
FAUNISTIC RECORDS FROM THE CZECH REPUBLIC – 570

Lepidoptera: Heliozelidae, Yponomeutidae, Gracillariidae, NoctuidaeJan SITEK¹⁾, Antonín FLORIÁN²⁾ & Jan LIŠKA³⁾¹⁾ Hasičská 3031, CZ-738 01 Frýdek-Místek, Czech Republic;
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CZ-156 04 Praha 5 – Zbraslav, Czech Republic; e-mail: liska@vulhm.cz**Heliozelidae**

Heliozela lithargyrellum (Zeller, 1850). Moravia mer.: Lanžhot-Soutok, sandy oak stand near Polinka cottage (7367), 20.iv.2009, 1 ♂, J. Liška lgt., det. et coll.; Pavlov env., Děvín hill (7165), 410 m a.s.l., 21.iv.2018, 1 ♀ (Fig. 1), at light, J. Sitek lgt., det. et coll.

Hitherto recorded from southern France, Corsica, Sicily, mainland Italy (Kusdas 1973, Wojtusiak 1996), and Croatia (Lepiforum 2024). As the species has not yet been recorded in central Europe, we also include an unpublished record from Slovenia: Črni Kal – Črnotiče, 1.v.2024, 1 ♀, J. Liška lgt., det. et coll. The presented Czech records are currently also the most northern records within the distribution of the species. New species for the Czech Republic.

Yponomeutidae

Yponomeuta mahalebella Guenée, 1845. Moravia mer., Mikulov, Svatý kopeček hill, (7165), 270 m a.s.l., 11.v.2024, nest of larvae on *Prunus mahaleb*, emerged 15.–17.vii.2024, 7 ♂♂ and 9 ♀♀ (Fig. 2), A. Florián lgt., det. et coll.

Findings are recorded from France, Germany, Switzerland, Sicily, mainland Italy, Luxembourg, and Ukraine (Lepiforum 2024). No records of *Y. mahalebella* have been published for a long time, because some authors consider it to be only a form of *Y. padella* (Lepiforum 2024). The first report from the Czech Republic was published by Zimmermann & Skala (1947) from Svatý kopeček hill near Mikulov and Pálava hills (“Pollauer Berge”). Moths from the same area are also in the collection (now in the National Museum in Prague) of prominent Moravian lepidopterologist Jaroslav Marek, who reared adults from a caterpillar nest found on Tabulová hora in June 1992 (verbal communication and photograph by Z. Laštůvka). The species is listed in the annotated checklist of lepidopteran species of the South Moravian Region (Laštůvka & Laštůvka 2021) and the updated list of butterflies and moths of the Czech Republic (Laštůvka et al. 2023) but no detailed faunistic data were given. The first detailed faunistic data from the Czech Republic.



Fig. 1. Female of *Heliozela lithargyrellum* (Zeller, 1850) from Děvín Hill, wingspan 5.9 mm. Photograph by J. Sitek.
Obr. 1. Samice *Heliozela lithargyrellum* (Zeller, 1850) z lokality Děvín, rozpětí křídel 5,9 mm. Fotografie J. Sitek.

Gracillariidae

Dialectica scalarisella (Zeller, 1850). Moravia mer., Mikulov, Na Cvičišti Natural Monument (7166), 290 m a.s.l., 29.viii.2024, 1 ♂, at light, J. Sitek lgt., det. et coll., 4.ix.2024, mines with larvae in leaves of *Echium vulgare*, emerged 15.–18.ix.2024, 3 ♂♂ (Fig. 3), 1 ♀, J. Sitek and A. Florián lgt., det. et coll.

The wide distribution of this species is summarized by Özaslan et al. (2016): southern Europe (Portugal including Madeira, Spain including the Canary Islands, southern France, Italy, Malta, Greece, Croatia, and Bulgaria), England, eastern Europe (Ukraine and Russia), north eastern Africa (Morocco, Algeria, and Tunisia), the Middle East (Turkey, Jordan, and Israel), Turkmenistan, and Australia (deliberately introduced for biological control of *Echium plantagineum* imported from the Mediterranean). The first record from New Zealand shown by Hoare (2001). Its gradual spread in central Europe to the north and northeast is shown by new records from Austria, Germany, and Switzerland (Rennwald et al. 2008, Lepiforum 2024). The occurrence of this species is usually detected from the larval mines in leaves of food plants – *Echium vulgare* in central Europe. New species for the Czech Republic.

Noctuidae

Mythimna unipuncta (Haworth, 1809). Moravia mer., Milovice, Milovická stráž Nature Reserve (7166), 230 m a.s.l., 11.ix.2024, 1 ♂ (Fig. 4), at sugar bait, T. Foltýn lgt., A. Florián det. et coll.



Fig. 2. Female of *Yponomeuta mahalebella* Guenée, 1845 from Svatý kopeček hill, wingspan 25.7 mm. Photograph by J. Sitek.

Obr. 2. Samice *Yponomeuta mahalebella* Guenée, 1845 z lokality Svatý kopeček, rozpětí křídel 25,7 mm. Fotografie J. Sitek.

Distributed from the Azores and the Canary Islands through northern Africa, southern Europe, Turkey to northern Pakistan, as well as in North America (Hacker et al. 2002). A rare migrant in central and northern Europe. First recorded in the Czech Republic in 1966 in the White Carpathians in southern Moravia (Krampl 1976), later only in the 1970s in Bohemia and Moravia. The last registered occurrences in territory of the Czech Republic were recorded in Brno – Černá Pole in southern Moravia in 1973 (Marek 1974) and in the Novohradské hory Mts. of southern Bohemia in 1979 (Krampl et al. 1980). Reconfirmed occurrence in Moravia after 51 and in the Czech Republic after 45 years.

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REFERENCES

- HACKER H., RONKAY L. & HREBLAY M. 2002: *Hadeninae I – Noctuidae Europaeae, volume 4*. Entomological Press, Sorø, 419 pp.
- HOARE R. J. B. 2001: Adventive species of Lepidoptera recorded for the first time in New Zealand since 1988. *New Zealand Entomologist* **24**: 23–47.
- KRAMPL F. 1976: *Heliophobus texturata* Alph. na Slovensku a další nálezy druhů *Euxoa temera* Hb. a *Mythimna unipuncta* Haw. (Lep. Noctuidae). (*Heliophobus texturata* Alph. in der Slowakei und weitere Funde der Arten *Euxoa temera* Hb. und *Mythimna unipuncta* Haw.). *Zprávy Československé Společnosti Entomologické při ČSAV* **12**: 73–75 (in Czech, German summary).



Fig. 3. Male of *Dialectica scalarielli* (Zeller, 1850) from Na Cvičišti Natural Monument, wingspan 7.4 mm. Photograph by J. Sitek.

Obr. 3. Samec *Dialectica scalarielli* (Zeller, 1850) z přírodní památky Na Cvičišti, rozpětí křídel 7,4 mm. Fotografie J. Sitek.

- KRAMPL F., MAREK J. & NOVÁK Z. 1980: Beitrag zur Lepidopterenfaunistik der Tschechoslowakei. *Acta Faunistica Entomologica Musei Nationalis Pragae* **16**: 89–105.
- KUSDAS K. 1973: Beitrag zur Kenntnis der Insektenfauna von Korsika. *Zeitschrift der Arbeitsgemeinschaft Österreichischer Entomologen* **24**: 153–166.
- LAŠTŮVKA Z. & LAŠTŮVKA A. 2021: *Motýli (Lepidoptera) Jihomoravského kraje: komentovaný přehled druhů. (Butterflies and moths (Lepidoptera) of the South Moravian Region: an annotated list of species)*. Mendel University in Brno, Brno, 140 pp. (in Czech, English abstract and summary).
- LAŠTŮVKA Z., LIŠKA J. & ŠUMPICH J. 2023: *Motýli (Lepidoptera) Česka – aktualizovaný seznam druhů. Butterflies and moths (Lepidoptera) of Czechia – updated list of species*. Mendel University in Brno, Brno, 108 pp. (in Czech and English).
- LEPIFORUM e. V. (ed.) 2024: *Bestimmungshilfe für die in Europa nachgewiesenen Schmetterlingsarten*. <http://lepiforum.org/wiki/taxonomy/> (accessed 24 September 2024).
- MAREK J. 1974: Tři druhy lepidopter nové pro ČSSR (Noctuidae, Geometridae). (Three species of Lepidoptera new for the Czechoslovakia (Noctuidae, Geometridae)). *Biológia* **29**: 461–435 (in Czech, English and Russian summary).
- ÖZASLAN C., BOLU H., CAN CENGİZ F. & RAY P. 2016: A new host and natural enemies of *Dialectica scalarielli* (Zeller) (Lepidoptera: Gracillariidae) in Turkey. *Türkiye Entomoloji Bülteni* **6** (1): 9–14.
- RENNWALD E., LAUX D., BRYNER R. & SONDERREGER P. 2008: Zu den Erstnachweisen von *Dialectica scalarielli* (Zeller, 1850) in Deutschland und der Schweiz nördlich der Alpen – eine Folge von Klimawandel oder mangelnder Beachtung? (Lepidoptera, Gracillariidae). *Nachrichten des Entomologischen Vereins Apollo, Neue Folge* **28**: 173–178.
- WOJTUSIAK J. 1996: Heliozelidae. P. 6. In: KARSHOLT O. & RAZOWSKI J. (eds): *The Lepidoptera of Europe. A Distributional Checklist*. Apollo Books, Stenstrup, 380 pp.
- ZIMMERMANN F. & SKALA H. 1947: Kleinfalter aus Mähren-Schlesien. *Zeitschrift der Wiener Entomologischen Gesellschaft* **31** (1946): 121–123.



Fig. 4. Male of *Mythimna unipuncta* (Haworth, 1809) from Milovická stráň Nature Reserve. Photograph by T. Foltýn.
Obr. 4. Samec *Mythimna unipuncta* (Haworth, 1809) z Přírodní rezervace Milovická stráň. Fotografie T. Foltýn.



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