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Annotated checklist and distribution of the Australasian Haliplidae (Coleoptera)

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Abstract

The Haliplidae (Coleoptera) of the Australasian Region are listed, and new distribution data are presented. All known localities are mapped. *Phalilus bistriatus* (WEHNCKE, 1880) is recorded from New South Wales for the first time.

Key words: Coleoptera, Haliplidae, Australia, New Guinea, Moluccas, New Caledonia, faunistics, distribution.

Introduction

Recently, the phylogeny of the genera and subgenera of Haliplidae was analyzed by VONDEL (2019) resulting in the upgrading of the subgenus *Phalilus* GUIGNOT, 1935 to genus level, and the erection of a new subgenus of *Halipilus* LATREILLE, 1802: *Australipilus* VONDEL, 2019.

Other relevant faunistic/taxonomic studies on the Australasian Haliplidae were published by VONDEL (1995), WATTS (1988), WATTS & MCRAE (2010), WATTS & HAMON (2015). Since then, various new faunistic data became available. In the “Atlas of Living Australia” (ALA 2021), a number of new records are registered, but from a limited number of collections. According to C.H.S. Watts (pers. comm.), the database of ALA needs some corrections, which will follow hereafter.

All localities known so far are listed in Tab. 2, together with their coordinates.

The Australasian Region is defined according to VONDEL (1995) and includes Australia, New Guinea, the Moluccas and New Caledonia.

Material and methods

Methods and taxonomic terms are explained in VONDEL (1997). Distribution maps were made using Google Maps.

Material reported here for the first time is originating from the following institutions:

BMNH	Natural History Museum, London, UK (C. Taylor)
BPBM	Bernice P. Bishop Museum, Honolulu, Hawaii, USA (G.S. Samuelson, J.H. Boone)
CLH	Collection L. Hendrich, Munich, Germany
NHMB	Naturhistorisches Museum Basel, Switzerland (M. Brancucci †)
NMPC	National Museum (Natural History), Prague, Czechia (J. Hájek)
NMW	Naturhistorisches Museum Wien, Austria (M.A. Jäch)
SDEI	Senckenberg Deutsches Entomologisches Institut, Müncheberg, Germany (L. Zerche)
SEMC	Snow Entomological Collections, University of Kansas, Lawrence, Kansas, USA (A.E.Z. Short)

Checklist of the Australasian species of Haliplidae

Haliphus (Australiphus) sindus WATTS, 1988
Haliphus (Liaphlus) alastairi WATTS, 1988
Haliphus (Liaphlus) australis CLARK, 1862
Haliphus (Liaphlus) ferruginipes RÉGIMBART, 1892 (= *H. nicholasi* WATTS, 1988)
Haliphus (Liaphlus) halsei WATTS & MCRAE, 2010
Haliphus (Liaphlus) pilbaraensis WATTS & MCRAE, 2010
Haliphus (Liaphlus) signatipennis RÉGIMBART, 1892
Haliphus (Liaphlus) stepheni WATTS, 1988
Haliphus (Liaphlus) testudo CLARK, 1862 (= *H. nigrolineatus* WEHNCKE, 1883)
Haliphus (Liaphlus) timmsi VONDEL, 1995
Haliphus (Liaphlus) watti VONDEL, 1995

Phalilus bistratus (WEHNCKE, 1880)
Phalilus fortescueensis (WATTS & MCRAE, 2010)
Phalilus fuscatus (CLARK, 1862)
Phalilus gibbus (CLARK, 1862)
Phalilus hydei (VONDEL, 1995)
Phalilus oberthuri (GUIGNOT, 1935)
Phalilus pinderi (WATTS & MCRAE, 2010)
Phalilus storeyi (VONDEL, 1995)

Biogeography

The Australasian faunal region as treated in this paper comprises the Moluccas, New Guinea, Australia and New Caledonia. No Haliplidae have been recorded from the Solomon Islands, Vanuatu or New Zealand. All traceable records of Haliplidae from the region are listed and mapped (Fig. 1, Tab. 2). Distribution maps are provided for each species (Figs. 2–21). In Tab. 1, the total number of species is listed for each country, state or territory. Remarkably, no Haliplidae have been recorded from the Australian Capital Territory so far. Queensland, Northern Territory and Western Australia are the richest in species.

Tab. 1: List of species, and the countries, states, territories, or islands from which records are known. Specimens without detailed locality data (more specific than “Australia”) are not included. Abbreviations: Australia: ACT = Australian Capital Territory, NSW = New South Wales, NT = Northern Territory, QLD = Queensland, SA = South Australia, TAS = Tasmania, VIC = Victoria, WA = Western Australia. Indonesia: PAP = Papua, SER = Seram. NC = New Caledonia. PNG = Papua New Guinea. + = confirmed record. ? = *Phalilus fuscatus/gibbus*.

DISTRIBUTION SPECIES	ACT	NSW	NT	QLD	SA	TAS	VIC	WA	PAP	SER	NC	PNG
<i>Haliphus sindus</i>			+	+								
<i>H. alastairi</i>			+	+				+				
<i>H. australis</i>		+			+		+					
<i>H. ferruginipes</i>			+	+					+			+
<i>H. halsei</i>								+				
<i>H. pilbaraensis</i>			+					+				
<i>H. signatipennis</i>										+		+
<i>H. stepheni</i>			+	+				+				
<i>H. testudo</i>		+	+	+			+					

<i>H. timmsi</i>			+	+								
<i>H. wattsi</i>			+	+				+				+
<i>Phalilus bistriatus</i>		+	+	+	+			+				
<i>P. fortescueensis</i>								+				
<i>P. fuscatus</i>		?	?	+	+	?	+	+				
<i>P. gibbus</i>		?	?	?	+	+	+	+				
<i>P. hydei</i>				+								
<i>P. oberthuri</i>		+	+	+							+	
<i>P. pinderi</i>								+				
<i>P. storeyi</i>			+	+								
Number of species	0	4–6	11–13	12–13	4	1–2	4	10	1	1	1	3

Haliplus (Australiplus) sindus WATTS, 1988

PREVIOUSLY PUBLISHED RECORDS: WATTS (1988): Queensland, Bentinck Island; VONDEL (1995): Queensland: Bentinck Island and Home Hill; WATTS & HAMON (2015): “A northern species”; ALA (2021): Queensland, Northern Territory.

ADDITIONAL MATERIAL EXAMINED:

AUSTRALIA: Northern Territory: 1 ♀, Kakadu N.P., Jim Jim Road, Barramundi Creek, 300 m a.s.l., 12°59.652'S 132°22.928'E, 30.X.1996, leg. L. Hendrich (CLH)

DISTRIBUTION (Fig. 2): Northern Territory, Queensland.

Haliplus (Liaphlus) alastairi WATTS, 1988

PREVIOUSLY PUBLISHED RECORDS: WATTS (1988): “The east coast of Cape York and the top end of the Northern Territory”; VONDEL (1995): northern part of Western Australia, Northern Territory, Queensland; WATTS & HAMON (2015): “A relatively common northern species”; ALA (2021): Queensland, Northern Territory, Western Australia, [South Australia] (this record (“Barmera”) actually refers to Bamaga in Queensland, C.H.S. Watts, pers. comm.).

ADDITIONAL MATERIAL EXAMINED:

AUSTRALIA: Northern Territory: 1 ♀, Holmes Jungle, Palm Creek, 15 km NE Darwin, 5 m a.s.l., 14.III.1961, leg. J.L. & M. Gressitt (BPBM); 2 exs., Kakadu N.P., Jim Jim Road, Barramundi Creek, 30 m a.s.l., 12°59.652'S 132°22.928'E, 30.X.1996, leg. L. Hendrich (CLH); 2 exs., 25 km S Katherine, near Cutta Cutta Caves, 14°31'S 132°25'E, ca. 170 m a.s.l., 23.–31.XII.2008, leg. S. Jákli; 9 exs., 70 km SW Mataranka, 15°19'S 132°50'E, 190 m a.s.l., 22.–23.XII.2008, leg. S. Jákli (NMPC). Queensland: 10 exs., 10 km S Tully, S Innisfail, 30 m a.s.l., 25.I.1993, leg. G. Wewalka (NMW).

DISTRIBUTION (Fig. 3): Northern Territory, Queensland, Western Australia. This species was erroneously recorded from South Australia in ALA (2021).

Haliplus (Liaphlus) australis CLARK, 1862

PREVIOUSLY PUBLISHED RECORDS: CLARK (1862): South Australia; TIMMS & WATTS (1981): New South Wales: 6 km S Woolli; LAWRENCE et al. (1987): South Australia; VONDEL (1995): South Australia, Victoria, [Queensland] (erroneous record, see below); HENDRICH (2001): Scott Creek Conservation Park, Adelaide, South Australia; WATTS & HAMON (2015): “A southern species”; ALA (2021): [Western Australia] (this record actually refers to *H. pilbaraensis*, C.H.S. Watts, pers. comm.), South Australia.

DISTRIBUTION (Fig. 4): New South Wales, South Australia, Victoria. VONDEL (1995) erroneously recorded this species from Queensland (Glen Valley is actually lying in Victoria).

***Haliphus (Liaphlus) ferruginipes* RÉGIMBART, 1892**

Haliphus nicholasi WATTS, 1988

PREVIOUSLY PUBLISHED RECORDS: RÉGIMBART (1892): “Papua, Rigo” [Papua New Guinea]; WATTS (1988), as *Haliphus nicholasi*: Queensland, near Cairns and Townsville; VONDEL (1995): Northern Territory, northern part of Queensland, Papua New Guinea, Indonesia: Papua; WATTS & HAMON (2015): “A rare species from northern Australia”.

DISTRIBUTION (Fig. 5): Indonesia: Papua; Papua New Guinea; Northern Territory, Queensland.

***Haliphus (Liaphlus) halsei* WATTS & MCRAE, 2010**

PREVIOUSLY PUBLISHED RECORDS: WATTS & MCRAE (2010): Western Australia; VONDEL (2012): Western Australia (larva); WATTS & HAMON (2015): Western Australia; ALA (2021): Western Australia.

ADDITIONAL MATERIAL EXAMINED:

AUSTRALIA: Western Australia: 1 ♂, VI.1998, Millie Soak, 10 km N Cue, ca. 425 m a.s.l., 27.29033°S 117.91034°E, 2.–3.II.2006, leg. M. Baehr (CLH).

DISTRIBUTION (Fig. 6): Western Australia.

***Haliphus (Liaphlus) pilbaraensis* WATTS & MCRAE, 2010**

PREVIOUSLY PUBLISHED RECORDS: WATTS & MCRAE (2010): Western Australia; VONDEL (2012): Western Australia (larva); WATTS & HAMON (2015): Western Australia; ALA (2021): Western Australia (records of *H. australis* and *H. testudo* from Western Australia actually refer to *H. pilbaraensis*, C.H.S. Watts, pers. comm.).

ADDITIONAL MATERIAL EXAMINED:

AUSTRALIA: Northern Territory: 1 ♂, Litchfield N.P., Tjanyera Falls, 13°15'S 130°44'E, ca. 65 m a.s.l., 20.–27.XI.2008, leg. S. Jákl (NMPC).

DISTRIBUTION (Fig. 7): Northern Territory, Western Australia.

***Haliphus (Liaphlus) signatipennis* RÉGIMBART, 1892**

PREVIOUSLY PUBLISHED RECORDS: RÉGIMBART (1892): “Papua, Rigo” [Papua New Guinea]; VONDEL (1995): Indonesia (Seram), Papua New Guinea.

DISTRIBUTION (Fig. 8): Indonesia: Seram; Papua New Guinea.

***Haliphus (Liaphlus) stepheni* WATTS, 1988**

PREVIOUSLY PUBLISHED RECORDS: WATTS (1988): Northern Territory, near Darwin; VONDEL (1995): Western Australia, Northern Territory, Queensland; WATTS & HAMON (2015): “A northern species”; ALA (2021): Northern Territory.

ADDITIONAL MATERIAL EXAMINED:

AUSTRALIA: Northern Territory: 5 exs., Kakadu N.P., Jim Jim Road, Barramundi Creek, 300 m a.s.l., 12°59.652'S 132°22.928'E, 30.X.1996, leg. L. Hendrich (CLH).

DISTRIBUTION (Fig. 9): Northern Territory, Queensland, Western Australia.

***Haliphus (Liaphlus) testudo* CLARK, 1862**

Haliphus nigrolineatus WEHNCKE, 1883

PREVIOUSLY PUBLISHED RECORDS: CLARK (1862): Queensland: Moreton Bay; WEHNCKE (1883): as *H. nigrolineatus*: Uruguay (acc. to VONDEL (1995) obviously mislabeled); LAWRENCE et al. (1987): “SE coastal, NE coastal, N. Gulf, N. coastal”, South Australia, Victoria, Queensland, Northern Territory, Boorooloola, Melbourne and

Moreton Bay; WATTS (1988): coastal regions from Darwin to Melbourne, also from Charleville in Queensland; VONDEL (1995): South Australia, Victoria, New South Wales, Queensland, Northern Territory; VONDEL (2004): New South Wales (larva); KEFFORD et al. (2006): Victoria: southern Murray-Darling Basin; WATTS & HAMON (2015): "coastal eastern Australia"; ALA (2021): Queensland, New South Wales, Victoria, Northern Territory, [Western Australia] (this record actually refers to *H. pilbaraensis*, C.H.S. Watts, pers. comm.).

ADDITIONAL MATERIAL EXAMINED:

AUSTRALIA: New South Wales: 2 ♂♂, 1 ♀, 1 km N North Nowra, Bomaderry Creek, ca. 70 m a.s.l., 34°50.383'S 150°35.509'E, 31.X.2006, leg. L. & E. Hendrich; 3 ♂♂, Wallagaraugh, River Picnic Area, 43 km SW Eden, ca. 55 m a.s.l., 37°22.079'S 149°43.073'E, 17.X.2006, leg. L. & E. Hendrich; 2 ♂♂, 23 km SE Grafton, Pillar Valley Creek, ca. 20 m a.s.l., 29°45.364'S 153°7.352'E, 14.X.2006, leg. L. & E. Hendrich; 1 ♂, 40 km NE Tenterfield, Crooked Creek at Buxner Highway, ca. 810 m a.s.l., 28°55.577'S 152°18.558'E, 13.X.2006, leg. L. & E. Hendrich; 1 ♂, 4 ♀♀, 17 km SE Nowra, Jerwis Bay N.P., Coonemia Road, ca. 55 m a.s.l., 34°58.156'S 150°43.045'E, 31.X.2006, leg. L. & E. Hendrich (CLH); Queensland: 1 ♂, 20 km NE Mareeba, Hodzic Road, ca. 360 m a.s.l., 16°49.556'S 145°27.21'E, 12.IX.2006, leg. L. & E. Hendrich (CLH); Victoria: 1 ♂, Genoa, Geo River Rest Area, ca. 70 m a.s.l., 37°28.186'S 149°35.427'E, 17.XI.2006, leg. L. & E. Hendrich (CLH).

DISTRIBUTION (Fig. 10): New South Wales, Northern Territory, Queensland, Victoria.

Haliplus (Liaphlus) timmsi VONDEL, 1995

PREVIOUSLY PUBLISHED RECORDS: VONDEL (1995): Queensland, Northern Territory; VONDEL (2004): Queensland (larvae); WATTS & HAMON (2015): "A relatively common northern species"; ALA (2021): Queensland, Northern Territory.

ADDITIONAL MATERIAL EXAMINED:

AUSTRALIA: Northern Territory: 56 exs., 70 km SW Mataranka, 15°19'S 132°50'E, 190 m a.s.l., 22.–23.XII.2008, leg. S. Jákli; 1 ex., 25 km S Katherine, near Cutta Cutta Caves, 14°32'S 132°25'E, ca. 170 m a.s.l., 23.–31.XII.2008, leg. S. Jákli (NMPC); 1 ex., Kakadu N.P., Jim Jim Road, Barramundi Creek, 300 m a.s.l., 12°59.652'S 132°22.928'E, 30.X.1996, leg. L. Hendrich (CLH); Queensland: 1 ♂, Undara, 13.II.2000, leg. S. Bilý (NMPC); 1 ♀, Cairns, VIII.1954, leg. J.G. Brooks (BMNH); 1 ex., 20 km E Normanton, II.1996, at light, leg. S. Lamond (CLH).

DISTRIBUTION (Fig. 11): Northern Territory, Queensland.

Haliplus (Liaphlus) watti VONDEL, 1995

PREVIOUSLY PUBLISHED RECORDS: VONDEL (1995): Queensland, Northern Territory, northern part of Western Australia, Papua New Guinea; HENDRICH (2003): Western Australia, Pilbara, Millstream Chichester N.P., Palm Pool at Fortescue River Crossing; WATTS & HAMON (2015): "A relatively common northern species"; ALA (2021): Queensland, Northern Territory.

ADDITIONAL MATERIAL EXAMINED:

AUSTRALIA: Northern Territory: 7 exs., 70 km SW Mataranka, 15°19'S 132°50'E, 190 m a.s.l., 22.–23.XII.2008, leg. S. Jákli; 1 ex., 25 km S Katherine, near Cutta Cutta Caves, 14°31'S 132°25'E, ca. 170 m a.s.l., 23.–31.XII.2008, leg. S. Jákli; 1 ex., Litchfield N.P., Tjaynera Falls, 13°15'S 130°44'E, ca. 65 m a.s.l., 20.–27.XI.2008, leg. S. Jákli (NMPC); 6 exs., Kakadu N.P., Jim Jim Road, Barramundi Creek, 30 m a.s.l., 12°59.652'S 132°22.928'E, 30.X.1996, leg. L. Hendrich; 1 ex., Kakadu N.P., 14 km SSW Jabiru, Malabanjbanjdju Billabong, 12°45.92'S 132°45.31'E, ca. 15 m a.s.l., 3.–4.XII.2007, leg. M. Baehr (CLH); 2 exs., Adelaide River, 13°14'20.4"S 131°6'23.4"E, 6.VII.1998, leg. W. Ulrich (NHMB); Queensland: 1 ♂, 1 ♀, Undara, 22.I/13.II.2000, leg. S. Bilý (NMPC); 1 ♀, Cairns, VIII.1954, leg. J.G. Brooks (BMNH); 1 ex., 20 km NW Melany, Boolumba Creek, 150 m a.s.l., black light, 26.–29.III.1993, leg. C. Carlton (SEMC); 1 ♂, 30 km MW Mareeba, Lake Mitchell at Development Road, ca. 380 m a.s.l., 16°47.499'S 145°21.444'E, 12.IX.2006, leg. L. & E. Hendrich (CLH); 2 exs., Dalrymple, 300 m a.s.l., 30 km N Charters Towers, 18.I.1993, leg. G. Wewalka; 1 ex., Greenvale, 600 m a.s.l., 150 km NW Charters Towers, 19.I.1993, leg. G. Wewalka; 2 exs., 10 km S Tully, S Innisfail, 30 m a.s.l., 25.I.1993, leg. G. Wewalka (NMW).

DISTRIBUTION (Fig. 12): Northern Territory, Queensland, Western Australia; Papua New Guinea.

***Phalilus bistriatus* (WEHNCKE, 1880)**

PREVIOUSLY PUBLISHED RECORDS: WEHNCKE (1880): Adelaide; GUIGNOT (1935a): [New Caledonia] (misidentification, see *Phalilus oberthuri*); LAWRENCE et al. (1987): “S. Gulfs, NE coastal”, South Australia, Queensland, Cardstone and Adelaide; WATTS (1988): coastal Queensland from Brisbane to Cooktown; VONDEL (1995): Queensland and northern part of Western Australia; WATTS & HAMON (2015): “northern distribution”; ALA (2021): Queensland.

ADDITIONAL MATERIAL EXAMINED:

AUSTRALIA: Northern Territory: 54 exs., Kakadu N.P., Jim Jim Road, Barramundi Creek, 30 m a.s.l., 12°59.652'S 132°22.928'E, 30.X.1996, leg. L. Hendrich (CLH); Queensland: 1 ♀, Mackay, 33 km S Sarina, Bolingbroke Road at railway crossing, 220 m a.s.l., 21°38.378'S 149°8.183'E, 24.IX.2006, leg. L. & E. Hendrich (CLH); 1 ex., Hidden Valley, 900 m a.s.l., 80 km NW Townsville, 17.I.1993, leg. G. Wewalka (NMW). New South Wales: 1 ♀, 23 km SE Grafton, Pillar Valley Creek, ca. 20 m a.s.l., 29°45.364'S 153°7.352'E, 14.X.2006, leg. L. & E. Hendrich (CLH).

DISTRIBUTION (Fig. 13): New South Wales (first record), Northern Territory, Queensland, South Australia, Western Australia.

***Phalilus fortescueensis* (WATTS & MCRAE, 2010)**

PREVIOUSLY PUBLISHED RECORDS: WATTS & MCRAE (2010): Western Australia; VONDEL (2012): Western Australia (larva); WATTS & HAMON (2015): Western Australia; ALA (2021): Western Australia.

DISTRIBUTION (Fig. 14): Western Australia.

***Phalilus fuscatus* (CLARK, 1862)**

PREVIOUSLY PUBLISHED RECORDS: CLARK (1862): South Australia: Adelaide; LAWRENCE et al. (1987): Adelaide, South Australia; WATTS (1988): Victoria, South Australia and Rottnest Island, Western Australia; VONDEL (1995): Western Australia, South Australia, Victoria, Queensland, New South Wales?; WATTS & MCRAE (2010): Widespread in southern Australia including inland areas and Western Australia (Lake Way near Wiluna and beside Murchison River near Binnu); WATTS & HAMON (2015): southern Australia; ALA (2021): New South Wales, Queensland, Victoria, Western Australia, New South Wales, South Australia, Tasmania, Northern Territory.

ADDITIONAL MATERIAL EXAMINED:

AUSTRALIA: Western Australia: 1 ♂, Millie Soak, 10 km N Cue, ca. 425 m a.s.l., 27.29033°S 117.91034°E, 2.–3.II.2006, leg. M. Baehr; 1 ♀, Nallan Lake, 18 km N Cue, ca. 420 m a.s.l., 27.25809°S 117.98150°E, 3.III.2006, leg. M. Baehr; 2 ♂♂, 3 ♀♀, Albany Highway, Muir Lakes Nature Reserve, SW part of Byenup Lagoon, 4.–5.I.2000, leg. L. Hendrich (loc. 11/157) (CLH); South Australia: 1 ♂, Fleurieu Peninsula, 14 km E Weelunga [Willunga], Adam's Gully, 200 m a.s.l., 6.XII.1999, leg. L. Hendrich & C.H.S. Watts (loc. 5/143) (CLH).

TAXONOMY: No morphological characters are known to distinguish females of *P. fuscatus* and *P. gibbus*. Questionable specimens (females) were identified as *P. fuscatus/gibbus* – listed under *P. gibbus* (below).

DISTRIBUTION (Figs. 16, 18): New South Wales?, Northern Territory?, Queensland, South Australia, Tasmania?, Victoria, Western Australia.

***Phalilus gibbus* (CLARK, 1862)**

PREVIOUSLY PUBLISHED RECORDS: CLARK (1862): South Australia: Moreton Bay; LAWRENCE et al. (1987): “S. Gulfs, SE coastal, NE coastal”, Tasmania, South Australia, Victoria, Morton Bay, Adelaide and Campertown; WATTS (1988): the wetter areas of southern Western Australia, South Australia, Victoria and Tasmania, a southern species; VONDEL (1995): Western Australia, South Australia, Victoria, Tasmania, New South Wales?; WATTS & HAMON (2015): southern Australia; ALA (2021): no specific records, but some of the females of *P. fuscatus* might actually refer to *P. gibbus*.

ADDITIONAL MATERIAL EXAMINED:

AUSTRALIA: South Australia: 5 ♂♂, 3 ♀♀, Adelaide Hills, 5 km W Forrester, Mt. Crawford State Forest, Watts Gully, 200 m a.s.l., 22.II.1999, leg. L. Hendrich & C.H.S. Watts (CLH: 4 ♂♂, 3 ♀♀, NMW: 1 ♂); 2 ♂♂, 2 ♀♀, Fleurieu Peninsula, 14 km E Weelunga [Willunga], Adam's Gully, 200 m a.s.l., 6.XII.1999, leg. L. Hendrich & C. Watts (loc. 5/143) (CLH).

fuscatus/gibbus ♀:

AUSTRALIA: Tasmania: 1 ♀, Launceston (SDEI); Western Australia: 1 ♀, Watharoo, Midlands Road, 30°16'S 116°3'E, 8.IX.2002, leg. L. Hendrich; 1 ♀, Lan Pools Conservation Reserve, Nalyerin Lake, 300 m a.s.l., 29.–30.XII.1999, leg. L. Hendrich (CLH).

NOTE: VONDEL (2005) erroneously noted that the lectotype was designated by VONDEL (1995), but in fact, VONDEL (1995) correctly stated that WATTS (1988) had designated the lectotype.

DISTRIBUTION (Figs. 17–18): New South Wales?, Northern Territory?, Queensland?, South Australia, Tasmania, Victoria, Western Australia.

***Phalilus hydei* (VONDEL, 1995)**

PREVIOUSLY PUBLISHED RECORDS: VONDEL (1995): northeast Queensland; WATTS & HAMON (2015): northeast Queensland; ALA (2021): Queensland.

ADDITIONAL MATERIAL EXAMINED:

AUSTRALIA: Queensland: 1 ♂, Undara, 13.II.2000, leg. S. Bílý (NMPC).

DISTRIBUTION (Fig. 15): Queensland.

***Phalilus oberthuri* (GUIGNOT, 1935)**

PREVIOUSLY PUBLISHED RECORDS: FAUVEL (1883): New Caledonia, as *Haliphus bistriatus*; GUIGNOT (1935a): New Caledonia, as *Haliphus bistriatus*; GUIGNOT (1935b): New Caledonia; VONDEL (1995): New Caledonia, Queensland; HENDRICH & VONDEL (2010): Queensland, New South Wales, New Caledonia; WATTS & HAMON (2015): “A northern species”; BARGIER et al. (2018): New Caledonia; ALA (2021): Queensland, Northern Territory; VONDEL et al. (2021): New South Wales, Queensland, Northern Territory, New Caledonia.

DISTRIBUTION (Fig. 19): New South Wales, Northern Territory, Queensland; New Caledonia.

***Phalilus pinderi* (WATTS & MCRAE, 2010)**

PREVIOUSLY PUBLISHED RECORDS: WATTS & MCRAE (2010): Western Australia; VONDEL (2012): Western Australia (larva); WATTS & HAMON (2015): Western Australia; ALA (2021): Western Australia.

DISTRIBUTION (Fig. 20): Western Australia.

***Phalilus storeyi* (VONDEL, 1995)**

PREVIOUSLY PUBLISHED RECORDS: VONDEL (1995): Northern Territory, Humpty Doo; WATTS & HAMON (2015): “A northern species”; ALA (2021): Queensland.

NOTE: VONDEL (1995) erroneously mentioned the presence of a setiferous striole on the dorsal face of the metatibia, but in *Phalilus* there is in fact no such a setiferous striole (see VONDEL 2019).

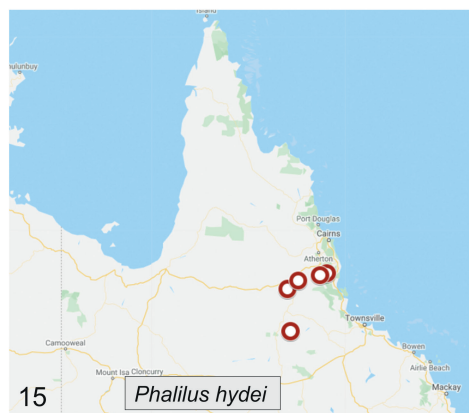
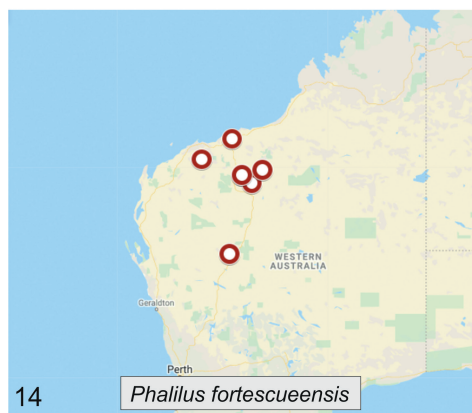
DISTRIBUTION (Fig. 21): Northern Territory, Queensland.



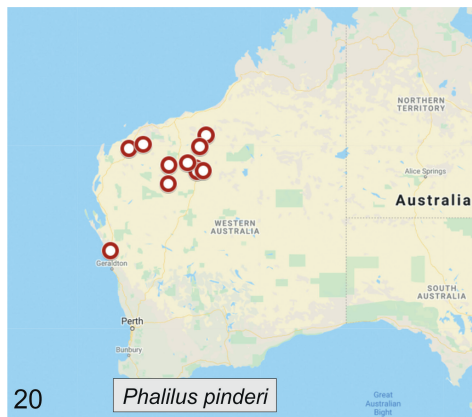
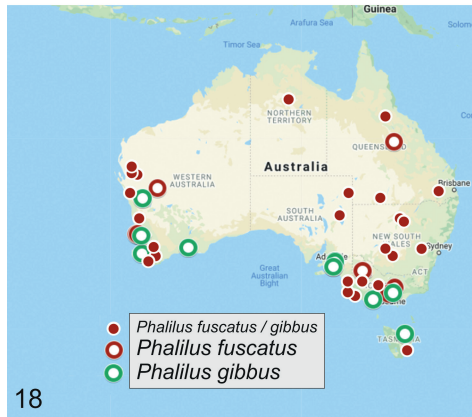
Figs. 1–3: Distribution of: 1) all Australasian species of Haliplidae, 2) *Haliplus (Australiplus) sindus*, 3) *Haliplus (Liaphlus) alastairi*.



Figs. 4–9: Distribution of: 4) *Haliplus* (*Liaphlus*) *australis*, 5) *H. (L.) ferruginipes*, 6) *H. (L.) halsei*, 7) *H. (L.) pilbaraensis*, 8) *H. (L.) signatipennis*, 9) *H. (L.) stepheni*.



Figs. 10–15: Distribution of: 10) *Haliplus* (L.) *testudo*, 11) *H.* (L.) *timmsi*, 12) *H.* (L.) *wattsi*, 13) *Phalilus bistratus*, 14) *P. fortescueensis*, 15) *P. hydei*.



Figs. 16–21: Distribution of: 16) *Phalilus fuscatus*, 17) *P. gibbus*, 18) *P. fuscatus/gibbus* complex: red circles: *P. fuscatus* males, green circles: *P. gibbus* males, smaller circles: *P. fuscatus* or *gibbus*, 19) *P. oberthuri*, 20) *P. pinderi*, 21) *P. storeyi*.

Tab. 2: List of species, localities and references. Specimens without detailed locality data (more specific than “Australia” or e.g., “South Australia”) are not included. Coordinates are in decimal degrees.

Abbreviations: Australia: QLD = Queensland, NSW = New South Wales, NT = Northern Territory, SA = South Australia, TAS = Tasmania, VIC = Victoria, WA = Western Australia. Indonesia: PAP = Papua, SER = Seram. NC = New Caledonia. PNG = Papua New Guinea.

Species	Area	Locality	Latitude	Longitude	References	Notes	
<i>Haliplus sindus</i>	NT	Adelaide River	13.25000S	131.10000E	ALA (2021)		
		Barramundie Creek	13.06670S	132.41670E	ALA (2021)		
	QLD	Kakadu N.P.	12.99420S	132.38213E	so far unpublished		
		Pine Creek	13.63310S	131.61310E	ALA (2021)		
		Bentinck Island	17.06727S	139.49760E	WATTS (1988)		
		Home Hill	19.66900S	147.41670E	WATTS (1988)		
<i>H. alastairi</i>		Mt. Molloy	16.70000S	145.33333E	ALA (2021)		
		Mt. Molloy	16.66690S	145.33310E	ALA (2021)		
	Townsville	19.48330S	146.81670E	ALA (2021)			
	NT	Cutta Cutta	14.51667S	132.41667E	so far unpublished		
		Holmes Jungle	12.39700S	130.92887E	so far unpublished		
		Horn Islet	15.73395S	136.81313E	VONDEL (1995)		
		Humpty Doo	12.57430S	131.15668E	VONDEL (1995)		
		Jabiru	12.73333S	132.83333E	ALA (2021)		
		Kakadu N.P.	12.99420S	132.38213E	so far unpublished		
		Katherine	14.46247S	132.26848E	WATTS (1988)		
		Maningrida	12.05557S	134.23123E	VONDEL (1995)		
		Mataranka	15.31667S	132.83333E	so far unpublished		
		Mudginbarry	12.60000S	132.86667E	WATTS (1988)		
		Newry	16.05137S	129.25995E	VONDEL (1995)		
		Roper Gulf	14.93310S	133.73310E	ALA (2021)		
		QLD	Bamaga	10.89192S	142.38694E	C.H.S. Watts, pers. comm.	
			Cairns	16.91827S	145.77010E	WATTS (1988)	
			Cairns	16.91690S	145.76690E	ALA (2021)	
Cardstone			17.83545S	145.70723E	WATTS (1988)		
Cooktown	15.47050S		145.24343E	WATTS (1988)			
Iron Range	12.68290S		143.33483E	VONDEL (1995)			
King River	14.50000S		143.33333E	WATTS (1988)			
Laura	15.59387S		144.16047E	VONDEL (1995)			
Lydia Creek	12.66667S		142.66670E	ALA (2021)			
Mt. Mulligan	16.84527S		144.87583E	VONDEL (1995)			
Townsville	19.17690S		146.56000E	ALA (2021)			
Tully	18.00000S		145.93333E	so far unpublished			
Weipa	12.64847S		141.84715E	VONDEL (1995)			
WA	Derby-West Kimberley		16.82750S	124.31940E	ALA (2021)		
	Kalumburu	14.41667S	126.63333E	VONDEL (1995)			
	Kununurra	15.59377S	128.76668E	VONDEL (1995)			
<i>H. australis</i>	NSW	Wooli	29.91889S	153.26694E	TIMMS & WATTS (1981)		
		SA	Barossa	34.70000S	138.96670E	ALA (2021)	
	VIC	Chain of Ponds	34.82273S	138.83152E	VONDEL (1995)		
		Forreston	34.68000S	138.90000E	ALA (2021)		
		Inglewood	34.80000S	138.81670E	ALA (2021)		
		Scott Creek	35.05788S	138.70159E	HENDRICH (2001)		
		Baywater	37.84000S	145.26000E	ALA (2021)		
		Cann River	37.56727S	149.15062E	VONDEL (1995)		
		Cheltenham	37.96518S	145.05762E	VONDEL (1995)		
		Clarkefield	37.48488S	144.80622E	VONDEL (1995)		
		Eildon	37.23363S	145.90847E	VONDEL (1995)		
		Flowerdale	37.31540S	145.32767E	VONDEL (1995)		
		Glenmaggie	37.91610S	146.74840E	VONDEL (1995)		
		Glen Valley	36.83377S	147.44003E	VONDEL (1995)		
		Jamieson	37.29663S	146.16280E	VONDEL (1995)		
		Lake Wendouree	37.54875S	143.84703E	VONDEL (1995)		
		Melbourne	37.86273S	144.93622E	VONDEL (1995)		
		Millgrove	37.75122S	145.65543E	VONDEL (1995)		
<i>H. ferruginipes</i>	NT	Humpty Doo	12.57340S	131.15565E	VONDEL (1995)		

	QLD	Cairns	16.91827S	145.77010E	WATTS (1988)	
		Home Hill	19.66063S	147.41373E	WATTS (1988)	
		Townsville	19.25780S	146.81752E	WATTS (1988)	
	PAP	Merauke	08.49752S	140.40468E	VONDEL (1995)	
	PNG	Rigo	9.78557S	147.83028E	VONDEL (1995)	
<i>H. halsei</i>	WA	Cane River	22.09556S	115.62083E	WATTS & McRAE (2010)	
		Chalyam Pool	21.75333S	116.03806E	WATTS & McRAE (2010)	
		Glenn Ross Creek	24.17889S	118.03000E	WATTS & McRAE (2010)	
		Gnalka Gnoona	24.15389S	118.47472E	WATTS & McRAE (2010), VONDEL (2012)	+ larvae
		Coondiner Pool	22.72389S	119.65639E	WATTS & McRAE (2010) VONDEL (2012)	+ larvae
		Harding River	21.33806S	117.06944E	WATTS & McRAE (2010)	
		Koondepinda	22.11833S	118.39639E	WATTS & McRAE (2010), VONDEL (2012)	+ larvae
		Kumina Creek	21.86250S	116.90889E	WATTS & McRAE (2010)	
		Millie Soak	27.29033S	117.91034E	so far unpublished	
		Millstream N.P.	21.58028S	117.10361E	WATTS & McRAE (2010)	
		Moojari Well	22.31667S	119.14944E	WATTS & McRAE (2010)	
		Moreton Pool	22.67639S	115.71611E	WATTS & McRAE (2010)	
		Mt. Amy Well	22.19472S	115.95500E	WATTS & McRAE (2010)	
		Munreemya Billabong	20.66972S	120.22556E	WATTS & McRAE (2010)	
		Myanore Creek	21.44167S	115.86278E	WATTS & McRAE (2010)	
		Paradise Pool	20.37639S	119.42250E	WATTS & McRAE (2010)	
		Wackilina Creek	22.38278S	117.61333E	WATTS & McRAE (2010)	
		West Peawah Creek	20.76389S	118.01306E	WATTS & McRAE (2010)	
<i>H. pilbaraensis</i>	NT	Litchfield	13.25000S	130.73333E	so far unpublished	
	WA	Bidgelang Pool	25.57427S	115.60166E	C.H.S. Watts, pers. comm.	
		Bonnie Pool	21.97806S	119.99083E	WATTS & McRAE (2010)	
		Cane River	22.09556S	115.62083E	WATTS & McRAE (2010)	
		Carawine Gorge	21.48250S	121.02778E	WATTS & McRAE (2010)	
		Coppin Gap	20.88333S	120.11861E	WATTS & McRAE (2010)	
		Eerala Station	21.31670S	117.03333E	C.H.S. Watts, pers. comm.	
		Eerala Station	21.20000S	117.01670E	C.H.S. Watts, pers. comm.	
		Eerala Station	21.19144S	117.04742E	WATTS & McRAE (2010)	
		Eerala Station	21.29652S	117.07778E	WATTS & McRAE (2010)	
		Gingin	31.35000S	115.91670E	C.H.S. Watts, pers. comm.	
		Glen Herring Pool	21.34222S	119.61389E	WATTS & McRAE (2010)	
		Glen Ross Creek	24.17889S	118.03000E	WATTS & McRAE (2010)	
		Gorge Junction, near Ashburton River	24.08333S	118.05472E	WATTS & McRAE (2010)	
		Gregory Gorge	21.56908S	117.05420E	WATTS & McRAE (2010)	
		Gregory Gorge	21.55000S	116.93333E	C.H.S. Watts, pers. comm.	
		Hardabut Pool	27.88514S	114.56919E	C.H.S. Watts, pers. comm.	
		Kalgan Pool	23.18806S	119.69917E	WATTS & McRAE (2010), VONDEL (2012)	+ larva
		Killagura Spring	23.73333S	122.41667E	WATTS & McRAE (2010)	
		Kumina Creek	21.86250S	116.90889E	WATTS & McRAE (2010)	
		Miningarra Creek	20.74861S	120.30667E	WATTS & McRAE (2010)	
		Mt. Florence	29.24421S	122.31748E	WATTS & McRAE (2010)	
		Mt. Florence	21.78330S	117.75000E	C.H.S. Watts, pers. comm.	
		Myanore Creek	21.44167S	115.86278E	WATTS & McRAE (2010)	
		Nyeetbury Spring	21.85806S	116.51583E	WATTS & McRAE (2010), VONDEL (2012)	+ larva
		Panorama Spring	21.20056S	119.31944E	WATTS & McRAE (2010)	
		Pelican Pool	21.33194S	120.37389E	WATTS & McRAE (2010)	
		Pilgangoora	21.05000S	118.86670E	C.H.S. Watts, pers. comm.	
		Pilgangoora Well	21.35887S	118.88465E	WATTS & McRAE (2010)	
		Tanguin Rockholes	21.19028S	121.08417E	WATTS & McRAE (2010), VONDEL (2012)	+ larva
<i>H. signatipennis</i>	PNG	Alexis Hafen	5.09143S	145.80379E	VONDEL (1995)	
		Rigo	9.78557S	147.83028E	VONDEL (1995)	

		Brahman Mission	5.73952S	145.36987E	VONDEL (1995)	
	SER	Wahai	2.81214S	129.52920E	VONDEL (1995)	
<i>H. stepheni</i>	NT	Holmes Jungle	12.41670S	130.93333E	ALA (2021)	
		Humpty Doo	12.62888S	131.35916E	WATTS (1988)	
		Jabiru	12.67000S	133.01670E	ALA (2021)	
		Kakadu N.P.	12.99420S	132.38213E	so far unpublished	
		Magela Creek	12.70000S	132.95000E	ALA (2021)	
		Pine Creek	13.61690S	132.01000E	ALA (2021)	
	QLD	Heathlands	11.71667S	142.43333E	VONDEL (1995)	
		Mt. Mulligan	16.84762S	144.87462E	VONDEL (1995)	
		Petford	17.40853S	144.85375E	VONDEL (1995)	
	WA	Kununurra	15.59730S	128.75447E	VONDEL (1995)	
<i>H. testudo</i>	NSW	Forbes	33.45000S	149.08330E	ALA (2021)	
		Grafton	29.75721S	153.12176E	so far unpublished	
		Hornsby	33.70422S	151.09985E	VONDEL (1995)	
		Krambach	31.98310S	152.26690E	ALA (2021)	
		Murwillumbah	28.33333S	153.40000E	ALA (2021)	
		Nelligen	35.65000S	149.91670E	ALA (2021)	
		Nelligen	35.65000S	150.08330E	VONDEL (2004), ALA (2021)	+ larva
		North Nowra	34.83972S	150.59182E	so far unpublished	
		Nowra	34.96927S	150.71742E	so far unpublished	
		Sydney	33.86628S	151.20440E	VONDEL (1995)	
		Tenterfield	28.92628S	152.30930E	so far unpublished	
		Wallagaraugh	37.36798S	149.71788E	so far unpublished	
	NT	Adelaide River	13.25000S	131.10000E	ALA (2021)	
		Borroloola	16.16667S	136.25000E	VONDEL (1995)	
		Daly River	13.91670S	130.93333E	ALA (2021)	
		Horn Islet	15.73377S	136.81302E	VONDEL (1995)	
		Jabiru	12.73333S	132.83333E	ALA (2021)	
		Jabiru	12.66690S	132.90000E	ALA (2021)	
		Magela Creek	12.70000S	132.95000E	ALA (2021)	
		Pine Creek	13.63310S	131.61310E	ALA (2021)	
	QLD	Ashgrove	27.44437S	152.99202E	VONDEL (1995)	
		Biggenden	25.50915S	152.04265E	VONDEL (1995)	
		Brisbane	27.46690S	153.03310E	ALA (2021)	
		Brisbane	27.48643S	153.05152E	VONDEL (1995)	
		Brisbane	27.27383S	153.00113E	VONDEL (1995)	
		Bundaberg	24.86563S	152.34882E	VONDEL (1995)	
		Bunya	27.34554S	152.94819E	ALA (2021)	
		Caloundra	26.79837S	153.13330E	VONDEL (1995)	
		Cape York	10.74795S	142.54107E	VONDEL (1995)	
		Cardwell	18.35000S	146.01670E	ALA (2021)	
		Collins	17.25798S	145.29358E	VONDEL (1995)	
		Gayndah	25.63310S	151.60000E	ALA (2021)	
		Gin Gin	24.99215S	151.95030E	VONDEL (1995)	
		Greenvale	19.43310S	144.65000E	ALA (2021)	
		Highvale	27.37880S	152.81277E	VONDEL (1995)	
		Ipswich	27.61670S	152.78330E	ALA (2021)	
		Laura	15.64337S	144.50978E	VONDEL (1995)	
		Mareeba	16.82593S	145.45350E	so far unpublished	
		Moreton Bay	27.36167S	153.16253E	VONDEL (1995)	
		Mt. Molloy	16.70000S	145.33333E	ALA (2021)	
		Mt. Molloy	16.66690S	145.33310E	ALA (2021)	
		Mt. Mulligan	16.84350S	144.87707E	VONDEL (1995)	
		Petford	17.40390S	144.84580E	VONDEL (1995)	
		Petrie	27.26670S	152.88330E	ALA (2021)	
		Ripley	27.70000S	152.81670E	ALA (2021)	
		Tolga	17.17168S	145.51955E	VONDEL (1995)	
		Townsville	19.18310S	146.73333E	ALA (2021)	
		Townsville	19.63310S	146.81670E	ALA (2021)	
		Townsville	19.48330S	146.81670E	ALA (2021)	
		Townsville	19.48330S	146.81670E	ALA (2021)	
		Townsville	19.18310S	146.73333E	ALA (2021)	
	VIC	Genoa	37.46977S	149.59045E	so far unpublished	
		Jamieson	37.29932S	146.13705E	VONDEL (1995)	

		Melbourne	37.87620S	144.95573E	VONDEL (1995)	
		Millgrove	37.75122S	145.65343E	VONDEL (1995)	
		Moorabool	37.62597S	144.16185E	VONDEL (1995)	
		Murray-Darling	37.00000S	145.00000E	KEFFORD et al. (2006)	
		Wilson's Promontory Marine Park	38.93333S	146.36670E	ALA (2021)	
<i>H. timmsi</i>	NT	Kakadu N.P.	12.99420S	132.38213E	so far unpublished	
		Katherine	14.51667S	132.41667E	so far unpublished	
		Katherine	14.45195S	132.26807E	VONDEL (1995)	
		Mataranka	15.31667S	132.83333E	so far unpublished	
		Newry	16.03727S	129.25378E	VONDEL (1995)	
		Pine Creek	13.63310S	131.61310E	ALA (2021)	
	QLD	Cairns	16.92177S	145.76765E	so far unpublished	
		Edge Hill	16.90052S	145.73838E	VONDEL (1995)	
		Greenvale	18.99436S	144.97813E	VONDEL (2004)	larva
		Greenvale	19.43310S	144.65000E	ALA (2021)	
		Greenvale	18.96690S	144.93333E	ALA (2021)	
		Lake Buchanan	21.60000S	145.86670E	VONDEL (1995)	
		Laura	15.60278S	144.16237E	VONDEL (1995)	
		Normanton	17.65610S	141.26568E	so far unpublished	
		Petford	17.34477S	144.93005E	VONDEL (1995)	
		Pinnarendi	18.02890S	144.87633E	VONDEL (1995)	
		Tolga	17.17260S	145.51058E	VONDEL (1995)	
		Townsville	19.48333S	146.81670E	ALA (2021)	
		Townsville	19.63310S	146.81670E	ALA (2021)	
		Townsville	19.18310S	146.73333E	ALA (2021)	
		Undara	18.26507S	144.55312E	so far unpublished	
<i>H. watti</i>	NT	Adelaide River	13.23900S	131.10650E	so far unpublished	
		Cahills Crossing	12.43333S	132.96667E	VONDEL (1995)	
		Cutta Cutta	14.51667S	132.41667E	so far unpublished	
		Darwin	12.45073S	130.84258E	VONDEL (1995)	
		Humpty Doo	12.57693S	131.16008E	VONDEL (1995)	
		Jabiru	12.67000S	133.01670E	ALA (2021)	
		Kakadu N.P.	12.84420S	132.38213E	so far unpublished	
		Kakadu N.P.	12.76533S	132.75517E	so far unpublished	
		Katherine	14.45180S	132.27148E	VONDEL (1995)	
		Litchfield	13.25000S	130.73333E	so far unpublished	
		Mataranka	15.31667S	132.83333E	so far unpublished	
		Newry	16.03310S	129.26610E	ALA (2021)	
	QLD	Bluewater	19.17690S	146.56000E	ALA (2021)	
		Bundaberg	24.86385S	152.34892E	VONDEL (1995)	
		Cairns	16.91182S	145.77683E	so far unpublished	
		Cairns	16.91690S	145.76690E	ALA (2021)	
		Cardstone	17.83458S	145.70753E	VONDEL (1995)	
		Charleville	26.39632S	146.24475E	VONDEL (1995)	
		Coen	13.92152S	143.19755E	VONDEL (1995)	
		Cooktown	14.78997S	145.00942E	VONDEL (1995)	
		Cooktown	16.85135S	145.39787E	VONDEL (1995)	
		Daintree	16.23082S	145.45533E	VONDEL (1995)	
		Dalrymple	19.86667S	146.16667E	so far unpublished	
		Greenvale	19.43310S	144.65000E	ALA (2021)	
		Greenvale	19.00000S	145.01667E	so far unpublished	
		Home Hill	19.64247S	147.39612E	VONDEL (1995)	
		Homestead	20.35578S	145.65468E	VONDEL (1995)	
		Iron Range	12.68542S	143.33417E	VONDEL (1995)	
		Koombaloo	17.81812S	145.55873E	VONDEL (1995)	
		Laura	15.62160S	144.15992E	VONDEL (1995)	
		Lowood	27.36102S	152.51500E	VONDEL (1995)	
		Mareeba	16.79165S	145.35740E	so far unpublished	
		Mareeba	17.17992S	145.45212E	VONDEL (1995)	
		Mareeba	17.04180S	145.42877E	VONDEL (1995)	
		Melany	26.61957S	152.72520E	so far unpublished	
		Mt. Molloy	16.86670S	145.33333E	ALA (2021)	
		Mt. Molloy	16.70000S	145.33333E	ALA (2021)	
		Mt. Tamborine	27.94110S	153.19375E	VONDEL (1995)	

		Port Douglas	16.48335S	145.46543E	VONDEL (1995)	
		Tolga	17.22155S	145.47845E	VONDEL (1995)	
		Tolga	17.17572S	145.51503E	VONDEL (1995)	
		Townsville	19.20000S	146.68000E	ALA (2021)	
		Tully	18.00000S	145.93333E	so far unpublished	
		Undara	18.26513S	144.55308E	so far unpublished	
		Watsonville	17.38333S	145.31670E	ALA (2021)	
	WA	Derby-West Kimberley	16.82750S	124.31940E	ALA (2021)	
		Kununurra	15.59847S	128.76425E	VONDEL (1995)	
		Pilbara	21.55000S	117.05000E	HENDRICH (2002, 2003)	
	PNG	Loloki	9.30087S	147.17905E	VONDEL (1995)	
<i>Phalilus bistriatus</i>	NSW	Grafton	29.75721S	153.12176E	so far unpublished	
	NT	Kakadu N.P.	12.99420S	132.38213E	so far unpublished	
	QLD	Brisbane	27.44723S	153.03338E	VONDEL (1995)	
		Brisbane	27.46690S	153.03310E	ALA (2021)	
		Bundaberg	24.86670S	152.35000E	ALA (2021)	
		Cairns	16.91690S	145.76690E	ALA (2021)	
		Caloundra	26.79885S	153.13297E	VONDEL (1995)	
		Cook	12.95000S	142.75000E	ALA (2021)	
		Fraser Island	25.25000S	153.16670E	ALA (2021)	
		Hidden Valley	18.96667S	146.13333E	so far unpublished	
		Lake Buchanan	21.60000S	145.86670E	ALA (2021)	
		Mareeba	16.99038S	145.62575E	VONDEL (1995)	
		Mt. Molloy	16.70000S	145.33333E	ALA (2021)	
		Mt. Molloy	16.66690S	145.33310E	ALA (2021)	
		Mt. Mulligan	16.84917S	144.87535E	VONDEL (1995)	
		Petford	17.35000S	144.75000E	ALA (2021)	
		Petrie	27.26670S	152.88330E	ALA (2021)	
		Sarina	21.63963S	144.13638E	so far unpublished	
	SA	Adelaide	34.92850S	138.60075E	WEHNCKE (1880)	
	WA	Kakumburu	14.41667S	126.63333E	VONDEL (1995)	
<i>P. fortescueensis</i>	WA	Cooliarin Pool	20.50556S	118.62222E	WATTS & McRAE (2010)	
		Coondiner Pool	22.72389S	119.65639E	WATTS & McRAE (2010)	
		Fortescue	22.31667S	119.14944E	WATTS & McRAE (2010), VONDEL (2012)	+ larva
		Gnalka Gnoona	26.15389S	118.47472E	WATTS & McRAE (2010)	
		Gregory Gorge	21.54972S	116.97083E	WATTS & McRAE (2010)	
		Jacksons Bore	22.08472S	120.23361E	WATTS & McRAE (2010)	
		Moojari Well	22.31667S	119.14944E	WATTS & McRAE (2010)	
<i>P. fuscatus</i>	QLD	Lake Galilee	22.33032S	145.81435E	VONDEL (1995)	♂
	SA	Willunga	35.25151S	138.66008E	so far unpublished	♂
	VIC	Eildon Weir	37.23363S	145.90847E	VONDEL (1995)	♂
		Ringwood	37.80985S	145.23085E	VONDEL (1995)	♂
		Wyperfeld N.P.	35.58333S	142.08333E	VONDEL (1995)	♂
	WA	Millie Soak	27.29033S	117.91034E	so far unpublished	♂
		Rottneest Island	32.00475S	115.50898E	VONDEL (1995)	♂
		Rottneest Island	31.99948S	115.53325E	VONDEL (1995)	♂
<i>P. fuscatus/gibbus</i>	NSW	Barren Box	34.15595S	145.83553E	VONDEL (1995)	♀
		Bogan River	30.88330S	147.06670E	ALA (2021)	sex ?
		Bogan River	30.53792S	146.86723E	VONDEL (1995)	♀
		Forbes	33.45000S	149.08330E	ALA (2021)	sex ?
		Willanora Bridge	33.26667S	144.56667E	VONDEL (1995)	♀
	NT	Elliott	17.65000S	133.43333E	ALA (2021)	sex ?
	QLD	Dalby	27.18330S	151.25000E	ALA (2021)	sex ?
		Werewilka Creek	28.38330S	144.36670E	ALA (2021)	sex ?
	SA	Houghton	34.83310S	138.76670E	ALA (2021)	sex ?
		Inglewood	34.80000S	138.81670E	ALA (2021)	sex ?
		Innamincka	27.75000S	140.73330E	ALA (2021)	sex ?
		Jip Jip	36.48330S	140.18330E	ALA (2021)	sex ?
		Kersbrook Creek	34.80000S	138.83333E	ALA (2021)	sex ?
		Mt. Crawford	34.70000S	138.96670E	ALA (2021)	sex ?

		Myponga	35.38330S	138.46670E	ALA (2021)	sex ?
		Nangwarry	37.56670S	140.81670E	ALA (2021)	sex ?
		Para Wirra	34.69095S	138.82567E	VONDEL (1995)	♀
		Yudnamutana	30.20000S	139.43330E	ALA (2021)	sex ?
	TAS	Hobart	42.88310S	147.31690E	ALA (2021)	sex ?
		Launceston	41.43322S	147.14408E	so far unpublished	♀
		Launceston	41.43310S	147.13310E	ALA (2021)	sex ?
	VIC	Birchip	35.98592S	142.90967E	VONDEL (1995)	♀
		Carrum	38.07580S	145.12192E	VONDEL (1995)	♀
		Casterton	37.60000S	141.11670E	ALA (2021)	sex ?
		Clarkefield	37.48512S	144.80652E	VONDEL (1995)	♀
		Dartmoor	37.88330S	141.30000E	ALA (2021)	sex ?
		Dimboola	36.45000S	142.03333E	VONDEL (1995)	♀
		Eltham	37.71397S	145.14880E	VONDEL (1995)	♀
		Greenvale	19.43310S	144.65000E	ALA (2021)	sex ?
		Moorabool	37.61423S	144.19075E	VONDEL (1995)	♀
		Trentham	37.38205S	144.31637E	VONDEL (1995)	♀
	WA	Beverley	32.11610S	116.93310E	ALA (2021)	sex ?
		Binnu	27.81670S	114.66670E	ALA (2021)	sex ?
		Boothawalla Pool	25.79067S	115.29194E	ALA (2021)	sex ?
		Bullock Pool	27.81653S	114.77669E	ALA (2021)	sex ?
		Ellen Brook	31.78330S	116.00000E	ALA (2021)	sex ?
		Kendenu	34.45000S	117.56690E	ALA (2021)	sex ?
		Lake Poorginup	34.55000S	116.73330E	ALA (2021)	sex ?
		Mundilya Pool	25.66373S	114.84972E	ALA (2021)	sex ?
		Nallan Lake	27.25809S	117.98150E	so far unpublished	♀
		Pinjarra	32.68330S	115.86690E	ALA (2021)	sex ?
		Wagin	33.33333S	117.33333E	ALA (2021)	sex ?
		Watheroo	30.26667S	116.05000E	so far unpublished	♀
		Winnemia Pool	25.00761S	114.94915E	ALA (2021)	sex ?
		Woodanilling	33.51670S	117.28330E	ALA (2021)	sex ?
<i>P. gibbus</i>	SA	Forreston	34.73224S	138.88614E	so far unpublished	♂
		Williamstown	34.66947S	138.88810E	VONDEL (1995)	♂
		Williamstown	34.67008S	138.88765E	VONDEL (1995)	♂
		Willunga	35.25151S	138.66008E	so far unpublished	♂
	TAS	Launceston	41.43322S	147.14408E	VONDEL (1995)	♂
	VIC	Camperdown	38.33962S	143.38785E	VONDEL (1995)	♂
		Warburton	37.74928S	145.69483E	VONDEL (1995)	♂
	WA	Armadale	32.14682S	116.01257E	VONDEL (1995)	♂
		Bridgetown	33.95760S	116.13765E	VONDEL (1995)	♂
		Picton Junction	33.35213S	121.59098E	VONDEL (1995)	♂
		Wurarga	28.41720S	116.21083E	VONDEL (1995)	♂
<i>P. hydei</i>	QLD	Cardstone	17.83283S	145.70815E	VONDEL (1995)	
		Greenvale	19.43310S	144.65000E	ALA (2021)	
		Pinnarenda	18.03840S	144.86893E	VONDEL (1995)	
		Ravenshoe	17.90000S	145.50000E	VONDEL (1995)	
		Undara	18.26510S	144.55313E	so far unpublished	
<i>P. oberthuri</i>	QLD	Brisbane	27.46380S	153.03123E	VONDEL (1995)	
		Bundaberg	25.12556S	152.50750E	HENDRICH & VONDEL (2010)	
		Cardwell	18.35000S	146.01670E	ALA (2021)	
		Yungaburra	17.27143S	145.58305E	VONDEL (1995), HENDRICH & VONDEL (2010)	
	NSW	Taree	31.73033S	152.57933E	HENDRICH & VONDEL (2010)	
	NT	Barramundie Creek	13.06670S	132.41670E	ALA (2021)	
		Jabiru	12.67000S	133.01670E	ALA (2021)	
	NC	Nouméa	22.30027S	166.42660E	VONDEL (1995), HENDRICH & VONDEL (2010)	
		Prony	22.33772S	166.90483E	VONDEL et al. (2021)	
		Prony	22.32091S	166.90647E	VONDEL et al. (2021)	

		Prony	22.31239S	166.89486E	VONDEL et al. (2021)	
<i>P. pinderi</i>	WA	Binnu	27.80910S	114.47575E	WATTS & McRAE (2010)	
		Bobswim Pool	23.05750S	118.09139E	WATTS & McRAE (2010)	
		Bonnie Pool	21.97806S	119.99083E	WATTS & McRAE (2010), VONDEL (2012)	+ larva
		Cane River	22.09543S	115.62086E	WATTS & McRAE (2010)	
		East Pilbara	22.91630S	119.20610E	ALA (2021)	
		Gorge Junction	24.08333S	118.05472E	WATTS & McRAE (2010)	
		Innawally Pool	23.36361S	120.19139E	WATTS & McRAE (2010)	
		Kalgan	23.18797S	119.69920E	WATTS & McRAE (2010)	
		Newman	23.39283S	119.79213E	WATTS & McRAE (2010)	
		Nyeetbury Spring	21.85806S	116.51583E	WATTS & McRAE (2010)	
		Pelican Pool	21.34141S	120.35307E	WATTS & McRAE (2010)	
<i>P. storeyi</i>	NT	Humpty Doo	12.57310S	131.15580E	VONDEL (1995)	
	QLD	Greenvale	19.43310S	144.65000E	ALA (2021)	

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