

**Two new species of the genus *Gibberifera* Obraztsov (Lepidoptera, Tortricidae),
with a checklist of the species in China**

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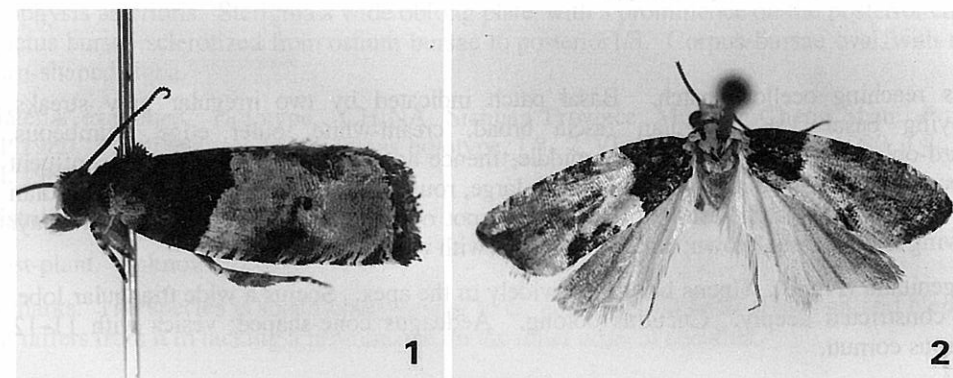
Abstract Two new species of *Gibberifera* are described from China: *G. qingchengensis* and *G. yadongensis*. Adults and genitalia are illustrated. Chinese species of *Gibberifera* are listed.

The genus *Gibberifera* consists of species uniform in maculations and coloration of forewing, and ten species have hitherto been known from the Palearctic and Oriental regions (Kawabe & Nasu, 1994). Of these species six ones have been recorded from China (Kuznetsov, 1971; Liu *et al.*, 1981; Kawabe & Nasu, 1994). We researched the Chinese materials deposited in the Institute of Zoology, Academia Sinica, Beijing, China (IZAS), and have recognized two new species. In the following lines we will describe the new species and give a checklist of the Chinese species. All types are preserved in IZAS.

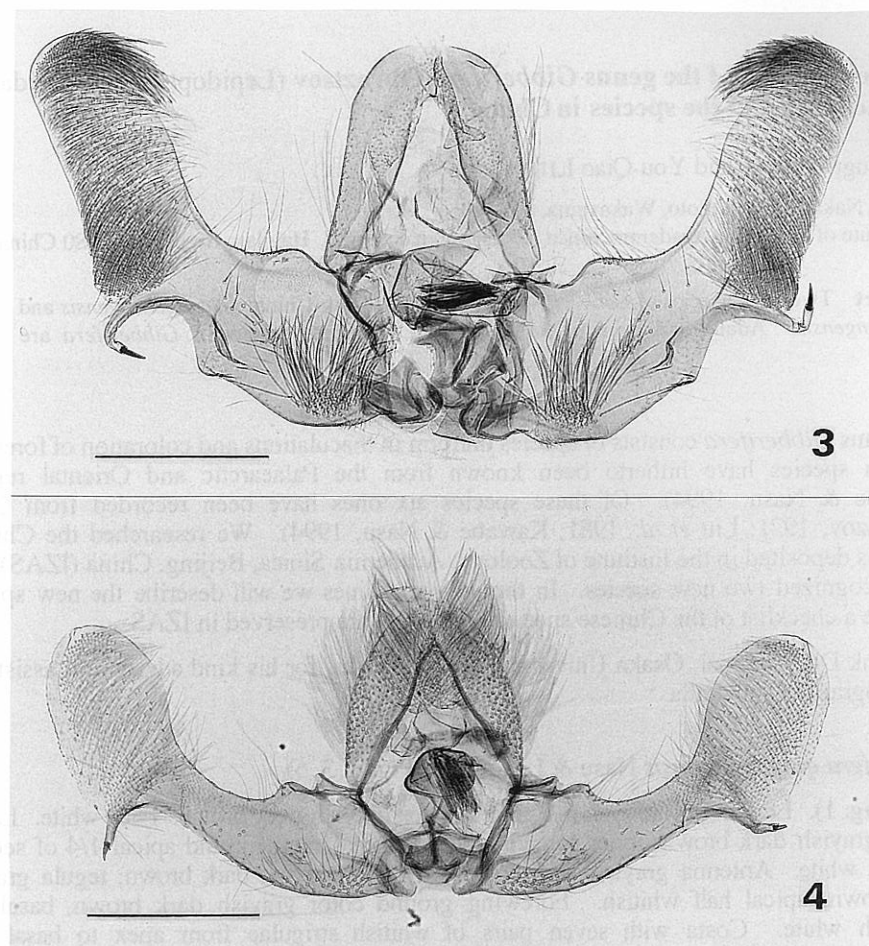
We thank Dr F. Komai, Osaka University of Arts, Osaka, for his kind advice and assistance in photographing genitalia.

***Gibberifera qingchengensis* Nasu & Liu, n. sp. (Figs 1, 3, 5)**

Male (Fig. 1). Length of forewing 6-7 mm. Vertex grayish dark brown. Face white. Labial palpus grayish dark brown, inner surface white; terminal segment and apical 1/4 of second segment white. Antenna grayish dark brown. Thorax grayish dark brown; tegula grayish dark brown, apical half whitish. Forewing ground color grayish dark brown, basal 1/8 brownish white. Costa with seven pairs of whitish strigulae from apex to basal 1/4. Plumbeous oblique streaks originating from the first five pairs of the strigulae; the first four



Figs 1-2. Adults. 1. *Gibberifera qingchengensis* n. sp., ♂, holotype. 2. *G. yadongensis* n. sp., ♂, holotype.

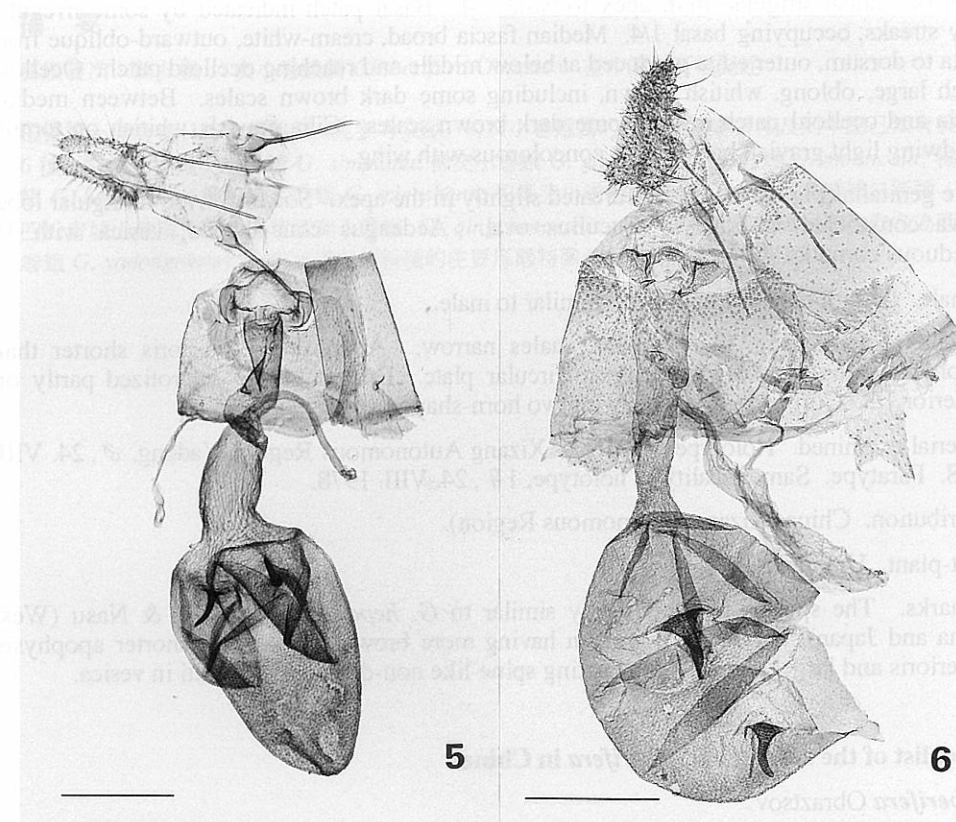


Figs 3-4. Male genitalia (scales: 0.5 mm). 3. *Gibberifera qingchengensis* n. sp., holotype.
4. *G. yadongensis* n. sp., holotype.

streaks reaching ocelloid patch. Basal patch indicated by two irregular gray streaks, occupying basal 1/4. Median fascia broad, cream-white, outer edge plumbeous, outward-oblique from costa to below middle, thence angled inwards to dorsum, confluent with ocelloid patch medially. Ocelloid patch large, round, brownish white. Between median fascia and ocelloid patch resting a dark brown spot of ground color. Cilia brownish gray. Hindwing light grayish brown; cilia concolorous with wing.

Male genitalia (Fig. 3). Uncus bifurcated widely in the apex. Socius a wide triangular lobe. Valva constricted deeply. Cucullus oblong. Aedeagus cone-shaped; vesica with 11-12 deciduous cornuti.

Female. Length of forewing 6-7 mm. Similar to male.



Figs 5-6. Female genitalia (scales: 0.5 mm). 5. *Gibberifera qingchengensis* n. sp., paratype.
6. *G. yadongensis* n. sp., paratype.

Female genitalia (Fig. 5). Papillae anales narrow. Apophysis posterioris as long as apophysis anterioris. Sterigma a wide oblong plate, with a prominence on the posterior edge. Ductus bursae sclerotized from ostium bursae to posterior 1/3. Corpus bursae oval, with two horn-shaped signa.

Material examined. Holotype. CHINA: Sichuan Province, Mt Qing-Cheng Shan, ♂, 20. VI. 1980. Paratypes. Same locality as holotype, 1 ♀, 2. VI. 1979, 1 ♂, 19. VI. 1980, 1 ♀, 20. VI. 1980, 1 ♀, 21. VI. 1980.

Distribution. China (Sichuan Province).

Host-plant. Unknown.

Remarks. The species is superficially similar to *G. obscura* Diakonoff (Pakistan and Nepal), but differs from it in lacking a prominence on the inner edge of cucullus.

***Gibberifera yadongensis* Nasu & Liu, n. sp.** (Figs 2, 4, 6)

Male (Fig. 2). Length of forewing 6 mm. Vertex and face brownish white. Labial palpus brownish white. Antenna grayish dark brown. Thorax cream-white; tegula grayish dark brown, apical half whitish. Forewing ground color grayish dark brown. Costa with seven

pairs of whitish strigulae from apex to basal 1/4. Basal patch indicated by some irregular gray streaks, occupying basal 1/4. Median fascia broad, cream-white, outward-oblique from costa to dorsum, outer edge produced at below middle and reaching ocelloid patch. Ocelloid patch large, oblong, whitish brown, including some dark brown scales. Between median fascia and ocelloid patch resting some dark brown scales. Cilia grayish, whitish on torus. Hindwing light grayish brown; cilia concolorous with wing.

Male genitalia (Fig. 4). Uncus bifurcated slightly in the apex. Socius a wide triangular lobe. Valva constricted shallowly. Cucullus oval. Aedeagus cone-shaped; vesica with 16 deciduous cornuti.

Female. Length of forewing 8 mm. Similar to male.

Female genitalia (Fig. 6). Papillae anales narrow. Apophysis posterioris shorter than apophysis anterioris. Sterigma a semicircular plate. Ductus bursae sclerotized partly on posterior 1/3. Corpus bursae oval, with two horn-shaped signa.

Material examined. Holotype. CHINA: Xizang Autonomous Region, Yadong, ♂, 24. VIII. 1978. Paratype. Same locality as holotype, 1 ♀, 24. VIII. 1978.

Distribution. China (Xizang Autonomous Region).

Host-plant. Unknown.

Remarks. The species is superficially similar to *G. hepaticana* Kawabe & Nasu (West China and Japan), but differs from it in having more brownish forewing, shorter apophysis posterioris and larger signa, and in lacking spine-like non-deciduous cornuti in vesica.

Checklist of the species of *Gibberifera* in China

Gibberifera Obraztsov

- 1 *simplana* (Fischer von Röslerstamm)
- 2 *glaciata* (Meyrick)
- 3 *monticola* Kuznetsov
- 4 *qingchengensis* Nasu & Liu, n. sp.
- 5 *hepaticana* Kawabe & Nasu
- 6 *yadongensis* Nasu & Liu, n. sp.
- 7 *mienshana* Kuznetsov
- 8 *similis* Kuznetsov

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摘要

那須義次·劉友樵：突小卷蛾屬 *Gibberifera* Obraztsov 在中國二新種記述

根據第一作者在 1994 年論文(見參考文獻)對突小卷蛾屬的研究,其中曾涉及到中國已知有突小卷蛾 6 種,它們是:楊突小卷蛾 *G. simplana*;柳突小卷蛾 *G. glaciata*;山突小卷蛾 *G. monticola*;褐突小卷蛾 *G. hepaticana*;綿山突小卷蛾 *G. mienshana*;和等突小卷蛾 *G. similis*。本文又增補二新種:一種在四川青城山發現,取名為青城突小卷蛾 *G. qingchengensis*;另一種在西藏亞東發現,取名為亞東突小卷蛾 *G. yadongensis*。本文對這兩個新種的主要形態特徵進行詳細的制圖和描述。