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缅甸树萝卜和深裂树萝卜，老挝杜鹃花科植物二新记录种

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摘要: 报道了老挝杜鹃花科树萝卜属 2 新记录种: 缅甸树萝卜(*Agapetes megacarpa* W. W. Smith)和深裂树萝卜(*A. lobbii* C. B. Clarke), 前者分布于老挝琅勃拉邦省(Luang Prabang Province), 后者分布于万象省(Vientiane Province), 凭证标本保存在俄罗斯科马洛夫植物研究院标本馆(LE)。提供了每种的凭证标本、分布信息和彩色照片, 分别利用繁殖器官性状和营养器官性状编制了老挝 3 种树萝卜属植物的检索表。

关键词: 杜鹃花科; 树萝卜属; 新记录; 老挝; 植物多样性

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Agapetes megacarpa W. W. Smith and *A. lobbii* C. B. Clarke (Ericaceae), Two New Records from Laos

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Abstract: Two new records, *Agapetes megacarpa* W. W. Smith and *A. lobbii* C. B. Clarke (Ericaceae), were reported from Luang Prabang and Vientiane provinces of Laos, respectively. The vouchers were housed in Herbarium of the Komarov Botanical Institute (LE). The information of specimen, distribution and color photos for each species were provided, and two keys to all the three species reported in Laos based on fertile and sterile material are additionally given.

Key words: Ericaceae; *Agapetes*; New record; Laos; Plant diversity

The genus *Agapetes* D. Don ex G. Don (Ericaceae, Vaccinioideae) comprises ca. 100 species distributed from the Himalayan region through south China and Indochina to southeast Asia^[1]. In Laos,

only one species, i.e. *Agapetes hosseana* Diels, was recorded previously^[2-4]. In the course of examining specimens of *Agapetes* collected from Laos housed in Herbarium of the Komarov Botanical Institute

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(LE), we found that except for *A. hosseana*, other two *Agapetes* species, i.e. *A. megacarpa* W. W. Smith and *A. lobbii* C. B. Clarke are also distributed in Laos, which represent new records for the flora of Laos. Thus, we reported the two new records here by providing the information of examined specimens and distribution and color photos for each species.

1 *Agapetes megacarpa*

W. W. Smith, Notes Roy. Bot. Gard. Edinburgh **11**: 194. 1919; Airy Shaw, Kew Bull. **1958**(3): 472. 1959; S. H. Huang in R. C. Fang, Fl. Reipubl. Popularis Sin. **57**(3): 172. 1991; R. C. Fang & P. F. Stevens in Z. Y. Wu & P. H. Raven, Fl. China **14**: 507.

2005; D. Banik & M. Sanjappa, J. Jap. Bot. **83**: 100, f. 4. 2008; S. Watthana, Thai J. Bot. **4**(1): 109. 2012; S. Watthana, Fl. Thailand **13**: 109. 2015. Type: China, Yunnan, divide between Shweli-Salween, 2 133 m, April 1917, G. Forrest 13698 (holotype E!, isotype K!). Fig. 1: A–C; Fig. 2: A

= *Agapetes burmanica* W. E. Evans, Notes Roy. Bot. Gard. Edinburgh **15**: 199, t. 219. 1927; Airy Shaw, Bull. Misc. Inform. Kew **1935**: 27. 1935, Kew Bull. **1948**: 84. 1948, ibid. **1958**(3): 470. 1959; S. H. Huang in R. C. Fang, Fl. Reipubl. Popularis Sin. **57**(3): 174. t. **42**: 1–4. 1991; R. C. Fang & P. F. Stevens in Z. Y. Wu & P. H. Raven, Fl. China **14**: 507. 2005. Type: Myanmar, Kachin State, hills around Htawgaw, elev.



Fig. 1 *Agapetes megacarpa* W. W. Smith (A, B, C) and *A. lobbii* C. B. Clarke (D, E). A: Habit; B: Inflorescence; C: Opened flower, show stamens and style; D: Flower front view, show corolla lobes; E: Part of inflorescence.



Fig. 2 Holotypes. A: *Agapetes megacarpa* (G. Forrest 13698, E); B: *A. lobbii* (left part) (T. Lobb s.n., E). (Downloaded from JSTOR website)

2 133 m, September 1924, G. Forrest 24981 (holotype E!).

Specimens examined: Laos. Luang Prabang Province: Pon Xay District, Houay Man Village, Phou Tham Keo Mountain, around point 19°57'44.2" N, 102°25'45.8" E, elev. 500–650 m, 4 April 2017, L. Averyanov et al. LA-VN 2066 (LE, LE 01068352, LE 01073017-photo); Pon Xay District, between Houay Man and Nam Bo Villages, Phou Hua Ben Toc Mountain, around point 19°57'33.1" N, 102°25'25.8" E, elev. 500–650 m, 5 April 2017, L. Averyanov et al. LA-VN 2124 (LE, LE 01068354, LE 01073016-photo); Pon Xay District, along the way to Bane Phou Souong village, Pha Hiua Bin Toc Mountain, around point 19°57'37.0" N 102°25'03.0" E, elev. 600–850 m, 5 April 2017, L. Averyanov et al. LA-VN 2152 (LE, LE 01068353, LE 01073020-photos).

Distribution: China, Laos, Thailand, Myanmar and India^[1,4–7].

Notes: The type specimen of *A. megacarpa* was collected by G. Forrest in 1917 from Yunnan, China, only has fruits. He noted that the flower was creamy yellow with a question mark. However, the plants from Laos and other countries all have red to pinkish-red flowers^[1,5–7].

2 *Agapetes lobbii*

C. B. Clarke in Hook. f., *Fl. Brit. India*. **3**: 448. 1881; Airy Shaw, *Bull. Misc. Inform. Kew* **1935**: 37. 1935; Sleumer, *Dansk Bot. Ark.* **23**(3): 303. 1966; S. H. Huang in R. C. Fang, *Fl. Reipubl. Popularis Sin.* **57**(3): 170. 1991; R. C. Fang & P. F. Stevens in Z. Y. Wu & P. H. Raven, *Fl. China*. **14**: 506. 2005; S. Wattana, *Thai J. Bot.* **4**(1): 105. 2012; T. T. H. Nguyen et al., *J. Trop. Subtrop. Bot.* **22**(2): 144, figs. 1–2, 2014; S. Wattana, *Fl. Thailand* **13**: 105. 2015. Type: Myanmar. Mon State, Moulmein [Mawlamyine], Thung-gyne, elev. 1 524 m, 1857, T. Lobb s.n. (holo-

type K!, isotypes BM!, K!). Fig. 1: D–E; Fig. 2: B.

Specimens examined: Laos. Vientiane Province: Vang Vieng District, Nam Pe Village, about 12 km to the West of Vang Vieng Town, around point 18°58' 41.0" N, 102°18'54.1" E, elev. 500–1 000 m, 18 March 2013, N. T. Hiep et al. LA-VN 557a (LE, LE 01073015-photo).

Distribution: China, Laos, Vietnam, Thailand,

Myanmar and India^[1,4–6,8].

Notes: The specimen from Laos is nearly identical to the type specimens from Myanmar, except the pedicels which are a little shorter.

So far, there are a total of three species of *Agapetes* recorded in Laos. To identify them, two keys based on fertile and sterile material respectively were provided below.

Key to the species of *Agapetes* from Laos (based on fertile material)

1. Inflorescence racemose; pedicel shorter than inflorescence rachis; corolla half divided, lobes linear-triangular *A. lobbii*
1. Flowers solitary or fasciculate, or arranged into a corymbose-racemose inflorescence; pedicel longer than inflorescence rachis; corolla shortly divided, lobes triangular or narrowly triangular 2
2. Flowers solitary or fasciculate with 2–4 flowers; corolla without transverse zig-zag bands; filaments much longer than anthers *A. hosseana*
2. Flowers arranged into a corymbose-racemose inflorescence; corolla with transverse zig-zag bands; filaments much shorter than anthers *A. megacarpa*

Key to the species of *Agapetes* from Laos (based on sterile material)

1. Stems up to 1 m long; young branches with dark brown setae, glabrescent; leaf blade shorter than 3.5 cm, apex retuse, obtuse or mucronate *A. hosseana*
1. Stems > 1 m long; branches glabrous; leaf blade longer than 4 cm, apex acute, shortly acuminate or caudate 2
2. Leaves usually pseudovericillate; leaf blade lanceolate or oblong-lanceolate, base obtuse or rounded, apex acute or shortly acuminate *A. megacarpa*
2. Leaves spirally alternate; leaf blade elliptic, elliptic-oblong to elliptic-lanceolate, base cuneate to attenuate or obtuse, apex acuminate to caudate *A. lobbii*

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