

A new subspecies of *Loxerebia megalops* (ALPHÉRAKY, 1895) from S. Qinghai, China

(Lepidoptera, Nymphalidae, Satyrinae)

by

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Abstract: A new subspecies, *Loxerebia megalops gyegudo* subspec. nov. from Yushu, Southern Qinghai Province, China, is described and illustrated in this paper.

Introduction: *Loxerebia megalops* (ALPHÉRAKY, 1895) is a local species restricted in a longitudinal narrow area from extremely south Qinghai, southwards along the frontier regions of W. Sichuan and E. Tibet to northwest Yunnan. Geographically, this species occupies the upper Jinsha valley and upper Lancang valley from extremely south Qinghai to northwest Yunnan. Until now, two subspecies are known, viz. the nominate subspecies from Batang and *L. m. yunnana* (MELL, 1939) (= *diminuta* GOLTZ, 1939) from N.W. Yunnan (DELLA BRUNA et al., 2000). DELLÀ BRUNA et al. (2000) reported *L. m. yunnana* (MELL) from Qamdo, E. Tibet. Though Qamdo is located to the north of Batang, the population of *L. megalops* (ALPH.) here is more similar to the population from N.W. Yunnan which is to the south of Batang. Therefore Markamshan-Yunling, a north-south orientated ridge, as a watershed between Jinsha and Lancang valleys may block the exchanges of the nominate subspecies from Jinsha valley and *L. m. yunnana* (MELL) from Lancang Valley. A new subspecies is described in this paper from Gyegu, Yushu, S. Qinghai, which is a place as it is the same at Batang, in the Jinsha Valley but with a higher latitude in the north.

Abbreviations

CNMH Chongqing Museum of Natural History

HH Collection of HAO HUANG, Qingdao, Shandong.

LSY Collection of SONGYUN LANG, Beibei, Chongqing.

SK Collection of KUI SONG, Xining, Qinghai.

ZFMK Zoologisches Forschungsinstitut und Museum Alexander Koenig, Bonn.

Loxerebia megalops megalops (ALPHÉRAKY, 1895) (fig. 5)

Callerebia megalops ALPHÉRAKY, 1895, Dt. Ent. Z. Iris 8: 184. TL: Kham [Batang].

Material: 1 ♂, China, Sichuan, Batang, Lalashan, 2900 m, 10.VII.2012, leg. S-Y. LANG (LSY); 4 ♂♂, China, Sichuan, Batang, Zhubalong, 11.VII.2012, leg. S-Y. LANG (LSY).

Distribution: W. Sichuan (Jinsha Valley).

Loxerebia megalops yunnana (MELL, 1939) (figs 6-8)

Callerebia sylvicola yunnana Mell, 1939, Dt. Ent. Z. Iris 52: 140. TL: Chouchow [Zhaozhou, now Fengyi Town in Dali], Westyunnan.

Loxerebia sylvicola diminuta GOLTZ, 1939. Ent. Rundsch. 56: 163. TL: Atuntse [Deqin].

Material: Photo ♂, "Type v.d.Goltz/A-tun-tse (Nord-Yünnan) Mittlere Höhe (ca. 4000 m) 26.7.1936. H. Höne./*diminuta* Atuntse" (ZFMK); 2 ♂♂, China, Yunnan, Deqen, 25.VI.2014, leg. HAO HUANG (LSY).

Distribution: E. Tibet-N.W. Yunnan (Lancang Valley).

Loxerebia megalops gyegudo subspec. nov. (figs 1-4)

Holotype ♂: China, Qinghai, Yushu, Gyegu, 3700 m, 14.VII.2011, leg. KUI SONG (CMNH). Paratypes: 39 ♂♂, 12 ♀♀, China, Qinghai, Yushu, Gyegu, 2700-3800 m, 10.-18.VII.2011, leg. K. SONG (1 ♂, 1 ♀ in LSY; 1 ♂, 2 ♀♀ in HH; 37 ♂♂, 9 ♀♀ in SK).

Diagnosis: The new subspecies can be distinguished from the nominate subspecies and *L. m. yunnana* (MELL) by the combination of the following characters:

1. Without clear border, blackish iris of the subapical ocellus on forewing upperside nearly fuses with its surroundings in the ♂ in the new subspecies, whereas it is defined by a pale but very obscure circle in the nominate subspecies and *L. m. yunnana* (MELL).
2. Subapical ocellus on the forewing upperside of the new subspecies and *L. m. yunnana* (MELL) is smaller than that of the nominate subspecies.
3. Postdiscal ocelli on the hindwing upperside are usually reduced with their blackish irises and reddish rings nearly absent

- in the ♂ in the new subspecies, whereas they are well present in the nominate subspecies and *L. m. yunnana* (MELL).
4. An incurved greyish band inside the subapical ocellus on forewing underside is well present in ♂ in the nominate subspecies and gradually turns to orange in *L. m. yunnana* (MELL), whereas it is absent in the new subspecies.
 5. Postdiscal ocelli on the hindwing underside are reduced with only white pupils left, whereas they are completely present with blackish irises and yellowish rings at least in the space 2 in the nominate subspecies and *L. m. yunnana* (MELL).

Etymology: The subspecific name *gyegudo* is named after Gyegu-do, the type locality in the upper Jinsha Valley.

Distribution (fig: 9): S. Qinghai (Jinsha Valley).

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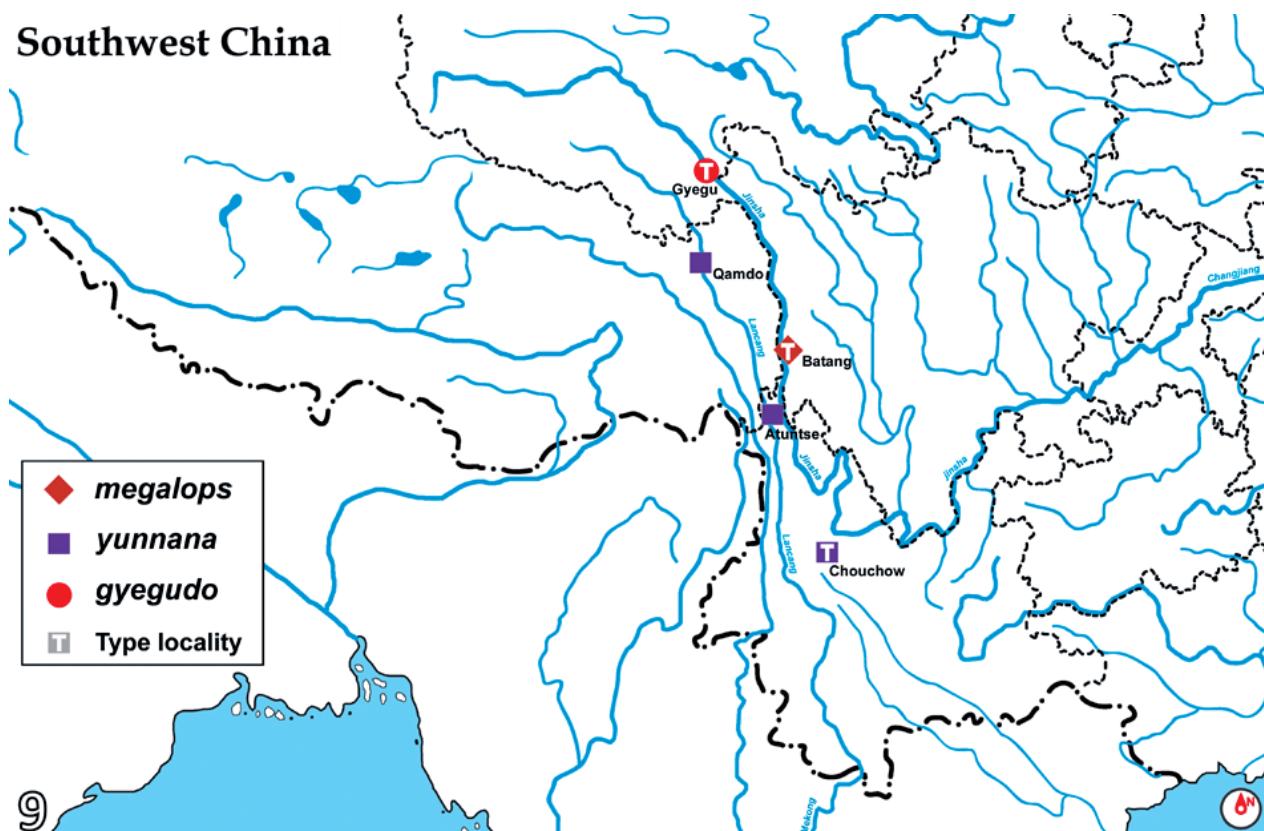


Fig. 9: Distribution of *Loxerebia megalops* (ALPHÉRAKY, 1895).

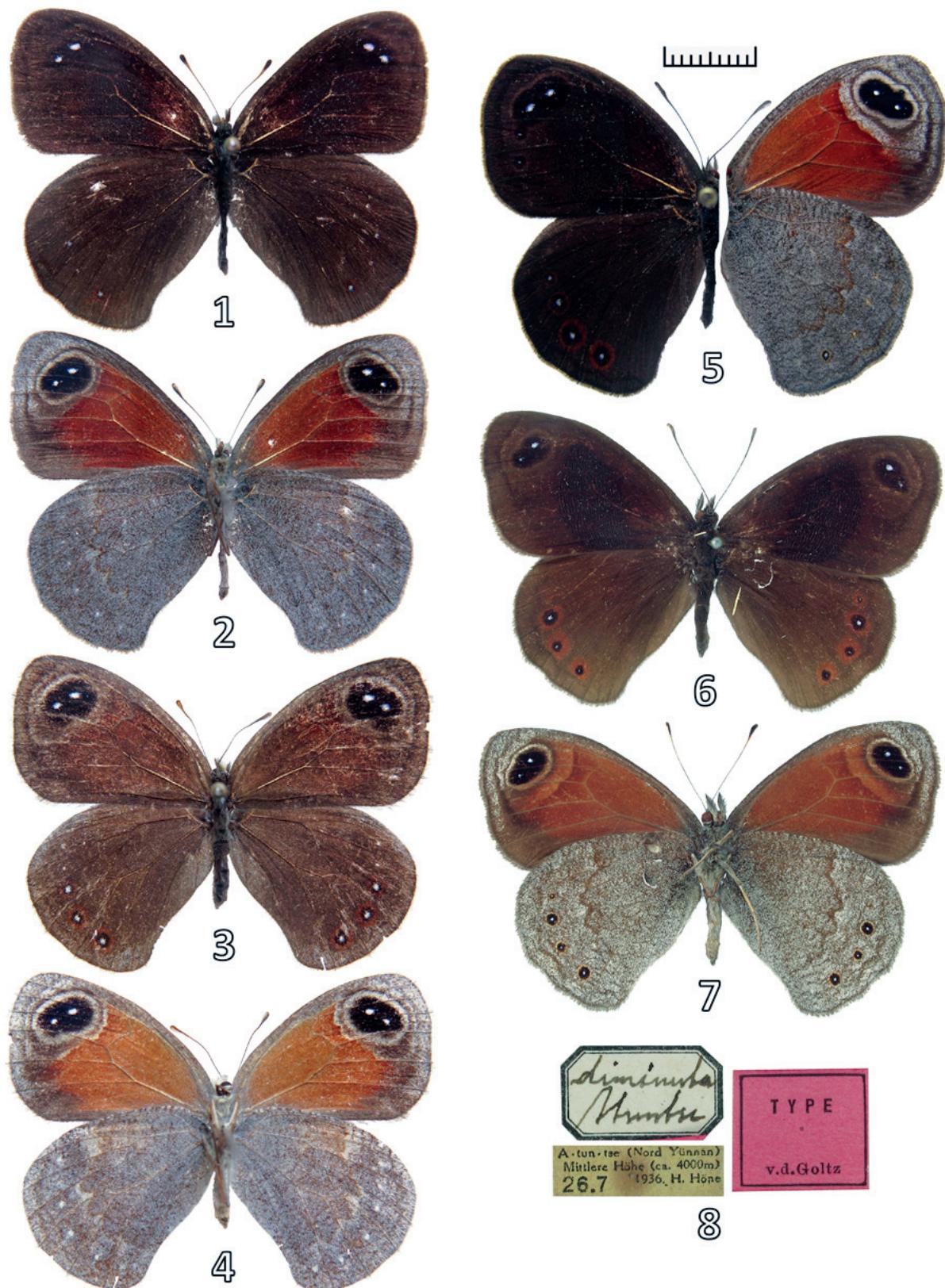


Fig. 1, 2: *Loxerebia megalops gyeogudo* subspec. nov., holotype ♂, China, Qinghai, Yushu, Gyegu, CMNH, upper- and underside.

Fig. 3, 4: *Loxerebia megalops gyeogudo* subspec. nov., paratype ♀, China, Qinghai, Yushu, Gyegu, LSY, upper- and underside.

Fig. 5: *Loxerebia megalops megalops* (ALPHÉRAKY, 1895), ♂, China, Sichuan, Batang, Zhubalong, LSY, upper- and underside.

Fig. 6, 7, 8: *Loxerebia megalops yunnana* (MELL, 1939), type of *Loxerebia sylvicola diminuta* GOLTZ, 1939, ♂, China, Yunnan, Atuntse (Deqin), ZFMK, dorsal- and ventral side, labels.

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