

# FLORA OF AUSTRALIA

[Home \(/opus/foa\)](#) / 
 [ROSANAE](#) / 
 [MYRTALES](#) / 
 [MYRTACEAE](#) ([/OPUS/FOA/PROFILE/MYRTACEAE](#)) / 
 [ASTARTEA](#) ([/OPUS/FOA/PROFILE/ASTARTEA](#))

## *Astartea* DC.

[Q ALA \(https://bie.ala.org.au/species/https://id.biodiversity.org.au/taxon/apni/51289591\)](https://bie.ala.org.au/species/https://id.biodiversity.org.au/taxon/apni/51289591)
[Q NSL \[legitimate\] \(https://biodiversity.org.au/nsl/services/apni-format/display/106202\)](https://biodiversity.org.au/nsl/services/apni-format/display/106202)

Options

— Candolle, A.P. de in Candolle, A.P. de (ed.) (1828), Myrtaceae. *Prodromus Systematis Naturalis Regni Vegetabilis* 3: 210

PROFILE ()

DISTRIBUTION ()

GALLERY ()

LITERATURE & LINKS ()

KEY ()



Top

### Nomenclature

Candolle, A.P. de in Candolle, A.P. de (ed.) (1828), Myrtaceae. *Prodromus Systematis Naturalis Regni Vegetabilis* 3: 210 ()

### Etymology

After the goddess Astarte, for whom the myrtles were sacred.

### Description

Dwarf shrubs to small trees, glabrous. Leaves opposite or rarely ternate, often densely clustered at nodes; petiole often poorly defined; blade narrowly obovate to long-linear in outline, about as thick as wide, entire, concolorous. Peduncles usually solitary and 1-flowered, rarely with 2–4 flowers per axil, often borne at sufficient consecutive nodes to show a progression from flower buds in the uppermost nodes to fruits in the lowest ones. Pedicels usually shorter than the peduncles. Flowers actinomorphic in most taxa but somewhat zygomorphic where the ovary is functionally 1-locular and the style off-set. Hypanthium obconic to cup-shaped or broadly so, adnate to ovary for most of its length. Sepals 5, much shorter than the petals, sometimes horned. Petals 5, widely spreading in flower, deciduous in fruit, broadly obovate to circular, 0.4–6 mm long, white to deep pink; antipetalous colleters often present, minute. Staminodes absent or up to 10, at the margins of stamen fascicles or opposite petals, longer than the stamens. Stamens inflexed in bud, 3–60, when very few then antisealous and all or mostly widely spaced, when more numerous then all or mostly in antisealous fascicles and rarely also with one opposite some or all of the petals, much shorter than the petals, those closest to petals longest. Anthers  $\pm$  basifixed; thecae free,  $\pm$  parallel, longitudinally

dehiscent; connective gland free, dorsal-subterminal. Ovary inferior, 1–3-locular; ovary summit dotted with oil glands, usually green at first and becoming deep red; placentas axile, almost sessile; ovules 1–23 per loculus. Style with its base inset into a cylindrical cavity in the ovary summit; stigma often peltate. Fruits either dehiscent, c. ½ inferior and many-seeded or indehiscent, ± inferior and few-seeded. Seeds irregularly ovoid to reniform, 0.6–1.3 mm long, thin-walled or moderately thick-walled smooth in most species, shallowly reticulate-pitted or colliculate in a few species; inner surface usually with a large, low protrusion in the distal part (above the hilum) that may function as an elaiosome.

## Diagnostic Features

Stamens 3–60, when very few then antisepalous and all or mostly widely spaced, when more numerous then in antisepalous fascicles and rarely also with one opposite some petals, much shorter than the petals. Anthers ± basifixed; thecae free, ± parallel, longitudinally dehiscent; connective gland free, dorsal-subterminal. Seeds 0.6–1.3 mm long, thin-walled or moderately thick-walled, usually with a large, low protrusion distally.

## Chromosome Numbers

$n = 11$  is presumed to be characteristic of the genus as in its close relative *Hypocalymma* (Endl.) Endl., but only one species has been scored: *A. muricata*, which is tetraploid with  $n = 22$ .

## Biostatus



Native.



## Distribution



A genus of c. 24 species restricted to the far southwest of Western Australia.



Top

## Habitat

Occurring in damp habitats associated with depressions, watercourses and rock formations including granite outcrops.

## Ecology

*Astartea* is specialised for damp habitats and has small seeds. It is a host for *Callococcus* (Hemiptera), which produces large, white, shell-like scales on the stems. Many species reproduce after fires from a lignotuber. Open insect-pollination is highly successful for seed set, with most species flowering during summer when few other plants are in flower. One species with exceptionally small flowers is apparently specialised to attract the smallest of insect pollinators. Myrmecochorous dispersal of seeds is common but a few species have indehiscent fruits.

## Nomenclature and Typification

*Astartea* DC., *Prodromus Systematis Naturalis Regni Vegetabilis* 3: 210 (1828); *Baeckea* sect. *Astartea* (DC.) Nied. in A. Engler & K. Prantl, *Die Natürlichen Pflanzenfamilien* III, 7: 99 (1893). Type: *Astartea fascicularis* (Labill.) DC.

## Taxonomic Notes

*Astartea* is closely related to *Cyathostemon* Turcz. and *Hypocalymma* (Endl.) Endl. Most species have a 2- or 3-valvate capsule with the style base central and deeply inset, but a few species have a functionally 1-locular, indehiscent fruit with the style base off-centre and only slightly inset. The hypanthium is often somewhat 5-ribbed.

## Illustrations

J.J.H. de Labillardiere, *Novae Hollandiae Plantarum Specimen* 2(17): t. 170 (1806), as *Melaleuca fascicularis*, <https://www.biodiversitylibrary.org/page/40882118> (<https://www.biodiversitylibrary.org/page/40882118>); B.L. Rye in N.G. Marchant *et al.*, *Flora of the Perth Region* 1: 381, fig. 140 (1987); B.L. Rye, *Nuytsia* 23: 193, fig. 1, <https://www.biodiversitylibrary.org/page/60008803> (<https://www.biodiversitylibrary.org/page/60008803>); 194, fig. 2, <https://www.biodiversitylibrary.org/page/60008804> (<https://www.biodiversitylibrary.org/page/60008804>); 195, fig. 3, <https://www.biodiversitylibrary.org/page/60008805> (<https://www.biodiversitylibrary.org/page/60008805>); 199, fig. 4 (2013), <https://www.biodiversitylibrary.org/page/60008809> (<https://www.biodiversitylibrary.org/page/60008809>).



## Excluded or Uncertain Names

*Astartea fascicularis* var. *brachyphylla* Domin, *Věstník Královské české společnosti nauk. Třída matematicko-přírodovědecká* 2: 83–84 (1923). Type: sand plains about Warrungup [Mt Trio, Stirling Range], W.A., A.A. Dorrien-Smith; holo: K?, *n.v.*

*Leptospermum dubium* Spreng., *Systema Vegetabilium* Edn. 17, 2: 492 (1825). Type: "Nov. Holl."; holo: B *n.v.*, destroyed in WWII.

*Astartea* sp. Lake Muir (B.L. Rye 230128 & R.W. Hearn), *A.* sp. Porongurup (G.J. Keighery 12320) and *A.* sp. southern ranges (T.E.H. Aplin 2108) remain informally recognised in Western Australia (Western Australian Herbarium 1998–). Additional research is required to resolve their taxonomic status.

## Bibliography

Blackall, W.E. & Grieve, B.J. (1980). *How to know Western Australian wildflowers Part 3A*. Restructured and revised second edition by B.J. Grieve. (University of Western Australia Press: Nedlands, Western Australia). <https://www.biodiversitylibrary.org/page/60448011> (<https://www.biodiversitylibrary.org/page/60448011>)

Bentham, G. (1867). Myrtaceae, in *Flora Australiensis: a description of the plants of the Australian territory* 3: 1–289. (Reeve and Co.: London). <https://www.biodiversitylibrary.org/page/11160188> (<https://www.biodiversitylibrary.org/page/11160188>)

Candolle, A.P. de (<https://id.biodiversity.org.au/instance/apni/536231>) (1828). *Prodromus Systematis Naturalis Regni Vegetabilis* 3 (<https://id.biodiversity.org.au/instance/apni/536231>): 207–296. <https://www.biodiversitylibrary.org/page/56090871> (<https://www.biodiversitylibrary.org/page/56090871>)

Domin, K. (1923). New additions to the flora of Western Australia. *Věstník Královské české společnosti nauk. Třída mathematicko-přírodovědecká* 1921–1922. 2: 1–125. <https://www.biodiversitylibrary.org/page/42559238> (<https://www.biodiversitylibrary.org/page/42559238>)

Endlicher, S.F.L. (1837). Myrtaceae, in Endlicher, S.L. Bentham, G., Fenzl, E & Schott, H.W., *Enumeratio plantarum quas in Novae Hollandiae ora austro-occidentali ad Fluvium Cygnorum et in Sinu Regis Georgii collegit Carolus liber baro de Hugel*, pp. 46–51. (Vindobonae: apud Fr. Beck Universitatis Bibliopolam).

Labillardiere, J.J.H. de (1806). *Novae Hollandiae plantarum specimen* Vol. 2. (Dominae Huzard: Paris). <https://www.biodiversitylibrary.org/page/40882028> (<https://www.biodiversitylibrary.org/page/40882028>)

Lam, N., Wilson, P.G., Heslewood, M.M. & Quinn, C.J. (2002). A phylogenetic analysis of the Chamelaucium alliance (Myrtaceae). *Australian Systematic Botany* 15(4): 535–543. <https://doi.org/10.1071/SB01039> (<https://doi.org/10.1071/SB01039>)

Nielsen, F. (1893). Myrtaceae, in Engler, A. & Prantl, K. (eds), *Die natürlichen pflanzenfamilien* 3: 57–105. (Engelmann: Leipzig). [bibdigital.rjb.csic.es/idviewer/10948/65](https://bibdigital.rjb.csic.es/idviewer/10948/65) (<https://dpaw.sharepoint.com/teams/PlantScienceandHerbarium/Shared%20Documents/Research/SP2013-052%20Taxonomy%20Myrtaceae/bibdigital.rjb.csic.es/idviewer/10948/65>)

Rye, B.L. (1979). Chromosome number variation in the Myrtaceae and its taxonomic implications. *Australian Journal of Botany* 27(5): 547–573. <https://doi.org/10.1071/BT9790547> (<https://doi.org/10.1071/BT9790547>)

Rye, B.L. (1987). Myrtaceae (excluding *Eucalyptus*), in Marchant, N.G., Wheeler, J.R., Rye, B.L., Bennett, E.M., Lander, N.S. & Macfarlane, T.D. (eds), *Flora of the Perth Region* 1: 377–429. (Western Australian Herbarium, Department of Agriculture: Perth, Western Australia).

Rye, B.L. (2006). New combinations and lectotypifications for the south-western Australian genus *Astartea* (Myrtaceae). *Nuytsia* 16(1): 149–156. <https://www.biodiversitylibrary.org/page/61647903> (<https://www.biodiversitylibrary.org/page/61647903>)

Rye, B.L. (2009). An interim key to the Western Australian tribes and genera of Myrtaceae. *Nuytsia* 19(2): 313–323. <https://www.biodiversitylibrary.org/page/62002065> (<https://www.biodiversitylibrary.org/page/62002065>)

Rye, B.L. (2013). A revision of the south-western Australian genus *Astartea* (Myrtaceae: Chamelaucieae). *Nuytsia* 23: 189–269. <https://www.biodiversitylibrary.org/page/60008799> (<https://www.biodiversitylibrary.org/page/60008799>)

Rye, B.L. (2015). *Astartea pulchella* (Myrtaceae: Chamelaucieae), a new combination for *Baeckea pulchella* and reduction of *A. laricifolia* to synonymy. *Nuytsia* 25: 145–147. <https://www.biodiversitylibrary.org/page/60020870> (<https://www.biodiversitylibrary.org/page/60020870>)

Rye, B.L., Wilson, P.G., Heslewood, M.M., Perkins, A.J. & Thiele, K.R. (2020). A new subtribal classification of Myrtaceae tribe Chamelaucieae. *Australian Systematic Botany* 33: 191–206. <https://doi.org/10.1071/SB19009> (<https://doi.org/10.1071/SB19009>)

Schauer, J.C. (1843). Genera Myrtacearum nova vel denuo recognita. *Linnaea: Ein Journal für die Botanik in ihrem ganzen Umfange* 17: 235–244. <https://www.biodiversitylibrary.org/page/107028> (<https://www.biodiversitylibrary.org/page/107028>)

Schauer, J.C. (1844). Myrtaceae, in Lehmann, J.G.C. (ed.), *Plantae preissianae sive enumeratio plantarum quas in australasia occidentali et meridionali-occidentali annis 1838–1841 collegit Ludovicus Preiss* (<https://www.biodiversitylibrary.org/item/9228>) 1(1): 96–158. (Meissneri: Hamburg). <https://www.biodiversitylibrary.org/page/498269> (<https://www.biodiversitylibrary.org/page/498269>)

Turczaninow, N.S. (1852). Myrtaceae Xerocarpicae in Nova Hollandia a cl. Drummond lectae et plerumque in collectione ejus quinta distributae, determinatae et descriptae. *Bulletin de la Classe physico-mathématique de l'Académie impériale des sciences de Saint-Pétersbourg* 10: 321–346. <https://www.biodiversitylibrary.org/page/45980661> (<https://www.biodiversitylibrary.org/page/45980661>)

Western Australian Herbarium (1998–). *FloraBase—the Western Australian Flora*. Department of Biodiversity, Conservation and Attractions. <https://florabase.dpaw.wa.gov.au/> [accessed 24 June 2022].

Wheeler, J.R. (2002). Myrtaceae, in Wheeler, J.R. (ed.), *Flora of the South West* 2: 682–723. (Australian Biological Resources Study: Canberra).

Wilson, P.G., Heslewood, M., Lam, N. & Quinn, C. (2004). Progress towards a phylogeny of the *Chamelaucium* alliance (Myrtaceae). *Australian Biologist* 17: 28–33.




## Source

Published 21 December 2022.



## Taxonomy



- ↑ • Kingdom: Plantae  ()
- Top • Phylum: Charophyta
- Class: Equisetopsida
- Subclass: Magnoliidae
- Superorder: Rosanae  ()
- Order: Myrtales  ()
- Family: Myrtaceae (/opus/foa/profile/Myrtaceae)  ()
- Genus: Astartea (/opus/foa/profile/Astartea)  ()



()

Australian Plant Image Index

*Astartea glomerulosa* by Thiele, K.R., 20/11/2011 (© Thiele, K.R.)

[View all images \(\)](#)

© Copyright Commonwealth of Australia, 2023  
(/opus/foa/about##copyright)

Last updated: Charlotte Ely, Mar 15, 2022 12:35 Status:  
Partial

Author - B.L. Rye

Editor - J.A. Wege

Contributor - P.G. Kodela provided editorial assistance (December 2022)

Contributor - C.J. Ely provided technical support

Cite this profile as: B.L. Rye. *Astartea*, in J.A. Wege (ed.), *Flora of Australia*. Australian Biological Resources Study, Department of Climate Change, the Environment and Water: Canberra.

<https://profiles.ala.org.au/opus/foa/profile/Astartea> [Date Accessed: 27 February 2023]

(<http://www.environment.gov.au>) (<http://www.environment.gov.au/science/abrs>) (<https://www.ala.org.au>)



Top



# CHAH

Council of Heads of  
Australasian Herbaria



[ala.org.au](https://www.ala.org.au)

✉ [abrs@awe.gov.au](mailto:abrs@awe.gov.au) (mailto:abrs@awe.gov.au)

ISSN 2207-7820

All material CC-BY  
unless otherwise stated.

Other collections (/)



Top