Shinobu AKIYAMA: *Impatiens prainii* (*Balsaminaceae*), a New Record for the Flora of Nepal and the Flora of Myanmar

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**Summary:** *Impatiens prainii* Hook. f. (*Balsaminaceae*) is newly recorded from Nepal and Myanmar. It is characterized in having linear-lanceolate to linear-elliptic leaves with crenate margins, few-flowered racemes, reddish purple (pinkish), long, narrow, asymmetric flowers, 2 or 4 lateral sepals (upper pair minute), navicular lower sepals tapering into a straight or slightly downturned, or slightly upwardly curved spur, and a linear-elliptic (loriform) lower lobe of the lateral united petals. *Impatiens mallae* S. Akiyama & al. from Nepal and *I. taronensis* Hand.-Mazz. from China are newly regarded as synonyms of it. *Impatiens prainii* Hook. f. is lectotypified here.


*Impatiens prainii* Hook. f., described by Hooker (1905) from Sikkim, is characterized in having linear-lanceolate leaves, few-flowered racemes, 2 eglandular lateral sepals, and a loriform lower lobe of the lateral united petals. Later it was recorded from Bhutan and Sikkim (Grey-Wilson 1991), but not recorded in Nepal (Hara 1979, Press et al. 2000), Myanmar (Kress et al. 2003), or China (Chen et al. 2007).

During a recent study of Himalayan *Impatiens* I examined the type specimens of *I. prainii* (Figs. 1, 2a–e). It is similar to *I. mallae* S. Akiyama & al. and both species have few-flowered raceme type inflorescences (type 1b in Akiyama and Ohba 2000).

*Impatiens mallae* was described from a collection made by M. Suzuki et al. from East Nepal (Akiyama et al. 1992). It is well characterized by the pinkish, long, narrow flowers and slender tubular (navicular) lower sepal with a straight or slightly downturned spur with a warty lower surface and linear-elliptic leaves with crenate margins (Fig. 2f–k).

Moreover I found specimens similar to *I. prainii* and *I. mallae* collected in Nepal and Myanmar. A specimen collected by D. G. Long et al. in Nepal in 1991 (E) was annotated by Watson ‘*Impatiens prainii* Hook. f. Not in E. P. N. - new to Nepal?’ in 1991. Another specimen collected by Grey-Wilson et al. in Nepal in 1981 (K) was annotated by Grey-Wilson [?] ‘*Impatiens prainii* Hk. f. sp. nov. var. napalensis.’ But I have been unable to find the place of publication for these report. In Myanmar Kingdon-Ward collected specimens in Mungku Hkyet (now Mogok, Pyin Oo Lwin District, Mandalay Region) (Fig. 3) in Imaw Bum (just near the border between Myanmar and China), and in Tama Bum (also near the border between Myanmar and China).

Hooker (1905) did not mention the shape of the lower sepal of *I. prainii*, but he left dissected flowers and sketches on the sheets of the lectotype (Fig. 1) and the syntype. The lower sepal is navicular, tapering into a straight or slightly upwardly curved spur (Figs. 1, 2a).

According to Hooker (1905) *I. prainii* has two lateral sepals. The dissected flowers on the lectotype and the syntype show two lateral sepals in one pair per flower (Figs. 1, 2b). In contrast, *I. mallae* has four lateral sepals in 2 pairs; the lower pair larger, ovate, 2.5–3 mm long, but the upper pair minute, membranaceous, ca. 1 mm

秋山 忍：ネパールとミャンマー新産の*Impatiens prainii*（ツリフネソウ科）
ヒマラヤから中国西南部にかけての地域のツリフネソウ科植物の研究で、これまでネパールおよびミャンマーに記録のなかった*Impatiens prainii* Hook. f. とネパールから記載された*I. mallae* S. Akiyama & al. に類似の標本を見い出した。それらの標本と*Impatiens prainii* のタイプ標本および*I. mallae* のタイプ標本との比較を行った。さらに、中国雲南省西北部のミャンマーとの国境付近で記載され、雲南省西北部のみ分布が知られている*I. taronensis* Hand.-Mazz. の花の形態を調べた。その結果、*I. mallae* と*I. taronensis* は*I. prainii* と同種であることが明らかになった。従って、*I. prainii* は、ネパール、シッキム、ブータン、ミャンマー、中国雲南省西北部に分布することが判明した。また、*Impatiens prainii* のレクトタイプ選定を行った。

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