porrect chelicerae in contrast to the geniculate chelicerae of the \Im . The paddle-shaped \Im palp is fringed with preening setae (Wanless, 1978a). Jackson (1982b, 1986a) discusses the biology of M. lupata, its display in courtship and mating, its prey and predatory behaviour.

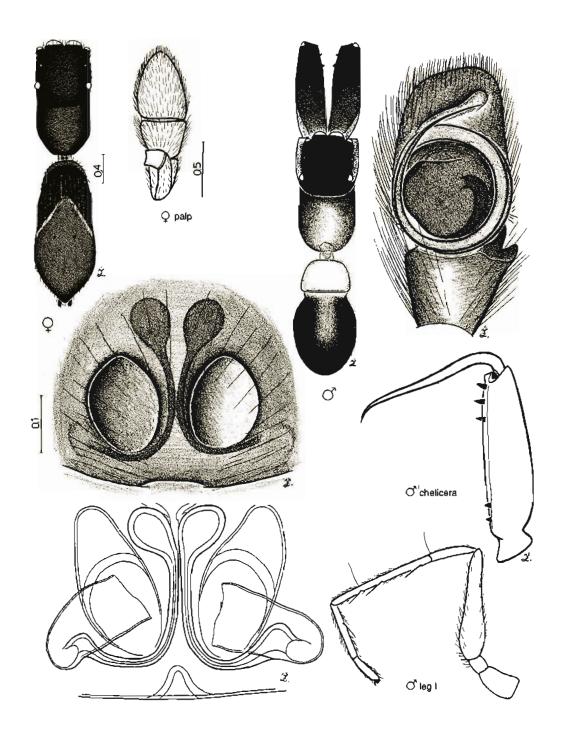
The δ palp of *Damoetas nitidus* is drawn from the type (loc. Sydney). The other figures are from a δ collected in Brisbane which may not be *nitidus*, *s.strict*. The \circ epigynum is from fresh material collected in Sydney.

The ? Copocrossa illustrated was collected from a cane field at Mission Beach, northern Queensland; it is almost certainly C. tenuilineata. The s is unknown.

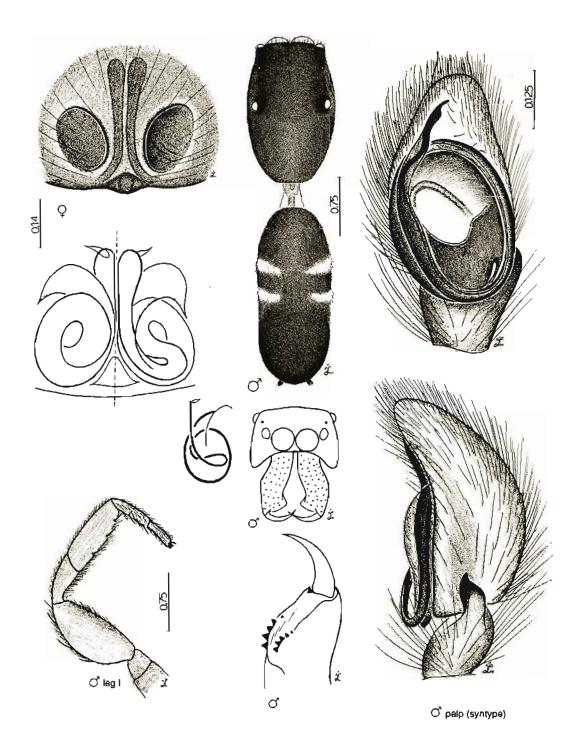




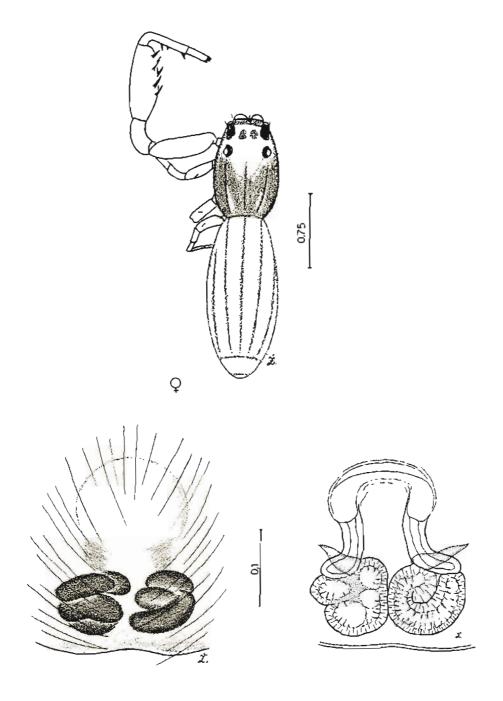
9. RHOMBONOTUS GRACILIS L. KOCH, 1879 *



10. MYRMARACHNE SPP. loc. o Brisbane, d'Goomeri, southeast Queensland



11. DAMOETAS NITIDUS (L. KOCH, 1880) *

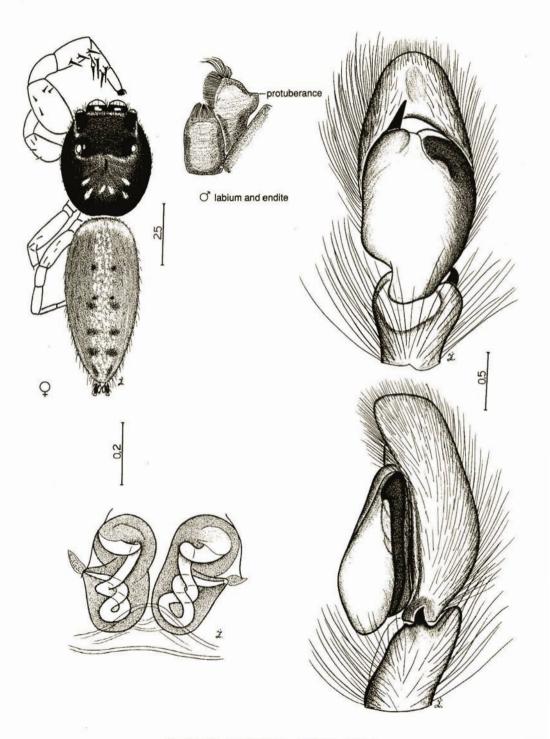


12. COPOCROSSA TENUILINEATA (SIMON, 1900) *

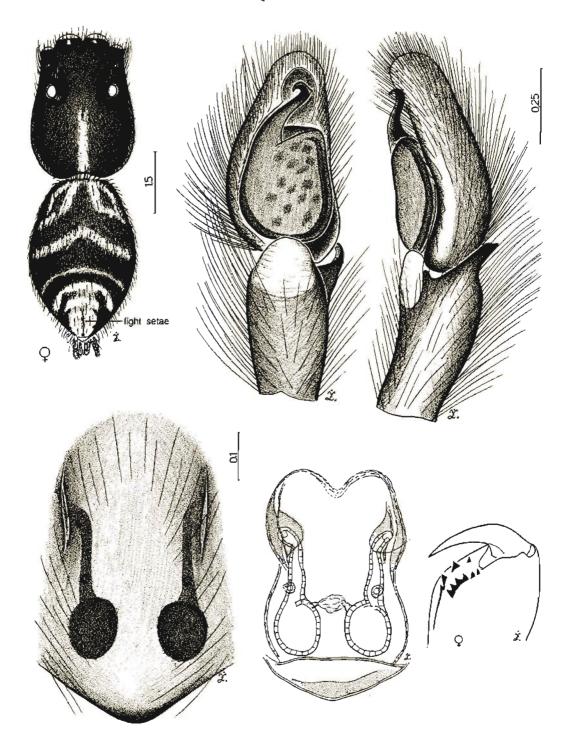
10.	Large (10mm +) spiders. Labium about twice as long as wide. Retrolateral protuberance on & endite
-	Small and medium-sized spiders. Labium not much longer than wide. Without retrolateral protuberance on ♂ endite
11,	Abdomen with conspicuous light dorsal patch of setae just anterior to anal tubercle
	Abdomen without conspicuous light dorsal patch of setae anterior to anal tubercle
-	Anterior surface of tracheal slit without patch of dark hairs; & palp with small to elongate embolus
13.	Carapace widest posteriorly, eye region small relative to carapace. Five pairs of ventral spines on tibia I
	Carapace not widest posteriorly; eye region relatively large. Rarely more than 3 pairs of ventral spines on tibia I, never 5 pairs
14.	Carapace with marked depression in foveal region emphasising prominence of PLE
-	Carapace without marked depression in foveal region
15.	Elongate spiders (especially δ) with conspicuous transverse ocular fringe in δ . δ tegulum with slight lobe posteriorly. \circ epigynum with strong lateral margins and relatively large triangular pouch
_	(sometimes difficult to see)
	near base of embolus. Pepigynum without strong lateral margins, without pouch; caudal lobe present
	Product comments of the state o

Simon (1897-1903: 470) recognised that the type species of Acompse Koch, 1879, A. suavis, was a junior synonym of Bavia aericeps Simon, 1877. B. aericeps is found on palms and other trees in tropical Australia. It appears to be un-related to other plurident spiders and to have its closest relatives among the large unident salticids, Mopsus and Sandalodes. Jackson (1986b) gives details of the display behaviour of the δ which varies depending on the maturity and location of 9.9.

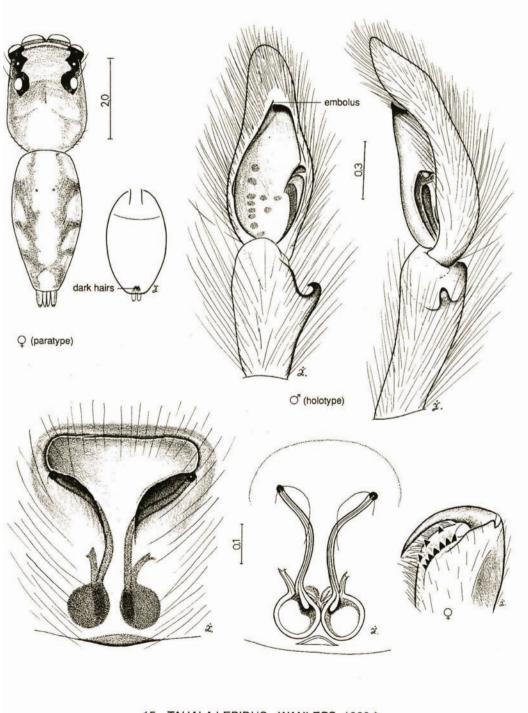
The next 6 genera, forming the Astieae, have been revised recently by Wantess (1988) and this part of the key is a simplified version of his. This is the only revision of a group of Australian salticids to be undertaken since the original description of Astia Koch, 1879 and Simon's (1897-1903: 438) subsequent transfer of 2 species as types of the genera, Helpis and Arasia. Mascord (1970, Pl. 10, fig. 36) shows a Astia hariola. Jacksonoides kochi (Simon 1900), originally described as Lagnus kochi, is found on tree trunks in northern Oueensland and is figured here; J. queenslandicus is the type species. Astia. Arasia and Helpis are found in open sclerophyll forests whereas Jacksonoides, Tauala and Sondra are from rainforest areas, the last from leaf litter. We believe that Arasia aurea does not belong in Arasia and probably represents a new genus. Jackson (1988a) reports that J. queenslandicus invades the webs of other spiders and has a large and complex repertoire of displays used in intra-specific interactions. Regrettably, his paper on the behaviour of J. queenslandicus was given page precedence in the same journal as Wanless' paper (1988) describing Jacksonoides. It is recognised as a nomen nudum in the former which is corrected in the latter. Jackson (1988b) gives an account of the behaviour of Taugla lepidus which spins its nest on the underside of leaves. Like Portia, Cyrba and Jacksonoides it is araneophagic, kleptoparasitic and oophagic, i.e. it may enter other spiders webs to catch spiders, it may take insects from the webs, and as well eat the eggs of other spiders. Sondra is a large genus divided by Wantess into 4 species groups.



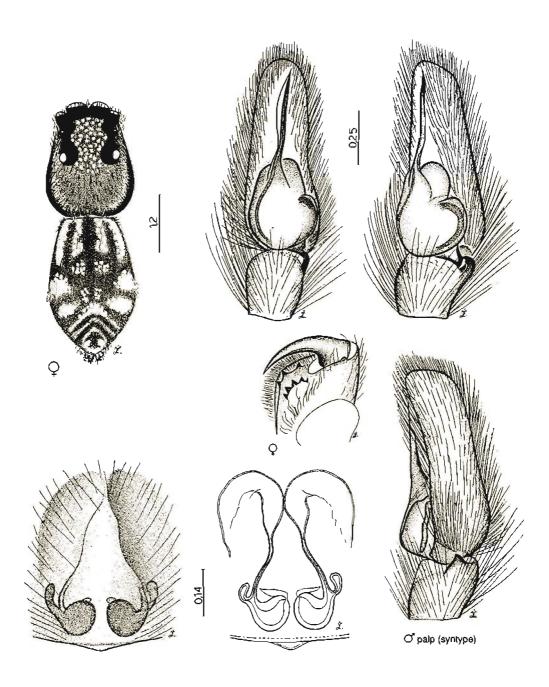
13. BAVIA AERICEPS SIMON, 1877 *



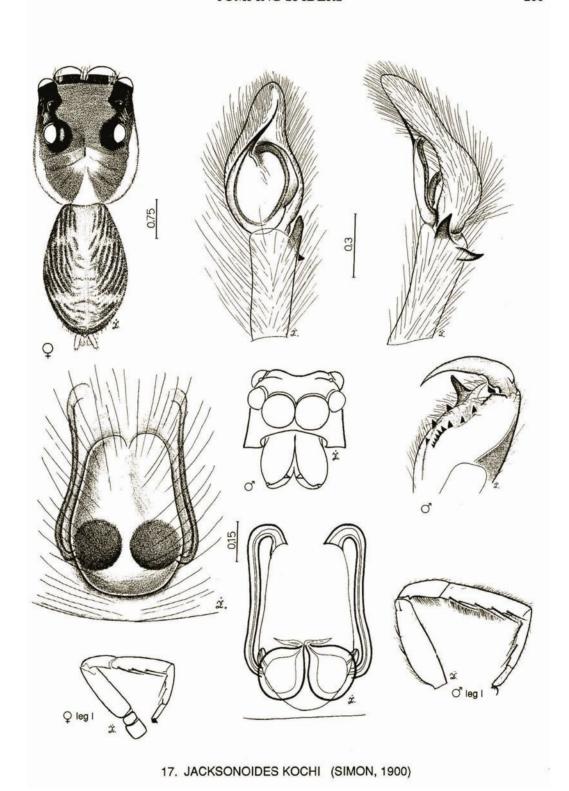
14. ASTIA HARIOLA L. KOCH, 1879 *

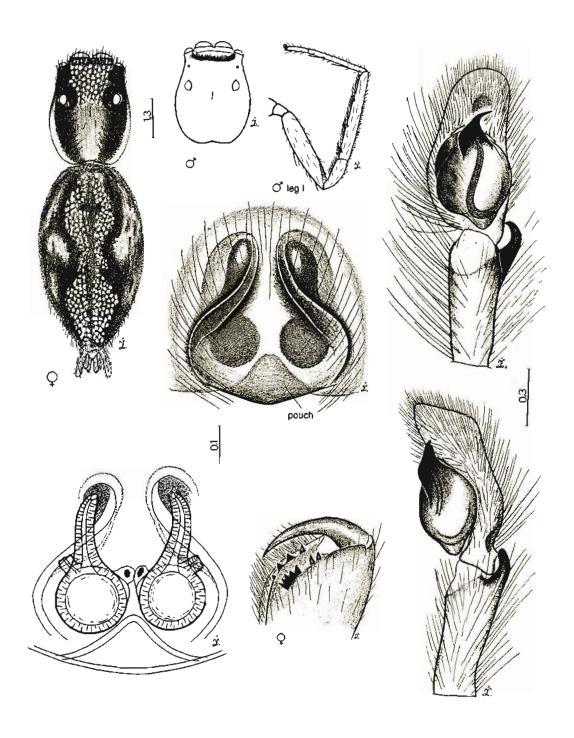


15. TAUALA LEPIDUS WANLESS, 1988 *

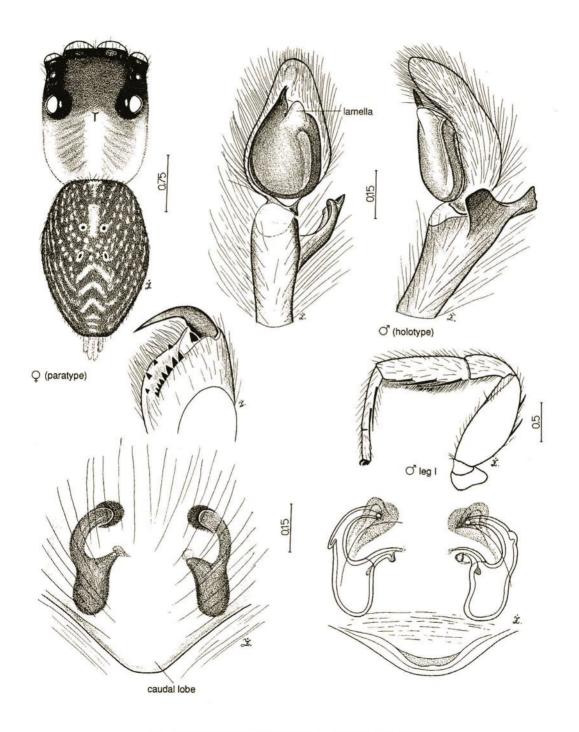


16. ARASIA MOLLICOMA (L. KOCH, 1880) *





18. HELPIS MINITABUNDA (L. KOCH, 1880) *



19. SONDRA NEPENTHICOLA WANLESS, 1988 *

FISSIDENTATI — KEY TO GENERA

 Coxa I slightly longer than coxa II Carapace high and uneven; PLE on pronounced tubercles. δ and φ tibia I swollen with hea fringing	1.	Coxa i almost twice or more as long as coxa II
2. Carapace high and uneven; PLE on pronounced tubercles. δ and γ tibia I swollen with hea fringing	-	Coxa I slightly longer than coxa II
- Carapace flat; PLE not on pronounced tubercles. δ tibia I not swollen, slight fringing	2.	Carapace high and uneven; PLE on pronounced tubercles. & and 9 tibia I swollen with heavy
(Pl. 20) Ta (2 unknow 3. Carapace wider than PLE	_	
(2 unknow 3. Carapace wider than PLE		
3. Carapace wider than PLE		,
(northern Australian PLE (Pl. 22) Harmochir (northern Australian PLE (Pl. 22) Harmochir (northern Australian Pl. 23) Opisthone Without median prominence in posterior ocular quadrangle (Pl. 23) Opisthone Ocular quadrangle clearly much wider behind than in front Ocular quadrangle equal or narrower behind Pl. 24 Ergan (9 unknow Pl. 24 Ergan (9 unknow Plicate tooth on cheliceral retromargin of \$\frac{1}{2}\$. Long spiniform embolus if anti-clockwise,	3	
- Carapace narrower than PLE	٠.	
(northern Australia) 4. Small median prominence in posterior ocular quadrangle	_	
 4. Small median prominence in posterior ocular quadrangle		
 Without median prominence in posterior ocular quadrangle Ocular quadrangle clearly much wider behind than in front Ocular quadrangle equal or narrower behind Trifurcate tooth on cheliceral retromargin of δ. Short, thick embolus curved in anti-clockwidirection (left palp) Pl. 24 Ergal (9 unknow) Bifurcate tooth on cheliceral retromargin of φ, δ. Long spiniform embolus if anti-clockwise, 	1	Small median prominance in posterior ocular quadrangle (No. 12) Opicida and
 Ocular quadrangle clearly much wider behind than in front	٠.	Without median prominence in posterior ocutar quadrangle
 Ocular quadrangle equal or narrower behind Trifurcate tooth on cheliceral retromargin of δ. Short, thick embolus curved in anti-clockwing direction (left palp) Pl. 24 Ergan (9 unknow) Bifurcate tooth on cheliceral retromargin of φ, δ. Long spiniform embolus if anti-clockwise, 		
 Trifurcate tooth on cheliceral retromargin of δ. Short, thick embolus curved in anti-clockwise direction (left palp) Pl. 24 Erga. (Չ unknow Bifurcate tooth on cheliceral retromargin of Φ, δ. Long spiniform embolus if anti-clockwise, 		
direction (left palp)		
(9 unknow - Bifurcate tooth on cheliceral retromargin of 9, 3. Long spiniform embolus if anti-clockwise,	6.	
- Bifurcate tooth on cheliceral retromargin of 9, 8. Long spiniform embolus if anti-clockwise,		direction (left palp)
		(º unknown)
	-	Bifurcate tooth on cheliceral retromargin of \circ , \circ . Long spiniform embolus if anti-clockwise, or embolus clockwise

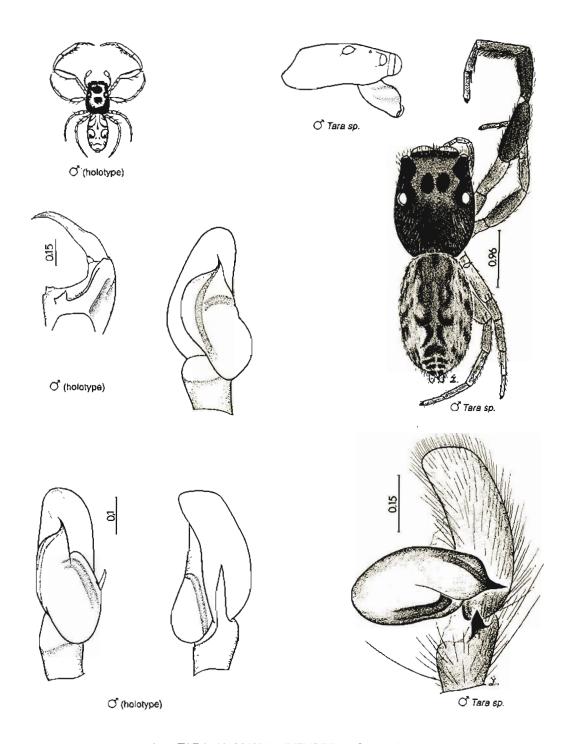
The dorsal view of Tara anomala is copied from the illustration in Koch and Keyserling (1871—1883). There are some undescribed 9988 of a small, flat spider, usually shaken from foliage, which have a similar & palp to that of Tara anomala but do not have such elongate coxa and trochanter I. Until 9 T. anomala is known these cannot be assigned with certainty to Tara and have not been figured. Diolenius, a fly-mimic is found on the leaves of palms, ginger and other plants in north Queensland.

The spider moves backwards, its elongate front legs resembling the wings of a fly.

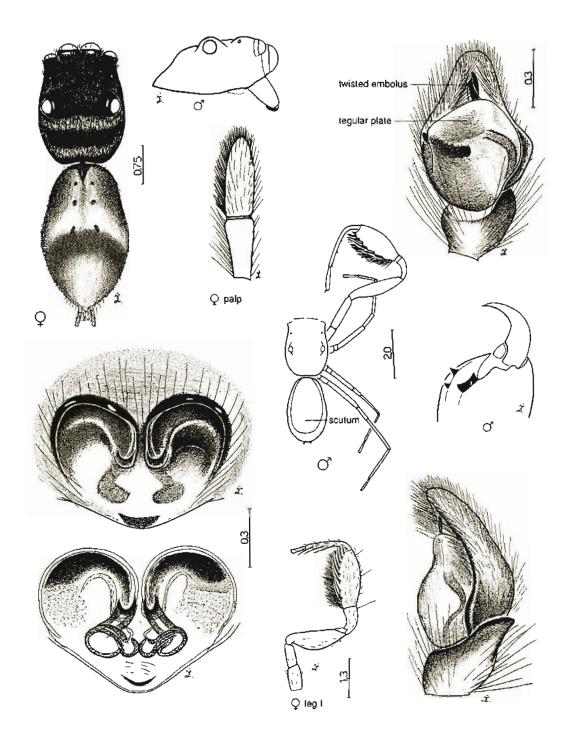
Harmochirus is recorded from Australia for the first time. It appears to be closely related to the unident genus Bianor. They have similar body shapes, & palpal and Q epigynal structure. Bianor lacks swelling and heavy fringing on tibia I.

Opisthoneus is widespread in Australia with more than twenty described species. A few species have separate teeth (plurident) on the cheliceral retromargin rather than one divided tooth. The & chelicera often has ventral and dorsal as well as marginal teeth.

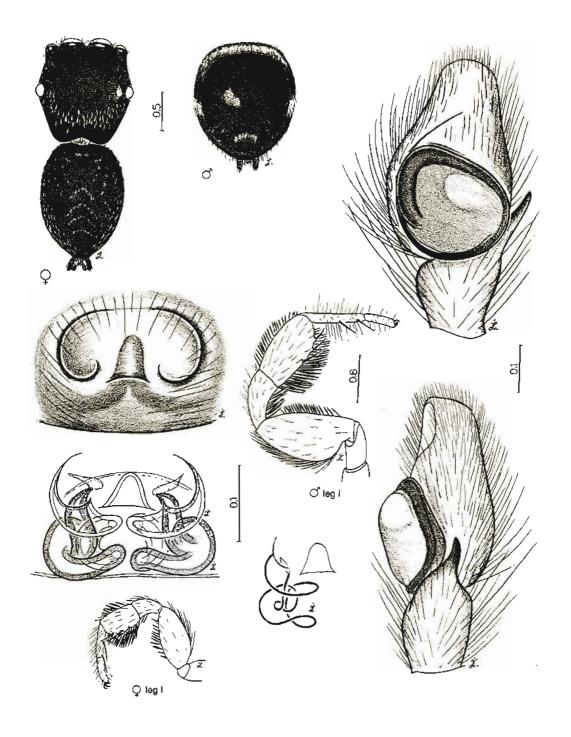
Ergane cognata is known only from the 8 holotype from Pellew Is in the Gulf of Carpentaria, Northern Territory. The dorsal view is copied from the illustration in Koch and Keyserling (loc. cit.).



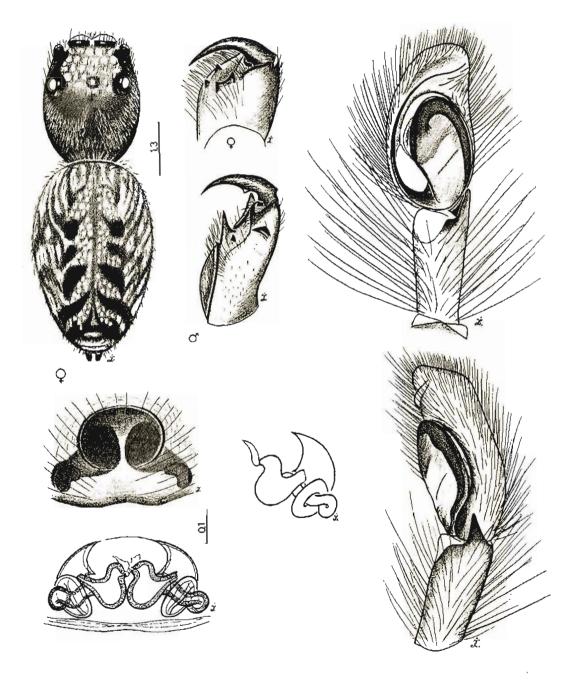
20. TARA ANOMALA (KEYSERLING, 1882) *



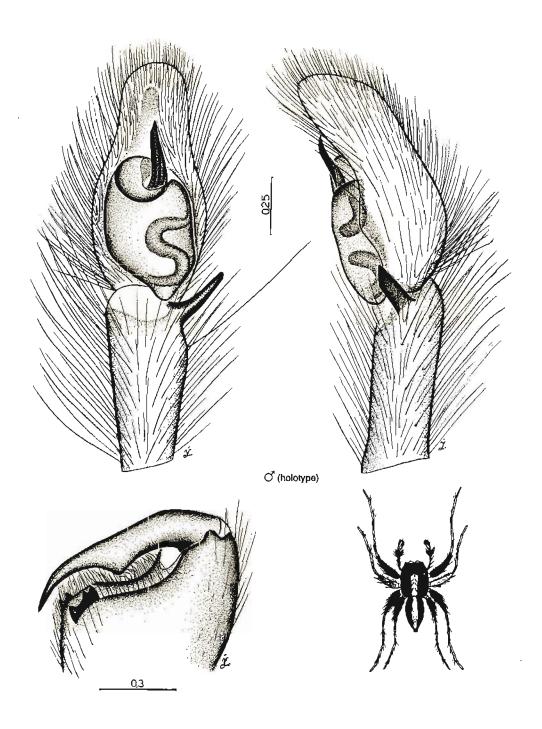
21. DIOLENIUS SP. loc. Cape York Peninsula, north Queensland



22. HARMOCHIRUS BRACHIATUS (THORELL, 1877) *



23. OPISTHONCUS PARCEDENTATUS L. KOCH, 1880



24. ERGANE COGNATA L. KOCH, 1881 *

7.	PLE about middle of carapace. PME not much further from PLE than from ALE. 9, 8 sternum
_	with conical prominence
	prominence(Pl. 26) Simaethula
8.	Five pairs of ventral spines on ? tibia I(Pl. 27) Adoxotoma
	(& unknown)
-	Rarely more than 3 pairs of ventral spines on ? tibia I, never 5 pairs9
9.	Embolus short, uncoiled. Epigynum small and indistinct(Pl. 28) Hasarius
	(introduced)
-	Embolus coiled in anti-clockwise direction (in left palp). Epigynum clearly defined10
10.	
	(northern Australia)
-	& chelicerae, geniculate. ♀ epigynum with paired fossae, clear median guide11
11.	Frontal surface of chelicera rounded. ? insemination ducts clearly evident through the integument,
	posterior to fossae. & embolus 2-coiled; tegulum almost as wide as long
-	Frontal surface of chelicera rounded or flat. 9 insemination ducts hardly if at all evident, level
	with fossae. 8 embolus with single coil; tegulum clearly longer than wide
12.	Frontal surface of chelicera rounded. & chelicera bowed prolaterally with transverse ridges. &
	tegulum with lobe posteriorly; embolus pointed. & endite with retrolateral protuberance
	(Pl. 31) Servaea
_	Chelicerae flat-fronted, smooth. & chelicerae straight-edged without ridges. & tegulum without
_	lobe posteriorly; embolus bifurcate at tip. δ endite without retrolateral protuberance
	(,,,

Simaetha spp. are medium-sized spiders that are commonly found in small webs under the bark of eucalypts. Jackson (1985c) discusses their web-building, predatory and intraspecific behaviours.

Simaethula is a small spider closely related to Simaetha.

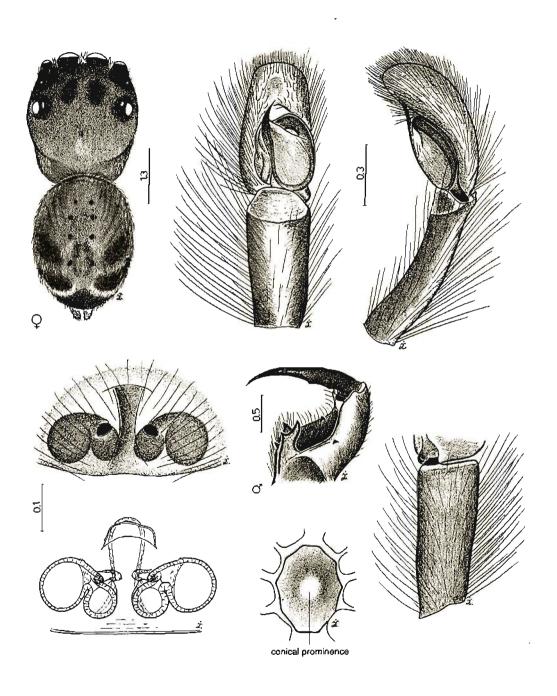
Hasarius adansoni, an introduced spider, is often the first spider to colonise new buildings in Brisbane. Adoxotoma, usually regarded as a plurident spider because the carapace resembles that of the Astieae, is placed here because of its fissident retromarginal dentition. The ? is unusual having strong spination (without swelling) on tibia 1. The & is not known. Apart from the drawings of the epigynum and leg I, the illustrations are copied from Wanless (1988) who, in his revision of the Astieae, did not assign Adoxotoma to a sub-family.

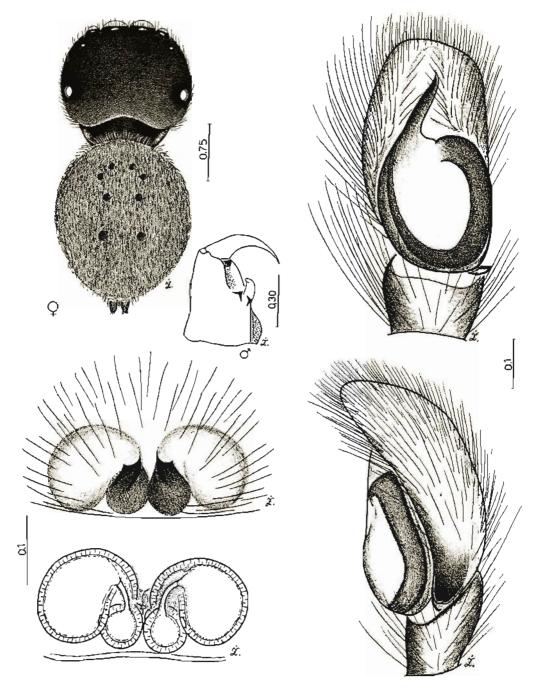
The ? Canama hinnuleus is illustrated for the first time. Prószyński (1984) transferred C. hinnuleus to Bathippus and later (1987 in index) synonymised C. forceps, the type species with Bathippus cervus. We believe that Canama is a valid genus that differs in cheliceral and epigynal structure from Bathippus (see B. sedatus and B. shelfordi in Zabka, 1988).

Cytaea spp. are found in grassland and on the leaves of shrubs and trees. The abdominal hairs are often rubbed off in preserved specimens which thus show less pattern.

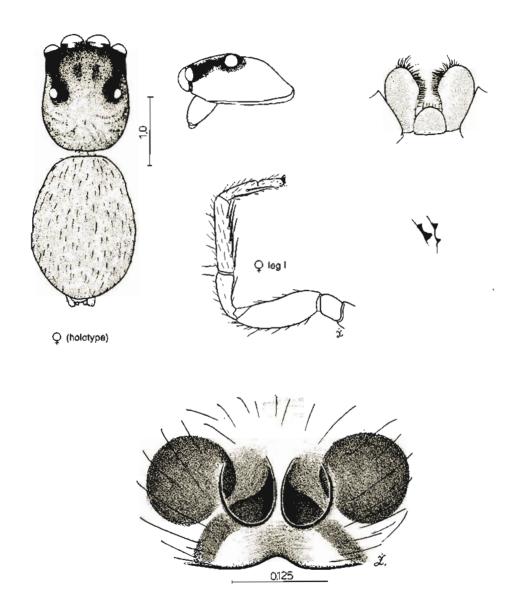
Simon (1887: CLXXXVI) provided the replacement name Servaea for Scaea L. Koch, 1879 praeocc. Servaea vestita is found under the loose bark of eucalypts. The spider (as Plexippus validus) in Mascord (1970, Pl. 11, fig. 42) is probably Servaea.

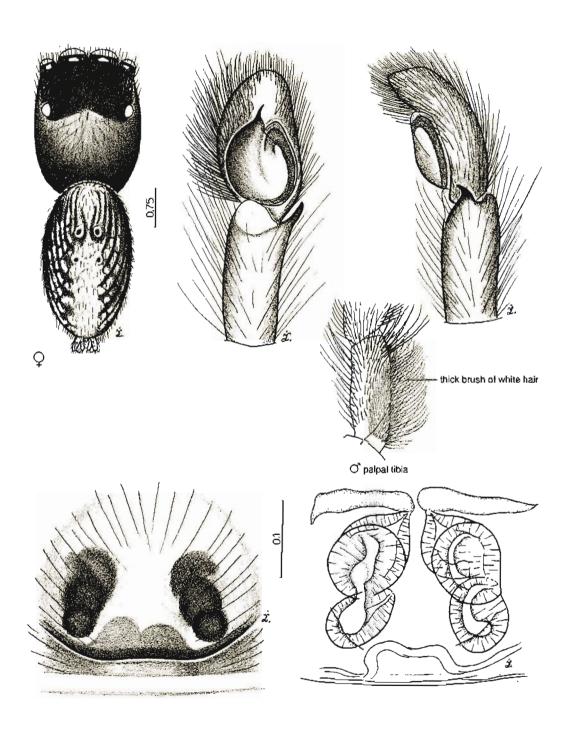
There are several undescribed Euryattus spp. in Australia. Jackson (1985b) discusses the biology of one from northern Queensland rainforest and its practice of using a suspended curled leaf as its nest.

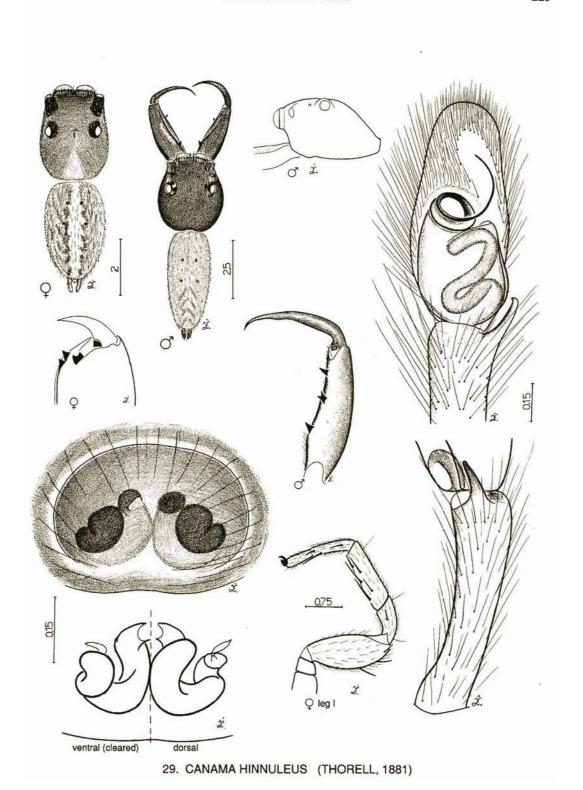


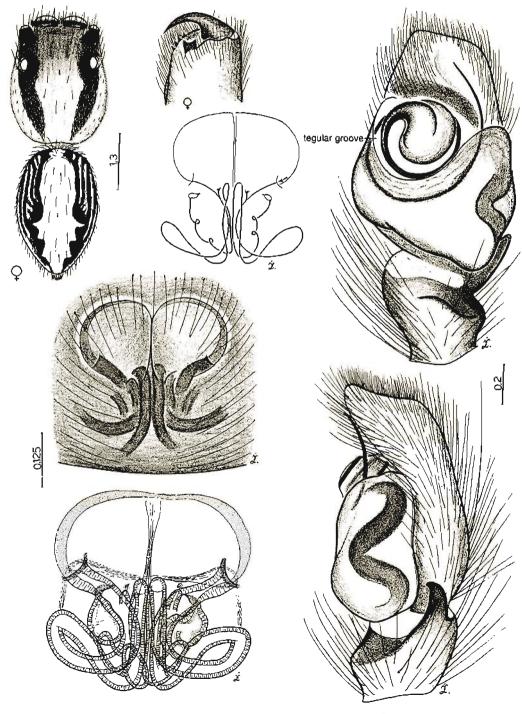


26. SIMAETHULA SPP. loc. of Cape Tribulation, north Queensland, of Brisbane, southeast Queensland

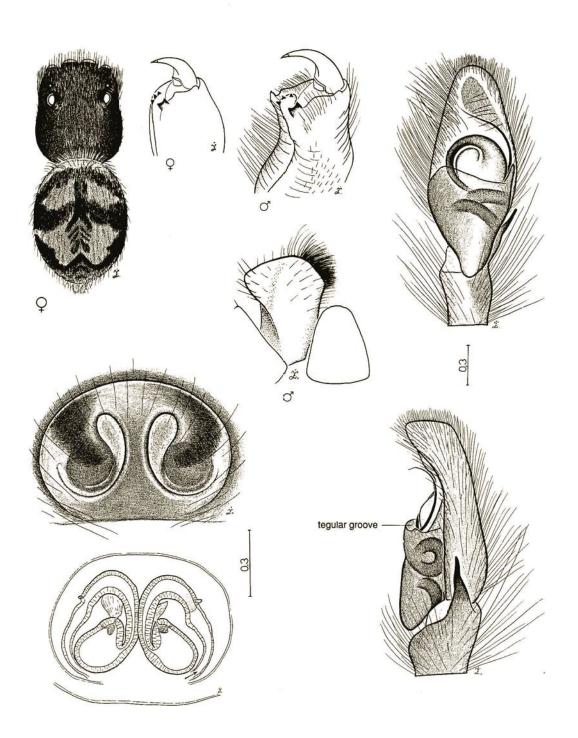


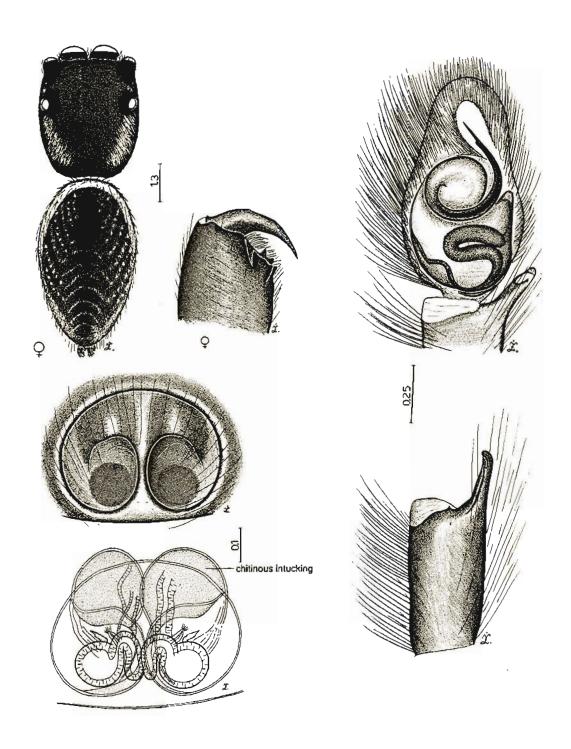




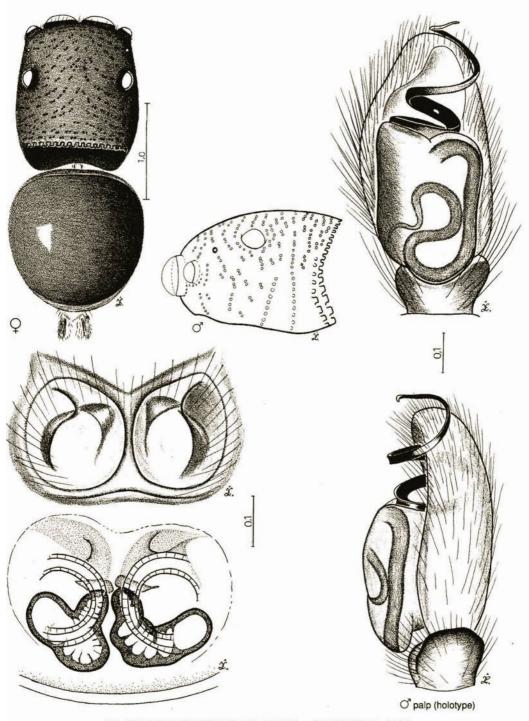


30. CYTAEA ALBURNA KEYSERLING, 1882 *





32. EURYATTUS BLEEKERI (DOLESCHALL, 1859)



33. COCCORCHESTES FERREUS GRISWOLD, 1984

UNIDENTATI — KEY TO GENERA

1.	Carapace shiny and cylinder-like with crenellated posterior margin overlying abdomen. \mathfrak{P} and \mathfrak{F}
	with shiny dorsal abdominal scutum(Pl. 33) Coccorchestes
	(northern Australia)
4	Carapace not cylinder-like and without crenellated margin, 9 without abdominal scutum2
2.	Cephalothorax high with almost vertical declivity posteriorly. Abdomen heart-shaped
	(Pl. 34) Omoedus
	(northern Australia)
_	Cephalothorax otherwise. Abdomen rarely heart-shaped
3	& palp with strongly curved (anti-clockwise in left palp) anterior conductor/embolus. \(\gamma \) with
٥.	adjoining epigynal fossae; spermathecae level with or posterior to fossae
_	Without this combination of δ and φ characters. δ conductor/embolus usually runs clockwise, if
-	
4	anti-clockwise not strongly curved
4.	
	cheliceral groove. & palp with tightly coiled conductor/embolus; tegulum without lobe posteriorly
	(Pls 35,36,37) Zenodorus
	(includes Mollika and Australian Pystira spp.)
-	Carapace rarely strongly rounded in front; without swelling below lateral eyes. Strong conical
	tooth on retromargin of cheliceral groove. & palp with loosely coiled or curved conductor/embolus;
	tegulum with lobe posteriorly
5.	Leg III as long as or longer than leg IV. Without brushes on & leg I
-	Leg III shorter than leg IV. With brushes on & leg I (exc. 'Salpesia' squalida)10
6.	Ocular quadrangle clearly narrower behind than in front
-	Ocular quadrangle equal or slightly narrower behind
7.	Carapace clearly wider than PLE and widening further in pars thoracica. Patch of strong bristles
	between ALE. Abdomen almost as wide as long. 9 spermathecae close together
	(ð unknown)
-	Carapace slightly wider than PLE and scarcely widening in pars thoracica. Without patch of strong
	bristles between ALE. Abdomen much longer than wide. 9 spermathecae well separated. 3 palpal
	tibia with long, stout seta dorsally (Pl. 39) Palpelius

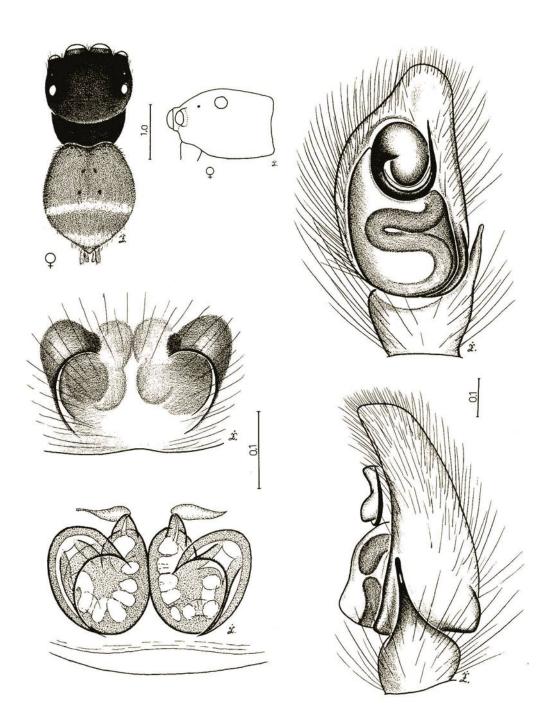
Griswold (1984) described the a Coccorchestes ferreus from north Queensland. The & C. ferreus is illustrated for the first time; its 'chambered' spermathecae are similar to those found in Omoedus.

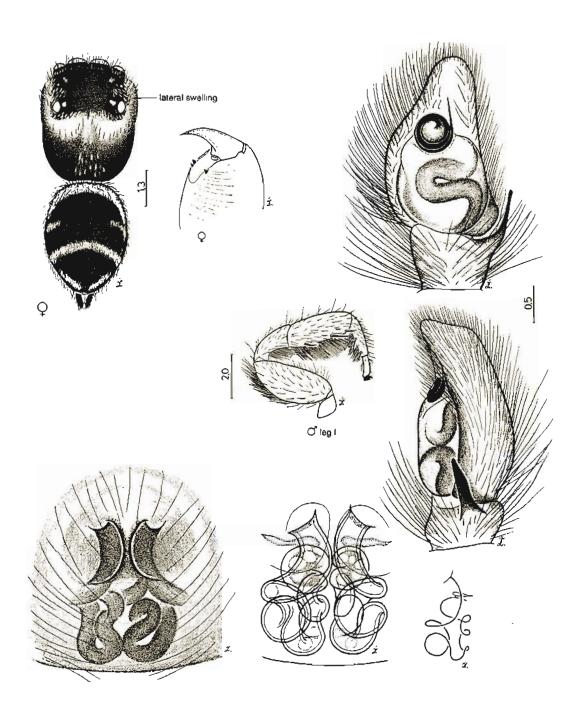
Omoedus is recorded from Australia for the first time. Like Coccorchestes, it is a small spider, better known from Papua New Guinea.

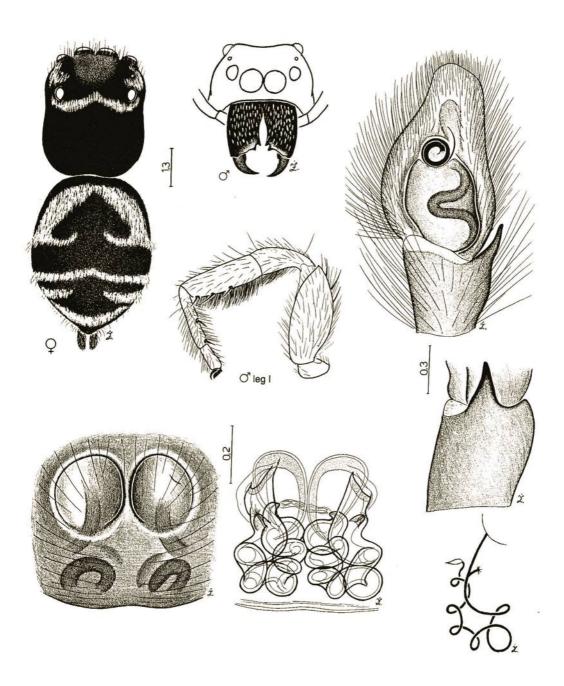
Zenodorus, Mollika and Pystira were among the genera in Simon's group, Zenodoreae. Żabka (1988) has recently placed Mollika Peckham & Peckham, 1901 as a junior synonym of Zenodorus Peckham & Peckham, 1885. We have transferred the Australian Pystira spp. to Zendorus thus Pystira orbiculata = Zenodorus orbiculatus (Keys., 1881) n.comb., and Pystira obscurofemorata = Zenodorus obscurofemoratus (Keys., 1881) n.comb. In Z. durvillei leg III of the & is longer than leg IV and it lacks the white scale-like hairs found on the front of the & chelicerae in the other species.

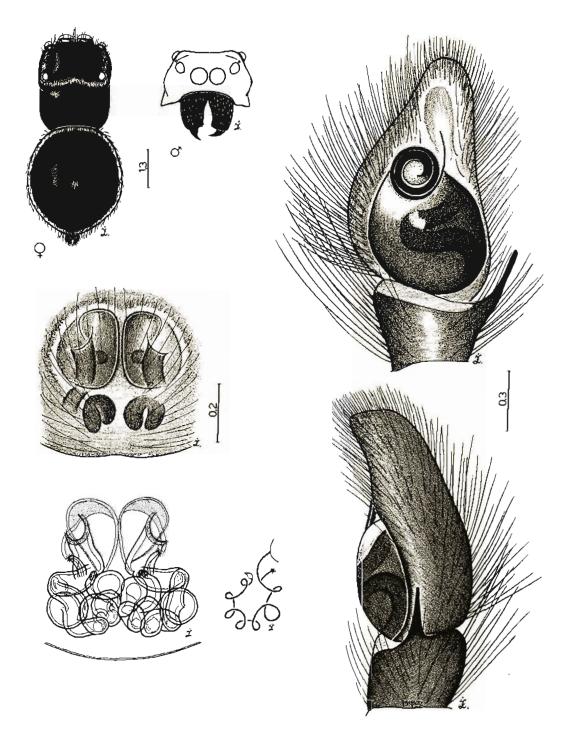
When describing *Margaromma*, Keyserling (Koch and Keyserling 1871–1883) had 3 specimens, a φ from Cape York (in BMNH) and φ and δ — 'Parchen' (loving couple) — from Sydney which we have not located. The φ syntype from Cape York is without doubt that illustrated (Koch and Keyserling *loc. cit.*) and it is re-figured here. Spiders similar to the δ syntype have been found in Sydney and will be described later, with the $\varphi \varphi$, as a new genus.

Simon (1897-1903: 735) chose *Plexippus beccarii* Thorell, 1881 as the type species of the genus *Palpelius*. It is a large spider found in northern Australia. It is unlikely that it is closely related to the following 'saitine' group of genera.

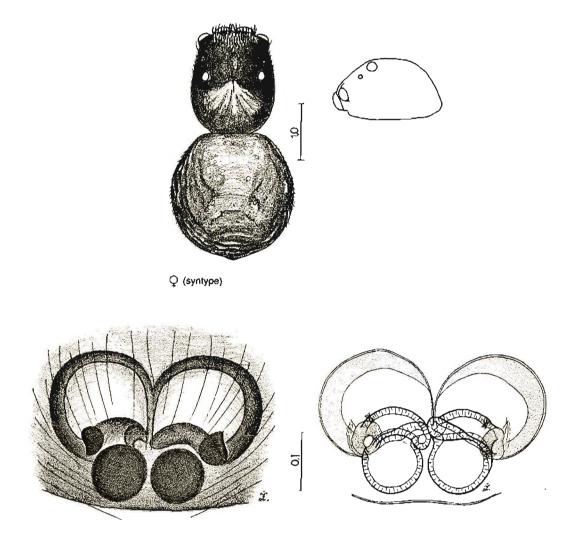




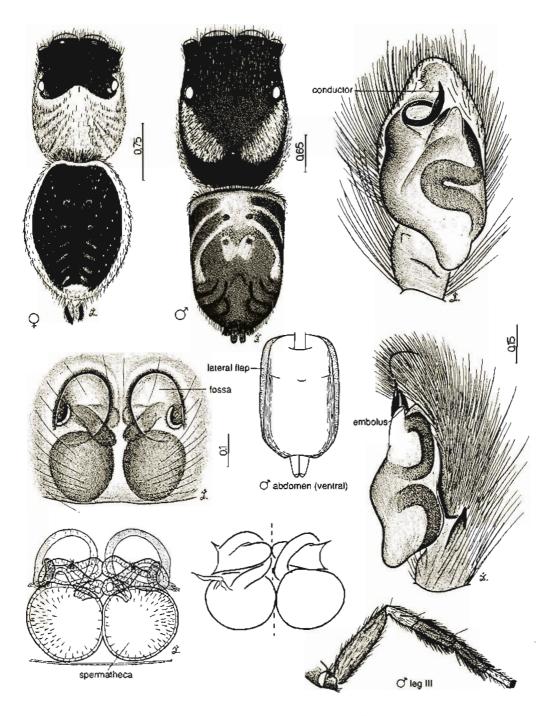




37. ZENODORUS ORBICULATUS (KEYSERLING, 1881) N. COMB.



38. MARGAROMMA FUNESTUM KEYSERLING, 1882 *



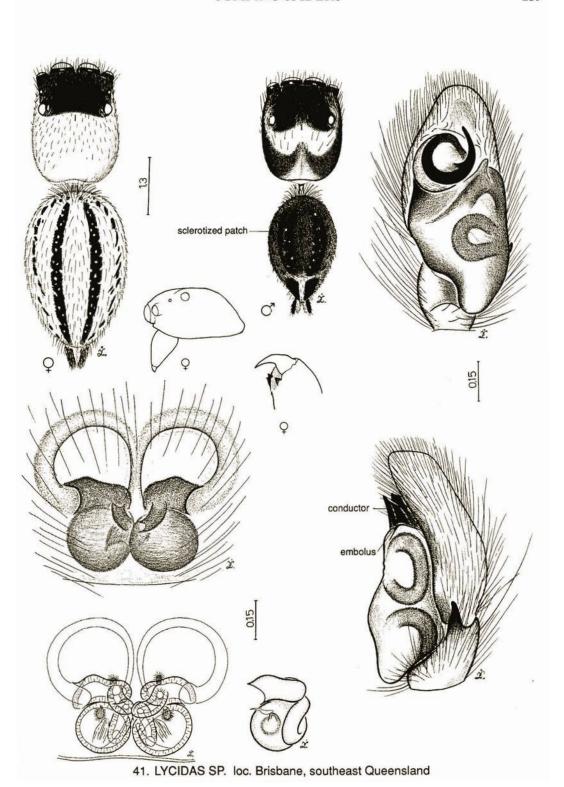
40. MARATUS SP. loc. Brisbane, southeast Queensland

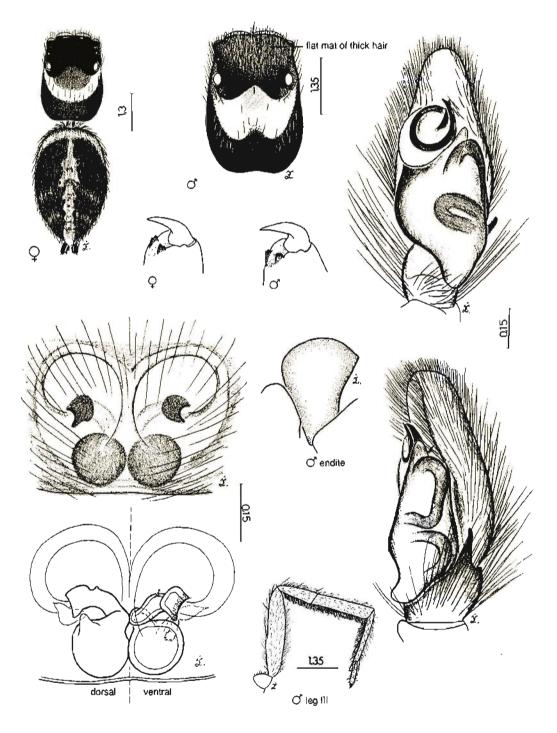
8.	Iridescent scale hairs on & abdomen. Brushes of hair on & tibia and metatarsus III. Chelicera with
	2 promarginal teeth. 2 spermathecae wider than fossae(Pl. 40) Maratus
_	Without iridescent hairs on & abdomen. With or without brushes of hair on & tibia III. Chelicera
	with one fissident promarginal tooth. 2 spermathecae not as wide as fossae9
9.	With or without slight brushes of hair on & tibia III. Without mat of short thick hair between eyes
	of &. Chelicera with pointed retromarginal tooth. Dorsal abdominal sclerotization in &
	(Pl. 41) Lycidas
_	Brushes of hair on & femur, patella, tibia III. Mat of short, thick hair between eyes of &. Chelicera
	with large, blunt retromarginal tooth. Without dorsal abdominal sclerotization in &
10.	Ocular quadrangle clearly narrower behind. & without brushes of hair on leg I. 2 insemination
	ducts arising medially; spermathecae level with fossae(Pl. 43) 'Salpesia' squalida
_	Ocular quadrangle equal or slightly narrower behind. & with brushes of hair on leg I. ? insemi-
	nation ducts arising laterally, spermathecae partly posterior to fossae11
11.	Carapace bordered laterally by pale band (often with white hairs). Fringes on femur, patella, tibia,
	metatarsus and tarsus & leg I. & embolus and conductor separate. 2 spermathecae spherical12
_	Carapace not bordered laterally by pale band. Fringe on & metatarsus I only. Single conductor/
	embolus. 9 spermathecae pear- shaped(Pl. 44) Prostheclina
12.	δ with stridulatory ridges at back of carapace(Pl. 45) 'Lycidas' michaelseni
_	& without stridulatory ridges at back of carapace(Pl. 46) Jotus
	(rwoqdau ?)

In the 3 spiders, Maratus, Lycidas and Hypoblemum, leg III of the δ is longer than leg IV and usually shows some fringing. Zabka (1987b) has reinstated Maratus Karsch; the δ has iridescent abdominal scale hairs that give various multi-coloured patterns which are specific. Mascord (1970, Pl. 10, fig. 35) shows δ M. volans (as Saitis). The dorsal abdomen of the δ is produced laterally to form flaps of varying size which are raised when the abdomen is erect during courtship (pers. comm. Julianne Waldock). The $\hat{\gamma}$, illustrated here for the first time, is sombrely coloured. Zabka (loc. cit.) also reinstated Lycidas Karsch. Acmaea villosum Keys., the type species of Hypoblemum, has not been traced. However the genus is recognised by the δ , which has a dense mat of flat hair between the eyes, heavy fringing on leg III, and lacks iridescent abdominal hairs. The $\hat{\gamma}$ is illustrated for the first time.

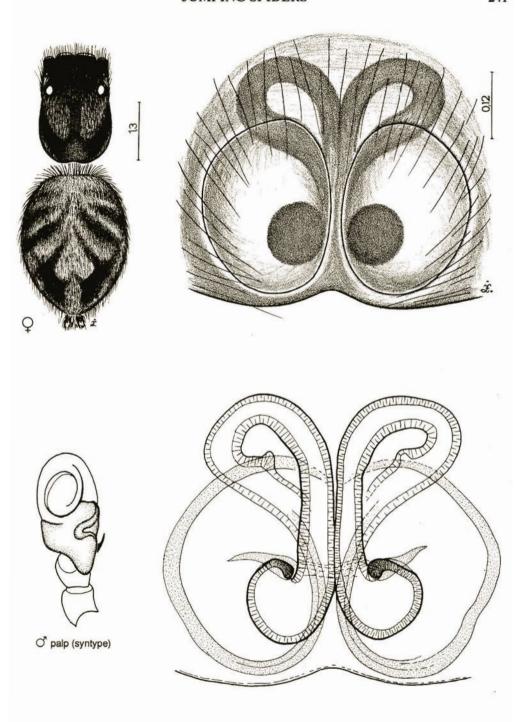
In 'Salpesia' squalida, Prostheclina, 'Lycidas' michaelseni and Jotus leg IV is longer than leg III and, in all except 'S'. squalida, there is fringing on & leg I. The syntypes of 'Salpesia' squalida have not been located, the ? is drawn from fresh material, and the & palp is copied from Koch and Keyserling (loc. cit.). The β epigyne is quite different from that of Salpesia soricina from the Seychelles. We believe that Keyserling's & syntype of Prosthecling pallida, which has not been located, was not conspecific with the syntype 9 (BMNH). Simon (1897-1903: 565) placed Prostheclina as a junior synonym of Saitis; we reinstate it as a valid genus because the pear-shaped spermathecae, the embolic structure, the shortness of δ leg III and the fringing of δ metatarsus I are quite unlike those of Saitis. We include in the genus only P. pallida; there are several undescribed species. Other than the & holotype, only one & Joius auripes has been found and it is illustrated; the ? remains unknown but it is expected to have swollen insemination ducts similar to those of 'Lycidas' michaelsenl. Jotus was synonymised with Lycidas by Zabka (1987b). It is reinstated and may be separated from Lycidas by & leg III being shorter than IV and the presence of fringes on & leg I. & 'Lycidas' michaelseni from Western Australia differs from Jotus in the possession of stridulating ridges at the back of the carapace. See Gwynne and Dadour (1985) for details of the part stridulation plays in courtship. This is the first illustration of the & palp; congeneric spiders have been found in Queensland.

The type species of the small spider, Lauharulla, ? L. pretiosa has not been located nor have fresh specimens been found. From the illustrations (Koch and Keyserling loc. cit.) the sternum is shown to be as wide as long, otherwise it appears close to the above genera.

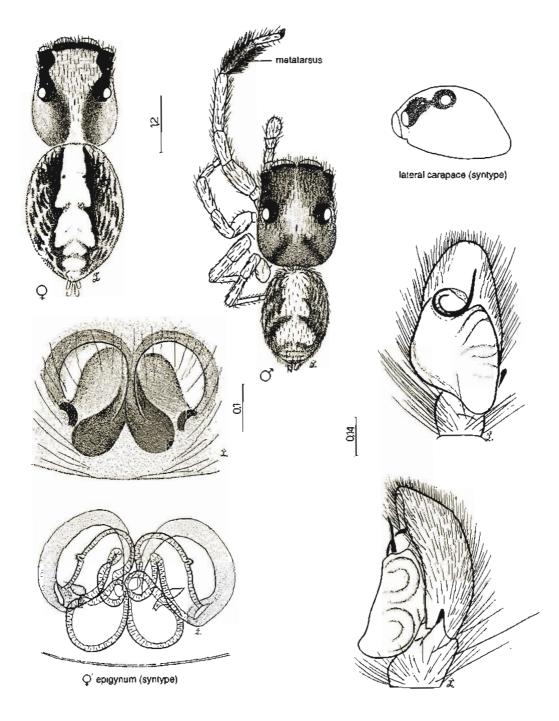




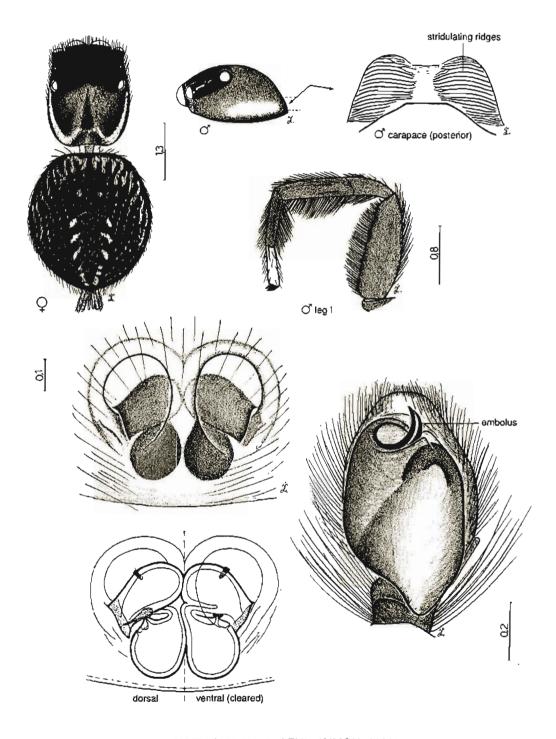
42. HYPOBLEMUM SP. loc. Cedar Creek, Samford, southeast Queensland.



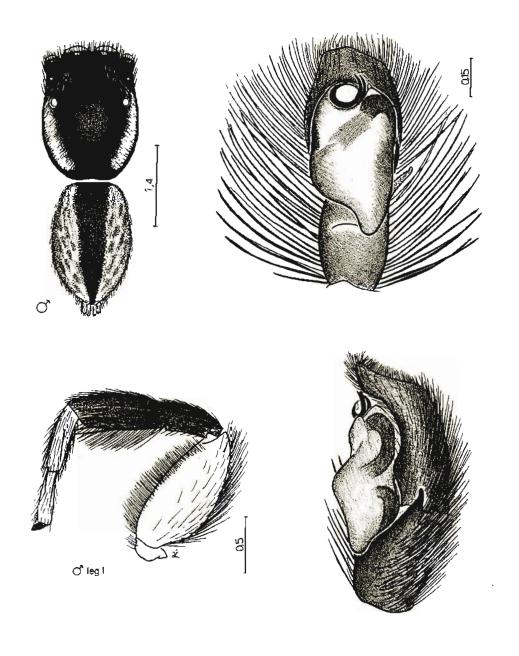
43. 'SALPESIA' SQUALIDA (KEYSERLING, 1883)



44. PROSTHECLINA PALLIDA KEYSERLING, 1882 *



45. 'LYCIDAS' MICHAELSENI (SIMON, 1909)



46. JOTUS AURIPES L. KOCH, 1881 *



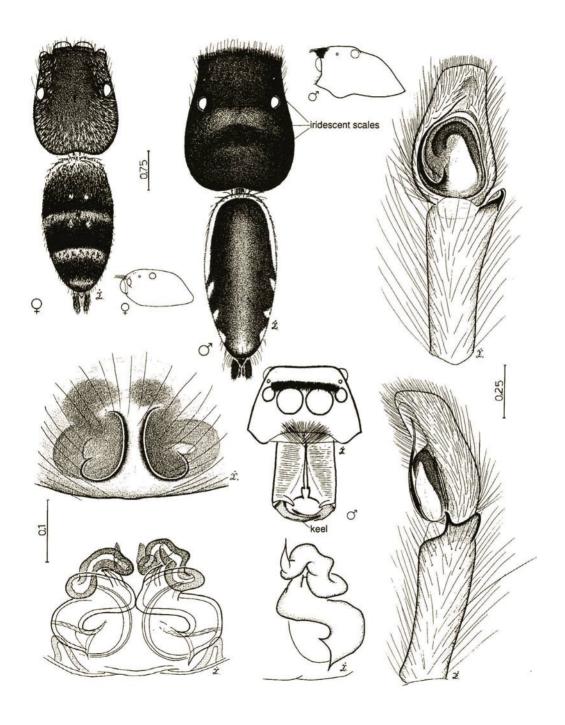
13.	Ocular quadrangle much wider behind than in front. PLE on tubercles. Carapace widest at PLE
	(Pl. 47) Bianoi
-	Ocular quadrangle about equal or narrower behind than in front. PLE rarely on tubercles. Carapace rarely widest at PLE
	Iridescent scale-like hairs often arranged in bands on body. ♂ embolus spiniform, arising postero- laterally, often longer than bulb. ♀ spermathecae anterior to fossae(Pl. 48) Cosmophasis (northern Australia)
	Iridescent scale-like hairs if present not arranged in bands on body. ♂ embolus usually otherwise. ♀ spermathecae usually posterior to fossae
15.	
	(northern Australia)
	₹ tegulum not wider than long, without keel. ♀ epigynal plate as wide or wider than long16
16.	Cephalothorax moderately high, sides rounded
-	Cephalothorax low, sides more or less parallel
	¿ tegulum with posterior lobe; embolus spiniform; tibial apophysis slender, bifurcate. ♀ posterior epigynal margin strongly indented with slender median projection(Pl. 50) Frigga (introduced)
-	

Bianor maculatus is a small spider that has been collected by sweeping grassland or shrubs. It is certainly closely related to Harmochirus, a fissident spider (see Pl. 22).

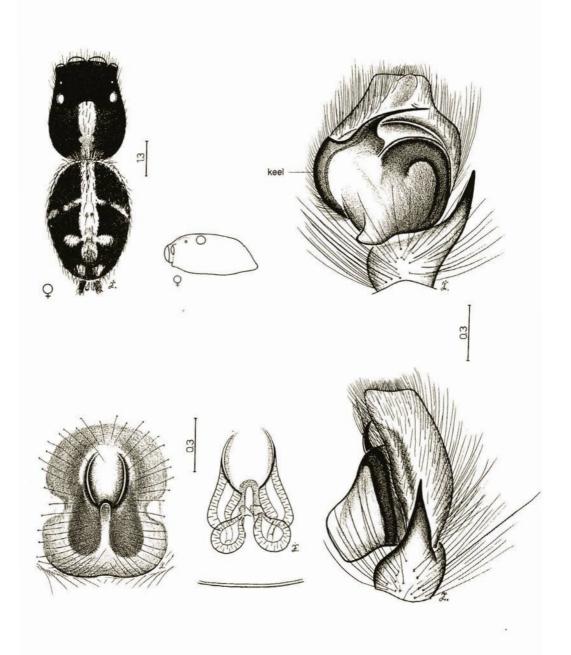
Cosmopnasis is a very active spider which has multi-coloured iridescent scale hairs on the carapace, abdomen and palps. These hairs are easily removed and often hard to see in preserved specimens. Several males have been described from tropical Queensland. The δ illustrated resembles C. micans in pattern and in the presence of a low keel on the fangs but has a lower clypeus than that illustrated in Koch and Keyserling (loc. cit.). Main (1976, Colour plate, fig. 24) shows the φ (as Saitis) and calls it the Peacock Spider. Mascord (1970, Pl. 9, fig. 34) shows the δ . Jackson (1986c) studied the display behaviour of this spider (as C. micarioides) and found that it uses one of three different mating tactics depending on the female's maturity and location. She may be encountered away from her nest, in the nest or as a sub-adult in her nest, in which case the δ builds a second chamber on the nest and co-habits until she moults and matures. Jackson (1987) further discusses the positive response that Cosmophasis spp. gave in relation to pheromones on silk as releasers of salticid courtship.

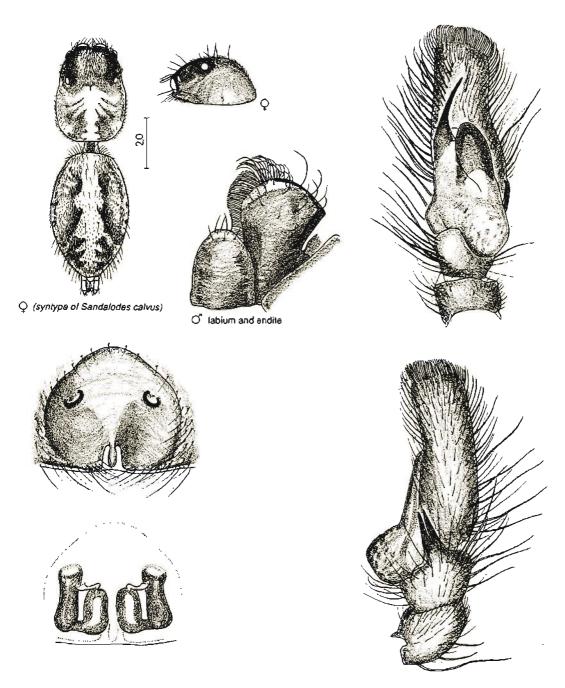
Plexippus paykullii and P. petersii, large tropical spiders, are the only two species of the genus known from Australia, although many spiders have been described in or transferred to this genus.

Galiano (1979) synonymised Sandalodes calvus Simon with Frigga crocuta. It is a large cosmopolitan spider, of which no fresh material has been collected. The types of S. calvus (from MNHP) are drawn.



48. COSMOPHASIS SP. loc. Clifton Beach, north Queensland





O (syntype of Sandalodes calvus)

18.	Carapace much wider than PLE. Pale green spider with 2 dark longitudinal lines on abdomen. ? epigynum with paired fossae, broad median guide; spermathecae level with fossae
	(Pl. 51) Mopsus
-	Carapace not much wider than PLE. Colour otherwise. 9 median fossa, spermathecae anterior to fossa
19	Lateral tufts of setae below 9 PME. Striae on pars thoracica. Femur I not flattened20
-	Without lateral tufts of setae below ? PME. Rarely striae on pars thoracica. Femur I laterally flattened
20.	
-	δ embolus short, bifid; tegulum with lobe posteriorly; without apophysis. Tibial apophysis bifurcate. 9 gonopores slit-like and widely separated. Eye tufts present in δ
	(Pl. 54) 'Trite' longula
21.	Pars cephalica rising gradually to PLE. & embolus short, running clockwise (in left palp)22 Pars cephalica almost flat to PLE. & embolus short or long, anti-clockwise
22	Band of white hair above lateral edge of carapace. Dorsal abdomen pale. & embolus blunt; mem-
	braneous conductor. 9 with large, shallow epigynal fossae, 0.2 × length of abdomen; gonopores separated
	(introduced)
-	Without band of white hair around carapace. Pale longitudinal median band on dorsal abdomen. s embolus spiniform; without conductor. with small median epigynal fossa, sometimes absent; gonopores adjoining

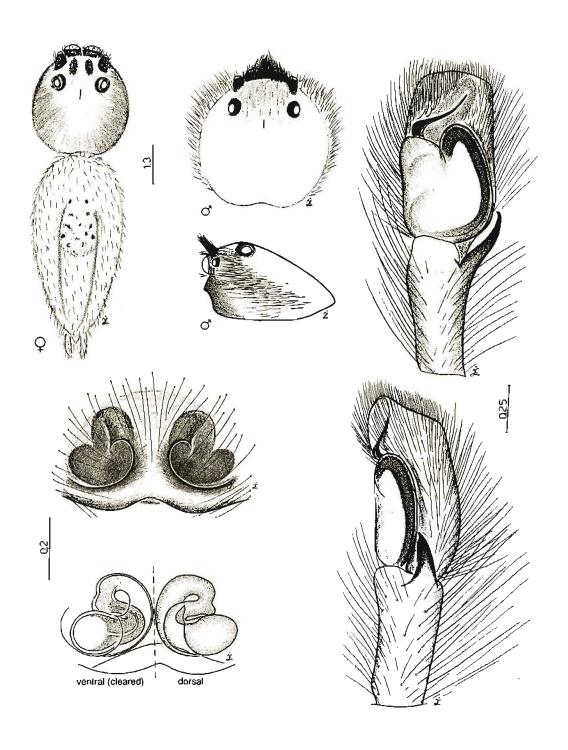
Mopsus mormon, a large and beautiful green spider, is widely distributed in northern Australia. Smaller specimens may occasionally be found as far south as New South Wales. Jackson (1983) found that Mopsus, like Cosmophasis has three different mating tactics depending on the female's maturity and location. Jackson (1987) discusses non-visual stimuli (pheromones on silk) as releasers of salticid courtship in several genera from different families. Mopsus gave a positive response. Main (1976, Colour plate, fig. 23) shows & M. mormon and Mascord (1970, Plate 8, figs 29,30) illustrates & and \mathfrak{L} (as M. penicillatus).

Sandalodes bipenicillatus, a large spider, was originally described in Mopsus. It was chosen by Keyserling as the type species of the genus, Sandalodes. The spider (as Bavia ludicra) in Mascord (1970, Plate 11, figs. 39, 40) is probably Sandalodes also.

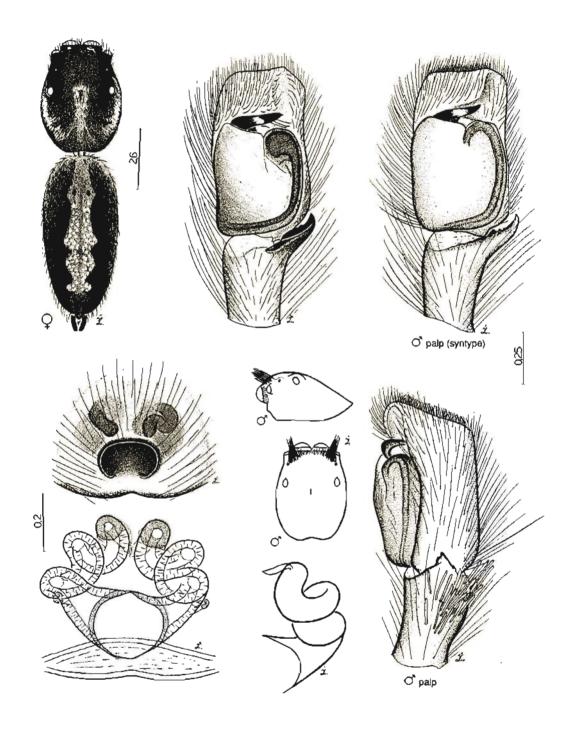
Gangus concinnus is a slender, silvery medium-sized spider common in grassland along eastern Australia north to the Torres Strait Is. It was described as Acompse concinnus by Keyserling and later chosen by Simon (1897-1903: 706) as the type species of Gangus. In published posthumous notes, Clarke (1974) suggested it was a synonym of Mithion hesperius which Prószyński (1987 in index) transferred to Thyene, though Mithion is the earlier name. Prószyński (pers. comm.) has submitted a proposal to the International Commission of Zoological Nomenclature to suppress the older name and retain Thyene. We have retained Gangus as a valid name for the meantime.

Trite, the type species of which is T. pennata from New Caledonia is a fissident spider allied to Opisthoncus. 'Trite' longula, on the other hand, is a unident spider from Cape York Peninsula which was first described as Marptusa longula by Thorell. Simon (1897-1903: 829) suggested it perhaps belonged in Trite and it has remained there since. It is almost certainly the same spider as Gangus longulus Simon which is not congeneric with Gangus conclunus.

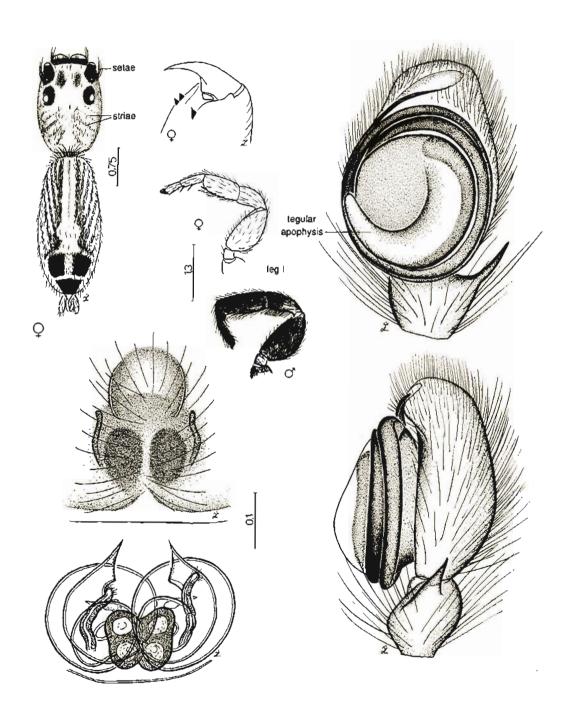
In all the following genera, femur 1 is laterally flattened. Menemerus bivittatus is a cosmopolitan spider which is often found in buildings in eastern Australia.



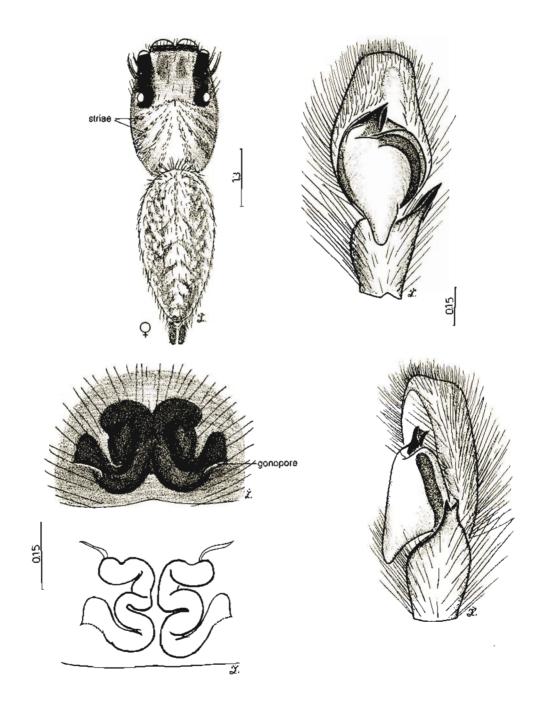
51. MOPSUS MORMON KARSCH, 1878 *



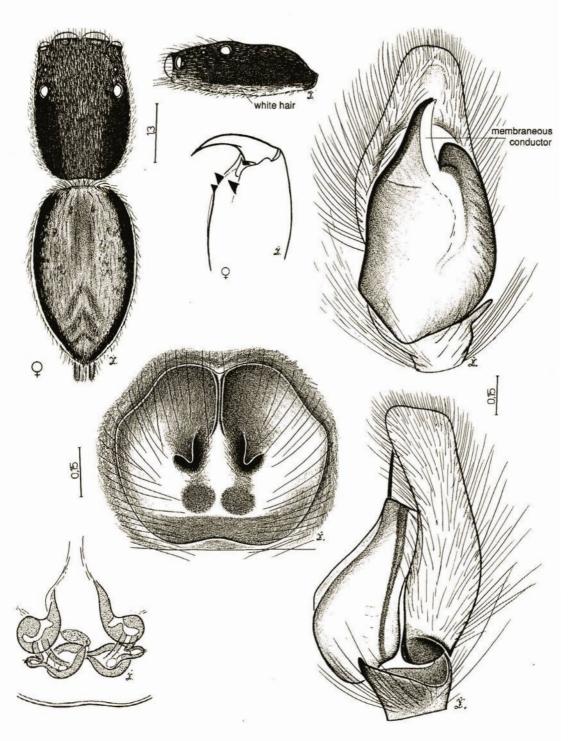
52. SANDALODES BIPENICILLATUS (KEYSERLING, 1882) *



53. GANGUS CONCINNUS (KEYSERLING, 1881) *



54. 'TRITE' LONGULA (THORELL, 1881)



55. MENEMERUS BIVITTATUS (DUFOUR, 1831)

23.	Tibia I with 3 regular retrolatero-ventral spines, δ endite with retrolateral protuberance
	(Pl. 56) Clynotis
-	Tibia I with 3 reduced retrolatero-ventral spines or none. & endite rounded24
24.	2 tibia I with 3 short prolatero-ventral spines only. & femur, patella, tibia I fringed. & chelicera
	bowed. & tibiał apophysis blunt(Pl. 57) 'Menemerus' bracteatus
-	2 tibia I without spines. & leg I without fringes. & chelicerae not bowed. & tibial apophysis pointed
	Tibia I with 3 pairs of ventral spines. 3 tegulum with posterior lobe26
	Tibia I with 2-3 prolatero-ventral spines only or none. & tegulum without posterior lobe27
26.	Pars thoracica with 4-6 lines of white hair radiating back from foveal region. & embolus short. &
	endite without retrolateral protuberance(Pl. 59) 'Clynotis' albobarbatus
-	Pars thoracica without lines of white hair. 3 embolus very long passing across ventral surface of
	tegulum and then along edge of elongate cymbium. & endite with retrolateral protuberance
	(Pl. 60) 'Trite' daemelii
27.	Medium-sized spiders. Pair of small, shallow, cephalic depressions between PLE and wider
	depressed area behind these. Rarely any spines on tibia I(Pl. 61) Holoplatys
_	Large spiders. Without paired cephalic depressions between PLE. Two prolatero-ventral spines on
	tibia I(Pl. 62) Ocrisiona

Icius viduus Koch was chosen by Simon (1897-1903: 611) as the type species of Clynotis. Clynotis viduus, a medium-sized spider, is found under the bark of eucalypts. Zabka (1987a) gives a short redescription of the types. The spider from Lake Broadwater (see drawings of habitus, cephalothorax and chelicera) may not be C. viduus, s. strict.

'Menemerus' bracteatus is a large spider found under the bark of eucalypts. The small pale patch on the chelicera appears to be present in all salticids. This spider lacks the large ? fossae and s conductor of Menemerus.

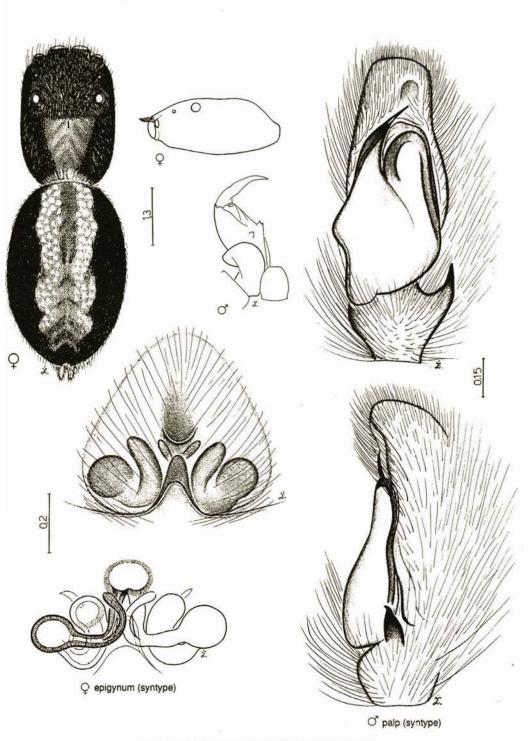
'Breda' jovialis is usually smaller than 'M'. bracteatus and may be beaten from foliage or taken from under bark. Mascord (1970, Pl. 9, fig. 33) shows the characteristic yellow marking on the dorsal abdomen. There are several undescribed species and that illustrated may not be jovialis s. strict. The & palp of the Central American genus, Breda has a long tibial apophysis and long embolus arising posteriorly, quite unlike this spider.

Icius albobarbatus was transferred to Clynotis by Rainbow (1911) in his catalogue. Zabka (1987a) redescribed the types as Clynotis albobarbatus. 'Clynotis' albobarbatus is now seen, by its different habitus, epigynum and embolic pattern, to belong to a different genus from Clynotis. It has several species, most of which are found in litter.

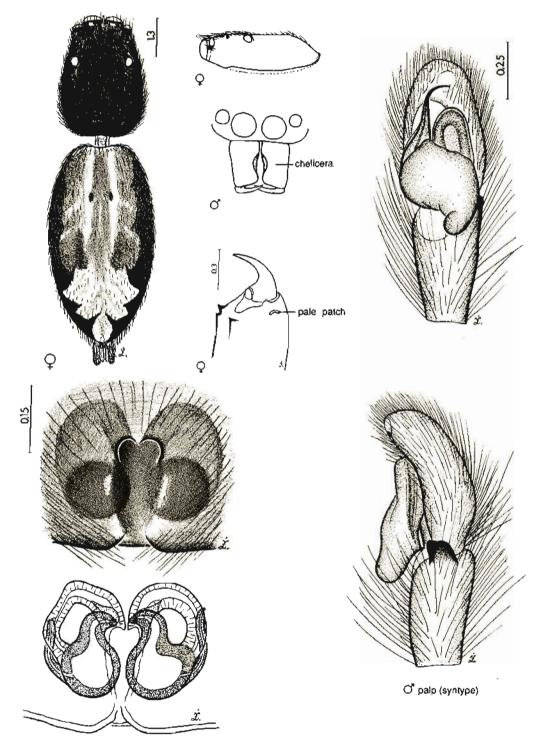
Trite, as mentioned earlier, is a fissident spider allied to Opisthoncus. 'Trite' daemelii, on the other hand, is a distinctive unident spider with very long embolus, very large epigynum and characteristic endite and fang. There are several undescribed species like daemelii and the δ specimen illustrated shows slightly different cheliceral dentition from that of Koch and Keyserling (loc. cit.); thus it may not be daemelii s.strict. The δ holotype has not been located. This is the first time the Ω has been illustrated.

Simon (1885: LXXXIX) chose Marptusa planissima L. Koch to be the type species of Holoplatys. Holoplatys is a very flat, medium-sized spider usually found under the bark of eucalypts. Mascord (1970, Pl. 10, fig. 38) shows ? Holoplatys. Jackson and Harding (1982) studied the intraspecific interaction of a New Zealand species and found that the δ had three different mating tactics depending on the female's age and location. Jackson (1987), comparing the releaser pheromones associated with the 2 silk, found that two Holoplatys spp. were the only spiders of the 36 tested that did not respond to the nest of conspecific females.

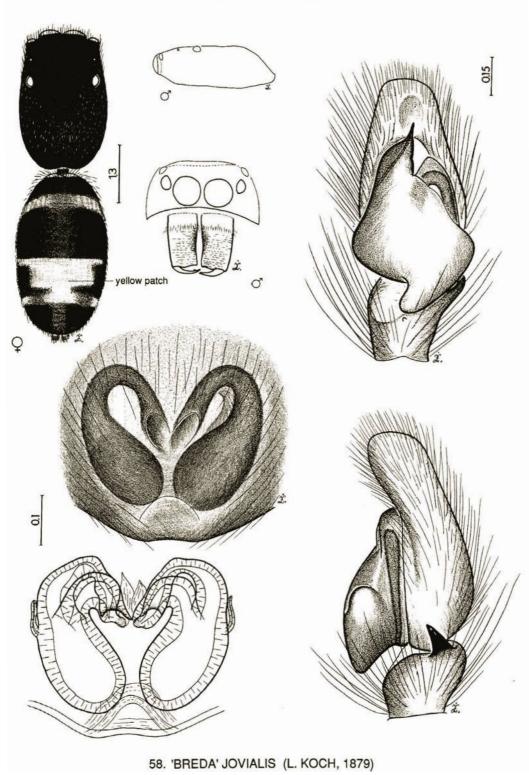
Simon (1897-1903: 609) chose Marptusa leucocomis L. Koch to be the type species of Ocrisiona. Ocrisiona is a large spider which lacks the paired cephalic depressions of Holoplatys; it is found in similar locations, under bark or beaten from foliage. Mascord (1970, Pl. 11, fig. 41) shows ? and & Ocrisiona. The syntype illustrated is from Port Mackay, a locality not listed by Keyserling (Koch and Keyserling loc. cit.) so it may not be O. leucocomis s.strict.



56. CLYNOTIS VIDUUS (L. KOCH, 1879) *

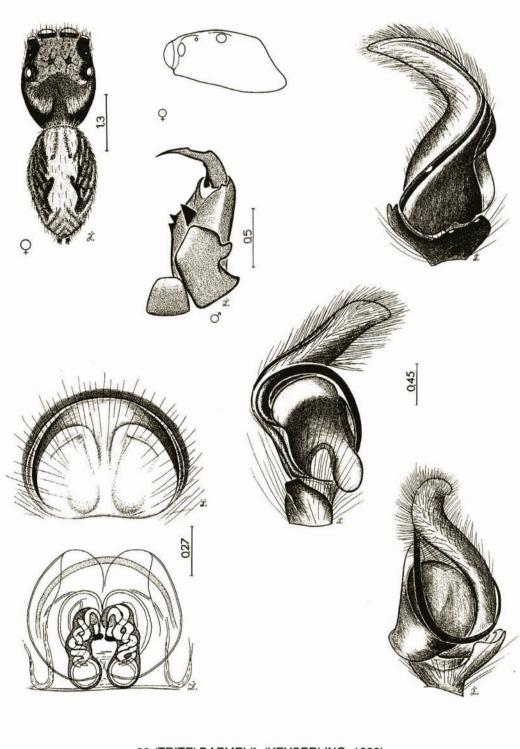


57. 'MENEMERUS' BRACTEATUS (L. KOCH, 1879)

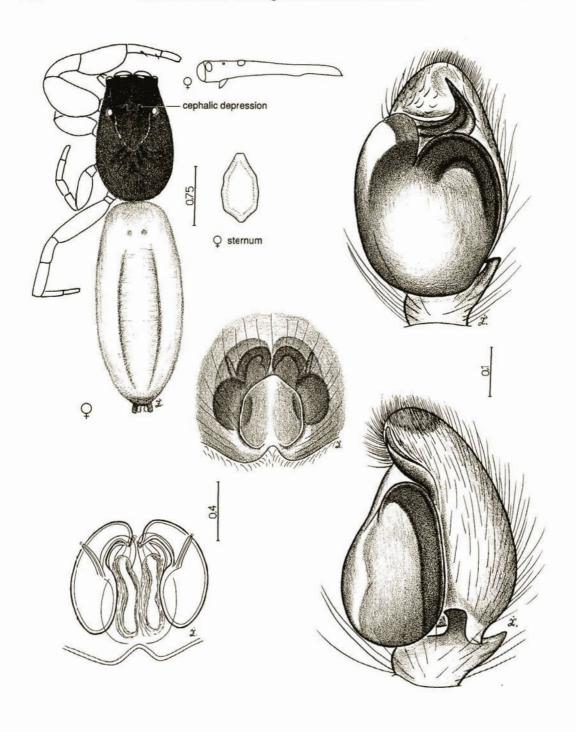


*This is the π \mathcal{O}^n palp; the ℓ embolus is not anti-clockwise as stated in the key. \circlearrowleft labium and endite of palp (syntype) Q epigynum (syntype)

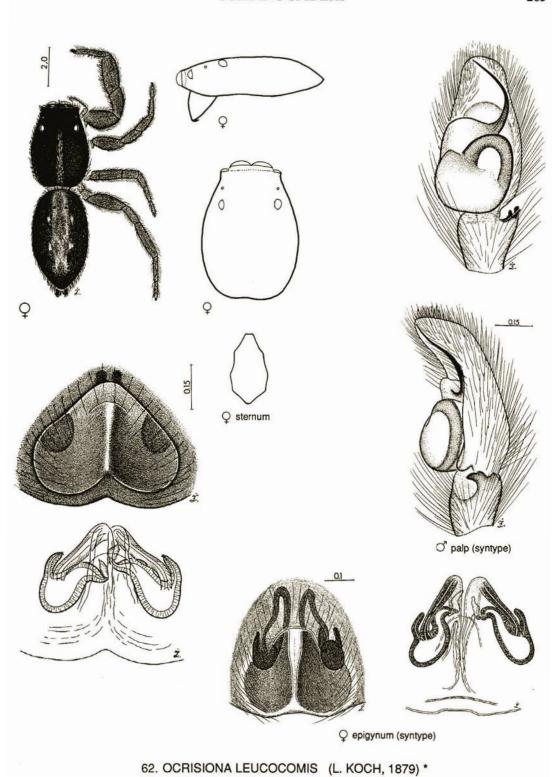
59. 'CLYNOTIS' ALBOBARBATUS (L. KOCH, 1879)



60. 'TRITE' DAEMELII (KEYSERLING, 1883)



61. HOLOPLATYS PLANISSIMA (L. KOCH, 1879) *



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APPENDIX

A list of the spiders that are illustrated, their geographical localities and the Museums in which the type specimens, that have been examined, are located. Unless indicated, the rest of the material is from the collections in the Queensland Museum.

PLURIDENTATI

Arasla mollicoma & syntype, Bowen, MEQ (ZMH); & (AM).

Astia hariola 98, Lake Broadwater nr Dalby, SQ.

Bavia aericeps 28, Cape Tribulation, NEQ.

Cocalus gibbosus & holotype, Lockerbie, Cape York, NQ (QM); 9, Shiptons Flat, NQ.

Copocrossa tenuilineata 9, Mission Beach, NEQ.

Cyrba ocellata 9, Wilson Is., MEQ; 8, Wharton Reef, Great Barrier Reef, NEO.

Damoetas nitidus & syntype of Scirtetes nitidus, Sydney, NSW (ZMH), & palp; ?, Oatley Park, Sydney, NSW (AM); &, Rochedale, Brisbane, SEQ, other drawings. Helpis minitabunda ? &, Noosa, SEQ.

Jacksonoides kochi 98, Home Rule nr Helenvale, NQ (det. F. Wanless).

Ligonipes sp. 98, Brisbane, SEQ.

Ligonipes lacertosus 9, Somerset, Cape York, NQ.

Ligonipes semitectus 2, syptype of Haterius semitectus, Cooktown, NEQ (ZMK).

Mintonia sp. 9, Kuranda, NQ (AM); 8 M. tauricornis, Sarawak, 8 palp, after Wanless (1984).

Myrmarachne spp. 9, Brisbane, SEQ; &, Goomeri, SQ. Portia fimbriata 9, Cairns; & Cape Tribulation, NEQ. Rhombonotus gracilis 9 &, Lake Broadwater, nr Dalby, SQ.

Sondra nepenthicola & holotype, 9 paratype, Seary's Scrub, Cooloola, SEQ (QM).

Tauala lepidus & holotype, 9 paratype, Crystal Cascades nr Cairns, NEQ (QM).

FISSIDENTATI

Adoxotoma nigroolivacea 9 syntype, Perth, WA (ZMB), epigynum and log 1; other illustrations of syntype after Wanless (1988).

Canama hinnuleus 2, Airlic Beach, MEQ; &, Brandy Ck nr Proscrpine, MEQ.

Cytaea alburna ?, Trinity Beach, NEQ; &, Gin Gin, SQ. Diolenius sp. ?&, Dividing Range, 15 km W Captain Billy Ck, Cape York, NQ.

Ergane cognata & holotype, Pellew Islands, Gulf of Carpentaria, NT (ZMH), & palp, chelicera; habitus copied from Koch & Keyserling (1871-1883).

Euryattus bleekeri ?, Homevale, MQ, &, Cairns, NEQ.

Harmochirus brachiatus 23, West Alligator River mouth, NT.

Hasarius adansoni ?, Heron Is, MEQ; &, Brisbane, SEQ.

Opisthoncus parcedentatus 98, Lake Broadwater nr Dalby, SQ.

Servaea vestita 98, Lake Broadwater nr Dalby, SQ. Simaetha thoracica 98, Gordonyale, NO.

Simaethula spp. 9, Cape Tribulation, NEQ; 8, Brisbane, SEO.

Tara anomala δ holotype, Sydney, NSW (ZMH), δ palp; habitus copied from Koch & Keyserling (1871–1883). Tara sp. δ, Mt Tenison Woods nr Brisbane, SEQ; habitus, δ palp.

UNIDENTATI

Bianor maculatus 9 &, Lake Broadwater nr Dalby, SQ. 'Breda' jovialis 9 &, Brisbane, SEO.

'Clynotis' albobarbatus & &, syntypes, Sydney, NSW (ZMH); epigynum, & palp. ?, Gold Ck, Brisbane, SEQ, habitus.

Clynotis viduus && syntypes of Icius viduus, Sydney, NSW, Pcak Downs, MQ, Rockhampton, MEQ (ZMH), & palp; & syntype (ZMB), epigynum. &&, Lake Broadwater nr Dalby, SBQ; habitus, other drawings.

Coccorchestes ferreus? holotype, Iron Ra, Cape York, NQ (QM); &, Iron Ra, Cape York, NQ.

Cosmophasis sp. 98, Clifton Beach, NEQ.

Frigga crocuta $\circ \delta$ syntypes of Sandalodes calvus, Cooktown, NEQ (MNHP).

Gangus concinnus ?, Lake Broadwater nr Dalby, SQ; &, Murray Is., Torres Str. Is.

Holoplarys planissima ?, Booubyjan via Tansey, SQ; &, Brisbane, SEO.

Hypoblemum sp. ₹ &, Cedar Ck, Samford nr Brisbane, SEQ.

Jotus auripes &, Flat Rock, NSW (AM).

Lycidas sp. 98, Brisbane, SEQ.

'Lycidas' michaelseni 98, Perth, WA.

Maratus sp. 98, Rochedale, Brisbane, SEQ.

Margaromma funestum 9 syntype, Cape York, NQ
(BMNH).

Menemerus bivittatus & &, Brisbane, SEQ.

'Menemerus' bracteatus & syntype, Rockhampton, MEQ (ZMH), & palp, chelicerae. 9, Lake Broadwater nr Dalby, SQ, habitus, epigynum.

Mopsus mormon ?, Koah Rd, NEQ; &, Darwin, NT.

Ocrisiona leucocomis ? &, syntypes, Port Mackay, MEQ
(BMNH), epigynum, & palp. ?, Botany, NSW (AM),
habitus, epigynum.

Omoedus sp. 98, Iron Range, NQ.

Palpelius beccarli &, Lockerbie, Cape York, NQ; 9, Bamaga, Cape York, NQ.

Plexippus paykullii ?, Forth Is, Great Barrier Reef; &, Pelican Is, Great Barrier Reef, NEQ.

Prostheclina pallida , syntype, Sydney, NSW (BMNH), epigynum, lateral carapace. , &, Kroombit Tops,

SQ, other drawings.

'Salpesia' squalida ?, Salvator Rosa National Park, SQ; & palp copied from Koch & Keyserling (1871-1883). Sandalodes bipenicillatus &, syntype, Sydney, NSW (ZMH), & palp; ?, Kroombit Tops, SQ; &, Rochedale, Brisbane, SEQ, other drawings.

'Trite' daemelii 98, Brookfield, Brisbane, SEQ.

'Trite' longula ?, Yule Pl, NEQ; & Mt Molloy Rd, NQ.
& holotype of Marptusa longula, Somerset, NQ
(MCG) examined and sketches made (VTD) in 1977.

Zenodorus durvillei ?, Shipton's Flat, NQ; &, Lockerbie, Cape York, NQ.

Zenodorus metallescens & Clifton Beach, NEQ. Zenodorus orbiculatus & &, Kroombit Tops, SQ.