

## WHAT IS *COENONYMPHA TIANSHANICA* CHOU, YUAN & ZHANG, 2001 (NYMPHALIDAE: SATYRINAE)?

R.V. Yakovlev

Altai State University, pr. Lenina 61, Barnaul, 656049, Russia. E-mail: yakovlev\_asu@mail.ru  
Tomsk State University, Laboratory of Biodiversity and Ecology, Lenina pr. 36, 634050 Tomsk, Russia

The article establishes a new synonym: *Coenonympha tianshanica* Chou, Yuan & Zhang, 2001 = *Erebia haberhaueri circe* Churkin, 2005 **syn. nov.**, new combinations and the status *Erebia haberhaueri tianshanica* (Chou, Yuan & Zhang, 2001) **comb. nov. & stat. nov.** The species *E. haberhaueri* Staudinger, 1881 is reported for the fauna of China for the first time.

**Key words:** fauna, Lepidoptera, Satyrinae, China, new synonym, *Coenonympha tianshanica*, *Erebia haberhaueri*.

### INTRODUCTION

Chou et al. (2001) described several new species including *Coenonympha tianshanica* Chou, Yuan & Zhang, 2001 (Nymphalidae: Satyrinae). The holotype is stored in the Entomological Museum, Northwest Sci-Tech University of Agriculture and Forestry (Yangling, Shaanxi, China). Critical comments on this work establishing new synonymy were published by several specialists: Eckweiler & Bozano (2011) and Yakovlev (2016). The image of the holotype *Coenonympha tianshanica* Chou, Yuan & Zhang, 2001 graciously provided by Dr. Yuan Xiangqun helped to clarify the status of this taxon.

### RESULTS

Chou et al. (2001) described *Coenonympha tianshanica* Chou, Yuan & Zhang, 2001 from Karamay (Xinjiang Autonomous Region) by the series of two males. The photos of the holotype (Figures 1–2) allowed to understand exactly that *Coenonympha tianshanica* Chou, Yuan & Zhang, 2001 actually belongs to the genus *Erebia* Dalman, 1816, and what is more, to *Erebia maurisius* complex. So, it is *Erebia tianshanica* (Chou, Yuan & Zhang, 2001) **comb. nov.**

Churkin (2005) made a detailed revision of *Erebia maurisius* complex, where he included *E. maurisius* (Esper, [1803]), *E. haberhaueri* Staudinger, 1881 and *E. tsengelensis* Suwa, Hirano & Hirano, 2002. This article describes two subspecies: *E. haberhaueri circe* Churkin, 2005 and *E. tsengelensis alag* Churkin, 2005. Churkin established that a typical habitat for the nominotypical subspecies *E. haberhaueri* Staudinger, 1881 is the Saur Ridge (E. Kazakhstan), and for the population of Tarbagatai vill. distinctive by their small size of adults and by the wings pattern details, *E. haberhaueri circe* Churkin, 2005 was described (Type locality – Eastern Kazakhstan, Tarbagatai, pass upper Alexeevka vill.).

It is obvious that in the immediate vicinity of Karamay (located in the Dzhungarian Gobi) no species of the genus *Erebia* could be collected (Yakovlev, 2016). However it can be met in 90–110 km to the North of Karamay in the Chinese portion of Tarbagatai, where *E. haberhaueri* Staudinger, 1881 is known from the Kazakhstan portion of Saur and Tarbagatai (Rubin & Yakovlev, 2013).

---

**Citation:**

Yakovlev, R.V. (2016). What is *Coenonympha tianshanica* Chou, Yuan & Zhang, 2001 (Nymphalidae: Satyrinae)? *Biological Bulletin of Bogdan Chmelnitskiy Melitopol State Pedagogical University*, 6 (2), 77–79.

Поступило в редакцию / Submitted: 10.03.2016

Принято к публікації / Accepted: 18.05.2016

**crossref** <http://dx.doi.org/10.15421/201637>

© Yakovlev, 2016

Users are permitted to copy, use, distribute, transmit, and display the work publicly and to make and distribute derivative works, in any digital medium for any responsible purpose, subject to proper attribution of authorship.



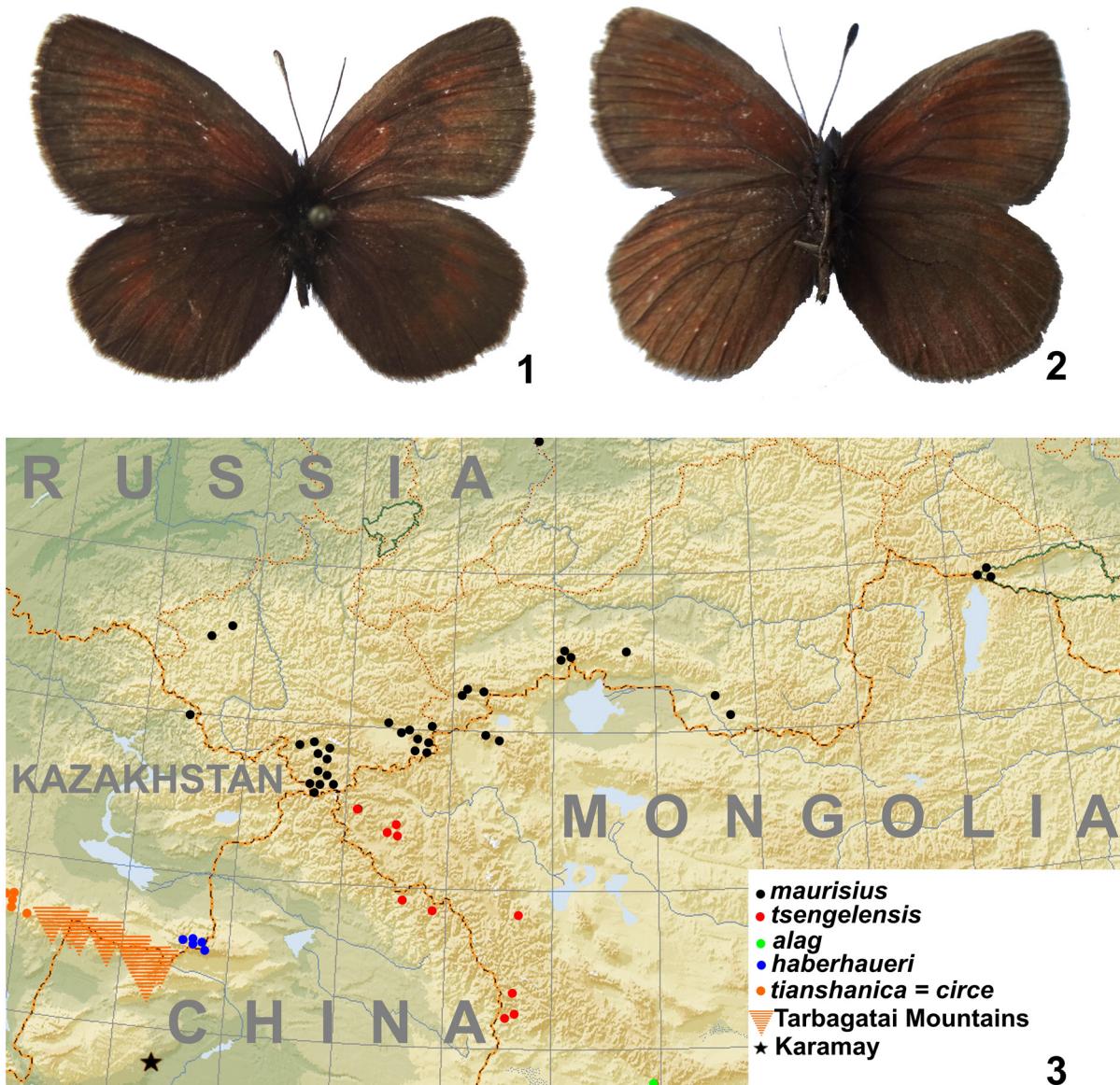
This work is licensed under a Creative Commons Attribution 3.0 License

Thus, on the basis of the taxa distribution data (Churkin, 2005; Yakovlev, 2007, 2011; Tshikolovets et al., 2002, 2009 a, b; Rubin & Yakovlev, 2013), concerning *Erebia maurisius* complex (Figure 3), *Erebia tianshanica* (Chou, Yuan & Zhang, 2001) **comb. nov.** = *Erebia haberhaueri circe* Churkin, 2005 **syn. nov.**. Consequently, the taxon *tianshanica* (Chou, Yuan & Zhang, 2001) represents a Tarbagatai subspecies of *E. haberhaueri* Staudinger, 1881, i.e. *E. haberhaueri tianshanica* (Chou, Yuan & Zhang, 2001), **stat. nov.**

In addition it should be mentioned that the spelling *tianshanica* (Chou, Yuan & Zhang, 2001) is different from the spelling *tianschanica* Heyne, 1894 – a species widespread in the mountains of the Dzhungarian Alatau (Kazakhstan) (Tennent, 2008).

#### ACKNOWLEDGMENTS

The author thanks the curators of the collection (Dr. Yuan Xiangqun, Entomological Museum Northwest A & F University, Yangling, Shaanxi, China) mentioned above for the opportunity to study the material on Satyrinae. The author also expresses thanks to Anna Ustjuzhanina (Tomsk) for the help with the translation of the paper.



**Figures 1–3.** 1. *Coenonympha tianshanica* Chou, Yuan & Zhang, 2001, holotype, upperside; 2. *Coenonympha tianshanica* Chou, Yuan & Zhang, 2001, holotype, underside; 3. Map of distribution of *Erebia maurisius* complex.

---

**REFERENCES**

- Chou, I., Yuan, X.Q. & Zhang, C.S. (2001). New species, new subspecies and new records of butterflies (Lepidoptera: Satyridae) from China (V). *Entomotaxonomia*, 23(3), 201–216.
- Churkin, S.V. (2005). Notes on the *Erebia maurisius* complex with the descriptions of two new subspecies (Lepidoptera, Satyridae). *Helios*, 6, 146–168.
- Eckweiler, W. & Bozano, G.C. (2011). *Satyrinae. Part IV. Tribe Satyrini. Subtribe Maniolina. Maniola, Pyronia, Aphantopus, Hyponephele*. Milano, Omnes Artes.
- Rubin, N.I. & Yakovlev, R.V. (2013). Checklist of the butterflies (Papilionoidea) of the Saur Mountains and adjacent territories (Kazakhstan), including systematic notes about the *Erebia callias* group. *Nota lepidopterologica*, 36(2), 137–170.
- Tennent, W.J. (2008). A checklist of the satyrine genus *Erebia* (Lepidoptera) (1758–2006). *Zootaxa*, 1900, 1–109.
- Tshikolovets, V.V., Bidzilya, O.V. & Golovushkin, M.I. (2002). *The Butterflies of Transbaikal Siberia*. Kyiv–Brno: Konvoj Ltd.
- Tshikolovets, V.V., Yakovlev, R.V. & Kosterin, O.E. (2009). *The Butterflies of Altai, Sayans and Tuva (South Siberia)*. Kyiv–Pardubice.
- Tshikolovets, V.V., Yakovlev, R.V. & Balint, Z. (2009). *The Butterflies of Mongolia*. Kyiv–Pardubice.
- Yakovlev, R.V. (2007). Modern data about the distribution of *Erebia tsengelensis* Suwa, Hirano et Hirano, 2002 (Lepidoptera, Satyridae). *Altai Zoological Journal*, 1, 52–53 (In Russian).
- Yakovlev, R.V. (2012). Checklist of Butterflies (Papilionoidea) of the Mongolian Altai Mountains, including descriptions of new taxa. *Nota lepidopterologica*, 35(1), 51–96.
- Yakovlev, R.V. (2016). Three new synonyms of Satyrinae (Lepidoptera, Nymphalidae) from Western China. *Biological Bulletin of Bogdan Chmelnitskiy Melitopol State Pedagogical University*, 6(1), 237–243. DOI: 10.15421/201613.