



## *Primulina glandaceistriata* (Gesneriaceae), a new species from Guangxi, China

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### Abstract

*Primulina glandaceistriata* from Lingchuan County, Guangxi, is illustrated and described as a new species. It is morphologically close to *P. dryas* and *P. beiliuensis*, but can be easily distinguished by its leaf blades oval, ovate or nearly rounded, and both leaf surfaces being sparsely purple strigulose and the hairs with a papillose base; shorter peduncle 7.5–9.5 cm long that is densely erectly purple pilose; bracts inside densely erectly purple pilose; corolla pale purple to purple, inner surface glabrous and with sparse purple spots and two obviously brown stripes, and the outer surface piloglandulose; staminodes longer, ca. 7.5 mm long. The conservation status of this new species was assessed as “Critically Endangered” (CR).

**Key words:** Gesneriaceae, Guangxi, New species, *Primulina*, *Primulina glandaceistriata*, Guangxi flora

### Introduction

During a floristic survey in Guangxi, China on 20 May, 2010, the authors collected some interesting *Primulina* Hance (1883: 169) (Gesneriaceae) specimens near the forest ranger trail of Haiyang Mount, Lingchuan County. To identify these specimens we consulted national floras (Wang *et al.*, 1990, 1998), herbarium specimens (ANU, BJFU, CDBI, HN, IBK, IBSC, KUN, PE, VMN, CTC, MO, CDBI, HIB, HGAS, SZ), and other relevant literature (Li & Wang, 2004; Wei *et al.*, 2010). This included, for example, some recently published taxonomic papers about *Primulina* (e.g., *P. yangchunensis* Zheng & Deng (2014: 49), *P. qingyuanensis* Ning & Kang (2014: 48), *P. mabaensis* Chung & Xu (2013: 41), *P. guizhongensis* Zhao, Pan & Wen (2013: 32), *P. sinovietnamica* Wu & Zhang (2012: 36), *P. hochiensis* var. *rosulatas* Wen & Wei (2012: 37), *P. guigangensis* Wu & Zhang (2011: 19), *P. chizhouensis* Hong, Zhou & Wen (2012: 14)). Based on these studies we were unable to identify these specimens as a known species of *Primulina*. Therefore, we consider that they represent a new species of *Primulina*, which is described and illustrated here.

### Taxonomic treatment

*Primulina glandaceistriata* X.X.Zhu, F.Wen & H.Sun, *sp. nov.* (Fig. 1 & Fig. 2)

*Primulina glandaceistriata* is similar to *P. dryas* in its leaf shape, and to *P. beiliuensis* in corolla shape, but differing from these by its leaf blades oval, ovate or nearly rounded, and both surface sparsely purple strigulose with papillose base; shorter peduncle 7.5–9.5 cm long with densely erectly purple pilose; bracts inside densely erectly purple pilose; corolla pale purple to purple, inside sparsely purple spots and two obviously brown stripes, outside piloglandulose, inside glabrous; staminodes longer, ca. 7.5 mm long.

**Type:**—CHINA. Guangxi: Lingchuan County, Dajing Town, Longgongdong, in crevice on damp rock face of sandstone slope, 23 May 2010, Zhu & Wen 100523-1 (Holotype: KUN; Isotype: IBK).

**TABLE 1.** (Continued)

Characters	<i>P. glandaceistriata</i>	<i>P. dryas</i>	<i>P. beiliuensis</i>
Bracts			
Shape	ovate to nearly rhombus or broadly cymbiform, commonly withered at blooming time	ovate to lanceolate	ovate, broadly ovate or rounded-ovate, outside densely purple-pubescent
Size	2.5–4.5 × 2.0–3.5 cm,	1–4 × 0.4–1.6 cm,	3.5–4.5 × 2.5–3 cm,
Indumentum	inside densely erectly purple pilose	pubescent to villous	inside white-pubescent
Corolla			
Size	ca. 5.0 cm long	(2–)2.7–4.6 cm long	3–4 cm long
Color	pale purple to purple, inside sparsely purple spots and two obviously brown stripes	purple to white, inside tinged purple with 2 yellow longitudinal lines adaxially of tube	purple, inside with six dark purple and two yellow stripes
Indumentum	outside piloglandulose, inside glabrous	outside sparsely pubescent to pilose, inside puberulent only on purple spot of adaxial lip	outside purple-pubescent, inside sparsely pubescent
Stamens			
Filaments	ca. 13 mm long, with sparse glandularia	7–14 mm long, puberulent	6–8 mm long, with sparsely short glandulous hairs
Anthers	sparsely bearded	glabrous to pubescent	densely white lanate
Staminodes			
Number	2	2	3
Length	ca. 7.5 mm long	3–6 mm long	lateral ones ca. 6 mm long, the central one ca. 5 mm long

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