

## A species of Cossidae (Insecta: Lepidoptera) new for the fauna of Iraq

R.V. Yakovlev<sup>1,2</sup>, T.J. Witt<sup>3</sup>

<sup>1</sup>Altai State University, pr. Lenina 61, Barnaul, 656049, Russia.

<sup>2</sup>Tomsk State University, Laboratory of Biodiversity and Ecology, Lenin pr. 36, 634050 Tomsk, Russia.

E-mail: yakovlev\_asu@mail.ru

<sup>3</sup>Witt Museum, Tengstrasse 33, D-80796, Munich, Germany.

E-mail: [thomas@witt-thomas.com](mailto:thomas@witt-thomas.com)

Received: 18.10.2018. Accepted: 25.11.2018

Basing on the materials from the Natural History Museum (London), we give for the first time two Cossidae species new for the fauna of Iraq: *Holcocerus zarudnyi* Grum-Grshimailo, 1902 and *Phragmacossia territa* (Staudinger, 1879). An annotated list of the Cossidae of Iraq including 20 species from 14 genera and three subfamilies is presented.

**Keywords:** entomology; Cossidae; Carpenter-Moths; Cossinae; Zeuzerinae; Iraq; new records; fauna

Carpenter moths of Middle East are relatively well studied. The research results were summed up in the works of the last decades: Wiltshire (1957, 1982, 1990), Legrain and Wiltshire (1998), Hacker (1999, 2016), Hacker, Schreier, and Bischof (1999), Hacker et al. (2001), Borth, Ivinskis, Saldaitis, and Yakovlev (2011), Yakovlev (2011, 2015), Yakovlev and Dubatolov (2013), Yakovlev and Witt (2017). However, the fauna of Iraq still remains very poorly studied. The first summaries were published by Wiltshire (1957), small supplements (description of a new species and subspecies, some faunistic data and a redescription of a little known species *Dyspessa wiltshirei* Daniel, 1938) were published by the author (Yakovlev, 2006a, b, 2008, 2011; Yakovlev & Alipanah, 2017).

### Materials and methods

The material was examined in the collections of the Natural History Museum (London).

### Results

Studying the fund collection of the Natural History Museum, we have found two Cossidae species new for the fauna of Iraq. The data are provided below.

***Holcocerus zarudnyi*** Grum-Grshimailo, 1902

Fig. 1.

Ann. Mus. St. Petersburg 7: 200.

Type locality: prov. Persica – Bampur [S. Iran, 20 km W. of Iranshahr, Bampur].

Type material (lectotype) in Zoological Institute of Russian Academy of Science (St.-Petersburg, Russia).

Material examined: 1 female, S. Iraq, Tuba desert, 24.v.1943, E.P. Wiltshire (Natural History Museum).

Distribution: S. Iran, Yemen (Yakovlev, 2006a), Iraq (new record).

***Phragmacossia territa*** (Staudinger, 1879)

Fig. 2.

*Phragmatoecia territa* Staudinger, 1879, Horae Soc. Ent. Ross. 14: 341-342.

Type locality: Laterne im Kerasdere [Turkey].

Type material (syntypes) in Museum für Naturkunde, Leibniz Institut für Evolution und Biodiversitätsforschung (Berlin, Germany).

Material examined: 3 males, Iraq, Kurdistan, Hajji Omran, 5780 ft – 1760 m, 26.vii.1954, E.P. Wiltshire (Natural History Museum).

Distribution: Lebanon, Syria, Israel, Egypt, Iran, Turkey, Turkmenistan, Uzbekistan, Tadzhikistan (Yakovlev, 2011), Iraq (new record).



**Figure 1.** *Holcocerus zarudnyi* Grum-Grshimailo, 1902, female, S. Iraq, Tuba desert, 24.v.1943, E.P. Wiltshire (Natural History Museum).

**Figure 2.** *Phragmacossia territa* (Staudinger, 1879), Iraq, Kurdistan, Hajji Omran, 5780 ft – 1760 m, 26.vii.1954, E.P. Wiltshire (Natural History Museum).

Thus, at the moment for the fauna of Iraq are known 20 species of Cossidae from 14 genera.

### Catalogue of Cossidae of Iraq

*Catopta hyrcanus* (Christoph, 1888)

Distribution: Iran, Turkmenistan, Iraq.

*Stygia mosulensis* Daniel, 1965

Distribution: Iraq, Iran, Bulgaria, Turkey, Greece.

*Cossus cossus* (Linnaeus, 1758)

ssp. *kossai* Wiltshire, 1957 (type locality - Iraq, Shaqlawa) and ssp. *omrana* Wiltshire, 1957 (type locality - Iraq, Haj Omran).

Distribution: transpalearctic species.

*Dyspessacossus fereidun* (Grum-Grshimailo, 1895)

ssp. *ahmadi* Wiltshire, 1957 (type locality - Iraq, Shaqlawa).

Distribution: Turkey, Azerbaijan, Armenia, Iraq, Iran, Syria.

*Holcocerus gloriosus* (Erschoff, 1874)

ssp. *mesopotamicus* Watkins & Buxton, 1921 (type locality - Mesopotamian: Kut, Amara [S. Iraq, Kut el Amara, 125 km SE Baghdad, 45°30'E; 32°30'S]).

Distribution: N. Africa, Middle East, Central Asia.

*Holcocerus zarudnyi* Grum-Grshimailo, 1902

*Deserticossus curdus* Yakovlev, 2006

Distribution: N. Iraq.

*Cossulus lignosus* (Brandt, 1938)

Distribution: Iran, Iraq, Syria, Lebanon.

*Cossulus mollis* (Christoph, 1887)

ssp. *muelleri* Yakovlev, 2006 (type locality - Iraq, 200 km N. Baghdad, östlich von Kirtuk).

Distribution: Turkmenistan, Iraq.

*Eremocossus vaulogeri* (Staudinger, 1897)

Distribution: Senegal, Mauretania, Morocco, Algeria, Lybia, Tunisia, Egypt, Jordan, Israel, Syria, Egypt, Oman, Yemen, UAE, S. Iran, Iraq, Saudi Arabian.

*Vartiana zaratustra* Yakovlev, 2004

Distribution: S. Iran, Iraq, Oman.

*Isoceras bipunctatum* (Staudinger, 1887)

Distribution: Georgia, Azerbaijan, Turkey, Iran, Lebanon, Jordan, Syrien, Israel, Iraq.

*Dyspessa tsvetaevi* Yakovlev, 2008

Distribution: Iraq.

*Dyspessa wiltshirei* Daniel, 1938

Distribution: Iraq, Lebanon.

*Phragmacossia libani* Daniel in Zerni, 1933

Distribution: Lebanon, Iraq.

*Phragmacossia territa* (Staudinger, 1879)

*Phragmacossia tigrisia* Schawerda, 1924

Distribution: Iraq.

*Phragmataecia castaneae* (Hübner, 1790)

Distribution: Western Palaearctic.

*Azygophleps larseni* Yakovlev & Saldaitis, 2011

Distribution: Oman, Yemen, Socotra, S. Iran, Iraq.

*Azygophleps regia* (Staudinger, 1891)

Distribution: Turkei, Pakistan, Iran, Iraq.

## Acknowledgements

The authors are grateful to Geoff Martin and Alessandro Giusti (London) for providing comfortable conditions for working with the collections in the Natural History Museum; to the BMNH Council of Trustees for being so kind and giving the opportunity to publish images of specimens stored in the Natural History Museum of London; and to Anna Ustjuzhanina (Tomsk, Russia) for language improvements.

## References

- Borth, R., Ivinskis, P., Saldaitis, A., & Yakovlev, R. (2011) Cossidae of the Socotra Archipelago (Yemen). *ZooKeys*, 122, 45-69.
- Hacker, H.H. (1999). Systematic List of the Lepidoptera of the Arabian Peninsula with a survey of the spread with special reference to the fauna of Yemen. *Esperiana*, 7, 15-237.
- Hacker, H.H. (2016). Systematic and Illustrated Catalogue of the Macroheterocera and Superfamilies Cossioidea Leach, [1815], Zygaenoidea Latreille, 1809, Thyridoidea Herrich-Schaffer, 1846 and Hyblaeoidea Hampson, 1903 of the Arabian Peninsula, with a survey of their distribution (Lepidoptera). *Esperiana*, 20(1), 7-742.
- Hacker, H.H., Schreier, H.-P. & Bischof, A. (1999). Lepidoptera of Yemen Arab Republic, collected by A. Bischof, H. Hacker and H.-P. Schreier in autumn 1996 and B. Müller in summer 1987. *Esperiana*, 7, 267-282.
- Hacker, H.H., Aulombard, F., Bischof, A., Bittermann, J., Fibiger, M. & Schreier, H.-P. (2001). Lepidoptera of Yemen Arab Republic, collected in 1996, 1998 and 2000. *Esperiana*, 8, 597-600.
- Legrain, A. & Wiltshire, E.P. (1998). Provisional Checklist of the Macro-heterocera of UAE. *Tribulus*, 8(2), 5-8.
- Saldaitis, A., Yakovlev, R.V., & Ivinskis, P. (2007). Carpenter Moths (Insecta: Lepidoptera, Cossidae) of Lebanon. *Acta Zoologica Lithuanica*, 17(3), 191-197.
- Wiltshire, E.P. (1957). *The Lepidoptera of Iraq*. London: Nicholas Kaye Lim.
- Wiltshire, E.P. (1982). Insects of Saudi Arabia. Lepidoptera: Fam. Cossidae, Zygaenidae, Sesiidae, Lasiocampidae, Bombycidae, Sphingidae, Thaumetopoeidae, Thyretidae, Notodontidae, Geometridae, Lymantriidae, Noctuidae, Ctenuchidae (Part 2). *Fauna of Saudi Arabia*, 4, 271-331.
- Wiltshire, E.P. (1990). An Illustrated Annotated Catalogue of the Macro-Heterocera of Saudi Arabia. *Fauna of Saudi Arabia*, 11, 91-250.
- Yakovlev, R.V. (2006a). A revision of carpenter moths of the genus *Holcocerus* Staudinger, 1884 (s. l.). *Eversmannia*, Supplement No 1, 1-104. (in Russian)
- Yakovlev, R.V. (2006b). A brief Review of the Genus *Cossulus* Staudinger, 1887 (Lepidoptera, Cossidae). *Eversmannia*, 7/8, 3-24. (in Russian)
- Yakovlev, R.V. (2008). New species of Palaearctic and Oriental Cossidae (Lepidoptera). IV. New taxa of the genus *Dysspessa* Hübner, [1820] from South-Western Palaearctic. *Eversmannia*, 15/16, 53-68. (in Russian)
- Yakovlev, R.V. (2011). Catalogue of the Family Cossidae of the Old World. *Neue Entomologische Nachrichten*, 66, 1-129.
- Yakovlev, R.V. (2015). Patterns of geographical distribution of carpenter moths (Lepidoptera: Cossidae) in the Old World. *Contemporary Problems of Ecology*, 8(1), 36-50. doi: 10.1134/S1995425515010151
- Yakovlev, R.V. & Alipanah, H. (2017). Description of the male genitalia of *Dysspessa wiltshirei* Daniel, 1938 (Lepidoptera, Cossidae) based on the type specimens. *Ukrainian Journal of Ecology*, 7(3), 108-110, doi: 10.15421/2017\_55
- Yakovlev, R.V. & Dubatolov, V.V. (2013). Distribution of Carpenter-Moths (Lepidoptera, Cossidae) in Palaearctic Deserts. *Zoologicheskyy Zhurnal*, 92(6), 682-694. doi: 10.7868/S0044513413040193
- Yakovlev, R.V. & Witt, Th.J. (2017). Taxonomic notes about *Paropta* Staudinger, 1899 (Lepidoptera: Cossidae). *Zoology in the Middle East*, 63(2), 166-171. doi: 10.1080/09397140.2017.1315858

---

### Citation:

Yakovlev, R.V., Witt, T.J. (2018). A species of Cossidae (Insecta: Lepidoptera) new for the fauna of Iraq.

*Ukrainian Journal of Ecology*, 8(4), 484-486.



This work is licensed under a Creative Commons Attribution 4.0. License