

Short Note

Ornithochilus yingjiangensis Z.H. Tsi (Orchidaceae), A New Record for Thailand

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Ornithochilus yingjiangensis Z.H. Tsi, previously only known from China (Yunnan), is reported from Doi Phahom Pok National Park, Chiang Mai Province, Thailand. The species is described and illustrated.

Ornithochilus (Lindl.) Wall. ex Benth. is a small genus comprised of only three species, distributed from the NW Himalayas through China to SE Asia¹. In Thailand only *Ornithochilus difformis* (Wall. ex Lindl.) Schltr. has been recorded throughout the country². During an expedition at Doi Phahom Pok National Park, Chiang Mai Province in June 2006, a second species, *Ornithochilus yingjiangensis* Z.H. Tsi was found and described as follows.

The treatment of orchid specimens is based on the examination of specimens from Thailand at the following herbaria; BK, BKF, QBG and Biological Department, Naresuan University, Phitsanulok (abbreviated as PNU in this paper). Comparative morphology was used to delimit species in all cases. Information on flowers and

vegetative morphology were identified from the taxonomic key of the Chinese Flora³.

Ornithochilus yingjiangensis Z.H. Tsi
Figure 1

Ornithochilus yingjiangensis Z.H. Tsi, Acta Phytotax. Sin. 22(6): 479, fig. 2 (12–14). 1984; Seidenf., Opera Bot. 95: 43. fig. 22b. 1988. - Type: China, Yunnan, Yingjiang Xian, alt. 1,350 m, 30 July 1981, Z. H. Tsi 168 (PE). Fig. 1

Monopodial epiphytic orchid (Fig. 1A), bearing 2–4(–6) leaves; stem 2–4 cm by 6–10 mm, roots long-cylindric 10–70 cm by 3–4 mm. *Leaves* obliquely oblong, elliptic-oblong or oblanceolate-oblong, 10–18 cm by 2.7–4.5 cm, apex acute and curved, glabrous, upper surface green, lower pale green. *Inflorescences* 1–2 axillary racemes or a panicle with a basal branch, pendulous, 14–30 cm long; rachis 9–20 cm long, bearing 17–40 flowered; floral bracts triangulate, 2.2–2.5 mm by 1.8–2 mm, apex acute, persistent; pedicel and ovary 1.2–1.4 cm long, glabrous.

Flowers (Fig. 1B) resupinate, 1.3–1.5 cm across. *Dorsal sepal* (Fig. 1D) ovate or

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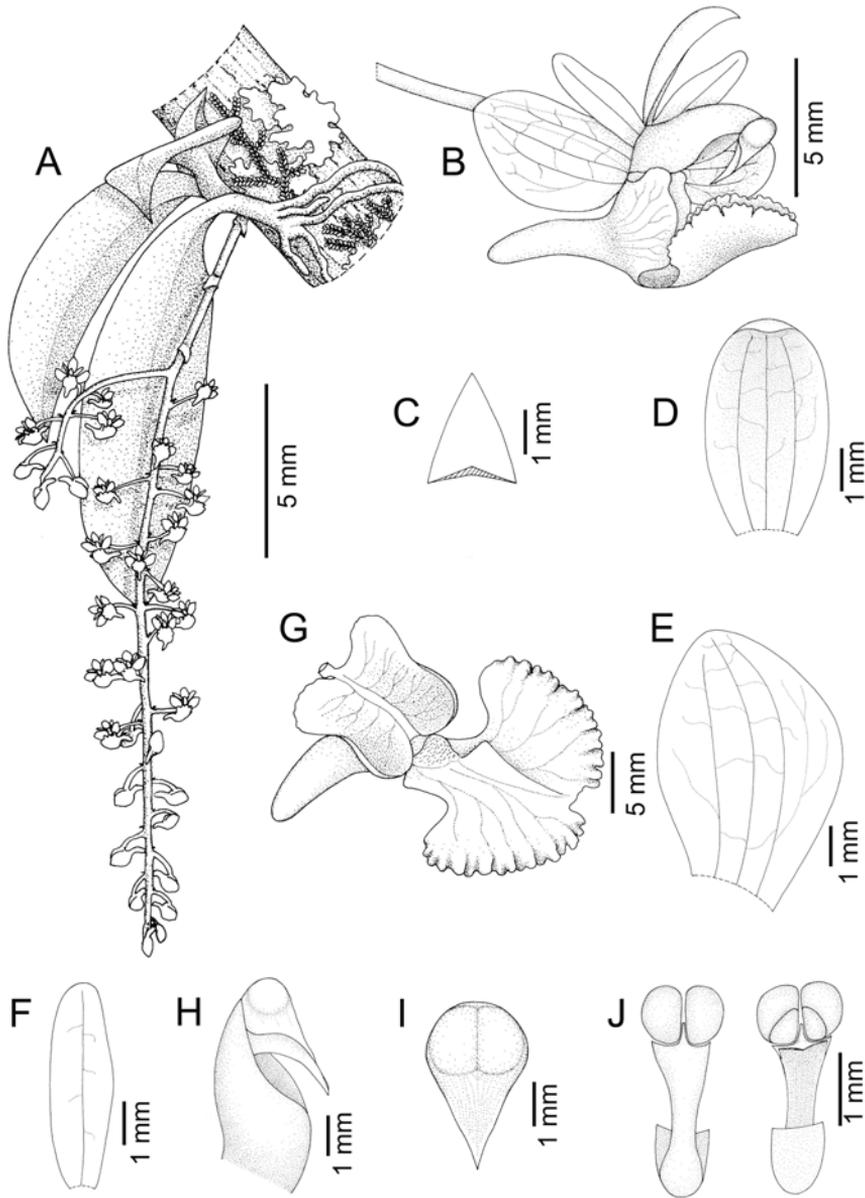


FIGURE 1. *Ornithochilus yingjiangensis* Z.H.Tsi: **A.** habit; **B.** flower, side view showing column and lip with tubular spur; **C.** floral bract; **D.** dorsal sepal; **E.** lateral sepal; **F.** petal; **G.** lip; **H.** column, lateral view; **I.** operculum, dorsal view; **J.** pollinia stipe and viscidium, dorsal (left) and ventral (right) views (from Damapong 52, drawn by S. Damapong).

elliptic-ovate, 6–6.3 mm by 3.5–3.9 mm, apex obtuse and incurved, yellowish green with four purplish brown stripes, veins 3. *Lateral sepal* (Fig. 1E) obliquely ovate,

6.8–7 mm by 4.8–5.1 mm, apex obtuse, yellowish green with four purplish brown stripes, veins 3. *Petal* (Fig. 1F) oblong, 4.8–5.3 mm by 1.7–1.9 mm, apex obtuse,

yellowish green with two purplish brown stripes, veins 1. *Lip* (Fig. 1G) 3-lobed; side lobes auriculate, margin irregular suberect; midlobe reniform-cordate, 6–6.2 mm by 7–7.3 mm, apex broadly emarginate, margin not lobed but crenate-undulate, incurved, with a pilose triangular callus at the base of the epichile connected to a lateral compressed longitudinal keel at the middle of epichile; spur subcylindrical, 4.3–4.7 mm by 1.7–1.9 mm, substraight. *Column* (Fig. 1H) yellowish green, 4.5–5 mm by 2.5–2.8 mm, glabrous; rostellum narrowly elongate, 2–2.2 mm by 0.7–1 mm, bifid at apex; stigma 2.5 mm by 2.5 mm, deeply concave. *Operculum* (Fig. 1I) triangulate 2–2.3 mm by 1.4–1.5 mm, apex acuminate; pollinia waxy, 4, subglobose, unequal, arranged in two pairs, larger half 0.8–0.9 mm by 0.6–0.7 mm, smaller half 0.6 mm by 0.4 mm; *Stipe* (Fig. 1J) suboblong, expanded at the apex, 2 mm by 0.9 mm; viscidium subsquare, 1 mm by 0.6 mm. *Capsule* oblong-cylindrical, 2.8–3.5 cm by 3–4 mm; stalk 6–10 mm long.

Thailand.- NORTHERN: Chiang Mai [Doi Phahom Pok, Fang District, alt. 1,880 m, 30 June 2006, 20° 03' 23.4" N, 99° 08' 18.5" E, *Damapong 52*, (BKF, PNU, QBG); 20 October 2006, *Damapong 103*, (QBG); alt. 1,870 m, 12 June 2007, 20° 04' 01.5" N, 99° 08' 06.1" E, *Damapong 190*, (BKF).]

Distribution.- China (Yunnan).

Ecology.- Often grows on the upper parts of branches (with mosses) of *Glochidion* sp. in montane evergreen forest, 1,800–1,900 masl. Flowering: June to July. Fruiting: October to November.

Vernacular name.- Ueang Pak Nok (named by the authors).

Note.- *Ornithochilus yingjiangensis* Z. H. Tsi differs from the closely related species *O. difformis* (Wall. ex Lindl.) Schltr. in the crenate-undulate margin of mid lobe, glabrous columns and substraight spurs. Key to the species can be seen in Seidenfaden (1988).

ACKNOWLEDGEMENTS

We would like to thank the curators of the following herbaria for making specimens available for this study: BK, BKF and QBG. We also thank Dr. Weerachai Nanakorn, Dr. Paul Wilkin and Dr. Piyakaset Suksathan for valuable advice and the staff of Doi Phahom Pok National Park for assistance in the field, especially Mr. Chongklai Voraphongston, Mr. Sit Wimala and Mr. Akalak Kunsorn. This work was supported by the TRF/BIOTEC Special Program for Biodiversity Research and Training Grant, BRT T_150010.

LITERATURE CITED

1. Schuiteman, A. and Vogel, E. F. de. 2000. Orchid Genera of Thailand, Laos, Cambodia, and Vietnam. National Herbarium Nederland, Universiteit Leiden branch, The Netherlands, 118 pp.
2. Seidenfaden, G. 1988. Orchid genera in Thailand XIV Fifty-nine vandooid genera. Opera Botanica, 95: 42-44.
3. Tsi, Z. H. 1984. On Chinese *Sarcoglyphis*, *Ornithochilus*, *Choloschista* and *Epigeneium*. Acta Phytotaxonomica Sinica 22, 6: 476-485.

Received: 1 July 2008

Accepted: 23 August 2008