

First record of sawfly *Pachynematus styx* (Benson, 1958) (Hymenoptera: Tenthredinidae) in Bohemia (Czech Republic)

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Abstract

The sawfly *Pachynematus styx* (Benson, 1958) was found in the Bohemian Forest (=Šumava Mts.), which is the first record in Bohemia (western part of the Czech Republic). *P. styx* is probably widespread throughout the area of Norway spruce (*Picea abies*) forests in Central Europe, although the abundance may be low.

Key words: *Pachynematus styx*, spruce forests, faunistics, Czech Republic

INTRODUCTION

Description of the sawfly *Pachynematus styx* (Benson, 1958) has been based on one female and four males reared out by Thalenhorst from type locality Sieber (600 m a.s.l.) in the Harz Mts. (BENSON 1958). Later it has been found and is known from Belgium, the Czech Republic, Finland (LACOURT 1999) and Slovakia (ROLLER 1999). From Germany, only the type series was known, but recently this species was found in Thuringia (1986–1989, LISTON, pers. comm., in press). It seems that the distribution of the species is restricted to Central and Western Europe (LACOURT 1999). In the Czech Republic, this species was known only from Moravia (eastern part of the Czech Republic) (BENEŠ 1989).

MATERIAL

Jezerní Hora Mt., place of Špičák, 13°12' E; 49°11' N; 6845; 1180 m a.s.l., mature forest of Norway spruce, 30 Apr – 1 Jun 2003, 1 M, Malaise trap [TOWNES (1972) type], leg. R. Volf, det. J. Holuša, coll. FGMRI Jiloviště-Strnady.

RESULTS AND DISCUSSION

The sawfly *P. styx* is probably widespread throughout the area of Norway spruce forests (*Picea abies*) in Central Europe, although the abundance may be low and distribution can be rather fragmental. KŘÍSTEK (1980) found only 6 males and 10 females using emergence traps in the locality of Rájec (480–650 m a.s.l.) during the period 1973–1979. It has not been found during the extensive study in the eastern part of the Czech Republic (HOLUŠA 2002).

So far, only single specimen has been found even by using very effective method, like Malaise traps, for collection of sawflies. But even commonly abundant species in spruce

forests as *P. scutellatum* (Hartig, 1837) and *P. montanum* (Zaddach, 1883) were found in a few specimens (eight and one, respectively) in this locality in 2003. On the other hand, a total of 122 specimens of *P. pallescens* (Hartig, 1837) were caught. Period of collection probably corresponds with the data by KŘÍSTEK (1980). Males and females emerged at the second decade of May and at the last decade of May in the locality of Rájec, respectively.

Acknowledgement. This paper was supported by the grant No. MZE 0002070201 of the Ministry of Agriculture of the Czech Republic.

REFERENCES

- BENEŠ K., 1989: Symphyta. In: Check list of Czechoslovak Insects III (Hymenoptera), ŠEDIVÝ J. (ed.) *Acta Faunistica entomologica Musei nationalis Pragae*, 19: 14–25.
- BENSON R.B., 1958: A new European species of *Pachynematus* Konow (Hymenoptera, Tenthredinidae) feeding on Spruce (Picea). *Bulletin of Entomological Research*, 49(2): 301–303.
- HOLUŠA J., 2002: Species composition of spruce tenthredinids (Hymenoptera: Tenthredinidae) in the eastern part of the Czech Republic. *Biológia* (Bratislava), 57: 213–222.
- KŘÍSTEK J., 1980: Diprionidae, Nematinae a Pamphiliidae žijící na smrku – poznatky z rozšíření na Moravě a z populační dynamiky [Diprionidae, Nematinae a Pamphiliidae living on spruce – knowledge on occurrence in Moravia and on population dynamics]. In: Populační dynamika hmyzích lesních škůdců jako základ integrované ochrany lesů proti nim [Population dynamics of forest pest as a background of integrated pest management], Ms., Doctoral thesis, Mendel Agricultural and Forestry University, Brno, Supplement Nr. 16, 82 pp. (Library of Mendel Agricultural and Forestry University, Brno) (in Czech)
- LACOURT J., 1999: Répertoire des Tenthredinidae ouest-paléarctiques (Hymenoptera, Symphyta). *Mémoires de la société entomologique de France*, 3: 1–432.
- ROLLER L., 1999: Check-list of the sawflies (Hymenoptera, Symphyta) of Slovakia. *Entomological Problems*, 30: 37–48.
- TOWNES H., 1972: A light-weight Malaise trap. *Entomological News*, 83: 239–247.

Received: 11 February 2005
Accepted: 9 March 2005