

海南凤仙花与龙州凤仙花花的形态补充描述

于胜祥^{1,2}, 许为斌³, 陈艺林¹, 覃海宁^{1*}

(1. 中国科学院植物研究所系统与进化植物学国家重点实验室, 北京 100093; 2. 中国科学院研究生院, 北京 100049; 3. 广西壮族自治区广西植物研究所, 广西 桂林 541006)

摘要: 凤仙花属植物的花部形态历来是该属的属下划分及种间界定的关键性状, 基于大量的有花标本及野外实地调查, 并参照了模式标本对海南凤仙花和龙州凤仙花的花部形态进行了补充描述。**关键词:** 凤仙花科; 海南凤仙花; 龙州凤仙花; 花部形态; 补充描述**中图分类号:** Q949.755.7 **文献标识码:** A **文章编号:** 1000-3142(2010)01-0033-03Supplementary description of floral morphology of *Impatiens hainanensis* and *I. morsei* (Balsaminaceae)YU Sheng-Xiang^{1,2}, XU Wei-Bin³, CHEN Yi-Lin¹, QIN Hai-Ning^{1*}

(1. State Key Laboratory of Systematic and Evolutionary Botany, Institute of Botany, Chinese Academy of Sciences, Beijing 100093, China; 2. Graduate School of Chinese Academy of Sciences, Beijing 100049, China; 3. Guangxi Institute of Botany, Guangxi Zhuang Autonomous Region and the Chinese Academy of Sciences, Guilin 541006, China)

Abstract: The floral morphology of *Impatiens hainanensis* and *I. morsei* are described and supplemented, based on plenty of specimens with flowers and field works, and especially according to the type specimens of this two species.**Key words:** Balsaminaceae; floral morphology; *Impatiens hainanensis*; *I. morsei*; supplementary description

作者在做中国凤仙花属植物分类修订的过程中, 查阅了海南凤仙花 (*Impatiens hainanensis*) (陈艺林, 1987) 和龙州凤仙花 (*I. morsei*) (Hooker, 1908) 的模式标本, 发现两者的侧生萼片均为 4 枚, 即除外面的 2 枚侧生萼片外, 在里面还有 2 枚侧生萼片 (inner lateral sepals), 这个重要的花部形态特征, 在花的原始描述中均被前人忽略了。通过野外实地考察及室内标本馆 (PE, IBSC, IBK, GXMI) 的标本查阅也证实了这一点, 即两者均的确存在里面的 2 枚侧生萼片。鉴于这个形态特征在种间界定上具有重要的分类学意义, 为了使这两种植物的形态特征更完备, 特将以上两种花的形态补充描述如下:

海南凤仙花 (广西植物)

Impatiens hainanensis Y. L. Chen in Guihaia 7(1): 9, fig. 1. 1987; Y. L. Chen in Fl. Reip. Pop. Sin. 47(2): 39. 2001.

Descr. fl. add. : Flores majores, roseus, 2.5-3 cm expansi. Sepala 5, lateral 4, 2 exteriora membranacea, flavo-viridia, suborbicularia vel late ovato-rotundata, 11-12 mm diametro, integra, apice apiculata, nervulis circ 12, parce purpureomaculata; 2 interiora obovata, apice breviter concava, subbilobata, 1-1.5 mm longa.

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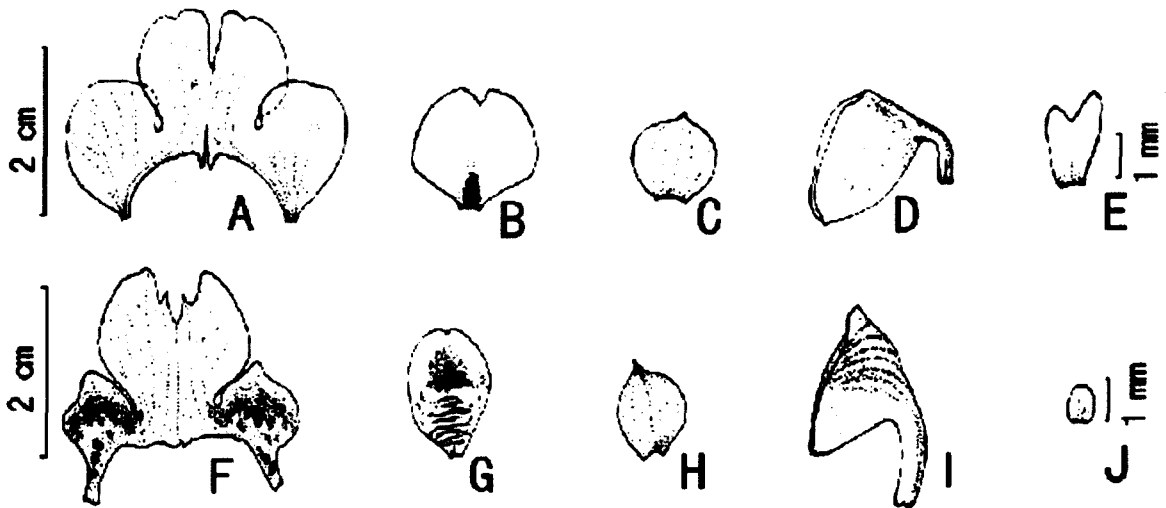
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作者简介: 于胜祥(1977-), 男, 山东沂南人, 博士研究生, 研究方向为植物分类学。

* 通讯作者 (Author for correspondence, E-mail: hainingqin@ibcas.ac.cn)

Sepalum inferius breviter saccatum, 15—20 mm longum, ore asendente, anteriore acuto, 15 mm lato, basi in calcar 5—6 mm longum incurvum, apice bilobum subitico constrictum. Petalum dorsale leviter cucullatum, obovato-ellipticum, 15—16 mm longum, circ 8 mm latum apice emarginatum, costa dorso incrassata, cristata, crista sub-semi-orbicularia, apice incurvatim apiculata. Petala lateralia connata breviter stipitata, 20—22 mm longa, biloba, inferiora suborbicularis, superiora paullo longiora, breviter late dolabriformis, 10—12 mm longa, circ 10 mm lata, apice undulata, ad auriculam dorsalem in laminam connata (Plate I; A-E).

花部形态补充描述:花较大,粉红色,长达 2.5—3 cm。侧生萼片 4,外面的侧生萼片淡黄绿色,近圆或宽卵圆形,长 11—12 mm,全缘,顶端具小尖,约有 12 条细脉,具疏紫色斑点;里面的侧生萼片,倒卵形,顶端微凹,近二裂,长 1—1.5 mm;唇瓣短囊状,长 15—20 mm,口部斜上,宽 15 mm,先端尖,基部急收缩成长 5—6 mm,上弯顶端 2 裂的距。旗瓣微兜形,倒卵状椭圆形,长 15—16 mm,宽约 8 mm,顶端微凹,背面上肋增厚,具明显鸡冠状突起,冠突近半圆形,顶端有内弯的小尖。翼瓣具柄,长 20—22 mm,2 裂,基部裂片近圆形,上部裂片较长,短宽斧形,长 10—12 mm,宽约 10 mm,顶端微波状,背面小耳合生。



图版 I A-E. 海南凤仙花 A. 联合的花瓣(翼瓣); B. 后面的花(旗瓣); C. 外面的侧生萼片; D. 下面的萼片(唇瓣); E. 里面的侧生萼片。F-J. 龙州凤仙花 F. 联合的花瓣(翼瓣); G. 后面的花瓣(旗瓣); H. 外面的侧生萼片; I. 下面的萼片(唇瓣); J. 里面的侧生萼片。

Plate I A-E. *Impatiens hainanensis* A. united petals (alae); B. dorsal petal (standard); C. outer lateral sepal; D. lower sepal (labellum); E. inner lateral sepal. F-J. *Impatiens morsei* F. united petals (alae); G. dorsal petal (standard); H. outer lateral sepal; I. lower sepal (labellum); J. inner lateral sepal.

China. Hainan (海南): Ledong (乐东), Baoen (报恩), S. K. Lau 27038 (holotype, IBSC!), S. K. Lau 27493 (IBSC).

After a careful examination on the two specimens, we found both have 4 lateral sepals, so the 2 inner lateral sepals in the original description is missed by previous authors.

龙州凤仙花 (中国植物志)

Impatiens morsei Hook. f. in Hooker's Icon. Pl. 9.

t. 2874. 1908; et in Repert. Sp. nov. 8 : 341. 1910; Y. L. Chen in Fl. Reip. Pop. Sin. 47(2): 38. 2001.

Descr. fl. add. : Flores ad 3 cm expansi, albi, rosei vel purpurei, intus aurantiaco-punctati. Sepala 4, 2 exteriora oblique orbicularia, 8 mm lata, multinervia, crassiuscula, costa valide extrenusa; 2 interiora lato-ovata, 0.5—1 mm longa. Petalum dorsale orbiculare, apice bilobum, costa dorso medio incrassata. Petala lateralia connata 3 cm, longa; inferiora falcitum flabelliformes; distales oblonga in laminam bilobam connata; auricula dorsalis inconspicua. Sepalum inferiora limbus 12 mm

longus, cymbiformis vel infundibularis, in calcar validum incurvum limbo brevius attenuatum, ore horizontali acuto(Plate I: F-J).

花部形态补充描述:花展开,长达 2.5—3 cm,白色,粉红色或紫色,内面具橙色斑点。侧生萼片 4,外面的侧生萼片绿色,斜圆形,长 8—15 mm,质较厚,具多条脉,中脉明显,顶端具小尖;里面的侧生萼片,阔卵形,长 0.5—1 mm。旗瓣圆形,宽 10—15 mm,顶端二裂,背面中肋增厚;翼瓣具柄,长约 3 cm,2 裂,基部裂片镰刀状扇形,上部裂片长圆形,合生成 2 裂的片状,背部具不明显的小耳。唇瓣檐部舟状或漏斗状,长 12 mm,口部平展,宽 15 mm,基部急狭成内弯短于檐部的短距。

China. Guangxi(广西): Longzhou(龙州), H. B. Morse 308(holotype, K!); S. X. Yu 3087(PE); Guangxi Exped. 3265 (IBK); D. Fang & K. J. Yan 76377 (GXMI); Napo(那坡), H. N. Qin *et al.* 2303(PE).

In the original description this species was recognized only having 2 lateral sepals. Recently, during checking the type specimen borrowed from KEW, we found it have 4 lateral sepals, and further studying not only in the herbarium but also in the field found it is true with 4 lateral sepals.

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