

Atlas of Male Morphology:

Shield-Backed Trapdoor Spiders (*Idiosoma nigrum*-group)



Live male *Idiosoma sigillatum* (O. P.-Cambridge, 1870) from Perth, Western Australia (image by M. Rix)

This document is published as an Appendix 1 supplement to:

Rix MG, Huey JA, Cooper SJB, Austin AD, Harvey MS (2018) Conservation systematics of the shield-backed trapdoor spiders of the '*nigrum*-group' (Mygalomorphae: Idiopidae: *Idiosoma*): integrative taxonomy reveals a diverse and threatened fauna from south-western Australia. ZooKeys.

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(alphabetical, by species, type material and site [after *I. nigrum*]; holotypes** and paratypes* highlighted; sequenced specimens denoted by “DNA” superscripts)

***Idiosoma nigrum* Main, 1952**

WAM T3301	<i>I. nigrum</i> (♂)*
WAM T139511	<i>I. nigrum</i> (♂)
WAM T139514	<i>I. nigrum</i> (♂)
WAM T139510	<i>I. nigrum</i> (♂)
WAM T139515	<i>I. nigrum</i> (♂)

***Idiosoma arenaceum* sp. n. [MYG478]**

WAM T139527	<i>I. arenaceum</i> (♂)**
WAM T41787	<i>I. arenaceum</i> (♂)*
WAM T41364 ^{DNA}	<i>I. arenaceum</i> (♂)
WAM T41788	<i>I. arenaceum</i> (♂)
AMS KS17388	<i>I. arenaceum</i> (♂)
WAM T27119	<i>I. arenaceum</i> (♂)
WAM T27123	<i>I. arenaceum</i> (♂)

***Idiosoma clypeatum* sp. n. [MYG018]**

WAM T96452 ^{DNA}	<i>I. clypeatum</i> (♂)**
WAM T96467	<i>I. clypeatum</i> (♂)*
WAM T96463	<i>I. clypeatum</i> (♂)
WAM T139501	<i>I. clypeatum</i> (♂)
WAM T98142	<i>I. clypeatum</i> (♂)
WAM T136251	<i>I. clypeatum</i> (♂)
WAM T136252 ^{DNA}	<i>I. clypeatum</i> (♂)
WAM T139505	<i>I. clypeatum</i> (♂)
WAM T139506	<i>I. clypeatum</i> (♂)
WAM T139503	<i>I. clypeatum</i> (♂)

***Idiosoma corrugatum* sp. n.**

SAM NN29858	<i>I. corrugatum</i> (♂)**
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***Idiosoma dandaragan* sp. n. [MYG477]**

WAM T139522	<i>I. dandaragan</i> (♂)**
WAM T139521	<i>I. dandaragan</i> (♂)*
WAM T139523	<i>I. dandaragan</i> (♂)*
WAM T139524	<i>I. dandaragan</i> (♂)*
WAM T139525	<i>I. dandaragan</i> (♂)*
WAM T139526	<i>I. dandaragan</i> (♂)*

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***Idiosoma formosum* sp. n. [MYG262]**

WAM T139470 ^{DNA}	<i>I. formosum</i> (♂)**
WAM T139495	<i>I. formosum</i> (♂)
WAM T139516a	<i>I. formosum</i> (♂)
WAM T139516b	<i>I. formosum</i> (♂)

***Idiosoma gardneri* sp. n. [MYG476]**

WAM T139528	<i>I. gardneri</i> (♂)**
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***Idiosoma gutharuka* sp. n. [MYG157]**

WAM T38517	<i>I. gutharuka</i> (♂)**
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***Idiosoma incomptum* sp. n. [MYG130]**

WAM T99997 ^{DNA}	<i>I. incomptum</i> (♂)**
WAM T98469	<i>I. incomptum</i> (♂)
WAM T98474	<i>I. incomptum</i> (♂)
WAM T98472	<i>I. incomptum</i> (♂)
WAM T98473a	<i>I. incomptum</i> (♂)
WAM T98473b	<i>I. incomptum</i> (♂)
WAM T98470	<i>I. incomptum</i> (♂)
WAM T98471	<i>I. incomptum</i> (♂)
WAM T98475a	<i>I. incomptum</i> (♂)
WAM T98475b	<i>I. incomptum</i> (♂)

***Idiosoma intermedium* sp. n. [MYG475]**

WAM T139520	<i>I. intermedium</i> (♂)**
WAM T139494	<i>I. intermedium</i> (♂)
WAM T139517 ^{DNA}	<i>I. intermedium</i> (♂)
WAM T139519 ^{DNA}	<i>I. intermedium</i> (♂)

***Idiosoma jarrah* sp. n. [MYG156]**

WAM T124143 ^{DNA}	<i>I. jarrah</i> (♂)**
WAM T74623	<i>I. jarrah</i> (♂)
WAM T99952 ^{DNA}	<i>I. jarrah</i> (♂)
WAM T136943 ^{DNA}	<i>I. jarrah</i> (♂)
WAM T26822	<i>I. jarrah</i> (♂)
WAM T139475	<i>I. jarrah</i> (♂)
WAM T63354	<i>I. jarrah</i> (♂)
WAM T18582	<i>I. jarrah</i> (♂)
WAM T139474	<i>I. jarrah</i> (♂)
WAM T30019	<i>I. jarrah</i> (♂)

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***Idiosoma kopejtkorum* sp. n. [MYG521]**

WAM T144621	<i>I. kopejtkorum</i> (♂)**
WAM T139498	<i>I. kopejtkorum</i> (♂)*
WAM T139499	<i>I. kopejtkorum</i> (♂)
WAM T139497	<i>I. kopejtkorum</i> (♂)

***Idiosoma kwongan* sp. n. [MYG472]**

WAM T27142	<i>I. kwongan</i> (♂)**
WAM T27117 ^{DNA}	<i>I. kwongan</i> (♂)
WAM T27118	<i>I. kwongan</i> (♂)
WAM T139468 ^{DNA}	<i>I. kwongan</i> (♂)

***Idiosoma mcclementsorum* sp. n. [MYG474]**

WAM T139471	<i>I. mcclementsorum</i> (♂)**
WAM T139472	<i>I. mcclementsorum</i> (♂)*
WAM T29779	<i>I. mcclementsorum</i> (♂)
WAM T44388	<i>I. mcclementsorum</i> (♂)

***Idiosoma mcnamarai* sp. n. [MYG520]**

WAM T26107 ^{DNA}	<i>I. mcnamarai</i> (♂)**
WAM T139518 ^{DNA}	<i>I. mcnamarai</i> (♂)
WAM T44169	<i>I. mcnamarai</i> (♂)

***Idiosoma schoknechtorum* sp. n. [MYG518]**

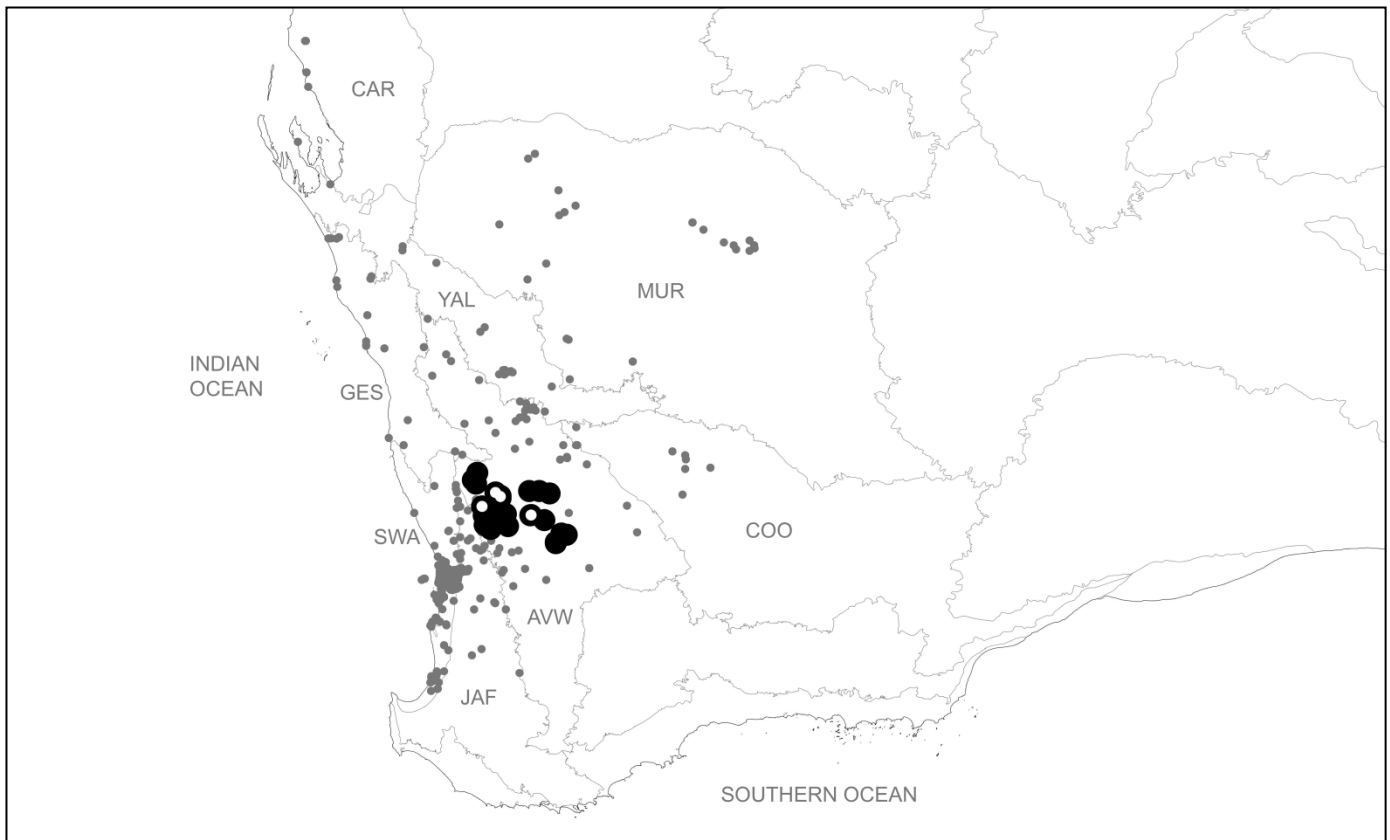
WAM T139512	<i>I. schoknechtorum</i> (♂)**
WAM T27121	<i>I. schoknechtorum</i> (♂)
WAM T139513	<i>I. schoknechtorum</i> (♂)

***Idiosoma sigillatum* (O. P.-Cambridge, 1870)**

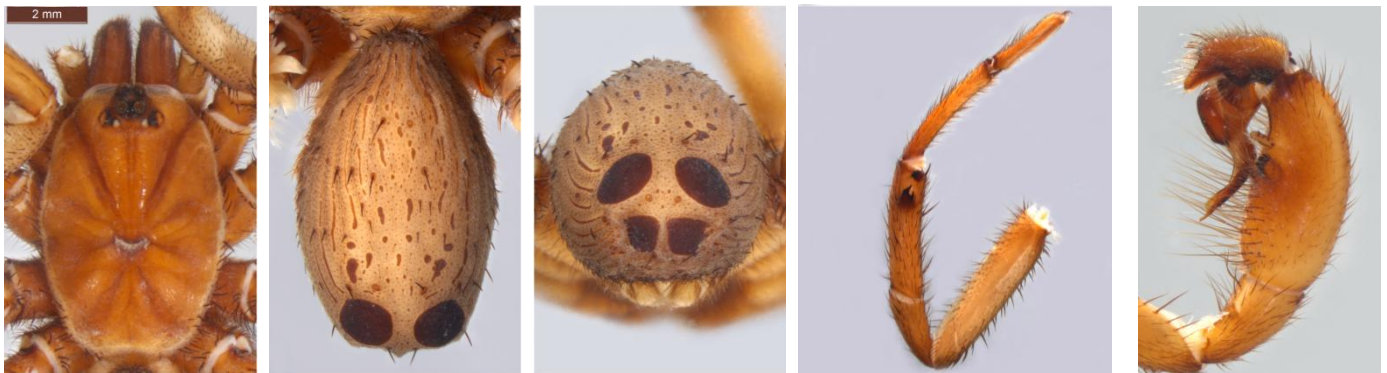
WAM T139480	<i>I. sigillatum</i> (♂)
WAM T132564 ^{DNA}	<i>I. sigillatum</i> (♂)
WAM T27984	<i>I. sigillatum</i> (♂)
WAM T18552	<i>I. sigillatum</i> (♂)
WAM T31152	<i>I. sigillatum</i> (♂)
WAM T27135	<i>I. sigillatum</i> (♂)
WAM T46829	<i>I. sigillatum</i> (♂)
WAM T41569	<i>I. sigillatum</i> (♂)
WAM T139486	<i>I. sigillatum</i> (♂)
WAM T18575	<i>I. sigillatum</i> (♂)

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Idiosoma nigrum Main, 1952



Collection records (open circles = DNA)



WAM T3301 male: Walk Walkin, via Koorda, WA [reference specimen]



WAM T139511 male: Durokoppin Nature Reserve, WA

Idiosoma nigrum Main, 1952 (cont.)



WAM T139514 male: North Bungulla, WA

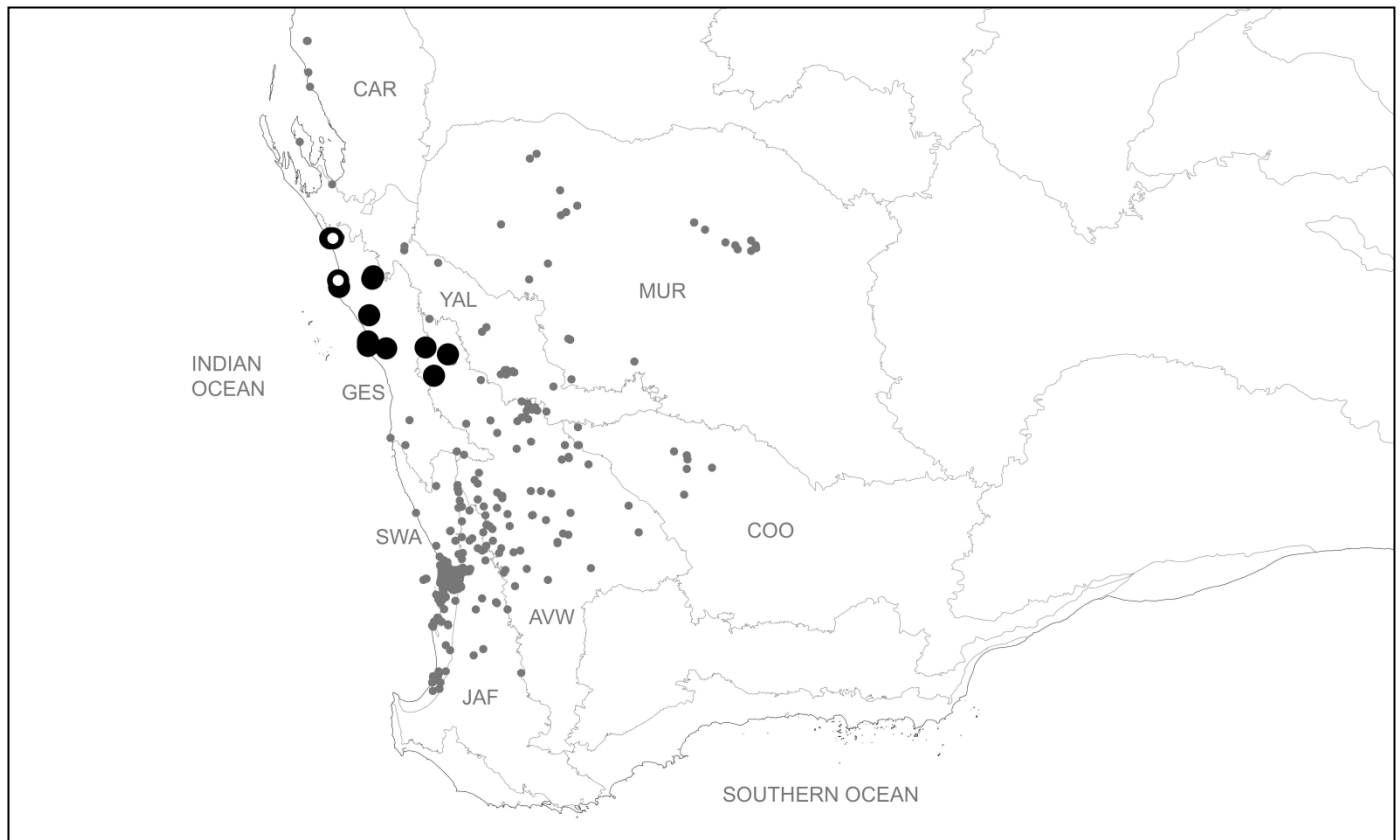


WAM T139510 male: Walk Walkin Nature Reserve, WA

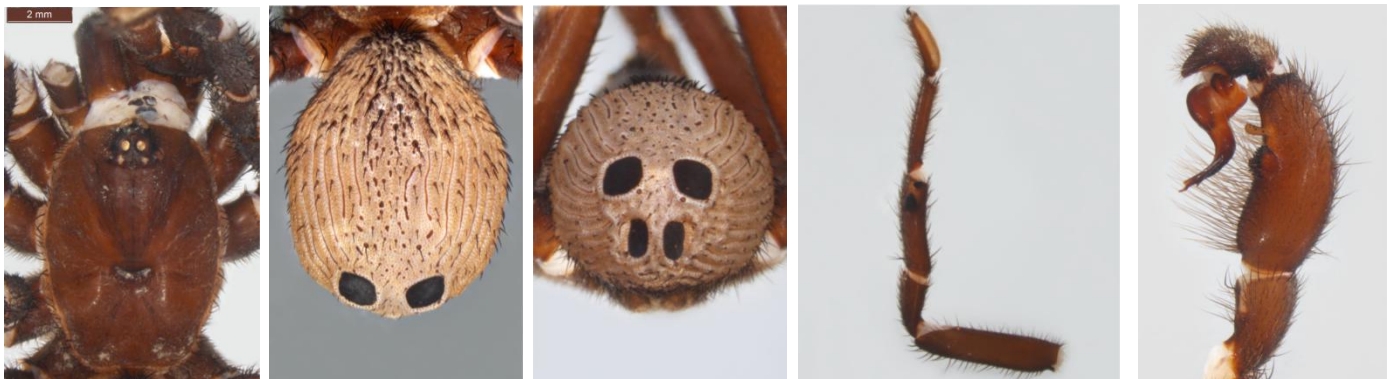


WAM T139515 male: Wroth Road Nature Reserve, WA

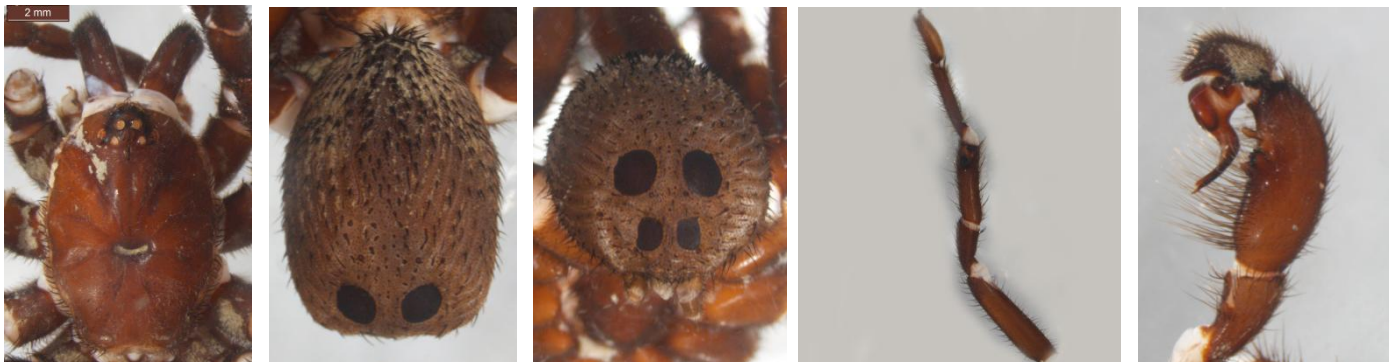
Idiosoma arenaceum sp. n. [MYG478]



Collection records (open circles = DNA)



Holotype (WAM T139527) male: Zuytdorp, site ZU1, WA



Paratype (WAM T41787) male: Zuytdorp, site ZU1, WA

Idiosoma arenaceum sp. n. [MYG478] (cont.)



WAM T41364 male^{DNA}: Zuytdorp, site ZU3, WA



WAM T41788 male: Zuytdorp Nature Reserve, site ZU2, WA



AMS KS17388 male: Geraldton, WA



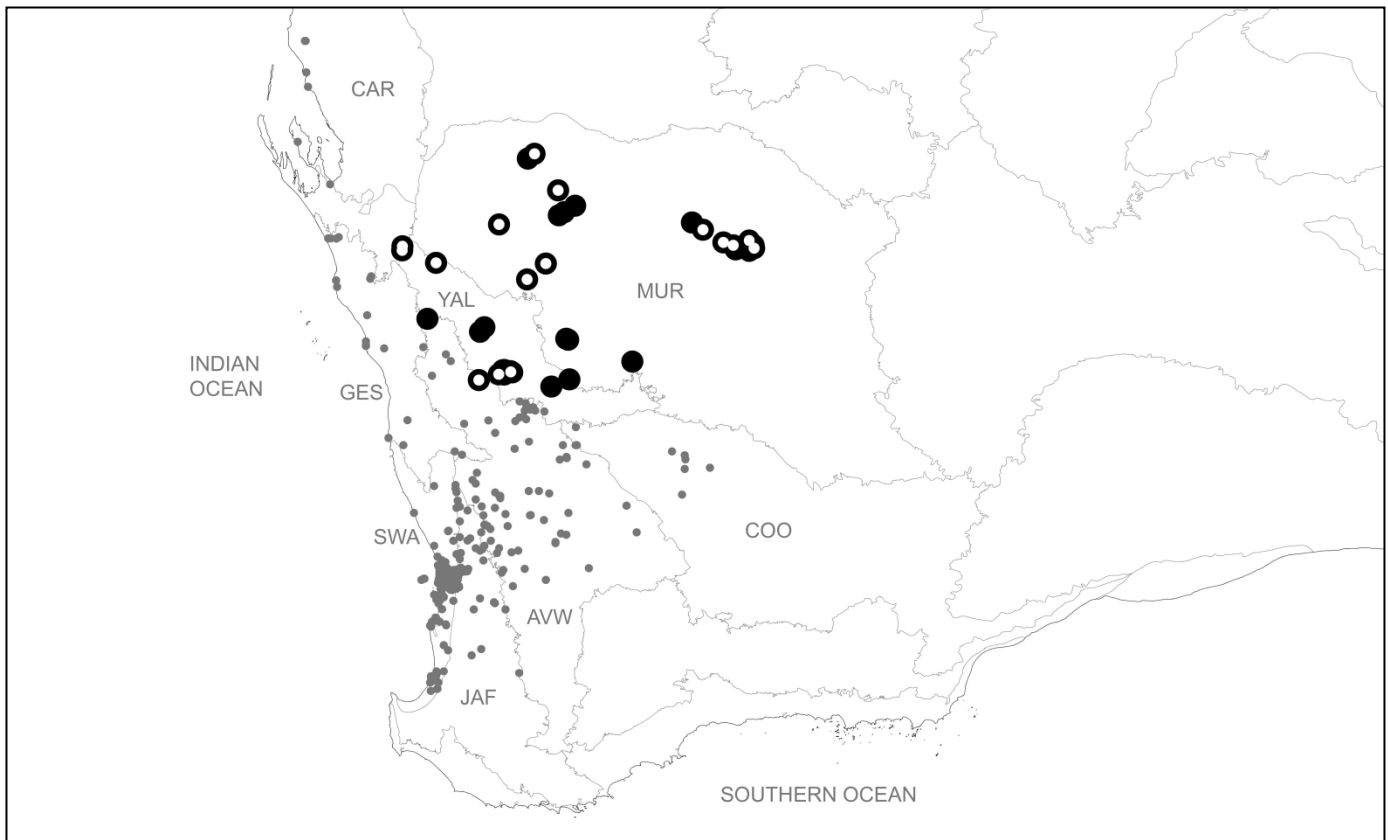
WAM T27119 male: Geraldton, Minnenooka, WA

***Idiosoma arenaceum* sp. n. [MYG478] (cont.)**



WAM T27123 male: Northampton, WA

Idiosoma clypeatum sp. n. [MYG018]



Collection records (open circles = DNA)



Holotype (WAM T96452) male^{DNA}: Albion Downs, WA



Paratype (WAM T96467) male: Albion Downs, WA

Idiosoma clypeatum sp. n. [MYG018] (cont.)



WAM T96463 male: Albion Downs, WA



WAM T139501 male: Browns Soak, 20 miles N. of Lake Barlee, WA



WAM T98142 male: Glen Station, off Kalli Road, WA



WAM T136251 male: Jack Hills, ca. 1 km SW. of Mount Hale, WA

Idiosoma clypeatum sp. n. [MYG018] (cont.)



WAM T136252 male^{DNA}: Jack Hills, ca. 1 km SW. of Mount Hale, WA



WAM T139505 male: Urawa Nature Reserve, north, site ML7, WA [NB. right leg I flipped horizontal]

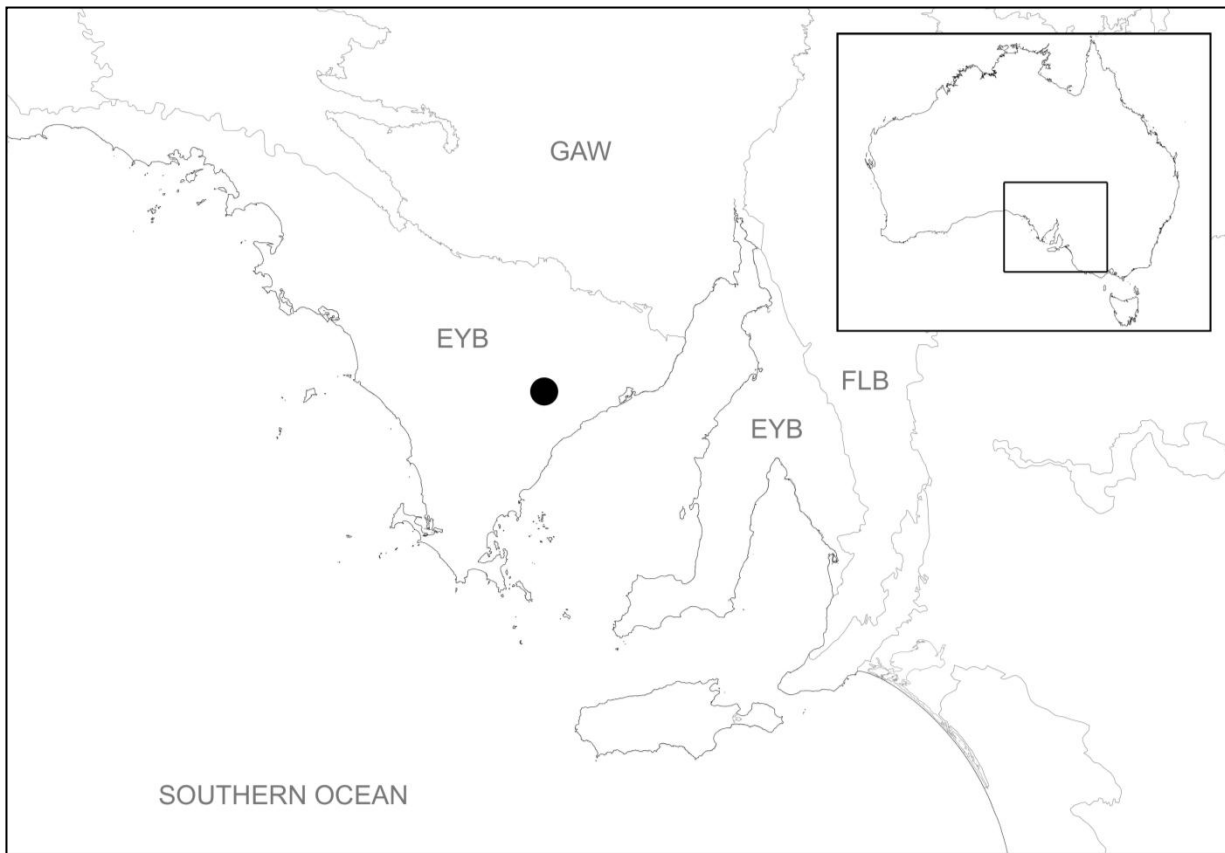


WAM T139506 male: Weld Range North, site WN8, WA



WAM T139503 male: Weld Range North, site WN11, WA

Idiosoma corrugatum sp. n.

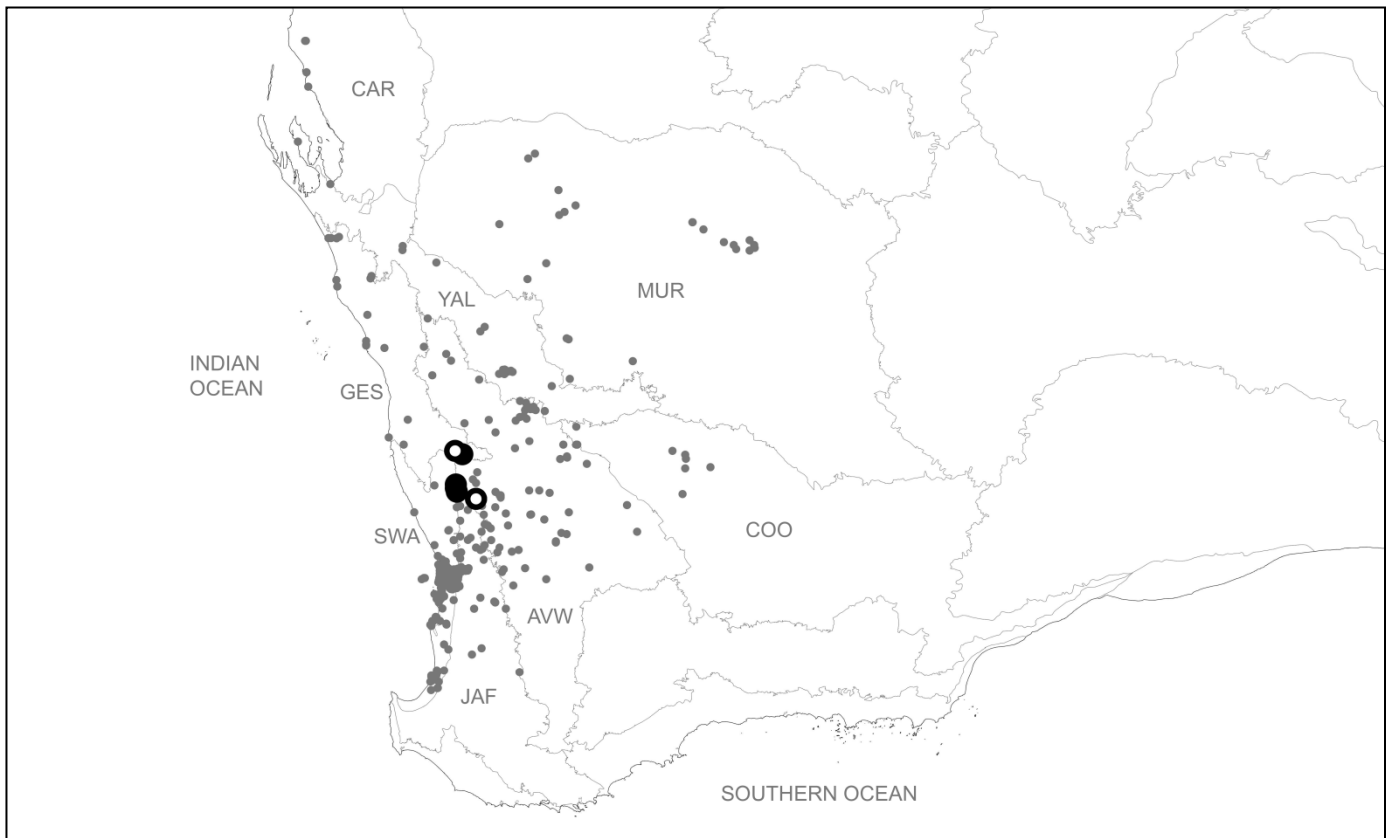


Collection records (NB. not DNA sequenced)



Holotype (SAM NN29858) male: SW. of Kimba, Eyre Peninsula, SA

Idiosoma dandaragan sp. n. [MYG477]



Collection records (open circles = DNA)



Holotype (WAM T139522) male: S. of Moora on Mogumber Road, WA



WAM T139521 male: S. of Moora on Mogumber Road, WA

Idiosoma dandaragan sp. n. [MYG477] (cont.)



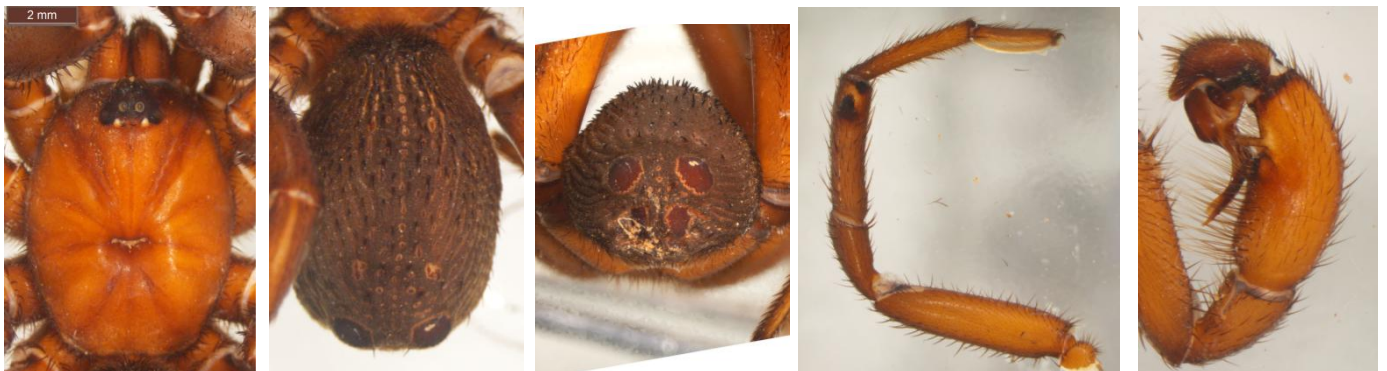
WAM T139523 male: S. of Moora on Mogumber Road, WA



WAM T139524 male: S. of Moora on Mogumber Road, WA

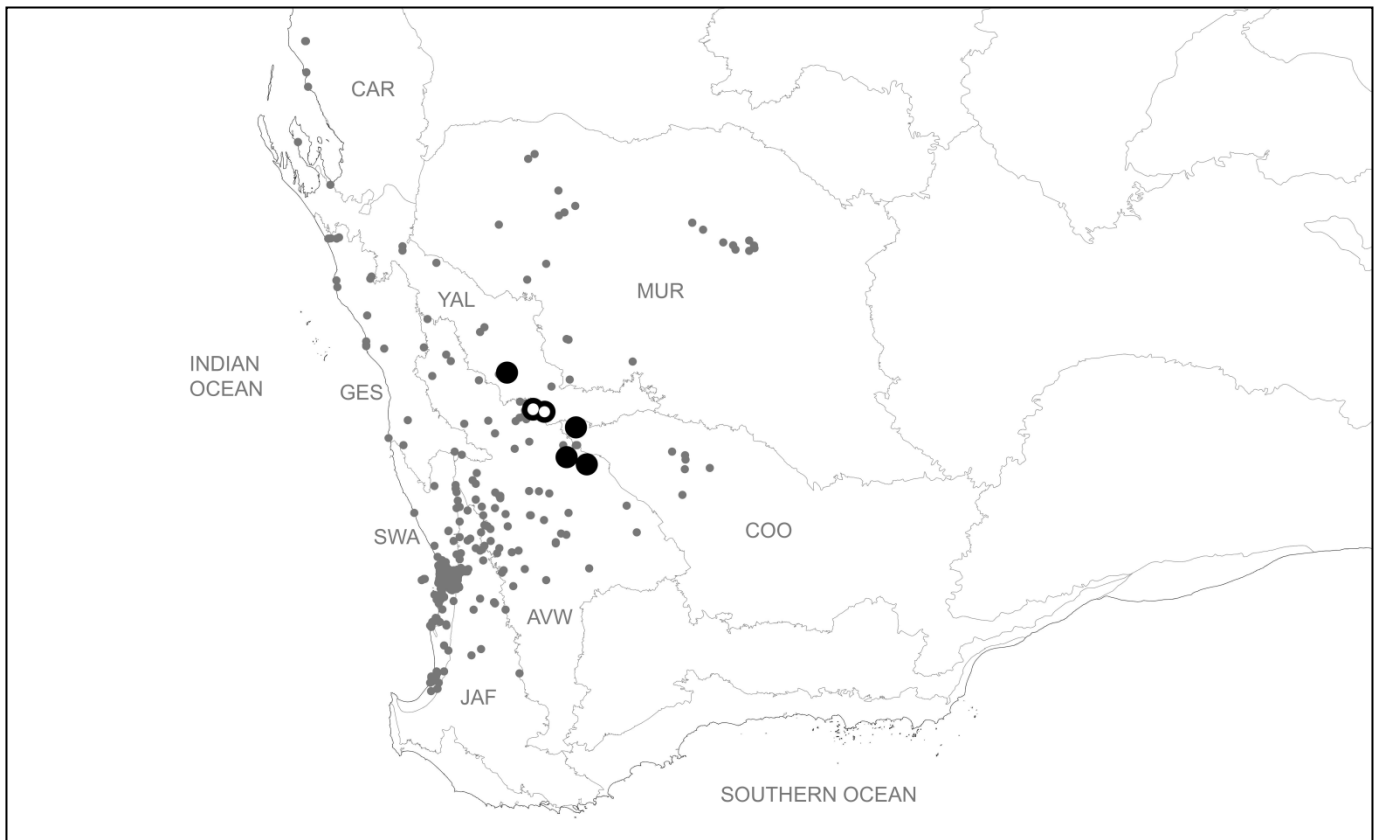


WAM T139525 male: S. of Moora on Mogumber Road, WA



WAM T139526 male: S. of Moora on Mogumber Road, WA

Idiosoma formosum sp. n. [MYG262]



Collection records (open circles = DNA)



Holotype (WAM T139470) male^{DNA}: Mt Gibson, WA



WAM T139495 male: Dajoin Rock, WA

***Idiosoma formosum* sp. n. [MYG262] (cont.)**

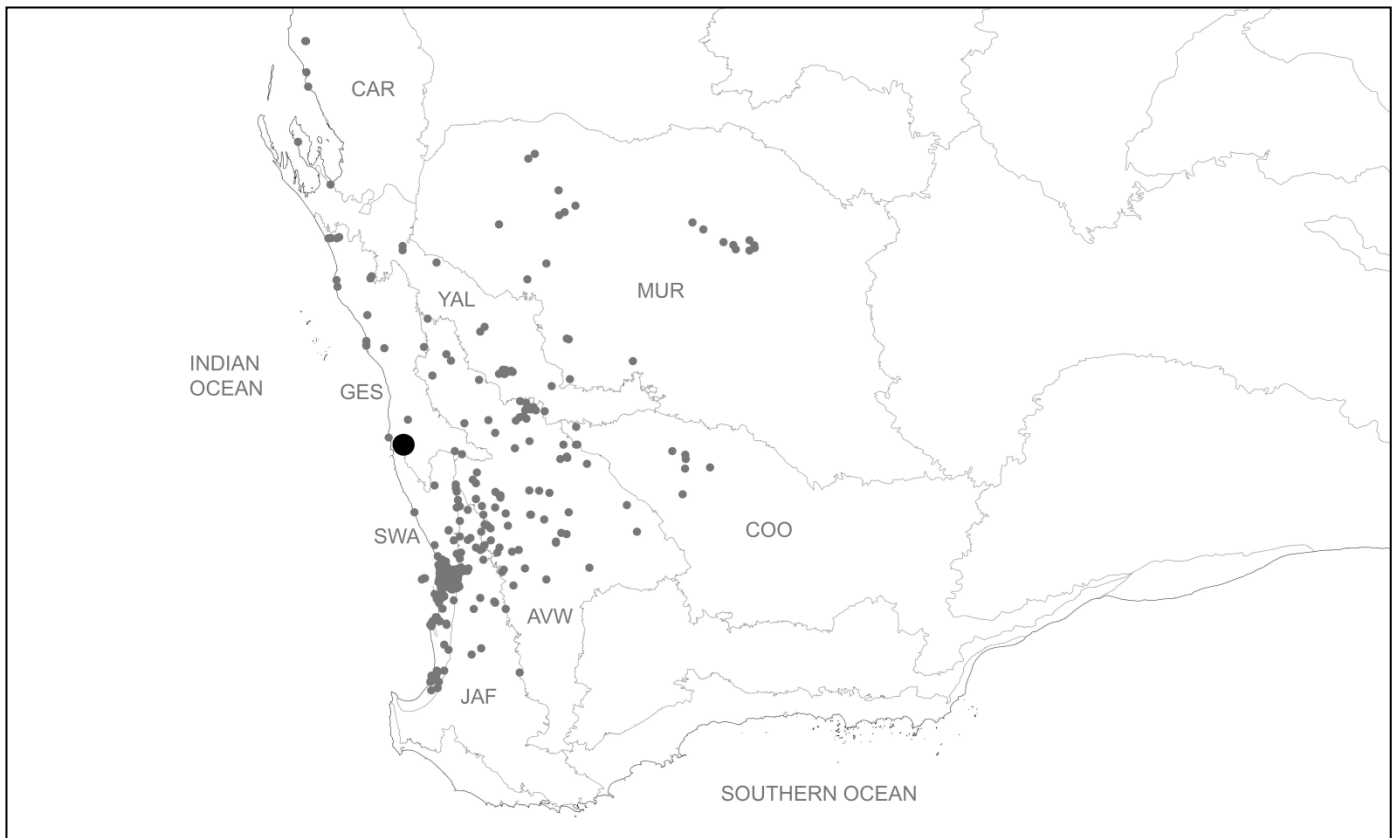


WAM T139516a male: Mungarri Nature Reserve (North), WA



WAM T139516b male: Mungarri Nature Reserve (North), WA

Idiosoma gardneri sp. n. [MYG476]

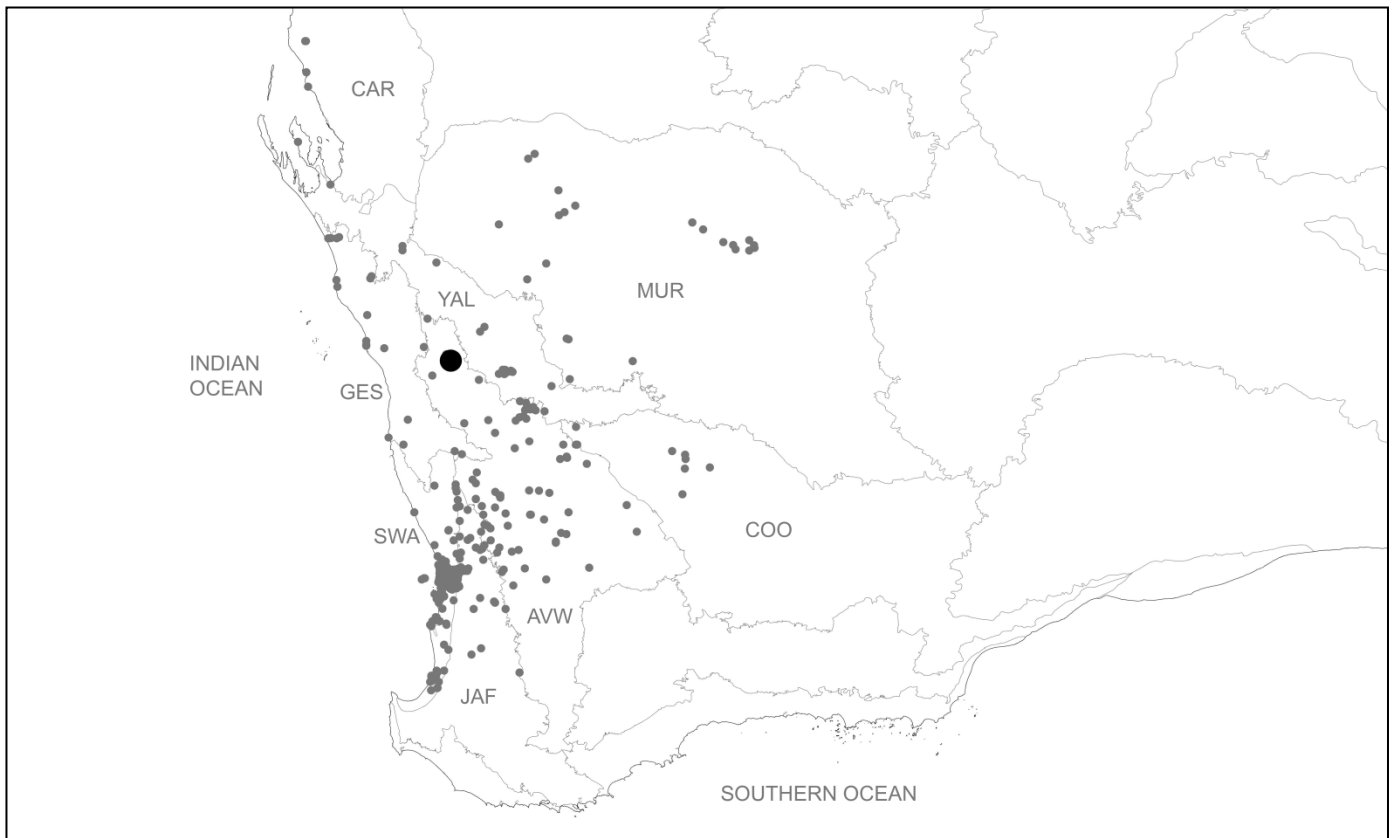


Collection records (NB. not DNA sequenced)



Holotype (WAM T139528) male: Lesueur National Park, WA

Idiosoma gutharuka sp. n. [MYG157]

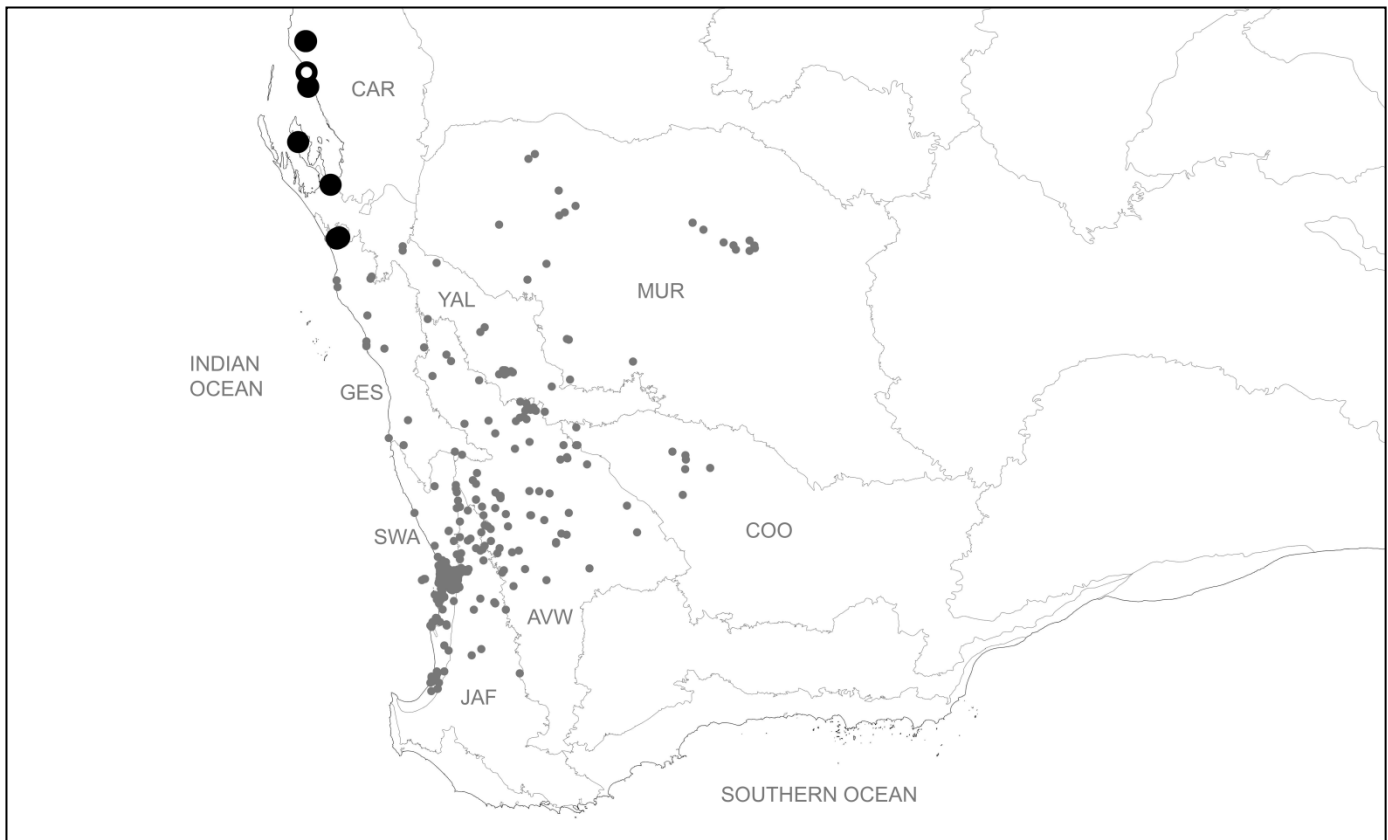


Collection records (NB. not DNA sequenced)



Holotype (WAM T38517) male: Gutha, WA

Idiosoma incomptum sp. n. [MYG130]



Collection records (open circles = DNA)



Holotype (WAM T99997) male^{DNA}: Carnarvon, WA



WAM T98469 male: Boolathana Station, WA

***Idiosoma incomptum* sp. n. [MYG130] (cont.)**



WAM T98474 male: Boolathana Station, WA



WAM T98472 male: Bush Bay, WA



WAM T98473a male: Francois Peron National Park, WA



WAM T98473b male: Francois Peron National Park, WA

***Idiosoma incomptum* sp. n. [MYG130] (cont.)**



WAM T98470 male: Nanga Station, WA



WAM T98471 male: Zuytdorp, WA

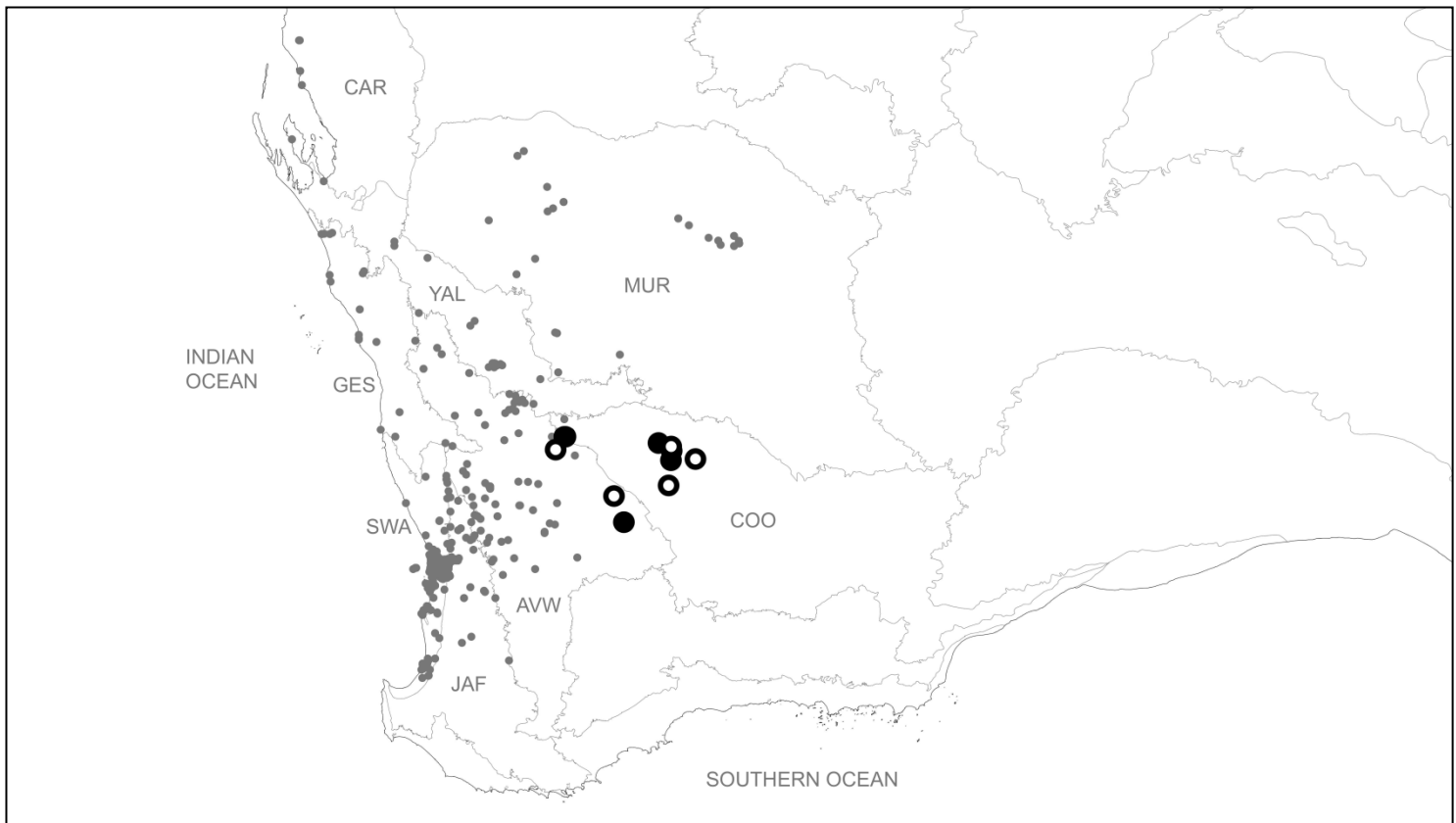


WAM T98475a male: Zuytdorp, WA



WAM T98475b male: Zuytdorp, WA

Idiosoma intermedium sp. n. [MYG475]



Collection records (open circles = DNA)



Holotype (WAM T139520) male: Bodallin, WA



WAM T139494 male: Billiburning Rock, WA

***Idiosoma intermedium* sp. n. [MYG475] (cont.)**

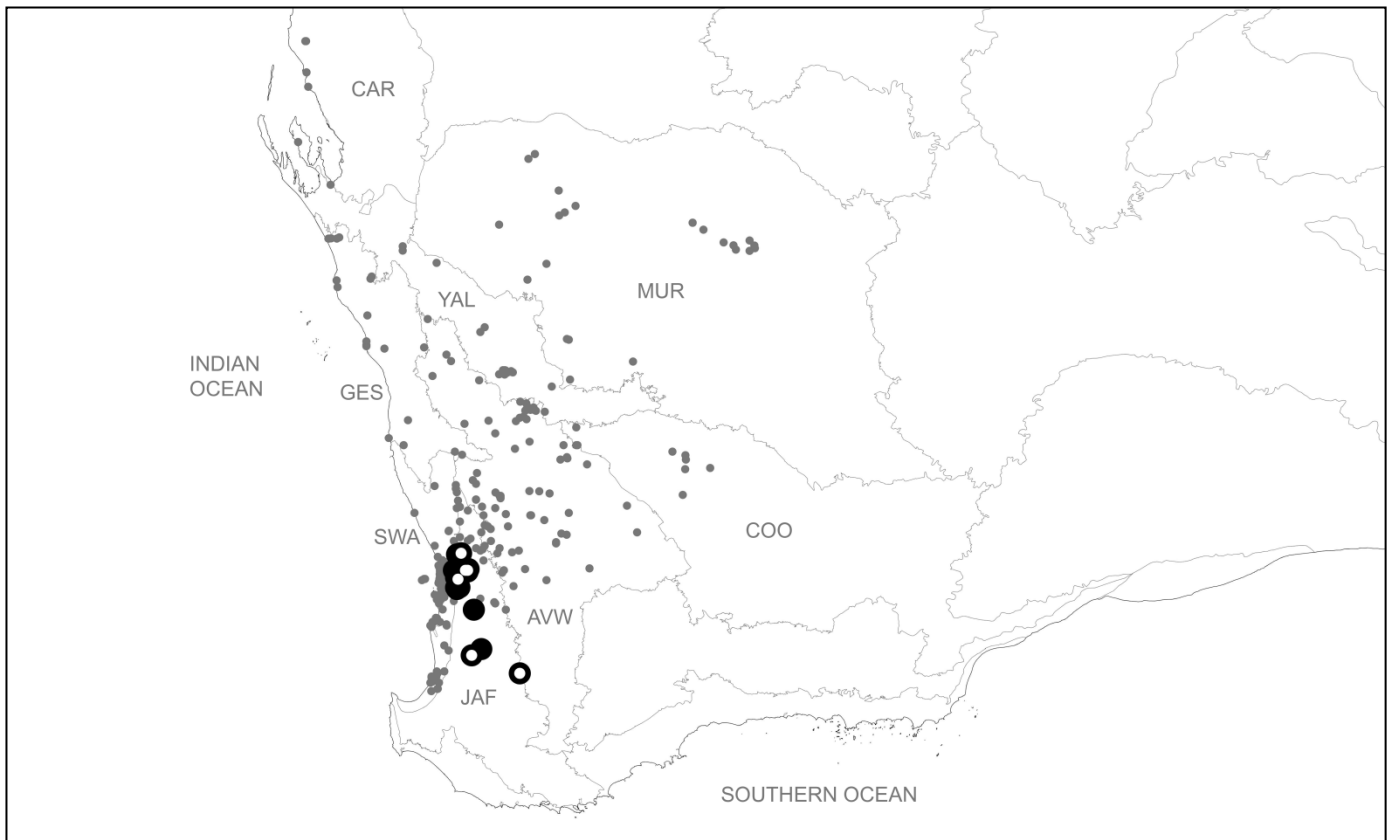


WAM T139517 male^{DNA}: Mungarri Nature Reserve (South), WA



WAM T139519 male^{DNA}: Warrachupin North Road, WA

Idiosoma jarrah sp. n. [MYG156]



Collection records (open circles = DNA)



Holotype (WAM T124143) male^{DNA}: Lesmurdie, WA



WAM T74623 male: SW. of Boddington, WA

Idiosoma jarrah sp. n. [MYG156] (cont.)



WAM T99952 male^{DNA}: SW. of Boddington, WA



WAM T136943 male^{DNA}: Bullsbrook, Smith Road, WA



WAM T26822 male: Darlington, WA



WAM T139475 male: Gooseberry Hill, WA

Idiosoma jarrah sp. n. [MYG156] (cont.)



WAM T63354 male: Mount Helena, WA



WAM T18582 male: Mundaring Weir Road, Kalamunda, WA

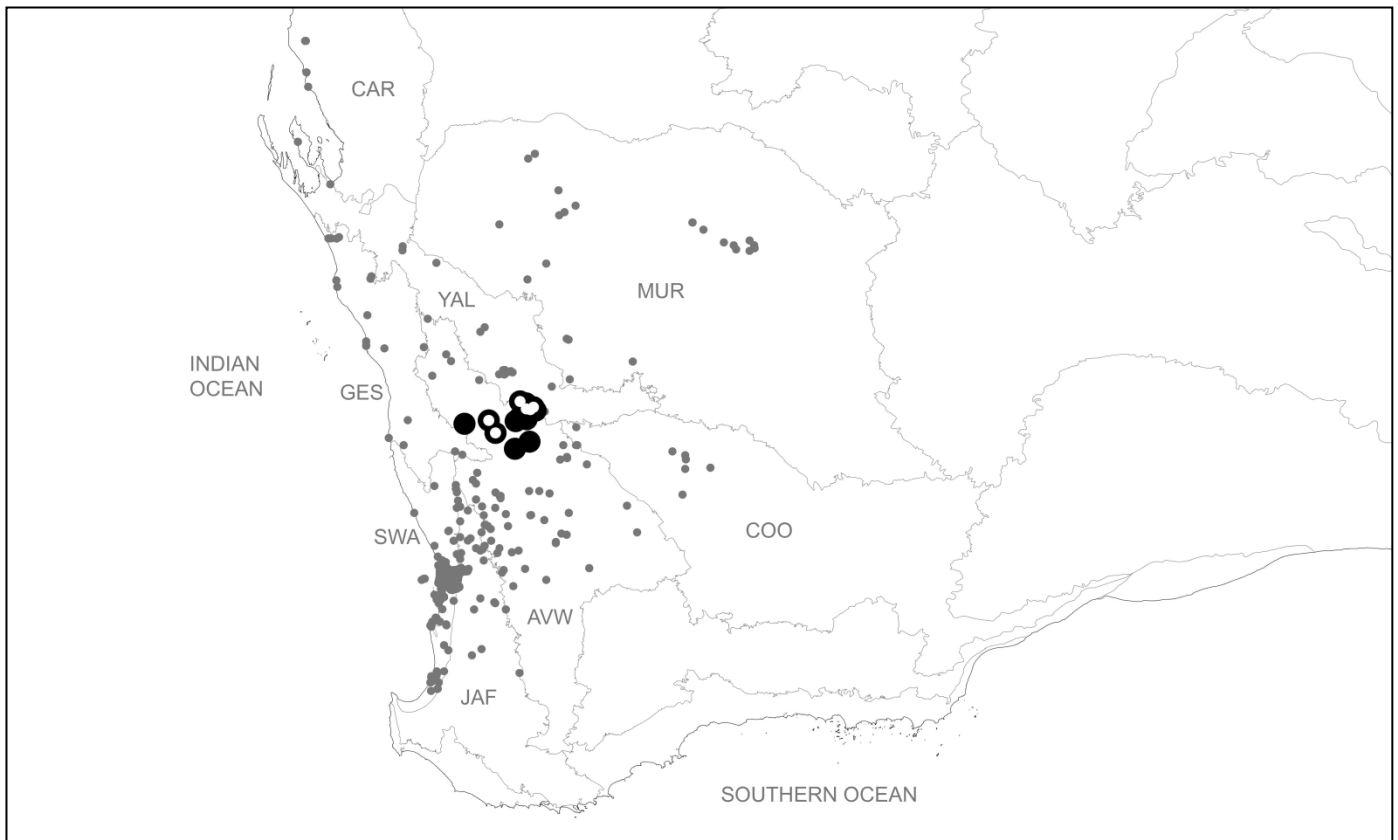


WAM T139474 male: Roleystone, WA



WAM T30019 male: Talbot Road Reserve, site TR3, WA

Idiosoma kopejtkorum sp. n. [MYG521]



Collection records (open circles = DNA)



Holotype (WAM T144621) male: Snake Gully Nature Reserve, WA



Paratype (WAM T139498) male: Snake Gully Nature Reserve, WA

***Idiosoma kopejtkorum* sp. n. [MYG521] (cont.)**

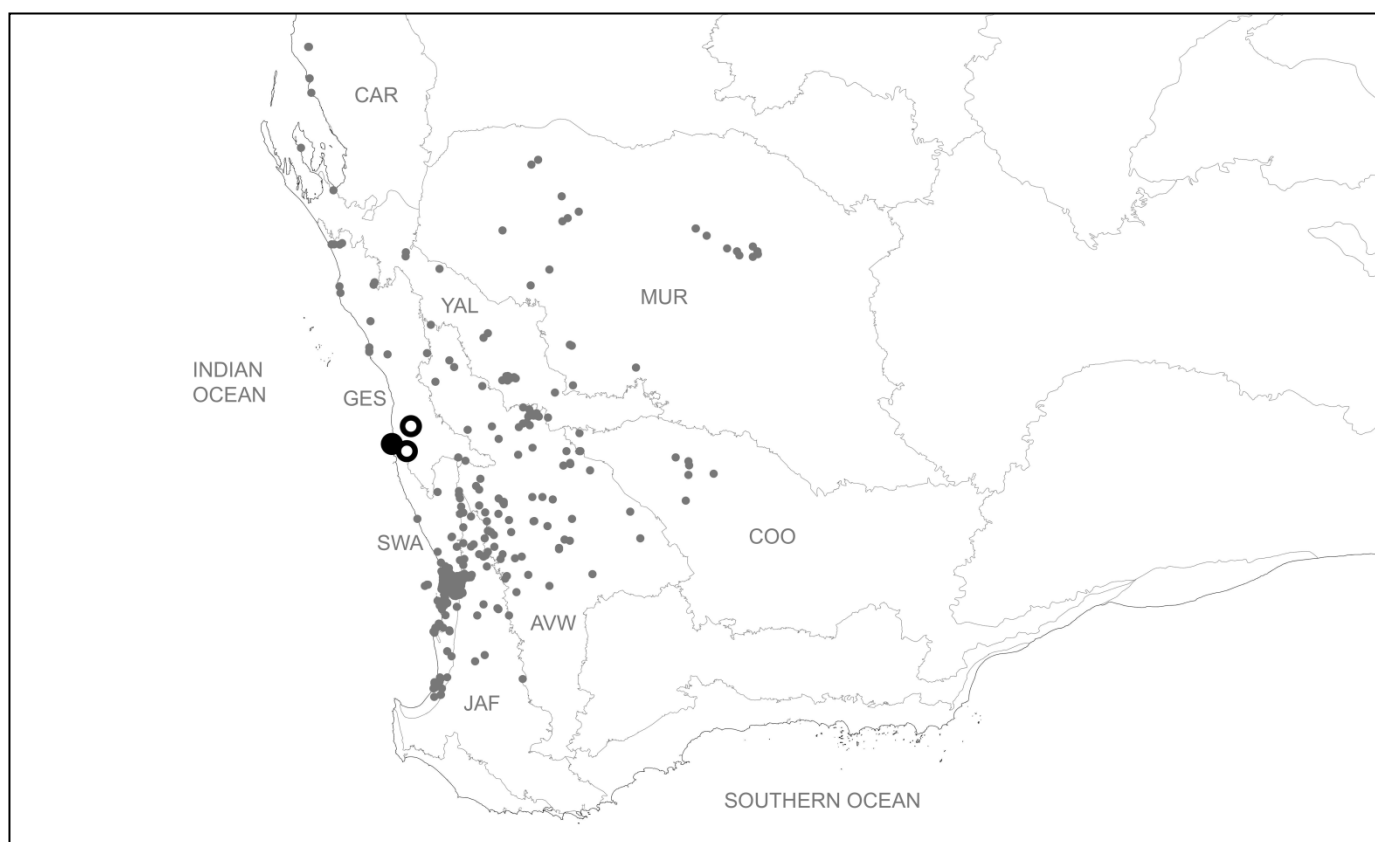


WAM T139499 male: Snake Gully Nature Reserve, WA



WAM T139497 male: Lake Goorly (North-west), WA

Idiosoma kwongan sp. n. [MYG472]



Collection records (open circles = DNA)



Holotype (WAM T27142) male: E. of Greenhead, WA



WAM T27117 male^{DNA}: Eneabba, AMC Minesite, WA

***Idiosoma kwongan* sp. n. [MYG472] (cont.)**

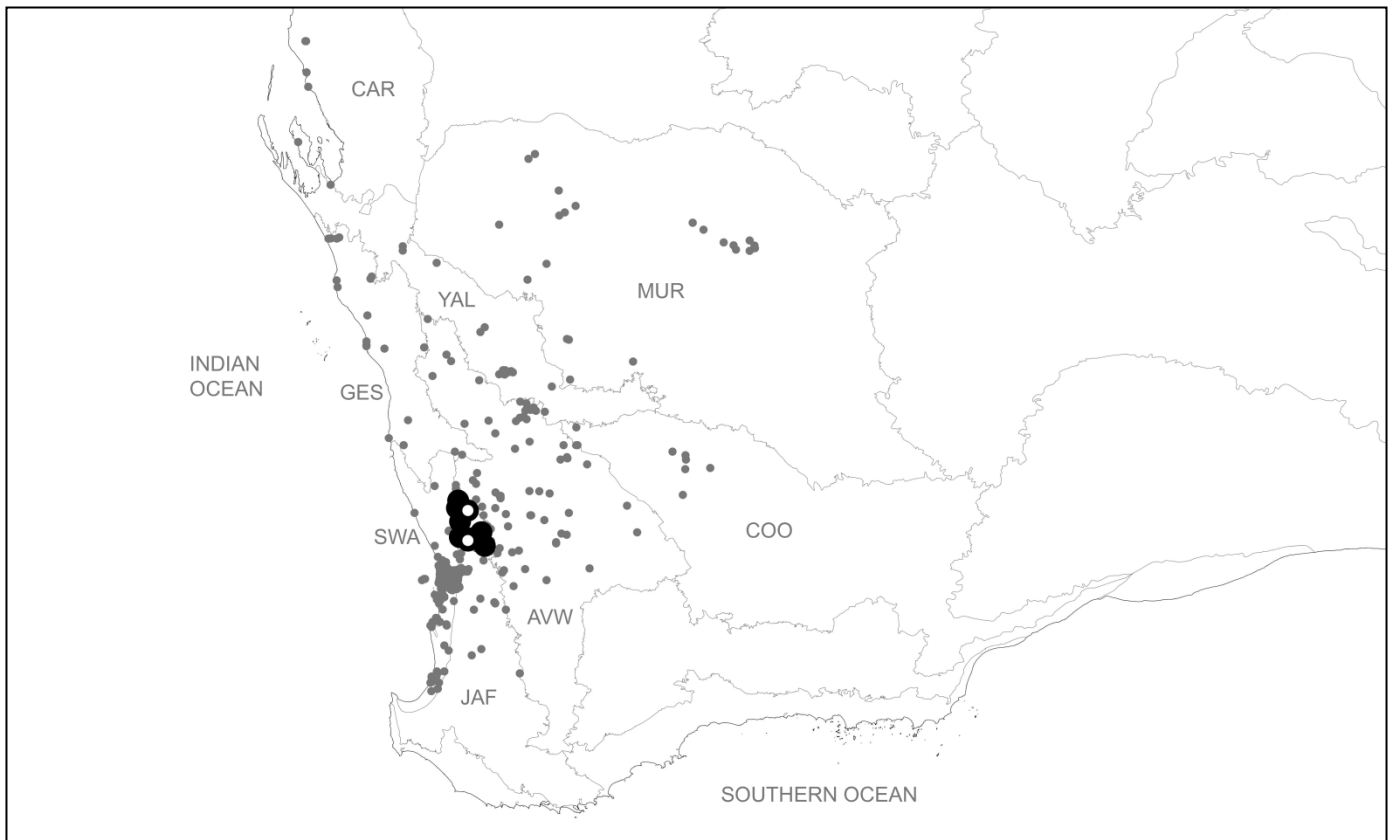


WAM T27118 male: Eneabba, AMC Minesite, WA



WAM T139468 male^{DNA}: Lesueur National Park, WA

Idiosoma mcclementsorum sp. n. [MYG474]



Collection records (open circles = DNA)



Holotype (WAM T139471) male: Julimar State Forest, WA



Paratype (WAM T139472) male: Julimar State Forest, WA

***Idiosoma mcclementsorum* sp. n. [MYG474] (cont.)**

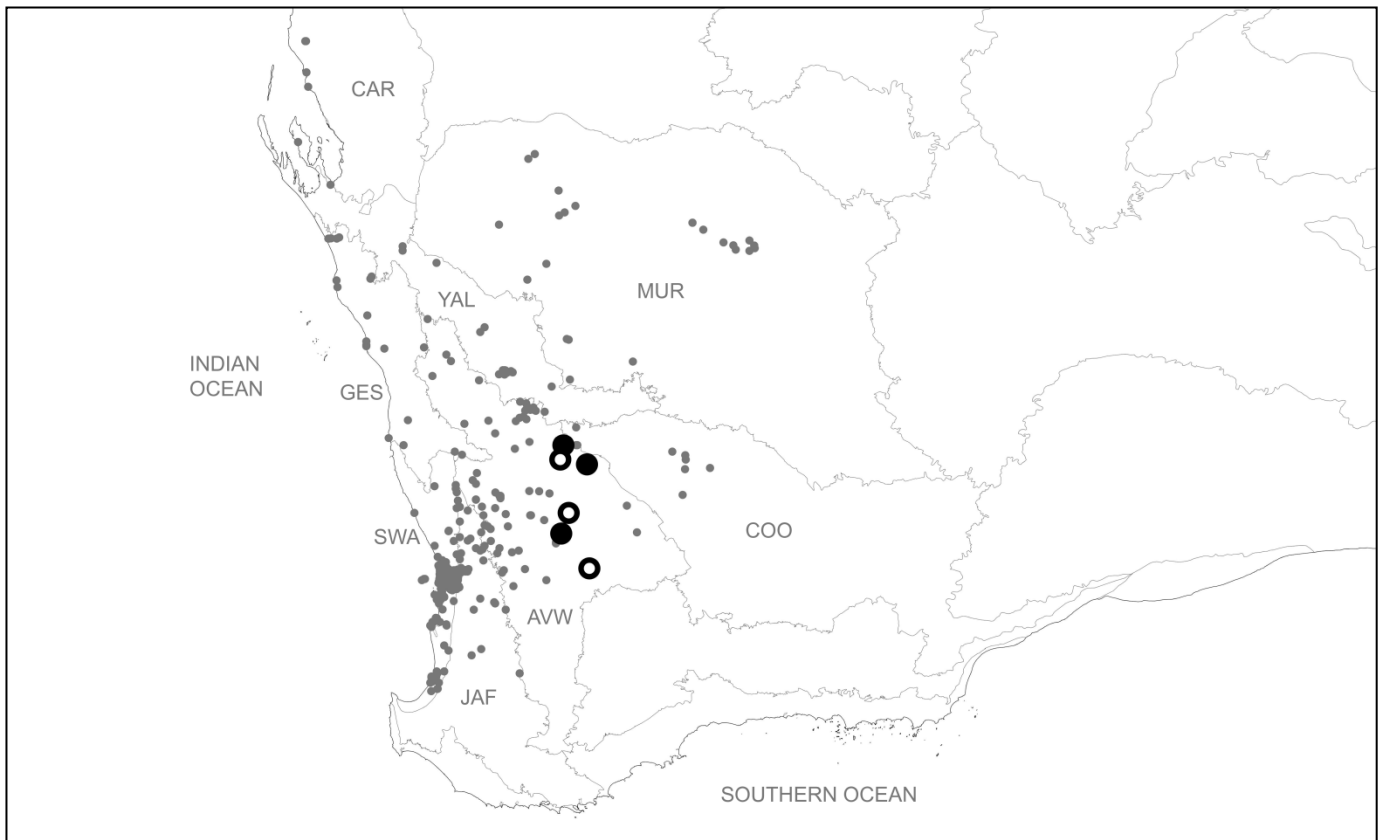


WAM T29779 male: Toodyay, Bindoon Road, WA

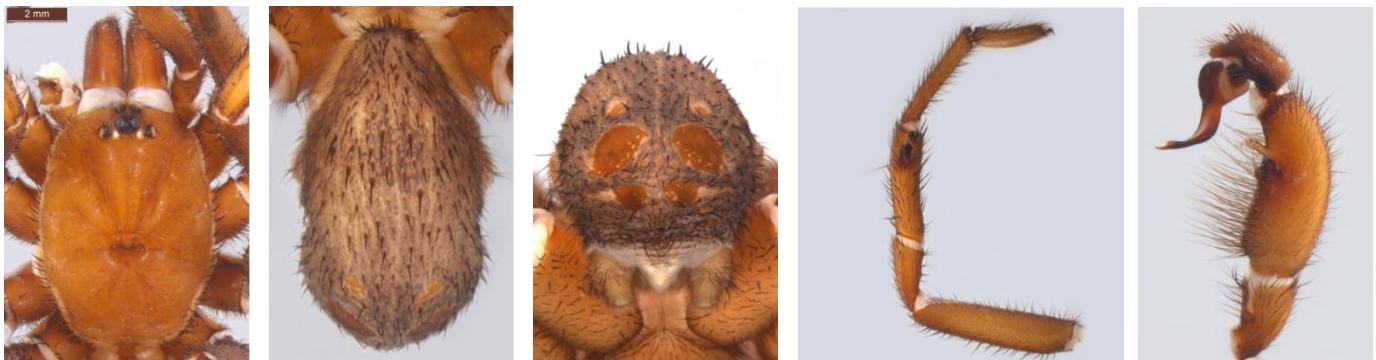


WAM T44388 male: Toodyay, WA

Idiosoma mcnamarai sp. n. [MYG520]



Collection records (open circles = DNA)



Holotype (WAM T26107) male^{DNA}: Trayning, WA



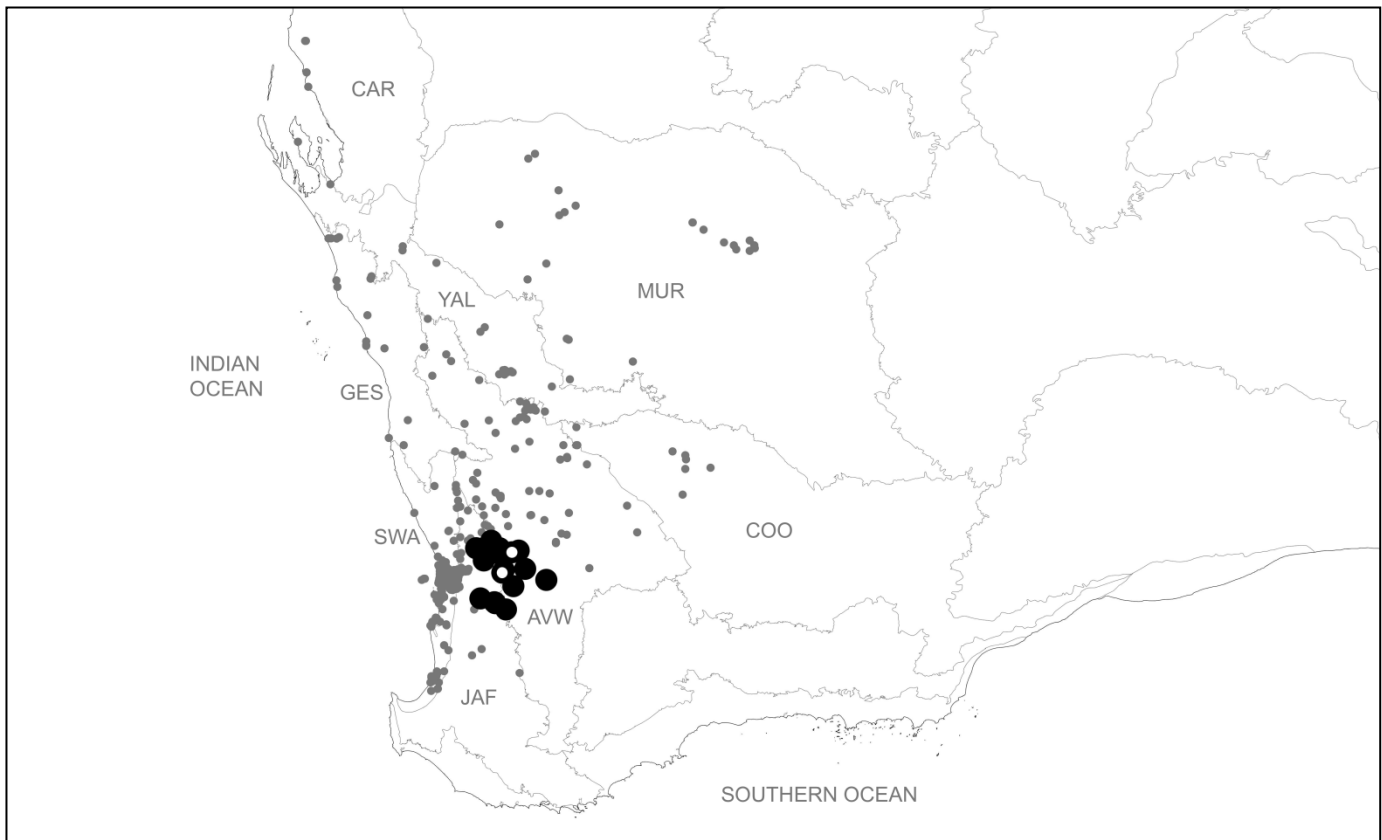
WAM T139518 male^{DNA}: Bruce Rock-Doodlakine Road, WA

***Idiosoma mcnamarai* sp. n. [MYG520] (cont.)**



WAM T44169 male: East Yorkrakine Nature Reserve, WA

Idiosoma schoknechtorum sp. n. [MYG518]



Collection records (open circles = DNA)



WAM T139512 male: Beverley, WA



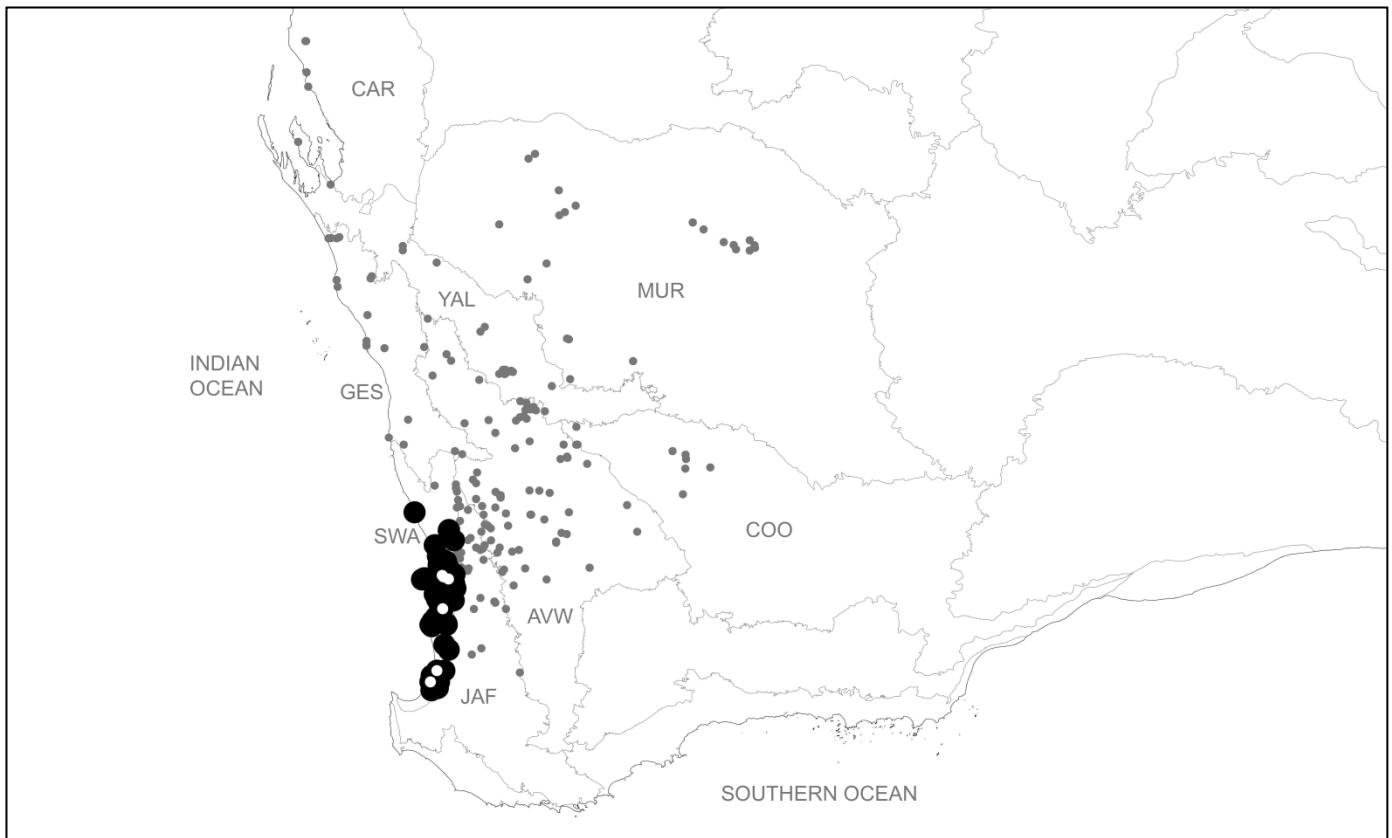
WAM T27121 male: Meckering, WA

***Idiosoma schoknechtorum* sp. n. [MYG518] (cont.)**



WAM T139513 male: Westdale, WA

Idiosoma sigillatum (O.P.-Cambridge, 1870)



Collection records (open circles = DNA)



WAM T139480 male: Duncraig, Perth, WA [reference specimen]



WAM T132564 male^{DNA}: Crawley, Perth, WA

Idiosoma sigillatum (O.P.-Cambridge, 1870) (cont.)



WAM T27984 male: Dardanup, WA



WAM T18552 male: Garden Island [sic "Naval Base"], WA



WAM T31152 male: Gelorup, WA

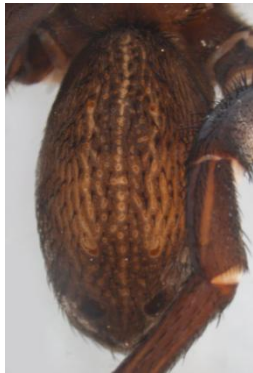


WAM T27135 male: Kings Park, Perth, WA [NB. right palp flipped horizontal]

Idiosoma sigillatum (O.P.-Cambridge, 1870) (cont.)



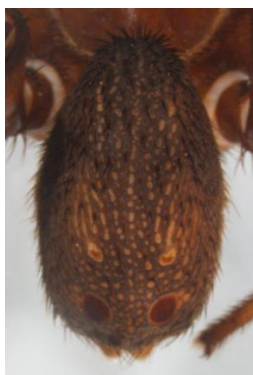
WAM T46829 male: Mandurah, WA



WAM T41569 male: Mundijong, WA



WAM T139486 male: Rottnest Island, WA



WAM T18575 male: Yanchep Park, WA