



<http://dx.doi.org/10.11646/zootaxa.3746.2.2>

<http://zoobank.org/urn:lsid:zoobank.org:pub:219D424C-8BAE-4A81-9976-305B97A41254>

Revision of the genus *Ortopla* Walker, [1859] with description of two new species from Southeast Asia (Lepidoptera, Noctuidae, Pantheinae). Revision of Pantheinae, contribution X

G. BEHOUNEK,¹ H.L. HAN² & V.S. KONONENKO^{3,4}

¹D-85567 Grafing/Munich, Sudetenstrasse 6, Germany. E-mail: Gottfried.Behounek@t-online.de

²School of Forestry, Northeast Forestry University, Harbin, CH-150014 China. E-mail: hanhuilin@yahoo.com.cn

³Laboratory of Entomology, Institute of Biology and Soil Science Far Eastern Branch of Russian Academy of Sciences, RF-690022 Vladivostok, Russia. E-mail: kononenko@ibss.dvo.ru; vlad_kononenko@mail.ru

⁴Corresponding author

Abstract

The pantheine genus *Ortopla* Walker, [1859] 1858 is revised. Two new species, *Ortopla witti* sp. n. from the Philippines and *O. longiuncus* sp. n. from Nepal, Vietnam, Thailand, Myanmar and South China are described. The name *O. commutanda* Warren, 1891 (syn. n.) is synonymised with *O. iarbasalis* Walker, [1859] 1858. The distribution of species in East Asia is clarified. A checklist of the genus *Ortopla* is presented. Imagines, male and female genitalia of all species are illustrated.

Key words: Lepidoptera, Noctuidae, Pantheinae, *Ortopla*, taxonomic revision, new species, new synonymy, South East Asia, China, Nepal, Vietnam, Thailand, Myanmar, Philippines

Introduction

This article presents a revision of the Oriental pantheine genus *Ortopla* Walker, [1859] 1858 (type-species: *Ortopla iarbasalis*). Externally the genus *Ortopla* consists of medium sized robust brown or grey-brown coloured moths with rather wide forewing, naked eyes and very large to moderate large labial palps. The genus is sexually dimorphic, males of two species, *O. iarbasalis* and *O. lindsayi* have a strongly angled extension on the costa, in other species this extension is not expressed; females usually have more strongly marked and variegated forewings, shorter vestiture of palps and lack any modification in wing shape. Due to the rather uniform wing pattern and uniform and simplified structure of male and female genitalia most species of *Ortopla* are difficult to identify.

The genus *Ortopla* and its synonyms *Oromena* Moore, 1882 and *Koptoplax* Hampson, 1891 were not treated either in Hampson's catalogue (1903–1913), or in the Oriental Noctuidae part of the Seitz's Atlas (1912–1938) and remained unrevised since its description; while two Bornean species of *Ortopla* were reviewed and described by Holloway (2009). Nye (1975) listed *Ortopla*, *Oromena* and *Koptoplax* as distinct genera in the traditional Ophiderinae sensu auctorum (presently part of the family Erebidae). Poole (1982) referred *Oromena* and *Koptoplax* in synonymy to *Ortopla* in the Ophiderinae. Holloway (2005, 2009) and Kononenko & Pinratana (2005) placed the genus *Ortopla* in the Pantheinae (Noctuidae). Although the genus was not treated in the last revision of the basal clades of the Noctuidae (Zahiri *et al.* 2013), the placement of *Ortopla* in Pantheinae is supported by presence of secondary setae on verrucae in the larva, general appearance of the adult and details of genitalia structures (Holloway, pers. comm., x.2013).

By examining the extensive material from museums and private collections we found two new species of *Ortopla* from East Asia, described below, revealed the synonymy of *O. commutanda* Warren, 1891 (syn. n.) with *O. iarbasalis* Walker, [1859] 1858 and clarified the distribution of *Ortopla* species in the East Asian countries. The new data on species distribution is marked by an asterisk (*) in the paragraphs "Distribution". As the genus

Acknowledgements

This study was supported by a grant from Thomas Witt (Witt Museum, Munich), Johann Stumpf, Lauda-Königstein (V. S. Kononenko) and a grant from the National Natural Science Foundation of China No. 31272355 (H. L. Han). We thank the curators of the collections at ZFMK, ZSM, ZMUC, USNM, NKM and IZCAS (Dieter Stüning, Axel Hausmann, Ole Karsholt, Michael Pogue, Wolfram Mey, M. Wang) and the private collectors Amin Becher, Johann Stumpf, Albeto Zilli, Heikki Kronholm, Markku Pellinen, Helmut Seibald, Peter Guylai and Wolfgang Speidel for loans of material from collections in their care. W. Speidel provided photos of the types from the collection of NHM (BMNH, London), and Jeremy Holloway offered valuable information.

References

- Hampson, G.F. (1891) *Illustrations of Typical Specimens of Lepidoptera Heterocera in the Collection of the British Museum*. Part 8.—The Lepidoptera of the Nilgiri District. London. Taylor and Francis, 144 pp, iv, 18 pl.
- Hampson, G.F. (1903–1913) *Catalogue of the Lepidoptera Phalaenae in the British Museum*. London, Taylor and Francis, Vol. 4: i–xx, 1–689 (1903); Vol. 5: i–xvi, 1–633 (1905); Vol. 6: i–xiv, 1–532 (1906); Vol. 7: i–xv, 1–709 (1908); Vol. 8: i–xiv, 1–709 (1909); Vol. 9: i–xv, 1–552 (1910); Vol. 10: i–xix, 1–829 (1910); Vol. 11: i–xvii, 1–689 (1912); Vol. 12: i–xiii, 1–858 (1913); Vol. 13: i–xiv, 1–609 (1913). Pls 1–239.
- Holloway, J.D. (1976) Moths of Borneo with special references to Mount Kinabalu. *Malay Nature Society & Sabah Foundation*. Kuala Lumpur, Malaysia, 264 pp.
- Holloway, J.D. (2005) The Moths of Borneo; Parts 15 & 16, Noctuidae: Catocalinae. *Malayan Nature Journal*, 58 (1–4), 1–529.
- Holloway, J.D. (2009) The Moths of Borneo, part 13, Family Noctuidae, subfamilies Pantheinae, Bagisarinae, Acontiinae, Aediinae, Eustrotiinae, Bryophilinae, Aeroperoninae, Aveniinae, Eubleminae. *Malayan Nature Journal*, 62 (1–2), 1–240
- Hrebly, M., Ronkay, L. & Plante, J. (1998) Contribution to the Noctuidae Fauna of Tibet and the adjacent regions (II.), A systematic survey of the Tibetan Noctuidae fauna based of the material of the Schäffer-Expedition (1938-1939) and recent expeditions (1938-1939). Part I, List of species collected by the Schäffer -Expedition. Part II, List of species of the expeditions 1996-1997. Part III, Descriptions. *Esperiana*, 6, 547–566.
- Kononenko, V.S. & Pinratana, A. (2005) An illustrated Catalogue of the Noctuidae (Insecta, Lepidoptera) in Thailand. Part. 1(Subfamilies Herminiinae, Rivulinae, Hypeninae, Catocalinae, Aganainae, Euteliinae, Stictopterinae, Plusiinae, Pantheinae, Acronictinae and Agaristinae). In: *Moths of Thailand, Vol. 3*. Bangkok, pp. 1–261.
- Moore, F. (1882) Heterocera. Part 2. In: Hewitson & Moore (Eds.), *Description of new Indian Lepidopterous Insects from the Collection of the late Mr. W. S. Atkinson*. Taylor and Francis, London, pp. 89–198, pls 4–6.
- Nye, I.W.B. (1975) Noctuoidea (Part): Noctuidae, Agaristidae and Nolidae. *The generic names of moths of the World*. Vol. 1. 1–508, 1 frontispiece, London, 568 pp.
- Poole, R.W. (1989) *Noctuidae. Lepidopterorum Catalogues (New Series)*. Fascicle 118, pt 1–3. EJ Brill, Leiden, 1314 pp.
- Walker, F. ([1859] 1858) *List of the Specimens of lepidopterous Insects in the Collection of the British Museum* 16. London. Edward Newman, 253 pp.
- Warren, W. (1891) Description of a new genera and species of Pyralidae contained in the British Museum collection. *Annals and Magazine of Natural History*, 6 (7), 423–438.
<http://dx.doi.org/10.1080/00222939109460637>
- Warren, W. (1911–1913) Eulenartige Nachtfalter. Die Gross-Schmetterlinge des Indo-Australischen Faunen-gebietes. In: Seitz, A. (Ed.), *Die Gross-Schmetterlinge der Erde*, 11. Alfred Kernen Verlag, Stuttgart, pp. 1–496 pp., pls 52.
- Yoshimoto, H. (1994) Noctuidae. In: Haruta, T. (Ed.), *Moths of Nepal*. Part 3. *Tinea*, 14 (Supplement 1), 95–140, pls 83–87.
- Zahiri, R., Lafontaine, J.D., Schmidt, C., Holloway, J.D., Kitching, I.J., Mutanen, M. & Wahlberg, N. (2013) Relationships among the basal lineages of Noctuidae (Lepidoptera, Noctuoidea) based on eight gene regions. *Zoologica Scripta*, 42, 488–507.
<http://dx.doi.org/10.1111/zsc.12022>