

On the distribution of *Tychus normandi* (Coleoptera: Staphylinidae: Pselaphinae) in Bohemia

Poznámky k rozšíření *Tychus normandi* (Coleoptera: Staphylinidae: Pselaphinae) v Čechách

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Faunistics, *Tychus normandi*, Coleoptera, Staphylinidae, Pselaphinae, Bohemia, Czech Republic

Abstract. In this paper, we present new findings of *Tychus normandi* Jeannel, 1950 in Central Bohemia: Libický luh National Nature Reserve near Libice nad Cidlinou and Poděbrady. Its ecological requirements and distribution are discussed.

INTRODUCTION

The occurrence of *Tychus normandi* Jeannel, 1950 in the Czech Republic was first published by Štourač (2008) from Libický luh National Nature Reserve. Apart from the Czech Republic, the species is known from Denmark, France, Italy, Norway and Sweden (Schülke & Smetana 2015).

RESULTS

Recent findings of *Tychus normandi* in Bohemia:

Bohemia centr.: Libice nad Cidlinou env., Libický luh National Nature Reserve (5857), 50°06'57.8"N 15°10'37.23"E, 28.iv.2008, 1 ♂ and 5 ♀♀, M. Švarc leg., det. et coll.; same locality, 29.vii.2009, 1 ♂ and 12 ♀♀, A. Šíma leg., det. et coll.; 3 ♂♂ and 5 ♀♀, M. Švarc leg., det. et coll.; same locality, 23.vi.2011, 4 ♂♂ and 12 ♀♀, A. Šíma leg., det. et coll.; same locality, 29.vi.2012, 4 ♂♂ and 15 ♀♀, M. Švarc leg., det. et coll.; same locality, 30.vi.2012, 11 ♂♂ and 26 ♀♀, A. Šíma leg., det. et coll. All specimens were collected by sifting fallen leaves and leaf litter on mud on the bank of a temporary pool. This is the original locality published by Štourač (2008), who found the species only around one single temporary pool (P. Štourač, pers. comm. 2012).

Bohemia centr.: Libice nad Cidlinou env., Libický luh National Nature Reserve (5857), 50°06'14.8"N 15°10'08"E, 5.v.2012, 3 ♂♂ and 5 ♀♀, J. Jelínek leg. et coll., A. Šíma det.

Bohemia centr.: Libice nad Cidlinou env., Libický luh National Nature Reserve (5857), 50°6'34.5"N 15°09'54.6"E, 3 ♂♂ and 1 ♀, J. Jelínek leg. et coll., A. Šíma det.

Bohemia centr.: Poděbrady-Kluk (5856), 50°07'27.2"N 15°07'49.2"E, 21.v.2017, 2 ♂♂ and ♀♀, sifting fallen leaves and leaf litter in a marsh, A. Šíma leg., det. et coll.



Fig. 1. Poděbrady-Kluk, Alnetum with occurrence of *Tychus normandi* Jeannel, 1950. Photography Adam Šíma.
Obr. 1. Poděbrady-Kluk, olšina s výskytem *Tychus normandi* Jeannel, 1950. Fotografie Adam Šíma.

DISCUSSION

Tychus normandi shows a discontinuous distribution in Europe (Schülke & Smetana 2015). Libický luh National Nature Reserve has until now represented the only known isolated locality in the Czech Republic. A new finding in Poděbrady-Kluk, approximately 2.5 km east of Libický luh National Nature Reserve, indicates either the expansion of the species in the vicinity of Libický luh Natural Nature Reserve, or a wider distribution in the Central Polabí territory.

The typical habitats for this species are similar to those of all hydrophilous Tychini, comprising marshes and bottomland forests (Figs 1, 2). It occurs on the banks of both temporary and permanent pools, and can be found by sifting of leaf litter and wet soil. In the Czech Republic, *Tychus normandi* occurs in the same habitats as the common *Tychus niger* (Paykull, 1800). Targeted searching for new localities for *T. normandi* in Central Polabí and beyond, is a task for future research.

Accurate determination of *Tychus* females is only possible based on telisternites, and indisputable identification of males can only be based on the study of the aedeagus. Therefore it is important to pay careful attention to determination of all *Tychus* specimens, since the surprising occurrence of other species of the genus in the Czech Republic remains possible.



Fig. 2. Poděbrady-Kluk, microhabitat of *Tychus normandi* Jeannel, 1950. Photography Adam Šíma.
Obr. 2. Poděbrady-Kluk, mikrohabitat *Tychus normandi* Jeannel, 1950. Fotografie Adam Šíma.

ACKNOWLEDGEMENT. We thank Jiří Ch. Vávra (Ostrava, Czech Republic) and Jan Růžička (Praha, Czech Republic) for valuable comments on the manuscript, and Petr Štourač (†) for information on the circumstances of the finding of *Tychus normandi*. We also thank Maxwell V. L. Barclay (London, Great Britain) for revision of the English.

REFERENCES

- SCHÜLKE M. & SMETANA A. 2015: Family Staphylinidae Latreille, 1802. Pp. 304–1134. In: LÖBL I. & LÖBL D. (eds): *Catalogue of Palaearctic Coleoptera. Volumes 2/1, 2/2. Hydrophiloidea – Staphylinidea. Revised and Updated Edition*. Brill, Leiden & Boston, xxvi + 1702 pp.
- ŠTOURAČ P. 2008: Faunistic records from the Czech Republic – 254. Coleoptera: Staphylinidae: Pselaphinae, Tachyporinae, Aleocharinae. *Klapalekiana* **44**: 81–82.

SOUHRN

Výskyt *Tychus normandi* Jeannel, 1950 byl v České republice až dosud znám pouze v NPR Libický luh (Štourač 2008), kde se podle nových poznatků jedná o hojný druh na celém území rezervace. Nález v Poděbradech-Kluku představuje první známou lokalitu mimo území NPR Libický luh a lze předpokládat jeho plošnější rozšíření ve Středním Polabí. Druh se vyskytuje v lužních lesích a mokřadech na stejných stanovištích jako široce rozšířený *Tychus*

niger (Paykull, 1800), kde může být sbírán prosevem spadaneho listí a hrabanky na bahně zazemňujících se periodických i stálých tůní. Vzhledem k často diskontinuálnímu výskytu druhů rodu *Tychus* je třeba věnovat determinaci všech exemplářů rodu nejen z území České republiky pečlivou pozornost.