

## Two New Species of *Mimulus* from the Himalayas

Takasi YAMAZAKI

Botanical Gardens, Faculty of Science, University of Tokyo  
3-7-1 Hakusan, Bunkyo-ku, Tokyo, 112 JAPAN

ヒマラヤからのミゾホオズキ属の2新種

山崎 敬

東京大学理学部附属植物園 112 東京都文京区白山 3-7-1

(Received on June 12, 1992)

Two new species *Mimulus*, *M. bhutanicus* Yamaz. and *M. karakormianus* Yamaz., are described from the Himalayas.

In the Himalayas the genus *Mimulus* has been known two species, that is *M. nepalensis* Benth. and *M. strictus* Benth (Pennell in Monog. Acad. Nat. Sci. Philad. 5: 32, 1943; Hara et al. ed., Enum. Flow. Pl. Nepal 3: 118, 1982). Two plants of this genus were recently collected from Bhutan by A. J. C. Grierson et D. G. Long in Edinburgh, and from Karakorum by G. et S. Miehe in Göttingen. These plants are new species and described in this paper.

***Mimulus bhutanicus*** Yamazaki sp. nov. Figs. 1-a and 2.

Herba (perennis?). Caulis simplex, erectus, 25-30 cm altus, quadrangulus, sparse pilosus, ad nodos pubescens. Folia opposita, membranacea; petioli 3-10 mm longi, sursum apicem breviores, superne subsessiles; laminae late ovatae, 2-3 cm longae, 1.5-2.3 cm latae, apice subacutae vel acutae, acuti-serratae, superne glabrae, subtus ad costam sparse pilosae. Flores ad axillas foliorum superiorum solitarii. Pediceli 14-20 mm longi,

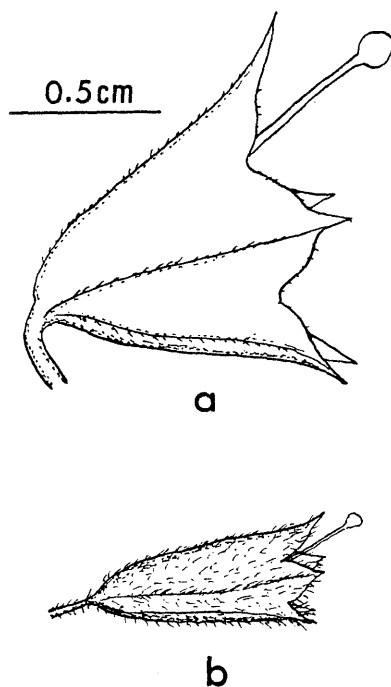


Fig. 1. Calyces. a, *Mimulus bhutanicus*. b, *M. karakormianus*.

patente pilosi. Calyx campanulatus, membranaceus, ca. 14 mm longus, 10 mm latus, 5-costatus, ad costas pubescens, 5-lobatus, lobis deltoidibus, abrupte acuminatis, margine breviter pilosis, lobo postico majore, ca. 3 mm longo et lato, lobis lateralibus ca. 2 mm longis, 3 mm latis.

Corolla lutea, fuscato-maculata, tubulosa, leviter bilabiata, ca. 2.8 cm longa, tubo ca. 2 cm longo, superne plus minusve ampliata ca. 1 cm lato, extus glabro, labio superiore bilobato, lobis orbiculatis, ca. 8 mm longis et latis, margine glabris, labio inferiore ca. 10 mm longo, intus bifariam lanato,

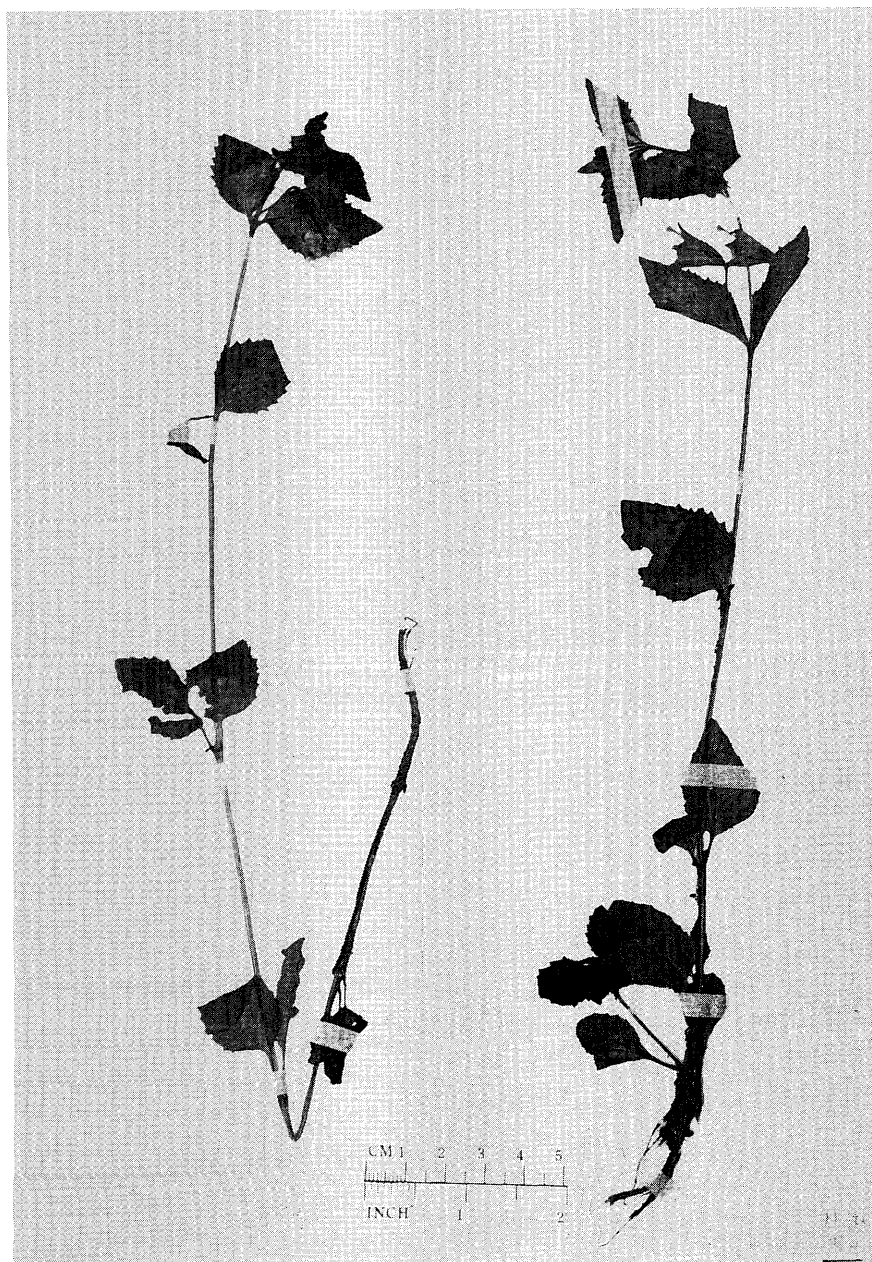


Fig. 2. *Mimulus bhutanicus* Yamaz. Type.

3-lobato, lobo medio majore, late orbiculato, ca. 8 mm longo, 10 mm lato, lobis lateralibus orbiculatis, 8 mm longis et latis. Stamina 4, inclusa, leviter didynama, 13–14 mm longa, antheris glabris. Stylus inclusus, ca. 10 mm longus; stigma

flabellata.

Hab. Bhutan. W. side of Yuto La, E. of Tongsa, 27°31' E/ 90°34' N, wet rock in ravine (Grierson et Long, July 9, 1979, no. 2614. Typus TI).

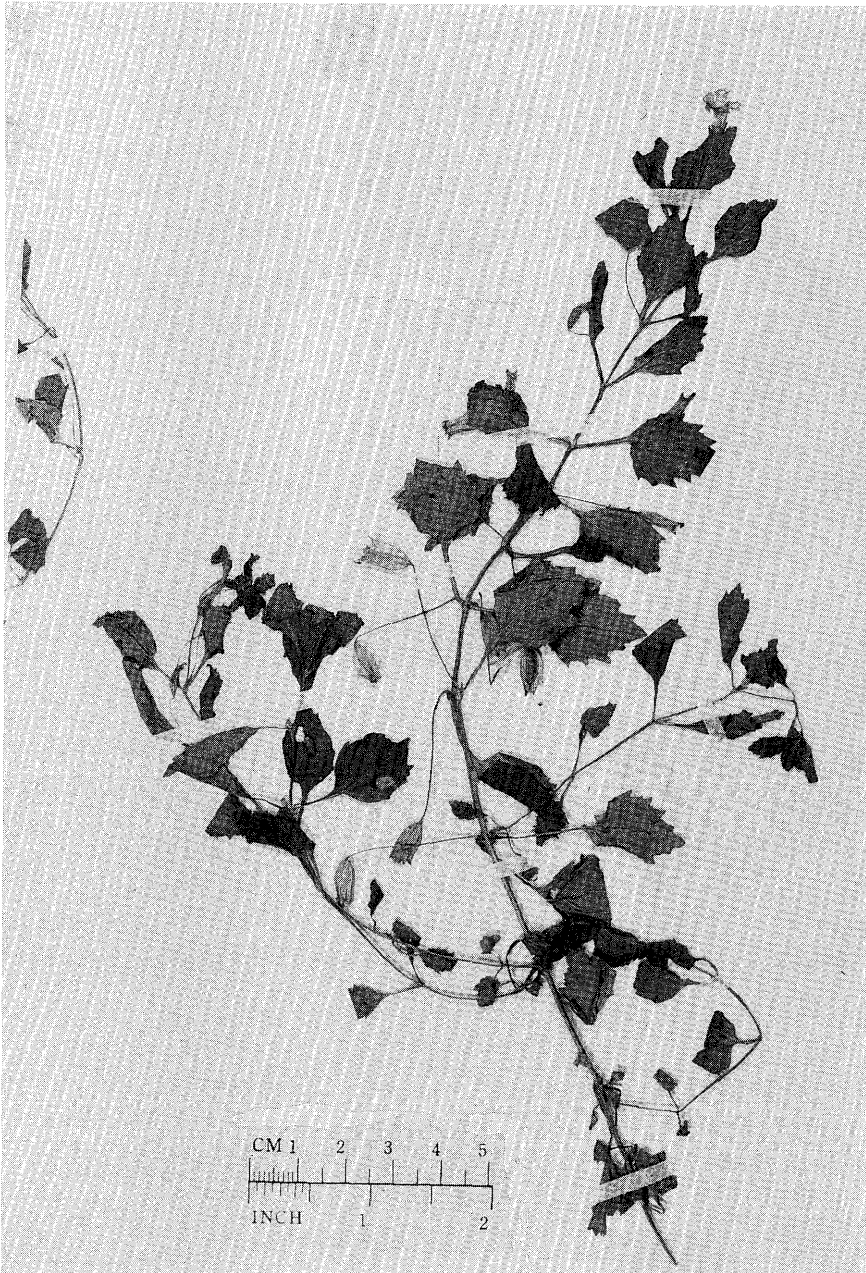


Fig. 3. *Mimulus karakormianus* Yamaz. Type.

This species resembles *M. bodinieri* Vaniot. in SW Yunnan, but differs by erect stem, petiolate leaves, larger flowers and calyx with large deltoid lobes. The flower of this species is similar to that of *M. tibeticus* Tsoong et Yang, but differs by lateral nerves of leaves pinnate and not connate at apex.

***Mimulus karakormianus* Yamazaki, sp. nov.**  
Fig. 1-b and 3.

Herba (perennis?). Caulis ascendens, ca. 25 cm longus, quadrangulus, patente glanduloso-pubescent cum pilis eglandulosus. Folia opposita, membranacea; petioli 4–20 mm longi, sparse puberuli; laminae ovatae vel late ovatae, 15–25 mm longae, 8–15 mm latae, apice acutae, basi cuneatae vel rotundato-cuneatae, grosse acuti-serratae, superne glabrae, subtus ad nervos sparse pilosae, nervis 2–3-jugatis, pinnatis. Flores ad axillas foliorum solitarii. Pediceli 1–2 cm longi in anthesi, usque ad 2.5 cm longi in fructu, glabrescentes vel sparsissime glanduloso-puberuli. Calyx tubulosus, ca. 7 mm longus, superne plus minusve dilatatus, ca. 3 mm latus in anthesi, ca. 10 mm longus 5 mm latus in fructu, 5-costatus, subdense minute puberulus, apice obliquo-truncatus et 5-lobatus, lobis ovatis abrupte acutis, margine breviter pilosis, lobo postico majore, ca. 2 mm longo, lobis 2 anticis minoribus, ca. 1.5 mm longis. Corolla lutea, tubulosa, leviter bilabiata, ca. 10 mm longa, tubo inflato, ca. 7 mm longo, 3 mm lato, labio superiore bilobato, lobis orbiculatis ca. 2.5 mm longis et latis, labio inferiore

3-lobato, lobis orbiculatis ca. 2 mm longis et latis. Stamina 4, inclusa. Capsula anguste oblonga, ca. 8 mm longa, 2 mm lata, apice acuta, glabra. Semina numerosa, ellipsoidea, ca. 0.35 mm longa, 0.2 mm lata; testa minute reticulata.

Hab. Pakistan. Karakorum, Indus gorge between Besham et Dasu, 800–1200 m. On moist rock, shaded (G. et S. Miehe, July 28, 1991, no. 4642, Typus TI).

This species resembles *M. nepalensis* Benth. in E. Himalaya, China to Japan, but differs by glandular-pubescent stems, grossly acute-serrate leaves, and subdensely short-pubescent and deeply 5-lobed calyx.

#### 要 旨

ミゾホオズキ属の植物は今までヒマラヤには2種類しか知られていなかった。長年ブータンの植物調査をしていたエジンバラの故 Grierson 氏がブータンで採集してきたものは、萼が鐘形である点でアジアの他の種類と著しく異なる。ただ一種、雲南の西南部にある *M. bodinieri* Vaniot. が近縁であるが、それからは花が大きくて萼裂片の形が異なる。

カラコルム北部の植物生態調査をしている、ゲッチンゲンの Miehe 夫妻が採集してきたものは、ミゾホオズキ *M. nepalensis* Benth. に近縁のものであるが、記載で述べたように、種々の点で異なる。この新種が見つかったことで、朝鮮北部、中国北部の *M. tenellus* Bunge, 日本から中国、ネパールにかけてのミゾホオズキ、上記のカラコルムの種類と、近縁の種類が一連に分布することになった。