

Chamaegastrodia, a Newly Recorded Genus of

Orchidaceae from Hainan

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Abstract: *Chamaegastrodia*, a newly recorded genus of Orchidaceae in Hainan Province represented by *Chamaegastrodia poilanei* (Gagnep.) Seidenf. et. A. N. Rao is reported. Brief morphological descriptions, photos and distribution map of the species are provided.

Key words: *Chamaegastrodia*; *Chamaegastrodia poilanei*; Orchidaceae; newly recorded; Hainan

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海南兰科一新记录属——叠鞘兰属

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摘要: 报道了海南岛兰科一新记录属——叠鞘兰属, 即齿爪叠鞘兰 *Chamaegastrodia poilanei* (Gagnep.) Seidenf. et.

A. N. Rao, 并提供简扼的描述、照片及分布图。

关键词: 叠鞘兰属; 齿爪叠鞘兰; 兰科; 新记录; 海南

Chamaegastrodia Makino et F. Maekawa is a genus of about 5 species^[1,2], distributed from India through China to Japan, with only a species extending to Thailand and Vietnam. The genus is easily distinguishable by its saprophytic characteristic, the reduced-to-hyaline-scale leaves and non-resupinate flowers. 4 species were reported from China, recorded from Xizang, Yunnan, Sichuan, Hubei and Guangxi before^[2,3].

During a plant survey in Hainan Province, we collected a saprophytic orchid. After close morphological study, literature researches^[1-2] and examination of pertinent specimens, we confirm that it is *Chamaegastrodia poilanei* (Gagnep.) Seidenf. et. A. N. Rao, a newly recorded orchid of Hainan Province. In addition, the genus *Chamaegastrodia* is recorded from Hainan for the first time.

Chamaegastrodia poilanei (Gagnep.) Seidenf. et.

A. N. Rao in Nord. J. Bot. 14 (3): 297, fig. 4&5. 1994; Lang, Fl. Reip. Pop. Sin. 17: 187-192. 1999. —*Evardia poilanei* Gagnep. in Bull. Mus. Hist. Nat. Paris ser. 2, 4 (5): 596. 1932; Seidenf. in Dansk Bot. Ark. 32 (2): 59, fig. 33. 1978 et in Opera Bot. 114: 34. 1992. (fig. 1).



A: a plant in the field (with buds); B: a raceme

Fig. 1 *Chamaegastrodia poilanei* (Gagnep.) Seidenf. et. A. N. Rao

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Herbs saprophytic, ca. 12 cm tall. Roots yellowish white, coralloid, stout, fleshy with small white scattered warts. Stem brownish red, with sheath-like scales. Leaves reduced to hyaline scales, pale brownish red. Raceme terminal, 5 to more than 10-flowered. Flowers non-resupinate, brownish red with yellow labellum; Labellum somewhat Y-shaped with apical part conspicuously incised-erose at margin, claw 8 mm long, margin incised-crenulate, hypochil slightly dilated, concave-saccate. Fruits not seen.

Distribution: Thailand, Vietnam, Japan and China. China: Xizang: Motuo (Tibet Comp. Exp. 74-4455 PE!, KUN!); Yunnan: Hekou (LIU Wei-xin 622 PE!); Guangxi: Yuanbao Mountain and Yinding

Mountain (specimens not seen); Hainan: Lingshui, Baishuiling, under evergreen broad-leaved forest, by the side of valley, wet, 700 m, 2006-07-26, HU Aiqun et al. 140 (IBSC), new record of Hainan Province.

The population in Baishuiling is very small. Being saprophytic plants, the growth season of them is very short. In addition, the color of the plants—brownish red—is very close to the color of the litter. If not coming across their flowering time, it is not easy to find them. From the disjunctive distribution of the known collections of *Chamaegastrodia poilanei* (fig. 2), we conclude that more populations would be found among the widest disjunctive areas in the future.

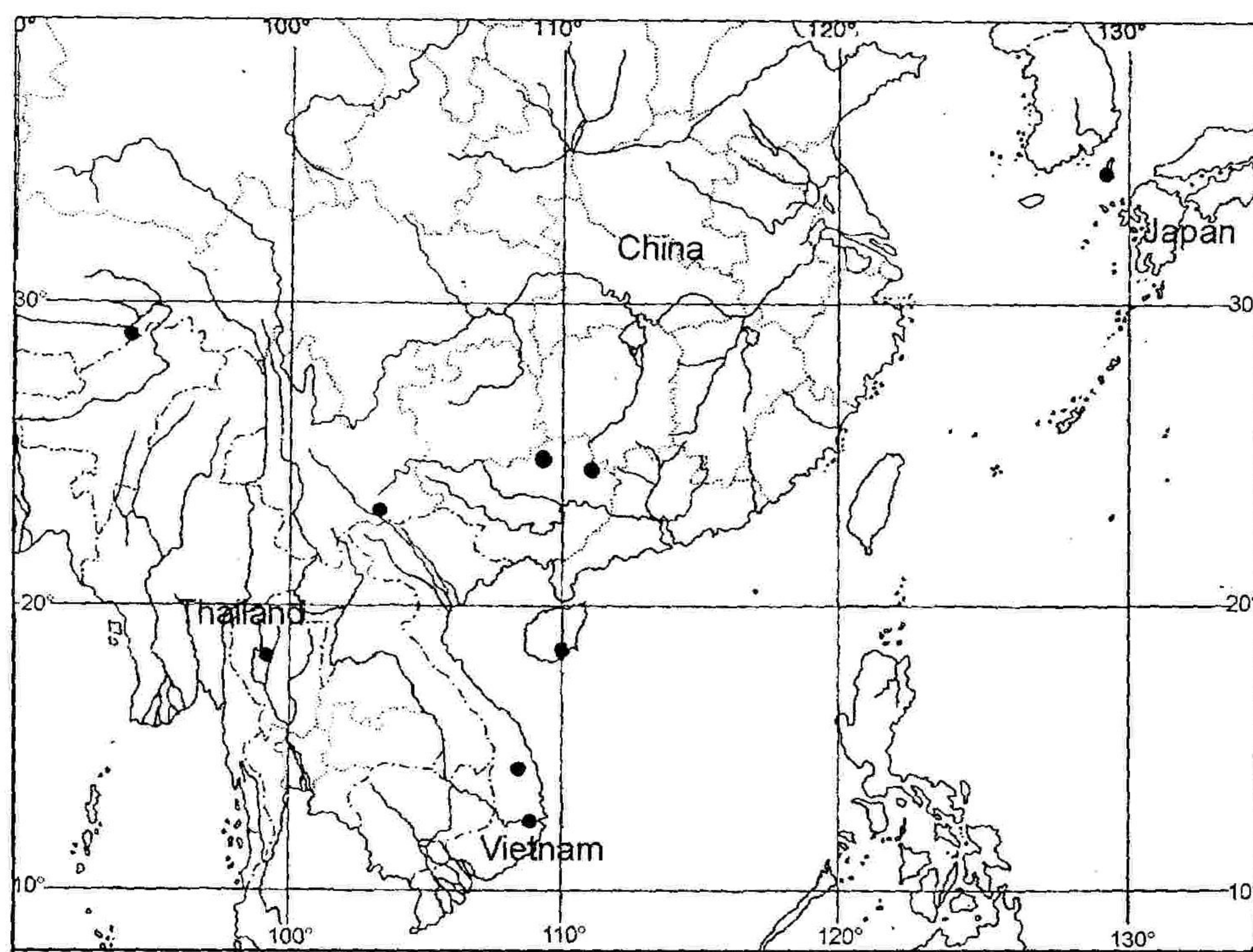


Fig. 2 Distribution of the known collections of *Chamaegastrodia poilanei* (Gagnep.) Seidenf. et. A. N. Rao

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References:

- [1] SEIDENFADEN G. The genus *Chamaegastrodia* (Orchidaceae) [J]. Nord J Bot, 1994, 14: 293-301.
- [2] LANG Kai-yong. Flora Republicae Popularis Sinicae: Vol. 17 [M]. Beijing: Science Press, 1999: 187-192.
- [3] LIU Yan. New record genus of Orchidaceae in Guangxi [M] // Botanical Society of China. Abstracts of the papers presented at the 70th anniversary of the Botanical Society of China. Beijing: Higher Education Press, 2003. 38-39. (in Chinese)
- [4] AVERYANOV L V, AVERYANOVA A L. Updated checklist of the Orchids of Vietnam [M]. Hanoi: Vietnam National University Publishing House, 2003: 1-20.

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