

SHORT COMMUNICATIONS

Validation of the name *Caladenia serotina* (Orchidaceae)

In our recent treatment (Hopper & Brown 2001) of Western Australian members of the genus *Caladenia* R. Br. (Orchidaceae), a portion of the text was omitted at the top of page 145. Owing to this printing error, the new species *Caladenia serotina* was not validly published as most of its type citation was missing. The full description for this species is reproduced below to provide a valid publication for it. *Caladenia serotina* was illustrated in Figure 28A–F and mapped in Figure 27C of Hopper & Brown (2001).

Caladenia serotina Hopper & A.P. Br., *sp. nov.*

A *Caladenia longicauda* Lindl. floribus plus coloratis petalis sepalisque saepissime rigide ferentibus et postea florescentia differt.

Typus: c. 16 km north of Manjimup on South Western Highway, 34°05'S, 116°11'E, Western Australia, 13 December 1985, S.D. Hopper 4765 (*holo*: PERTH 00909106; *iso*: AD!, CBG!, K!, MEL!, NSW!, PERTH 02416328).

Illustrations. N. Hoffman & A. Brown, Orchids of South-West Australia, 1st edn, p. 68, [as *Caladenia* sp.] (1984), 2nd edn, p. 70 (1992) and rev. 2nd edn with suppl., p. 70 (1998).

Plant solitary or in small clumps. *Leaf* erect, linear, 10–20 cm x 4–20 mm, pale green, basal third usually irregularly blotched with red-purple. *Scape* 25–60 cm tall. *Flowers* 1–3(4), c. 8–10 cm across, white or creamy-yellow to maroon with maroon markings on calli and pale maroon to pink lines on the back of petals and sepals; floral odour faintly to strongly sweet. *Sepals and petals* stiffly held, linear-lanceolate in basal 1/5–1/3, then abruptly narrowing to a densely glandular long-acuminate filamentous apex lacking a tumescent osmophore; glandular hairs elongate, cylindrical. *Dorsal sepal* erect to curving forward near apex, 5.5–10 cm x 2.5–3 mm. *Lateral sepals* spreading, obliquely downcurved, 5.5–10 cm x 3–6 mm. *Petals* horizontal basally, then downcurved, 4.5–8 cm x 2–4 mm. *Labellum* obscurely 3-lobed, uniformly coloured except basal lamina sometimes with pale maroon radiating stripes, stiffly articulate on a claw c. 2 mm wide; lamina narrowly to broadly cordate in outline when flattened, 16–30 x 10–14 mm, basal third curving from erect to horizontal, middle third nearly horizontal, apical third sharply recurved, margins at widest point moderately curved upwards and terminated by obliquely to vertically ascending calli; lateral lobes erect with entire margins within 4 mm of the claw, becoming fimbriate with slender acuminate narrowly fusiform pale to dark maroon sometimes white-tipped calli to 7 mm long which are abruptly decrescent near midlobe; midlobe margins with short broad forward-facing obtuse calli decrescent towards the apex. *Lamina calli* in 4 rows (sometimes towards apex up to 8, or 4 or 2 rows, or irregularly aggregated) extending at least 3/4 the length of the labellum, pale to dark maroon, golf stick-shaped, the longest c. 2 mm tall, decrescent towards apex and becoming sessile. *Column* 13–22 x 7–10 mm, winged, greenish yellow with maroon blotches and suffusions. *Anther* c. 3.5–4.5 x 3.5–4.5 mm, maroon with yellowish suffusions. *Pollinia* c. 3–4 mm long, yellow. *Stigma* c. 3–4 mm wide, yellow-green. *Capsule* not seen.

Selected specimens examined. WESTERN AUSTRALIA: Byford, S of Armadale, 1 Nov. 1968, *Byrne* 2 (PERTH 00290475); N of Dinninup, Nov. 1983, *E. Chapman s.n.* (CANB, PERTH 00245577); 2.5 km SW of Augusta, c. 1 km S of Golf Course road, 34°20'S, 115°08'E, 26 Oct. 1984, *E. Chapman s.n.* (PERTH 00404349); just NW of Kulikup, 33°50'S, 116°40'E, 3 Nov. 1977, *A.S. George* 15046 (PERTH 00290858); N side of Mt Manypeaks, 40 km E of Albany, 12 Dec. 1986, *G.J. Keighery* 9021 (PERTH 00855170); Wright Rd, 1 km N of Brockman Highway, c. 15 km E of Bussell Highway, 34°09'S, 115°14'E, 11 Dec. 1985, *S.D. Hopper* 4745 (PERTH 00907561); Muir Highway, 0.8 km W of Thomsons Rd turnoff, c. 50 km ESE of Manjimup, 34°27'S, 116°38'E, 13 Dec. 1985, *S.D. Hopper* 4763 (PERTH 00909114); Chesapeake Rd, 1 km E of Shannon River Bridge, c. 35 km NW of Walpole, 34°51'S, 116°23'E, 8 Dec. 1987, *S.D. Hopper* 6326 (PERTH 01191934); off Muir Highway, N side, c. 400 m W from Thompson Rd, 4 Dec. 1990, *W. Jackson* BJ192 (PERTH 01700006); Dinninup, E of Boyup Brook, 18 Nov. 1970, *C. Sumner s.n.* (PERTH 00335932).

Distribution and habitat. Ranges from the vicinity of Perth south to Augusta and eastwards to Manypeaks. Occurs in winter-wet swamps or adjacent to creeks at the northern end of its range, but is widespread in most habitats at the southern end. These include coastal heath, *Banksia* woodland, paperbark (*Melaleuca*) swamps, granite outcrop scrub, Jarrah/Marri (*Eucalyptus marginata*/*Corymbia calophylla*) forest, and Karri (*Eucalyptus diversicolor*) forest. Soils vary from sands to lateritic loams.

Flowering period. November to January. Flowers earlier near Perth than in southern localities.

Etymology. Named from the Latin *serotinus* (late-coming), alluding to the late flowering season of the species.

Notes. *Caladenia serotina* is a sporadically distributed but locally common species that may grow with or adjacent to earlier-flowering members of the *C. longicauda* Lindl. complex including *C. longicauda*, *C. christinae* Hopper & A.P. Br. and *C. harringtoniae* Hopper & A.P. Br. The only related species with which *C. serotina* grows and which is similarly late-flowering is *C. pholcoidea* Hopper & A.P. Br. This differs in its much smaller labellum and its longer narrower pale-yellow petals and sepals. *C. serotina* tends to flower in greater profusion after fire. It hybridizes occasionally with *C. radiata* Nicholls and with *C. corynephora* A.S. George to produce the hybrid *C. x aestantha* Hopper & A.P. Br.

Reference

- Hopper, S.D. & Brown, A.P. (2001). Contributions to Western Australian Orchidology: 2. New taxa and circumscriptions in *Caladenia*. *Nyctzia* 14: 27–307.

S.D. Hopper

Botanic Gardens and Parks Authority, Kings Park and Botanic Garden, West Perth, Western Australia 6005.

A.P. Brown

Department of Conservation and Land Management, Western Australian Threatened Species and Communities Unit, PO Box 51, Wanneroo, Western Australia 6065.