

Identification and Ecology of

Australian Freshwater Invertebrates

An interactive guide with colour digital imagery to assist in the identification of aquatic invertebrates.



If you have information to add, please contact bugsonline@mdfrc.org.au
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New					Date of change	Old		
Major Group	Order	Family	Genus	Species		Family	Genus	Species
Collembola	Symphyleona	Sminthuridae	<i>Pygicornides</i>	<i>stagnalis</i>	1994	Sminthuridae	<i>Sminthurides</i>	<i>stagnalis</i>
Collembola	Symphyleona	Sminthuridae	<i>Sminthurides</i>	<i>stagnalis</i>	1980	Sminthuridae (within)	<i>Sminthurides</i>	<i>stagnalis</i>
Collembola	Symphyleona	Sminthuridae	<i>Sminthurides</i>	<i>aquaticus</i>	1980	Sminthuridae (within)	<i>Sminthurides</i>	<i>aquaticus</i>
Crustacea	Amphipoda	Hyalidae			2003	Ceinidae		
Crustacea	Decapoda	Kakaducaridae				Palaemonidae (within)		
Crustacea	Decapoda	Palaemonidae	<i>Calathaemon</i>	<i>holthuisi</i>	1993		<i>Palaemontes holthuisi</i>	Strength
Crustacea	Decapoda	Parathelphusidae	<i>Austrothelphusa</i>		2002	Sundathelphusidae	<i>Holthuisana</i>	
Crustacea	Isopoda	Amphisopidae	<i>Amphisopus</i>	<i>lintoni</i>	1926	Amphisopidae	<i>Phreatoicus</i>	<i>lintoni</i>
Crustacea	Isopoda	Amphisopidae	<i>Paramphisopus</i>	<i>fairbridgei</i>	1944	Amphisopidae	<i>Paramphisopus</i>	<i>palustris fairbridgei</i>
Crustacea	Isopoda	Amphisopidae	<i>Synamphisopus</i>	<i>ambiguus</i>	1943	Amphisopidae	<i>Amphisopus</i>	<i>ambiguus</i>
Crustacea	Isopoda	Amphisopidae	<i>Eophreatoicus</i>	<i>kershawi</i>	2005	Mesamphisopidae	<i>Eophreatoicus</i>	<i>kershawi</i>
Crustacea	Isopoda	Amphisopidae	<i>Eophreatoicus</i>	sp 4	2005	Mesamphisopidae	<i>Eophreatoicus</i>	sp 4
Crustacea	Isopoda	Amphisopidae	<i>Eophreatoicus</i>	sp 6	2005	Mesamphisopidae	<i>Eophreatoicus</i>	sp 6
Crustacea	Isopoda	Amphisopidae	<i>Eremisopus</i>	<i>beeii</i>	2005	Mesamphisopidae	<i>Eremisopus</i>	<i>beeii</i>
Crustacea	Isopoda	Corallanidae	<i>Tachaea</i>	<i>caridophaga</i>	2002	Cirolanidae (within)	<i>Austroargathona</i>	<i>picta</i>
Crustacea	Isopoda	Phreatoicidae	<i>Colubotelson</i>	<i>dubius</i>		Phreatoicidae	<i>Colubotelson</i>	<i>tattersalli dubius</i>
Crustacea	Isopoda	Phreatoicidae	<i>Colubotelson</i>	<i>minor</i>		Phreatoicidae	<i>Colubotelson</i>	<i>chiltoni minor</i>
Crustacea	Isopoda	Phreatoicidae	<i>Colubotelson</i>	<i>saycei</i>		Phreatoicidae	<i>Colubotelson</i>	<i>chiltoni saycei</i>
Crustacea	Isopoda	Phreatoicidae	<i>Colubotelson</i>	<i>searleii</i>		Phreatoicidae	<i>Colubotelson</i>	<i>joyneri searleii</i>
Crustacea	Isopoda	Phreatoicidae	<i>Metaphreatoicus</i>	<i>australis</i>		Phreatoicidae	<i>Phreatoicus</i>	<i>australis</i>
Crustacea	Isopoda	Phreatoicidae	<i>Metaphreatoicus</i>	<i>lacustris</i>		Phreatoicidae	<i>Metaphreatoicus</i>	<i>australis lacustris</i>
Crustacea	Isopoda	Phreatoicidae	<i>Onchotelson</i>	<i>brevicaudatus</i>		Phreatoicidae	<i>Phreatoicus</i>	<i>brevicaudatus</i>
Crustacea	Isopoda	Scyphacidae	<i>Haloniscus</i>		2001	Oniscidae (within)	<i>Haloniscus</i>	
Gastropoda	Basommatophora	Glacidorbidae	<i>Benthodorbis</i>	<i>pawpela</i>	2000	Glacidorbidae	<i>Glacidorbis</i>	<i>pawpela</i>
Gastropoda	Basommatophora	Glacidorbidae	<i>Striadorbis</i>	<i>pedderi</i>	2000	Glacidorbidae	<i>Glacidorbis</i>	<i>pedderi</i>
Gastropoda	Cyclononeritomorpha				2008	previously Order Neritomorpha		
Gastropoda	Cerithimorpha	Thiaridae			2008	previously in Order Neotaenioglossa		
Gastropoda	Hygrophila	Ancylidae			2008	previously in Order Basommatophora		
Gastropoda	Hygrophila	Lymnaeidae			2008	previously in Order Basommatophora		
Gastropoda	Hygrophila	Physidae			2008	previously in Order Basommatophora		
Gastropoda	Hygrophila	Planorbidae			2008	previously in Order Basommatophora		
Gastropoda	Hypsogastropoda	Assimineidae			2008	previously in Order Neotaenioglossa		
Gastropoda	Hypsogastropoda	Bithyniidae			2008	previously in Order Neotaenioglossa		
Gastropoda	Hypsogastropoda	Hydrobiidae			2008	previously in Order Neotaenioglossa		
Gastropoda	Hypsogastropoda	Pomatiopsidae			2008	previously in Order Neotaenioglossa		
Hirudinea	Arhynchobdellida	Hirudinidae			2001	Richardsonianidae		
Insecta	Coleoptera	Carabidae	<i>Ophionea</i>	4 species	2005	Carabidae	<i>Casnoidea</i>	4 species
Insecta	Coleoptera	Dytiscidae	<i>Limbodessus</i> (now includes)	13 species	2006	Dytiscidae	<i>Tjirtudessus</i>	13 species
Insecta	Coleoptera	Dytiscidae	<i>Limbodessus</i> (now includes)	2 species	2006	Dytiscidae	<i>Boongurrus</i>	2 species
Insecta	Coleoptera	Dytiscidae	<i>Limbodessus</i> (now includes)	6 species	2006	Dytiscidae	<i>Liodessus</i>	6 species
Insecta	Coleoptera	Dytiscidae	<i>Limbodessus</i> = <i>Tjirtudessus</i>		2003	Dytiscidae	<i>Nirridessus</i>	11 species
Insecta	Coleoptera	Elmidae				Helminthidae		
Insecta	Coleoptera	Georissidae	<i>Georissus</i>			Hydrophilidae (within)		
Insecta	Coleoptera	Hydrochidae	<i>Hydrochus</i>			Hydrophilidae (within)	<i>Hydrochus</i>	

		New			Date of change	Old		
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Insecta	Coleoptera	Hydrophilidae	<i>Anacaena</i>	8 species	2007	Hydrophilidae	<i>Paracaena</i>	7 species
Insecta	Coleoptera	Nanophyidae	<i>Austronanodes</i>		1994	Brentidae	<i>Nanophyes</i>	
Insecta	Coleoptera	Noteridae	<i>Hydrocanthus</i>	<i>micans</i> group	2006	Noteridae	<i>Hydrocanthus</i>	<i>waterhousei</i>
Insecta	Coleoptera	Spercheidae	<i>Spercheus</i>			Hydrophilidae (within)	<i>Spercheus</i>	
Insecta	Coleoptera	Sphaeriidae	<i>Sphaerius</i>		2000	Microsporidae=Sphaerii	<i>Microsporus</i>	2 species
Insecta	Diptera	Athericidae	<i>Dasyomma</i>		1973	Rhagionidae (within)	<i>Dasyomma</i>	
Insecta	Diptera	Athericidae	<i>Suraginella</i>		1973	Rhagionidae (within)	<i>Suraginella</i>	
Insecta	Diptera	Corethrellidae	<i>Corethrella</i>	3 species	1994	Chaoboridae (within)	<i>Corethrella</i>	3 species
Insecta	Diptera	Dixidae	<i>Dixella</i>	4 species	1999	Dixidae	<i>Dixa</i>	4 species
Insecta	Diptera	Dixidae	<i>Nothodixa</i>	2 species	1999	Dixidae	<i>Dixa</i>	2 species
Insecta	Diptera	previous misidentification - does not occur in Australia			1991	Ceratopogonidae	<i>Ceratopogon</i>	
Insecta	Diptera	Psychodidae	<i>Rotundopteryx</i>	15 species	1995-1999	Psychodidae	<i>Pericoma</i>	15 species
Insecta	Diptera	Simuliidae	<i>Paracnephia</i>		1999	Simuliidae	<i>Cnephia</i>	9 species
Insecta	Ephemeroptera	Caenidae	<i>Irpacaenis</i>		1999	Caenidae	voucher code	
Insecta	Ephemeroptera	Teloganodidae	<i>Austremarella</i>	<i>picta</i>	1997	Ephemerellidae	<i>Ephemerellina</i>	<i>picta</i>
Insecta	Hemiptera	Corixidae	<i>Cnethocymatia</i>			Corixidae	<i>Cymatia</i>	
Insecta	Lepidoptera	Crambidae				Pyralidae		
Insecta	Megaloptera	Corydalidae	<i>Protochauliodes</i>		1983	Corydalidae	<i>Austrochauliodes</i>	
Insecta	Odonata	Archipetaliidae	<i>Archipetalia</i>	<i>auriculata</i>	1999	Neopetaliidae	<i>Archipetalia</i>	<i>auriculata</i>
Insecta	Odonata	Austrocorduliidae	<i>Apocordulia</i>	<i>macrops</i>	1999	Corduliidae	<i>Apocordulia</i>	<i>macrops</i>
Insecta	Odonata	Austrocorduliidae	<i>Austrocordulia</i>		1999	Corduliidae	<i>Austrocordulia</i>	
Insecta	Odonata	Austrocorduliidae	<i>Austrophya</i>	<i>mystica</i>	1999	Corduliidae	<i>Austrophya</i>	<i>mystica</i>
Insecta	Odonata	Austrocorduliidae	<i>Lathrocordulia</i>		1999	Corduliidae	<i>Lathrocordulia</i>	
Insecta	Odonata	Austrocorduliidae	<i>Micromidia</i>		1999	Corduliidae	<i>Micromidia</i>	
Insecta	Odonata	<i>Austropetaliidae</i>	<i>Austropetalia</i>		1999	Neopetaliidae	<i>Austropetalia</i>	
Insecta	Odonata	Chorismagrionidae	<i>Chorismagrion</i>	<i>risi</i>	1999	Synlestidae	<i>Chorismagrion</i>	<i>risi</i>
Insecta	Odonata	Cordulephya	<i>Cordulephya</i>		1999	Corduliidae	<i>Cordulephya</i>	
Insecta	Odonata	Diphlebiidae	<i>Diphlebia</i>		1999	Amphipterygidae	<i>Diphlebia</i>	
Insecta	Odonata	Gomphomacromiidae	<i>Archaeophya</i>		1999	Corduliidae	<i>Archaeophya</i>	
Insecta	Odonata	Hemicorduliidae	<i>Hemicordulia</i>		1999	Corduliidae	<i>Hemicordulia</i>	
Insecta	Odonata	Hemicorduliidae	<i>Procordulia</i>		1999	Corduliidae	<i>Procordulia</i>	
Insecta	Odonata	Hypolestidae	<i>Lestoidea</i>		1999	Lestoideidae	<i>Lestoidea</i>	
Insecta	Odonata	Libellaginidae	<i>Rhinocypha</i>	<i>tincta</i>	1999	Chlorocyphidae	<i>Rhinocypha</i>	<i>tincta</i>
Insecta	Odonata	Lindenidae	<i>Ictinogomphus</i>		1999	Gomphidae	<i>Ictinogomphus</i>	
Insecta	Odonata	Macromiidae	<i>Macromia</i>		1999	Corduliidae	<i>Macromia</i>	
Insecta	Odonata	Megapodagrionidae	<i>Argiolestes</i>			Megapodagrionidae	<i>Argiolestes</i>	
Insecta	Odonata	Oxygastridae	<i>Hesperocordulia</i>	<i>berthoudi</i>	1999	Corduliidae	<i>Hesperocordulia</i>	<i>berthoudi</i>
Insecta	Odonata	Pseudocorduliidae	<i>Pseudocordulia</i>		1999	Corduliidae	<i>Pseudocordulia</i>	
Insecta	Odonata	Synthemistidae	<i>Archaeosynthemis</i>		1999	Corduliidae	<i>Archaeosynthemis</i>	
Insecta	Odonata	Synthemistidae	<i>Austrosynthemis</i>	<i>cyanitincta</i>	1999	Corduliidae	<i>Austrosynthemis</i>	<i>cyanitincta</i>
Insecta	Odonata	Synthemistidae	<i>Choristhemis</i>		1999	Corduliidae	<i>Choristhemis</i>	
Insecta	Odonata	Synthemistidae	<i>Eusynthemis</i>		1999	Corduliidae	<i>Eusynthemis</i>	
Insecta	Odonata	Synthemistidae	<i>Parasynthemis</i>	<i>regina</i>	1999	Corduliidae	<i>Parasynthemis</i>	<i>regina</i>
Insecta	Odonata	Synthemistidae	<i>Synthemiosis</i>	<i>gomphomacromioides</i>	1999	Corduliidae	<i>Synthemiosis</i>	<i>gomphomacromioides</i>
Insecta	Odonata	Synthemistidae	<i>Synthemis</i>		1999	Corduliidae	<i>Synthemis</i>	
Insecta	Odonata	Synthemistidae	<i>Tonyosynthemis</i>		1999	Corduliidae	<i>Tonyosynthemis</i>	
Insecta	Odonata	Telephlebiidae	<i>Acanthaeschna</i>	<i>victoria</i>	1999	Aeshnidae	<i>Acanthaeschna</i>	<i>victoria</i>
Insecta	Odonata	Telephlebiidae	<i>Antipodophlebia</i>	<i>asthenes</i>	1999	Aeshnidae	<i>Antipodophlebia</i>	<i>asthenes</i>
Insecta	Odonata	Telephlebiidae	<i>Austroaeschna</i>		1999	Aeshnidae	<i>Austroaeschna</i>	
Insecta	Odonata	Telephlebiidae	<i>Austrophlebia</i>		1999	Aeshnidae	<i>Austrophlebia</i>	
Insecta	Odonata	Telephlebiidae	<i>Dendroaeschna</i>	<i>conspersa</i>	1999	Aeshnidae	<i>Dendroaeschna</i>	<i>conspersa</i>
Insecta	Odonata	Telephlebiidae	<i>Notoaeschna</i>		1999	Aeshnidae	<i>Notoaeschna</i>	
Insecta	Odonata	Telephlebiidae	<i>Spinaeschna</i>		1999	Aeshnidae	<i>Spinaeschna</i>	
Insecta	Odonata	Telephlebiidae	<i>Telephlebia</i>		1999	Aeshnidae	<i>Telephlebia</i>	
Insecta	Odonata	Urothemistidae	<i>Aethriamanta</i>		1999	Libellulidae	<i>Aethriamanta</i>	

Major Group	Order	New			Date of change	Old		
		Family	Genus	Species	Family	Genus	Species	
Insecta	Odonata	Urothemistidae	<i>Macrodiplax</i>		1999	Libellulidae	<i>Macrodiplax</i>	
Insecta	Odonata	Urothemistidae	<i>Urothemis</i>		1999	Libellulidae	<i>Urothemis</i>	
Insecta	Odonata: Epiproctophora				1999	Odonata: Anisoptera		

Unplaced taxa

Crustacea	Isopoda	unplaced (cf Amphisopidae)	<i>Crenisopsus</i>	<i>acinifer</i>	1999			
Crustacea	Isopoda	unplaced (cf Hypsimepodidae)	<i>Peludo</i>	<i>paralictus</i>	2002			
Crustacea	Isopoda Enigmata (cf Phreatoicoidea)	no family	<i>Tainisopus</i>	<i>fontinalis</i>	1992			
Crustacea	Isopoda Enigmata (cf Phreatoicoidea)	no family	<i>Tainisopus</i>	<i>napierensis</i>	1992			