A new orchid species, Disa staerkeriana is described from the Hartebeesvlakte in the Mpumalanga Province of South Africa. It is a member of Disa section Stenocarpa and is affiliated to D. amoena and D. montana. An updated artificial key to Disa section Stenocarpa is provided.

Introduction

The orchid genus Disa Bergius (1767: 348) (Disinae, Orchidaceae, Orchidoideae) currently consists of 184 species (Govaerts 2014). It is largely endemic to continental Africa but extends to Madagascar (five species), Réunion (one species) and the Arabian Peninsula (one species). In South Africa, 143 species occur of which 128 are endemic to the country and 88 are endemic to the Cape Floristic Region, its centre of diversity (Galley et al. 2007). Following a molecular phylogenetic analysis (Bytebier et al. 2007a), the segregate genus Schizodium Lindley (1838: 358) was included in Disa and the genus was subdivided into 18 sections (Bytebier et al. 2008).

After the publication of the authoritative “Orchids of Southern Africa” (Linder & Kurzweil 1999), six new Disa species have been described from South Africa. Three of these, Disa albomagentea E.G.H.Oliv. & Liltved in Oliver et al. (2011: 313), Disa linderiana Bytebier & E.G.H.Oliv. in Bytebier et al. (2007b: 558) and Disa remota H.P.Linder in Linder & Hitchcock (2006: 627) belong to section Disella and are endemic to the fynbos biome of the Cape Floristic Region. The other three, Disa vigilans McMurtry & T.J.Edwards in McMurtry et al. (2006: 551), Disa klugei McMurtry in McMurtry et al. (2008: 465) and Disa roseovittata McMurtry & G.McDonald in McMurtry et al. (2008: 466) are endemic to the grassland biome of Mpumalanga Province. Another new species is here described from these high altitude grasslands, which are very species-rich but under considerable threat.

Taxonomy

Disa staerkeriana McMurtry & Bytebier, sp. nov. (Figs. 1–4)

Type:—SOUTH AFRICA. Mpumalanga: Lydenburg, west of Sabie, Hartebeesvlakte, 2200 m, 25°05’S, 30°39’E (2530BA), 25 January 2014, McMurtry 15222 (holotype: NU!; isotypes: BOL!, BNRH!, HSMC!, WAG!).

Diagnosis—similar to Disa amoena from which it can be distinguished by the shorter spur and the smaller flowers; and to Disa montana from which it can be distinguished by smaller and differently shaped petals, and by the much shorter inflorescence with fewer flowers (Table 1).

Erect terrestrial herb 250–350 mm tall. Leaves 6–8, slightly spreading at 5–15° from axis, rigid, conduplicate, linear-lanceolate, (56–) 80–90 (–105) mm long × 1.5–2.8 mm wide, 3–5 mm wide when flattened, with three main veins, veins and margins translucent, light straw-coloured. Inflorescence compact, subsecund, 55–75 mm long × 30–35 mm wide, 5–13-flowered. Bracts 16–28 mm long × 4.5–5 mm wide, acute to acuminate, pale maroon-pink, scarious at anthesis. Ovary green, tinged reddish, obliquely patent, ± 15 mm long. Flowers white often suffused pale pink, lightly
Acknowledgements

D McM would like to thank Shane Burns for assistance in the field, documentation and computer skills; BB would like to thank Tim Le Péchon and Adam Shuttleworth for help with the figures, and the National Research Foundation (NRF) for financial support. The editor and two reviewers are thanked for their constructive comments, which helped to improve the manuscript.

Figure 4. Close-up comparison of the petal of *Disa montana* (left), *Disa staerkeriana* (middle) and *Disa amoena* (right).

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