

Nomenclatural Notes Arising from Studies in the Tribe Diurideae (Orchidaceae): *Calonemorchis*

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David L. Jones & Mark A. Clements
Centre for Plant Biodiversity Research,
Australian National Herbarium,
G.P.O. Box 1600, Canberra, A.C.T., 2601

Abstract

Calonemorchis D.L.Szlachetko is acknowledged as a substitute name for *Calonema* (Lindl.) D.L.Szlachetko, which is a later homonym of *Calonema* Morgan. A complete list of species of *Calonemorchis* is provided, including synonyms and new combinations. A revised artificial key to the genera in the Caladeniinae is also included.

Introduction

Recently *Caladenia* R.Br. has been the subject of considerable change with the segregation of several genera, including *Calonema*, which contains those spider orchids such as *C. filamentosa* R.Br., with filiform spidery segments adorned with elongated glands. Unfortunately the name *Calonema* is illegal due to prior use for another genus. This paper, which follows on from our earlier papers on the Caladeniinae (Jones *et al* 2001, Jones *et al* 2002) and the associated studies of the same group by Hopper and Brown (2000, 2001), recognises the status of the recently described *Calonemorchis* (Szlachetko 2001b) as a new substitute name for *Calonema* (Szlachetko 2001a). We had hoped that our paper on the Caladeniinae (Jones *et al* 2001) would provide the basis for nomenclatural stability as well as a clear understanding of the phylogeny of the group, but, unfortunately we overlooked the prior use of the name *Calonema* Morgan. Szlachetko (2001b), renamed the genus *Calonemorchis*, without reinterpreting his circumscription of the group, and designating *Caladenia filifera* as the type of the genus. This paper aims to clarify the nomenclature of *Calonemorchis*, with necessary new transfers to the genus. A key to the genera of the Caladeniinae is also presented.

TAXONOMY

SUBTRIBE: Caladeniinae Pfitzer

Calonemorchis **D.L.Szlachetko**, *Polish Bot. J.* **46(2): 137 (2001)**.

Basionym: *Caladenia* R.Br. sect. *Calonema* Lindl. in *Edwards's Bot. Reg.* 1-23: Swan Riv. Append. lii (1840). Type species: *Caladenia filifera* Lindl.

Calonema (Lindl.) D.L.Szlachetko, *Polish Bot. J.* **46(1): 15 (2001)**, *nom. illeg.* Type species not indicated.

Jonesiopsis D.L.Szlachetko, *Polish Bot. J.* **46(1): 14 (2001)**, *nom. illeg.* Type species: *Jonesyella multiclavia* (Rchb.f.) D.L.Szlachetko (*Caladenia multiclavia* Rchb.f.). Note: The name *Jonesiopsis* is illegitimate because it was published simultaneously with *Jonesyella* for the same taxon.

Jonesyella D.L.Szlachetko, *Polish Bot. J.* **46(1): 14 (2001)**, *nom. illeg.* Type species: *Jonesyella multiclavia* (Rchb.f.) D.L.Szlachetko (*Caladenia multiclavia* Rchb.f.). Note: Published simultaneously with *Jonesiopsis*, but without a description.

Phlebochilus (Lindl.) D.L.Szlachetko, *Polish Bot. J.* **46(1): 14 (2001)**, *pro parte, nom. illeg.* Note: The name was published without Szlachetko designating or referring to a type.

Calonema (Lindl.) D.L.Jones et M.A.Clem., *Orchadian* **13(9): 400-401 (2001)**, *nom. illeg., non* (Morgan 1893). Type species: *Caladenia filifera* Lindl., *fide* Jones (2001), *nec* Hopper et A.P.Br. (2001).

Species, Synonyms and New combinations:

Calonemorchis abbreviata (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., ***comb. nov.*** Basionym: *Caladenia abbreviata* Hopper et A.P.Br., *Nuytsia*, **14: 187-189, f. 40, 41A (2001)**.

Caladenia abbreviata Hopper et A.P.Br. in N.Hoffman et A.P.Brown, *Orchids South-West Austral.* (ed. 2), **27, t. (1992)**, *nom. inval.*

Calonema abbreviatum (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* **13(10): 454 (2002)**, *nom. illeg.*

Calonemorchis bicallata (R.S.Rogers) D.L.Szlachetko, *Polish Bot. J.* **46(2): 138 (2001)**.

Caladenia bicallata R.S.Rogers, *Trans. & Proc. Roy. Soc. South Australia* **33: 17 (1909)**. et

Calonema bicalliatum (R.S.Rogers) D.L.Jones M.A.Clem., *Orchadian* **13(9): 401 (2001)**, *nom. illeg.*

Calonemorchis brevisura (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia brevisura* Hopper et A.P.Br., *Nuytsia* 14(1/2): 192-196, f. 43, 41C (24 Sept. 2001).

Caladenia brevisura Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 135, t. (1992), *nom. inval.*; *Calonema brevisurum* (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 454 (2002), *nom. illeg.*

Calonemorchis caesarea (Domin) D.L.Szlachetko, *Polish Bot. J.* 46(2): 138 (2001).

Caladenia filamentosa R. Br. var. *caesarea* Domin, *J. Proc. Linn. Soc., Bot.* 41: 251 (1912); *Caladenia caesarea* (Domin) M.A.Clem. et Hopper, *Austral. Orch. Res.* 1: 21 (1989);

Calonema caesareum (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(9): 401 (2001), *nom. illeg.*

Calonemorchis caesarea (Domin) D.L.Jones et M.A.Clem. subsp. ***maritima*** (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia caesarea* (Domin) M.A.Clem. et Hopper subsp. *maritima* Hopper et A.P.Br., *Nuytsia* 14(1/2): 201-203, f. 44L-Q, 45A (24 Sept. 2001).

Caladenia caesarea (Domin) M.A.Clem. et Hopper subsp. *maritima* Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 58, t. (1992), *nom. inval.*

Calonema caesareum (Domin) D.L.Jones et M.A.Clem. subsp. *maritima* (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 454 (2002), *nom. illeg.*

Calonemorchis caesarea (Domin) D.L.Jones et M.A.Clem. subsp. ***transiens*** (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia caesarea* (Domin) M.A.Clem. et Hopper subsp. *transiens* Hopper et A.P.Br., *Nuytsia* 14(1/2): 203, f. 44R-V, 45A (24 Sept. 2001).

Caladenia caesarea (Domin) M.A.Clem. et Hopper subsp. *transiens* Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 57, t. (1992), *nom. inval.*

Calonema caesareum (Domin) D.L.Jones et M.A.Clem. subsp. *transiens* (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 454 (2002), *nom. illeg.*

Calonemorchis cairnsiana (F.Muell.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia cairnsiana* F.Muell., *Fragm.* 7: 31 (1869).

Calonema cairnsianum (F.Muell.) D.L.Jones et M.A.Clem., *Orchadian* 13(9): 401 (2001), *nom. illeg.*

Calonemorchis capillata (D.L.Jones) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia capillata* D.L.Jones, *Orchadian* 13(6): 255-256 (2000).

Calonema capillatum (D.L.Jones) D.L.Jones et M.A.Clem., *Orchadian* 13(9): 401 (2001), *nom. illeg.*

Calonemorchis chapmanii (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia chapmanii* Hopper et A.P.Br., *Nuytsia* 14(1/2): 206-207, f. 46E-K, 45C (24 Sept. 2001).

Caladenia chapmanii Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 42, t. (1992), *nom. inval.*

Calonema chapmanii (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 454 (2002), *nom. illeg.*

Calonemorchis cleistogama (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. et stat. nov.** Basionym: *Caladenia bicalliata* R.S.Rogers subsp. *cleistogama* Hopper et A.P.Br., *Nuytsia* 14(1/2): 192, f. 42A-G, 43B (24 Sept. 2001).

Caladenia bicalliata R.S.Rogers subsp. *cleistogama* Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (rev. ed. 2 & suppl.), 416, t. (1998), *nom. inval.*

Calonema cleistogamum (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 454 (2002), *nom. illeg.*

Calonemorchis cristata (R.S.Rogers) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia cristata* R.S.Rogers, *Trans. & Proc. Roy. Soc. South Australia* 47: 337 (1923).

Calonema cristatum (R.S.Rogers) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 454 (2002), *nom. illeg.*

Calonemorchis denticulata (Lindl.) D.L.Szlachetko, *Polish Bot. J.* 46(2): 139 (2001).

Caladenia denticulata Lindl. in *Edwards's, Bot. Reg.* 1-23: *Swan Riv. Append.* L11 (1840); *Calonema denticulatum* (Lindl.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 454 (2002), *nom. illeg.*

Calonemorchis dimidia (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia dimidia* Hopper et A.P.Br., *Nuytsia* 14(1/2): 213-215, f. 48, 47B (24 Sept. 2001).

Caladenia dimidia Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 50, t. (1992), *nom. inval.*

Calonema dimidium (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 454 (2002), *nom. illeg.*

Calonemorchis dorrienii (Domin) D.L.Szlachetko, *Polish Bot. J.* 46(2): 139 (2001).

Caladenia dorrienii Domin, *J. Proc. Linn. Soc., Bot.* 41: 251, t. 12, f. 23 (1912); *Calonema dorrienii* (Domin) D.L.Jones et M.A.Clem., *Orchadian* 13(9): 401 (2001), *nom. illeg.*

Calonemorchis douthiae (O.Sarg.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia douthiae* O.Sarg., *J. Bot.* 59: 175 (1921).

Calonema douthiae (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 454 (2002), *nom. illeg.*

Calonemorchis dundasiae (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia dundasiae* Hopper et A.P.Br., *Nuytsia* 14(1/2): 219-221, f. 50, 51A (24 Sept. 2001).

Caladenia dundasiae Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (rev. ed. 2 & suppl.), 417, t. (1998), *nom. inval.*

Calonema dundasiae (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 454 (2002), *nom. illeg.*

Calonemorchis elegans (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia elegans* Hopper et A.P.Br., *Nuytsia* 14(1/2): 221-224, f. 52, 51B (24 Sept. 2001).

Caladenia elegans Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 53, t. (1992), *nom. inval.*

Calonema elegans (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 454 (2002), *nom. illeg.*

Calonemorchis erythrochila (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia erythrochila* Hopper et A.P.Br., *Nuytsia* 14(1/2): 224-225, f. 51C (24 Sept. 2001).

Caladenia erythrochila Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (rev. ed. 2 & suppl.), 418, t. (1998), *nom. inval.*

Calonema erythrochilum (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 454 (2002), *nom. illeg.*

Calonemorchis evanescens (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia evanescens* Hopper et A.P.Br., *Nuytsia* 14(1/2): 225-226, f. 49M-R, 51D (24 Sept. 2001).

Caladenia evanescens Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 26, t. (1992), *nom. inval.*

Calonema evanescens (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 454 (2002), *nom. illeg.*

Calonemorchis exilis (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. et stat. nov.** Basionym: *Caladenia exilis* Hopper et A.P.Br. subsp. *exilis* Hopper et A.P.Br., *Nuytsia* 14(1/2): 226-229, f. 49S-W, 53A (24 Sept. 2001).

Caladenia varians Hopper et A.P.Br. subsp. *exilis* Hopper et A.P. Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 32, t. (1992), *nom. inval.*

Caladenia exilis Hopper et A.P.Br. subsp. *exilis*, Hopper et A.P.Br. in Hoffman & A.P.Brown, *Orchids South-West Austral.* (rev. ed. 2 & suppl.), 32, t. (1998), *nom. inval.*

Calonema exilis (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 455 (2002), *nom. illeg.*

Calonemorchis exilis (Hopper et A.P.Br.) D.L.Jones et M.A.Clem. subsp. ***vanleeuwenii*** (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia exilis* Hopper et A.P.Br. subsp. *vanleeuwenii* Hopper et A.P.Br., *Nuytsia* 14(1/2): 229-231, f. 54, 53A (24 Sept. 2001).

Caladenia varians Hopper et A.P.Br. subsp. *vanleeuwenii* Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 41, t. (1992), *nom. inval.*

Caladenia exilis Hopper et A.P.Br. subsp. *vanleeuwenii* Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (rev. ed. 2 & suppl.), 41, t. (1998), *nom. inval.*

Calonema exilis (Hopper et A.P.Br.) D.L.Jones et M.A.Clem. subsp. *vanleeuwenii* (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 455 (2002), *nom. illeg.*

Calonemorchis filamentosa (R.Br.) D.L.Szlachetko, *Polish Bot. J.* 46(2): 139 (2001).

Caladenia filamentosa R.Br., *Prod.* 324 (1810); *Calonema filamentosum* (R.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(9): 401 (2001), *nom. illeg.*

Calonemorchis filifera (Lindl.)
D.L.Szlachetko, *Polish Bot. J.* 46(2): 139 (2001).

Caladenia filifera Lindl. in Edwards's, *Bot. Reg.* 1-23: Swan Riv. Append. lii (1840); *Calonema filiferum* (Lindl.) D.L.Jones et M.A.Clem., *Orchadian* 13(9): 401 (2001), *nom. illeg.*

Calonemorchis flaccida (D.L.Jones)
D.L.Szlachetko, *Polish Bot. J.* 46(2): 140 (2001).

Caladenia flaccida D.L.Jones, *Austral. Orch. Res.* 2: 24-25, f.27 (1991); *Caladenia flaccida* D.L.Jones subsp. *flaccida* Hopper et A.P. Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 48, t. (1992), *nom. inval.*; *Calonema flaccidum* (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(9): 401 (2001), *nom. illeg.*

Calonemorchis footeana (Hopper et A.P.Br.)
D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia footeana* Hopper et A.P.Br., *Nuytsia* 14(1/2): 233-234, f. 56A-H, 53C (24 Sept. 2001).

Caladenia footeana Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 45, t. (1992), *nom. inval.*

Calonema footeanum (Hopper et A.P.Br.)
D.L.Jones et M.A.Clem., *Orchadian* 13(10): 455 (2002), *nom. illeg.*

Calonemorchis fuscolutescens (Hopper et A.P.Br.)
D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia fuscolutescens* Hopper et A.P.Br., *Nuytsia* 14(1/2): 234, 236-237, f. 56I-M, 53D (24 Sept. 2001).

Caladenia varians Hopper et A.P.Br. subsp. *fuscolutescens* Hopper et A.P. Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 38, t. (1992), *nom. inval.*

Caladenia fuscolutescens Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (rev. ed. 2 & suppl.), 38, t. (1998), *nom. inval.*

Calonema fuscolutescens (Hopper et A.P.Br.)
D.L.Jones et M.A.Clem., *Orchadian* 13(10): 455 (2002), *nom. illeg.*

Calonemorchis hiemalis (Hopper et A.P.Br.)
D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia hiemalis* Hopper et A.P.Br., *Nuytsia* 14(1/2): 237-239, f. 56N-S, 57A (24 Sept. 2001).

Caladenia varians Hopper et A.P.Br. subsp. *hiemalis* Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 31, t. (1992), *nom. inval.*

Caladenia hiemalis Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (rev. ed. 2 & suppl.), 31, t. (1998), *nom. inval.*

Calonema hiemalis (Hopper et A.P.Br.)
D.L.Jones et M.A.Clem., *Orchadian* 13(10): 455 (2002), *nom. illeg.*

Calonemorchis horistes (Hopper et A.P.Br.)
D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia horistes* Hopper et A.P.Br., *Nuytsia* 14(1/2): 239-241, f. 56T-Y, 57B (24 Sept. 2001).

Caladenia varians Hopper et A.P.Br. subsp. *horistes* Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 37, t. (1992), *nom. inval.*

Caladenia horistes Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (rev. ed. 2 & suppl.), 37, t. (1998), *nom. inval.*

Calonema horistes (Hopper et A.P.Br.)
D.L.Jones et M.A.Clem., *Orchadian* 13(10): 455 (2002), *nom. illeg.*

Calonemorchis incensa (Hopper et A.P.Br.)
D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia incensa* Hopper et A.P.Br., *Nuytsia* 14(1/2): 241-243, f. 58, 57C (24 Sept. 2001).

Caladenia incensa Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 51, t. (1992), *nom. inval.*

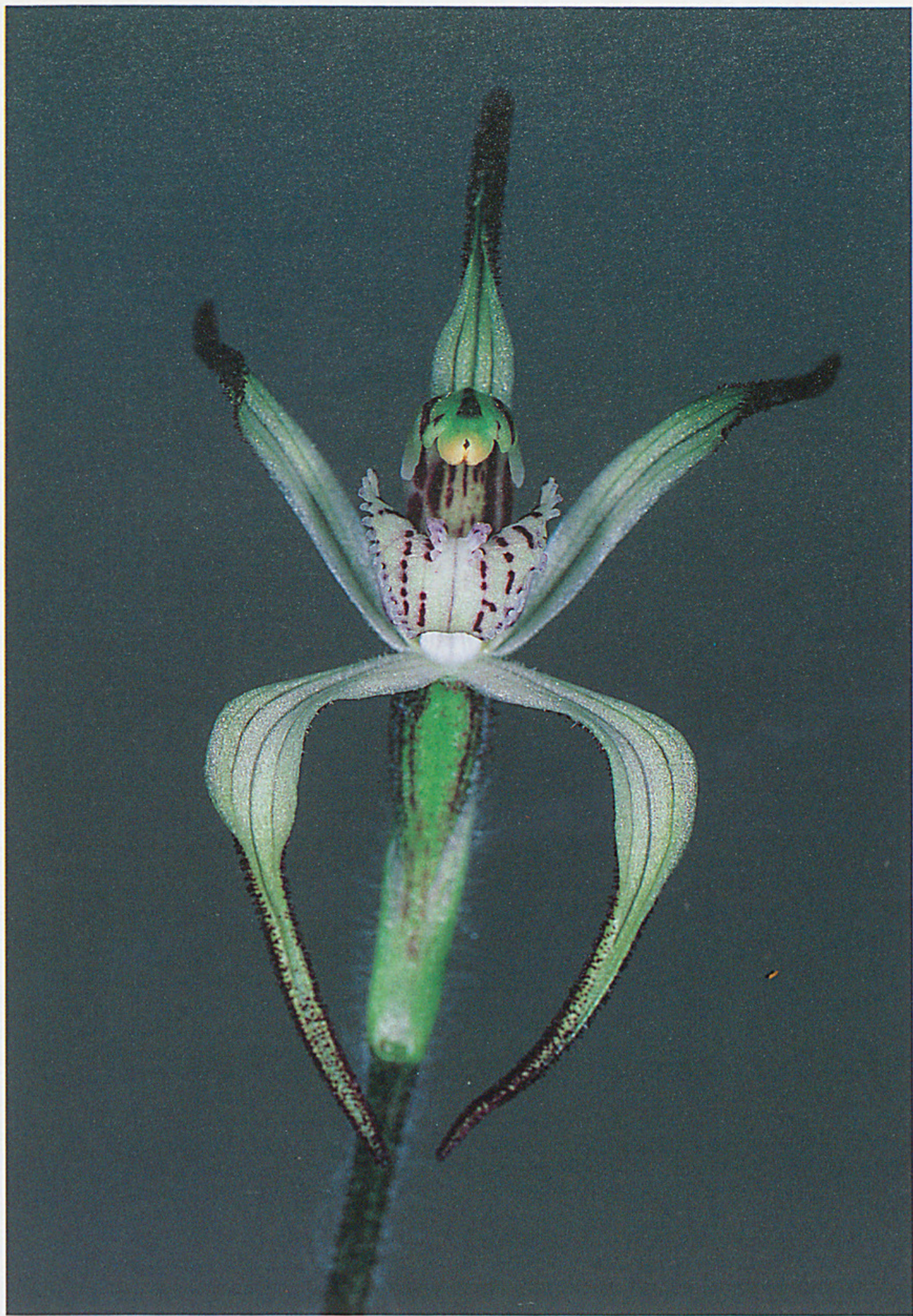
Calonema incensum (Hopper et A.P.Br.)
D.L.Jones et M.A.Clem., *Orchadian* 13(10): 455 (2002), *nom. illeg.*

Calonemorchis incrassata (Hopper et A.P.Br.)
D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia incrassata* Hopper et A.P.Br., *Nuytsia* 14(1/2): 243-246, f. 59A-G, 57D (24 Sept. 2001).

Caladenia incrassata Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 134, t. (1992), *nom. inval.*

Calonema incrassatum (Hopper et A.P.Br.)
D.L.Jones et M.A.Clem., *Orchadian* 13(10): 455 (2002), *nom. illeg.*

Calonemorchis luteola (Hopper et A.P.Br.)
D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia luteola* Hopper et



Calonemorchis bicalliata Cape de Cordeaux, Kangaroo Is. S.A.

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A.P.Br., *Nuytsia* 14(1/2): 246-248, f. 59H, 60A (24 Sept. 2001).

Caladenia caesarea (Domin) M.A.Clem. et Hopper subsp. *subdita* Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 56, t. (1992), *nom. inval.*

Caladenia luteola Hopper et A.P. Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (rev. ed. 2 & suppl.), 56, t. (1998), *nom. inval.*

Calonema luteolum (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 455 (2002), *nom. illeg.*

Calonemorchis melanema (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia melanema* Hopper et A.P.Br., *Nuytsia* 14(1/2): 248-249, f. 59I-O, 60B (24 Sept. 2001).

Caladenia melanema Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 28, t. (1992), *nom. inval.*

Calonema melanemum (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 455 (2002), *nom. illeg.*

Calonemorchis meridionalis (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia meridionalis* Hopper et A.P.Br., *Nuytsia* 14(1/2): 249-250, f. 59P-U, 60C (24 Sept. 2001).

Caladenia varians Hopper et A.P.Br. subsp. *meridionalis* Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 39, t. (1992), *nom. inval.*

Caladenia meridionalis Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (rev. ed. 2 & suppl.), 39, t. (1998), *nom. inval.*

Calonema meridionalis (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 455 (2002), *nom. illeg.*

Calonemorchis microchila (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia microchila* Hopper et A.P.Br., *Nuytsia* 14(1/2): 250-253, f. 61A-F, 60D (24 Sept. 2001).

Caladenia microchila Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 49, t. (1992), *nom. inval.*

Calonema microchilum (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 455 (2002), *nom. illeg.*

Calonemorchis multiclavia (Rchb.f.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym:

Caladenia multiclavia Rchb.f., *Beitr. Syst. Pflanzenk.* 64 (1871).

Calonema multiclavium (Rchb.f.) D.L.Jones et M.A.Clem., *Orchadian* 13(9): 401 (2001), *nom. illeg.*

Calonemorchis nobilis (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia nobilis* Hopper et A.P.Br., *Nuytsia* 14(1/2): 253-256, f. 61G-M, 62A (24 Sept. 2001).

Caladenia varians Hopper et A.P. Br. subsp. *nobilis* Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 35, t. (1992), *nom. inval.*

Caladenia nobilis Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (rev. ed. 2 & suppl.), 35, t. (1998), *nom. inval.*

Calonema nobilis (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 455 (2002), *nom. illeg.*

Calonemorchis occidentalis (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia occidentalis* Hopper et A.P.Br., *Nuytsia* 14(1/2): 256-257, f. 62B (24 Sept. 2001).

Caladenia variegata Hopper et A.P. Br. in N.Hoffman & A.P.Br., *Orchids South-West Austral.* (ed. 2), 44, t. (1992), *nom. inval. et illeg., non* Colenso (1885).

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Calonema occidentalis (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 455 (2002), *nom. illeg.*

Calonemorchis pachychila (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia pachychila* Hopper et A.P.Br., *Nuytsia* 14(1/2): 1257-259, f. 61N-R, 62C (24 Sept. 2001).

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Calonema pachychilum (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 455 (2002), *nom. illeg.*

Calonemorchis paradoxa (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia paradoxa* Hopper et A.P.Br., *Nuytsia* 14(1/2): 259-260, f. 62D (24 Sept. 2001).

Calonema paradoxum (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 455 (2002), *nom. illeg.*

Calonemorchis pendens (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia pendens* Hopper et A.P.Br., *Nuytsia* 14(1/2): 261-262, f. 57S-V, 63A (24 Sept. 2001).

Caladenia varians Hopper et A.P.Br. subsp. *pendens* Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 34, t. (1992), *nom. inval.*

Caladenia pendens Hopper et A.P.Br. subsp. *pendens* in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (rev. ed. 2 & suppl.), 34, t. (1998), *nom. inval.*

Calonema pendens (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 455 (2002), *nom. illeg.*

Calonemorchis pendens (Hopper et A.P.Br.) D.L.Jones et M.A.Clem. subsp. ***talbotii*** (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia pendens* Hopper et A.P.Br. subsp. *talbotii* Hopper et A.P.Br., *Nuytsia* 14(1/2): 264, f. 64A-K, 63A (24 Sept. 2001).

Caladenia varians Hopper et A.P.Br. subsp. *talbotii* Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 40, t. (1992), *nom. inval.*

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Calonema pendens (Hopper et A.P.Br.) D.L.Jones et M.A.Clem. subsp. *talbotii* (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 455 (2002), *nom. illeg.*

Calonemorchis polychroma (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia polychroma* Hopper et A.P.Br., *Nuytsia* 14(1/2): 264-268, f. 65A-F, 63B (24 Sept. 2001).

Caladenia polychroma Hopper et A.P. Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 43, t. (1992), *nom. inval.*

Calonema polychromum (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 456 (2002), *nom. illeg.*

Calonemorchis postea (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia postea* Hopper et A.P.Br., *Nuytsia* 14(1/2): 268-269, f. 66, 63C (24 Sept. 2001).

Caladenia varians Hopper et A.P.Br. subsp.

postea Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 30, t. (1992), *nom. inval.*

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Calonema posteum (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 456 (2002), *nom. illeg.*

Calonemorchis pulchra (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia pulchra* Hopper et A.P.Br., *Nuytsia* 14(1/2): 269-273, f. 67, 63D (24 Sept. 2001).

Caladenia pulchra Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (rev. ed. 2 & suppl.), 47, t. (1998), *nom. inval.*

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Calonema pulchrum (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 456 (2002), *nom. illeg.*

Calonemorchis radialis (R.S.Rogers) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia radialis* R.S.Rogers, *Trans. & Proc. Roy. Soc. South Australia* 51: 296 (1927).

Calonema radialis (R.S.Rogers) D.L.Jones et M.A.Clem., *Orchadian* 13(9): 403 (2001), *nom. illeg.*

Calonemorchis remota (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia remota* Hopper et A.P.Br. subsp. *remota*, *Nuytsia* 14(1/2): 273-274, f. 68, 69A (24 Sept. 2001).

Caladenia varians Hopper et A.P.Br. subsp. *remota* Hopper et A.P.Br., in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 36, t. (1992), *nom. inval.*

Caladenia remota Hopper et A.P.Br. subsp. *remota*, in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (rev. ed. 2 & suppl.), 36, t. (1998), *nom. inval.*

Calonema remotum (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 456 (2002), *nom. illeg.*

Calonemorchis remota (Hopper et A.P.Br.) D.L.Jones et M.A.Clem. subsp. ***parva*** (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia remota* Hopper et A.P.Br. subsp. *parva* Hopper et A.P.Br., *Nuytsia* 14(1/2): 274-277, f. 69A (24 Sept. 2001).



Calonemorchis cristata Miling W.A.

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Caladenia remota Hopper et A.P.Br. subsp. *parva* Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (rev. ed. 2 & suppl.), 424, t. (1998), *nom. inval.*

Calonema remotum (Hopper et A.P.Br.) D.L.Jones et M.A.Clem. subsp. *parvum* (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 456 (2002), *nom. illeg.*

Calonemorchis roei (Benth.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia roei* Benth., *Fl. Austral.* 6: 383 (1873).

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Calonemorchis ultima (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia ultima* Hopper et A.P.Br., *Nuytsia* 14(1/2): 277-279, f. 70, 69B (24 Sept. 2001).

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Calonema ultimum (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 456 (2002), *nom. illeg.*

Calonemorchis voigtii (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia voigtii* Hopper et A.P.Br., *Nuytsia* 14(1/2): 279-280, f. 65G-L, 69C (24 Sept. 2001).

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Calonema voigtii (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 456 (2002), *nom. illeg.*

Calonemorchis vulgata (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia vulgata* Hopper et A.P.Br., *Nuytsia* 14(1/2): 280-282, f. 65M-S, 69D (24 Sept. 2001).

Caladenia varians Hopper et A.P.Br. subsp. *variens* Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (ed. 2), 33, t. (1992), *nom. inval.*

Caladenia vulgata Hopper et A.P.Br. in N.Hoffman & A.P.Brown, *Orchids South-West Austral.* (rev. ed. 2 & suppl.), 33, t. (1998), *nom. inval.*

Calonema vulgatum (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., *Orchadian* 13(10): 456 (2002), *nom. illeg.*

Calonemorchis wanosa (A.S.George) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia wanosa* A.S.George, *Nuytsia* 5(1): 57-8, t. 3, A-E (1984).

Calonema wanosa (A.S.George) D.L.Jones et M.A.Clem., *Orchadian* 13(9): 403 (2001), *nom. illeg.*

Calonemorchis xantha (Hopper et A.P.Br.) D.L.Jones et M.A.Clem., **comb. nov.** Basionym: *Caladenia xantha* Hopper et A.P.Br., *Nuytsia* 14(1/2): 282-283, f. 65T-W, 71A (24 Sept. 2001).

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Artificial key to the genera of the *Caladeniinae*

- 1 Leaf absent from flowering plants, reduced to a thin, scale-like basal bract; leaves on sterile plants ovate, with prominent white veins ***Praecoxanthus***
1. Leaves similar on both flowering plants and sterile plants, lacking white veins **2**
- 2 Leaf glabrous or nearly so; leaves of sterile plants with a small, basal, ligule-like growth; petals linear-clavate, densely covered with sessile red glands; labellum sessile ***Leptoceras***
2. Leaf densely hairy; leaves of sterile plants without a basal, ligule-like growth; petals never linear-clavate; labellum clawed or sessile **3**
- 3 Labellum strongly insectiform; lamina attached by a membranous portion to a rigid, rod-like, pseudo column foot; labellum calli greatly enlarged and irregularly swollen; column wings enlarged medially ***Drakonorchis***

3. Labellum not insectiform; lamina sessile on the column base or with a basal claw; calli neither greatly enlarged nor irregularly swollen; column wings enlarged distally4
4. Calli restricted to labellum base5
4. Calli extending at least to the labellum mid-lobe6
5. Flowers glossy; labellum lamina much reduced, thin to membranous, glabrous; column wings hooded above the anther**Elythranthera**
5. Flowers dull; labellum lamina well developed, the lateral lobes fleshy, papillate; column wings not extending above the anther**Glossodia**
6. Tubers wholly enclosed in a multilayered fibrous tunic; flowers usually blue7
6. Tubers partly enclosed in a multilayered fibrous tunic; flowers never blue8
7. Leaf ovate; flowers opening fully only in warm weather; trichomes terete, eglandular, papillate; labellum calli monomorphic**Cyanicula**
7. Leaf linear to lanceolate; flowers unreactive to weather conditions; trichomes flattened, eglandular, non-papillate; labellum calli dimorphic**Pheladenia**
8. Plants growing in spreading clonal colonies; labellum calli clustered, linear, without an expanded head, the bases fused to form a plate-like structure; column wings with a short, free lobule**Caladenia**
8. Plants growing singly or in loose groups or tufts, never in spreading clonal colonies; labellum calli in rows, with an expanded head, the bases free; column wings entire9
9. Flowers usually large and spider-like; tepals usually attenuate, caudate, filiform or clavate distally; trichomes mostly eglandular, with a long, white basal cell10
9. Flowers usually small and hand-like; tepals usually obtuse to acute; trichomes mostly glandular, with a short dark basal cell11
10. Column base with two prominent yellow gland-like structures**Arachnorchis**
10. Column base without prominent yellow gland-like structures**Calonemorchis**
11. Dorsal sepal strongly inarched over the column; labellum calli usually in four or more rows**Stegostyla**
11. Dorsal sepal erect or recurved, occasionally incurved but never strongly so; labellum calli usually in two rows12
12. Labellum cream, white or pink, either lacking bands or with narrow dark red bands**Petalochilus**
12. Labellum whitish or blue, with numerous narrow dark blue bands13
13. Flowers usually blue**Cyanicula**
13. Flowers white**Glycorchis**

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