

Taxonomic & Attribute Updates & References

LATEST UPDATES

November 2017

- Taxonomy of the (Order) Araneae, (Class) Chilopoda, (Order) Coleoptera, (Order) Diplopoda, (Class) Entognatha, (Class) Gastropoda, (Order) Hymenoptera, (Order) Lepidoptera, (Phylum) Onychophora and (Order) Pseudoscorpiones were updated on advice from Kevin Bonham. Biogeographic origin and other information updated/added where available.

June 2017

- The Giant Tree data was entered and attributed as “giant tree” under the field observation type and placed in the project called Giant Trees (gtree)
- The Type locations for vascular plants have been attributed as “type location” under the field observation type and placed under the project called Herbarium Type Locality Data (herbtype).

October 2016

- The Liverwort and hornwort taxonomy has been completely updated including biogeographic origin attribution in accordance with the ABRS Checklist of Australian Liverworts and Hornworts, and the Atlas of Living Australia.
- Species protected under the Wildlife General Regulations of the *Nature Conservation Act (2002)* have been updated to comply with the published schedules.

August 2016

- Updates of taxonomic changes for Vascular plants as per Buchanan, A. M. (2016) A Census of the Vascular Plants of Tasmania, Web edition now completed for all species.

May 2016

- The bryophyte taxonomy has been updated in accordance with AUSMOSS <http://data.rbq.vic.gov.au/cat/mosscatalogue/search>.
- Taxonomic updates have been completed for Orthoptera and the common names and endemicy status have also been updated for this taxonomic group.
- The endemicy status for Odonata has been updated.

June 2015

- Species protected under the Wildlife General Regulations of the *Nature Conservation Act (2002)* are now attributed.

May 2015

- Updates of taxonomic changes for Vascular plants as per Buchanan, A. M. (2015) A Census of the Vascular Plants of Tasmania, Web edition now completed for all species.

April 2015

- Updates to the Tasmania multipedes completed as per <http://www.polydesmida.info/tasmanianmultipedes>

May 2014

- Updates of taxonomic changes for Vascular plants as per Buchanan, A. M. (2014) A Census of the Vascular Plants of Tasmania, Web edition now completed for all species.

September 2013

- Updates of taxonomic changes for Vascular plants as per Buchanan, A. M. (2013) A Census of the Vascular Plants of Tasmania, Web edition now completed for all species.

May 2013

- Updates to marine macro algae to bring NVA taxonomy into alignment with Sanderson, J. C. & Balmer, J. (2000) A Census of the Marine Benthic Flora of Tasmania and the Australian Marine Algal Name Index, DEWR Completed. Included in update was attribution of bio-geographic origin for this group of species (eg endemic etc).

April 2013

- Inclusion of marine fish names into NVA taxonomy data completed.

February 2013

- Updates in NVA of species recently added to the EPBCA Act completed

November 2012

- Updates of taxonomic changes for Vascular plants as per Buchanan, A. M. (2012) A Census of the Vascular Plants of Tasmania, Web edition now completed for all threatened species.
- Updates to marine macro algae commenced to bring NVA taxonomy into alignment with Sanderson, J. C. & Balmer, J. (2000) A Census of the Marine Benthic Flora of Tasmania and the Australian Marine Algal Name Index, DEWR
- Further updates to and of inclusion of fungi names to allow for entry of fungimap data.

October 2012

- Updated the attribute for invasive fauna in accordance with advice from the Invasive Species Branch.

August 2012

- Updates of taxonomic changes for Vascular plants as per Buchanan, A. M. (2012) A Census of the Vascular Plants of Tasmania, Web edition. Completed for all common species. Updated to threatened species are pending the gazettal of name changes.

May 2012

- Updates to the Freshwater Crayfish genus' Parastacoides have been completed, There are now two new genera described, *Spinastacoides*, and *Ombrastacoides*,

November 2011

- Uncommon species assessment completed and data input completed for Uncommon Species and for Native Watch List Species.

October 2011

- **The following gazetted changes to threatened species have been updated in the NVA**

(* = EPBC Act listed species)

Threatened status changes

Brachyscome aff. *radicans* -**delisted** (was rare)

Brachyscome sieberi var. *gunnii* -**delisted** (was rare)

Deyeuxia benthamiana -**delisted** (was rare)

Hydrocotyle laxiflora -uplisted from vulnerable to **endangered**

Isoetopsis graminifolia -downlisted from endangered to **vulnerable**

Scaevola albida -uplisted from rare to **vulnerable**

* *Senecio georgianus* -listed as **extinct**

* *Senecio psilocarpus* -listed as **endangered**

Hypolimnus pedderensis* -uplisted from endangered to **extinct

Name changes

Liparophyllum exaltatum -**new name** for *Villarsia exaltata*

Poranthera petalifera* -new name** for *Oreoporanthera petalifera*

Prasophyllum* sp. Arthurs Lake -new name** for *Prasophyllum* aff. *Montanum*

Veronica ciliolata* subsp. *fiordensis* -new name** for *Chionohebe ciliolata*

Wurmbea latifolia subsp. *vanessae* -**new name** for *Wurmbea latifolia*

Sternula albifrons sinensis-**name change** from *Sterna albifrons sinensis*

* *Sternula nereis nereis*-**name change** from *Sterna nereis nereis*

* *Zearaja maugeana* -**name change** from *Raja* sp. L

September 2011

- Updates of taxonomic changes for Lizards complete
- Cetacean taxonomy reviewed and updated
- Albatross taxonomy reviewed and updated

June 2011

- Updates of taxonomic changes for Vascular plants as per Buchanan, A. M. (2011) A Census of the Vascular Plants of Tasmania, Web edition. Completed.

May 2011

- Complete list of all know *Entoloma* species on advice from David Ratkowsky and Genevieve Gates now included.

April 2011

- Updates to fauna listed on the Tasmanian Threatened Species protection Act 1995 completed
- Updated declared weed list
- Introduced fauna attributers updated in accordance with the Introduced Animals of Tasmania and the TWWHA paper by Mike Driessen.

July 2010

- Updates to terrestrial gastropods (snails) completed

May 2010

- Taxonomy for lichen genera *Lecanora*, *Haematomma* and *Ramboldia* updated

November 2009

- Updates to Vascular Plant Taxonomy as per Buchanan, A. M. (2009) A Census of the Vascular Plants of Tasmania, Web edition, completed.

October 2009

- Weeds of significance data (Native Watch List) input completed

July 2009

- Updates of taxonomic changes for vascular plants as per Buchanan, A. M. (2008) A Census of the Vascular Plants of Tasmania, Web edition, completed.
- Weeds of significance data (Native Watch List) input commenced.

June 2009

- Snail Taxonomy updates completed
- Updates of taxonomic changes for Vascular plants as per Buchanan, A. M. (2008) A Census of the Vascular Plants of Tasmania, Web edition, commenced.
- Data for Primitive attribute loaded and completed.
- Data from Lawrence *et al* (2008). the Reservation Status of Tasmanian Native Higher Plants. DPIW. Now loaded into the reservation status attribute field.
- Attributing Macquarie Island species for Bio-geographic origin and distribution completed.

- Updates to fungi taxonomy for Basidiomycota and Ascomycota completed

August 2008

- Mammal, bird and freshwater fish taxonomy updates completed
- Updates to vertebrate fauna endemism codes completed
- Updates to fungi taxonomy for Basidiomycota and Ascomycota continuing.

May 2008

- Updates to fungi taxonomy for Basidiomycota and Ascomycota continuing.
- Update to Sphagnaceae (sphagnum moss) completed.

April 2008

- Updates to fungi taxonomy for Basidiomycota and Ascomycota commenced
- Bat, Amphibian, Terrestrial Reptile and Marine and Freshwater Reptiles taxonomy updates completed.

PLANTS

Vascular plant taxonomy follows:

Buchanan, A. M. (ed). 2007. **A census of the vascular plants of Tasmania and Index to The Student's Flora of Tasmania**. Tasmanian Herbarium Occasional Publication No. 7. Tasmanian Museum and Art Gallery, Hobart.

Australian Biological Resources Study. 1998. **Flora of Australia Volume 48. Ferns, Gymnosperms and Allied Groups**. Melbourne. ABRS and CSIRO Publishing, Australia.

Australian National Herbarium, Centre for Plant Biodiversity Research. **A classification of the ferns and their allies - a work in progress**. Last updated October 1999.
<http://www.anbg.gov.au/fern/taxa/classification.html>

Bryophyte taxonomy follows:

McCarthy, P.M. 2006. **Checklist of Australian Liverworts and Hornworts**. Australian Biological Resources Study, Canberra. Version 6 April 2006.
http://www.anbg.gov.au/abrs/liverwortlist/liverworts_intro.html

Crandall-Stotler B. and Stotler R. E. 2000. Chapter 2.7 **Classification of the Marchantiophyta in: Bryophyte Biology**. A.J. Shaw and B. Goffinet (eds). Cambridge UP.

Streimann, H. and Klazenga, N. 2002. **Catalogue of Australian Mosses. Flora of Australia Supplementary Series** Number 17. ABRS, Canberra.

Dalton, P.J; Seppelt, R.D; Buchanan, A.M. 1991. An annotated checklist of Tasmanian mosses. In: **Aspects of Tasmanian Botany - a tribute to Winifred Curtis**. M. R. Banks et. al. (eds). Royal Society of Tasmania, Hobart, 15-32.

Ratkowsky, D. A. 1987. **Check-list of the Tasmanian liverworts**. Papers and Proceedings of the Royal Society of Tasmania 121: 153-158.

Seppelt, R. D. (2000). The Sphagnopsida (Sphagnaceae; Ambuchananiaceae) in Australia. **Hikobia** 13: 163-183.

AUSMOSS (2015) <http://data.rbg.vic.gov.au/cat/mosscatalogue/search>

Lichen taxonomy follows:

McCarthy, P.M. 2006. **Checklist of the Lichens of Australia and its Island Territories**. Australian Biological Resources Study, Canberra. Version 6 April 2006
<http://www.anbg.gov.au/abrs/lichenlist/introduction.html>

Australian Biological Resources Study. 2004. **Flora of Australia Volume 56A, Lichens 4**. Canberra & Melbourne: ABRS and CSIRO Publishing, Australia.

Australian Biological Resources Study. 2001. **Flora of Australia Volume 58A, Lichens 3**. Canberra & Melbourne: ABRS and CSIRO Publishing, Australia.

Australian Biological Resources Study. 1994. **Flora of Australia Volume 55, Lichens - Lecanorales 2, Parmeliaceae**. Australian Government Publishing Service, Canberra.

Australian Biological Resources Study. 1992. **Flora of Australia Volume 54, Lichens - Introduction, Lecanorales 1**. Australian Government Publishing Service, Canberra.

Kantavilas, G; Elix, J.A; and Jarman, S.J. 2002. **Tasmanian Lichens: Identification, Distribution and Conservation Status**. I. Parmeliaceae. Flora of Australia Sippelimentary Series No. 15. Australian Biological Resources Study, Canberra.

Fungi taxonomy follows:

May, T.W., Milne, J., Wood, A.E., Shingles, S., Jones, R.H. & Neish, P. 2004. **Interactive Catalogue of Australian Fungi**. Version 2.0. Australian Biological Resources Study, Canberra / Royal Botanic Gardens, Melbourne. <http://www.rbh.vic.gov.au/fungi/cat/>

CABI Biosciences databases. **Index Fungorum**. <http://www.speciesfungorum.org/Index.htm>

Algae taxonomy follows:

Womersley, H B S. 2003. **The Marine Benthic Flora of Southern Australia. Part IIID. Flora of Australia Supplementary Series** Number 18. ABRS, Canberra.

Sanderson, J. C. & Balmer, J. (2000) **A Census of the Marine Benthic Flora of Tasmania**. Instituted for Marine and Antarctic Studies. University of Tasmania.

Australian **Marine Algal Name Index**. Last update 27 January 2000.
<http://dseweb.murdoch.edu.au/wise/>

Womersley, H B S. 1998. **The Marine Benthic Flora of Southern Australia. Part IIIC**. State Herbarium of South Australia.

Womersley, H B S. 1984. **The Marine Benthic Flora of Southern Australia. Part I**. Flora and Fauna Handbooks Committee, Adelaide.

ANIMALS

Albatross and Petrel taxonomy follows: CMS Scientific Council (2010). **Taxonomy of Albatrosses and larger Petrels**. Convention on the Conservation of Migratory Species of Wild Animals, 16th Meeting of the CMS Scientific Council.

Amphibian taxonomy follows:

Littlejohn, M. (2003). **Frogs of Tasmania 2nd Edition. Fauna of Tasmania Handbook No. 6**, University of Tasmania, Hobart.

Bird taxonomy (except Albatrosses & Petrels) now follows:

The ABR Australian Faunal Directory <http://www.environment.gov.au/biodiversity/abrs/online-resources/fauna/afd>.

NOT

Christidis, L and Boles, W. E. (2008). **Systematics and Taxonomy of Australian Birds**. CSIRO Publishing. Note: only species names are recognised for birds on the NVA. Subspecies are in a state of flux and there is no single reference that recognises Australian bird subspecies. The only subspecies recognised on the NVA are those that are listed as threatened on the schedules of the Threatened Species Protection Act 1995: wedge-tailed eagle, brown thornbill (King Island), green rosella (King Island) and scrubtit (King Island)

Though there will be some crossover during the process of updating the taxonomy.

Cetacean (whales, dolphins & porpoises) taxonomy follows:

Jefferson, T.A., Webber, M.A. & Pitman, R.(2008). **Marine Mammals of the World: A Comprehensive Guide to Their Identification**. Elsevier Inc.

Dragonfly taxonomy follows:

Theischinger, G and Hawking, J. (2006). **The complete field guide to dragonflies of Australia**. CSIRO Publishing, Collingwood.

Freshwater Fish taxonomy follows:

Yearsley, G.K, Last, P.R. and Hoese, D.F. (2006). **Standard Names of Australian Fishes**. CSIRO Marine and Atmospheric Research Paper 009.

Freshwater Crayfish taxonomy follows:

- **For Parastacoides:-** Hansen, B. Richardson, A.M.M. 2006. A revision of the Tasmanian endemic freshwater crayfish genus *Parastacoides* (Crustacea: Decapoda: Parastacidae). *Invertebrate Systematics* **20**
- **For Cyproididae** Karanovic, I., Eberhard, S.& Perina, G. (2012). *Austromesocypris bluffensis* sp. n. (Crustacea, Ostracoda, Cypridoidea, Scottiinae) from subterranean aquatic habitats in Tasmania, with a key to world species of the subfamily..**ZooKeys** @@: @-@. Doi: 10.3897/zookeys.@@.2987

Mammal taxonomy follows:

Van Dyck, S and Strahan, R. (2008) **The Mammals of Australia 3rd Ed**. Reed Holland.

Marine fish taxonomy follows:

The Atlas of Living Australia with cross reference to CAAB (Codes for Australian Aquatic Biota) list from CSIRO (Marine Research).

Marine and freshwater reptile taxonomy follows:

Cogger, H.G. (2001). **The Reptiles and Amphibians of Australia 6th Edition**. Reed New Holland, Sydney.

Snail taxonomy follows:-

Bonham, K.J. (2003) **Biogeography of Tasmanian Native Land Snails**. PhD Thesis University of Tasmania

Smith, B.J., Reid S and Ponder W (2002) **Superorder Pulmonata in Australian Biological Resources Study (2008) Australian Faunal Directory at <http://www.environment.gov.au/biodiversity/abrs/online-resources/fauna/afd/taxa/PULMONATA>**

Seal taxonomy follows:

Jefferson, T.A., Webber, M.A. & Pitman, R. (2008). **Marine Mammals of the World: A Comprehensive Guide to Their Identification**. Elsevier Inc.

Terrestrial reptile taxonomy follows:

Wilson, S. & Swan, G. (2010). **A Complete Guide to Reptiles of Australia 3rd Ed.** New Holland Publishers, Sydney.