

CHECKLIST OF HARVESTMEN (OPILIONES) OF CZECHIA AND SLOVAKIA

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Abstract

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A checklist of harvestmen of Czechia and Slovakia is presented, with notes on selected species. Currently 28 species are known from Bohemia, 30 from Moravia (i.e. 33 from the Czech Republic), and 33 species from Slovakia.

Introduction

The first checklist of harvestmen of a region within the current Czech and Slovak Republics was published by BARTA (1869; a Czech version of this paper was published in 1870), who presented a list from the north of Bohemia. He named seven species, of which one was later synonymized with another species. After more than 30 years NOSEK (1900) published an identification key for harvestmen in Bohemia and Moravia. Out of his taxa 20 are currently accepted species with 19 species known from Bohemia and one from Moravia. It took 34 years before the next attempt to summarise the knowledge on harvestmen of the territory of the former Czechoslovakia was published. It was KRATOCHVÍL (1934), who presented the first critical account of harvestmen from Czechoslovakia. He was also the first who paid serious attention to the Slovak fauna. KRATOCHVÍL (op. cit.) confirmed the occurrence of 50 "forms" (species and subspecies; p. 2) in the country. When synonymous taxa are removed, 26 species from Bohemia, 21 species from Moravia, and 32 species from Slovakia remain. During the following nearly 50 years the literature on the Czech and Slovak harvestmen was dominated by Vladimír Šilhavý. In 1956 he published a monograph on the harvestmen of Czechoslovakia (ŠILHAVÝ, 1956). The numbers of species confirmed by him for Bohemia, Moravia and Slovakia were 29, 24 and 32, respectively. These are not much higher estimates than those given in the previous treatment by KRATOCHVÍL (1934),

Table 1. Harvestmen (Opiliones) recorded from Czechia and Slovakia.

	Bohemia	Moravia (incl. Silesia)	Czech Republic (=Bohemia+ Moravia)	Slovakia
EREBOMASTRIDAE				
1. <i>Holoscotolemon jaqueti</i> (CORTI, 1905) ¹	-	-	-	*
SIRONIDAE				
2. <i>Siro carpaticus</i> RAFALSKI, 1956	-	-	-	*
NEMASTOMATIDAE				
3. <i>Mitostoma chrysomelas</i> (HERMANN, 1804)	*	*	*	*
4. <i>Nemastoma bidentatum</i> ROEWER, 1914 subsp. <i>sparsum</i> GRUBER ET MARTENS, 1968	-	-	-	*
5. <i>Nemastoma lugubre</i> (MÜLLER, 1776)	*	*	*	*
6. <i>Nemastoma triste</i> (C. L. KOCH, 1835)	*	-	*	-
7. <i>Paranemastoma kochi</i> (NOWICKI, 1870)	-	*	*	*
8. <i>Paranemastoma quadripunctatum</i> (PERTY, 1833)	*	*	*	*
TROGULIDAE				
9. <i>Dicranolasma scabrum</i> (HERBST, 1799)	-	-	-	*
10. <i>Trogulus nepaeformis</i> agg.	*	*	*	*
11. <i>Trogulus tricarinatus</i> (LINNAEUS, 1767)	*	*	*	*
ISCHYROPSALIDIDAE				
12. <i>Ischyropsalis hellwigi</i> (PANZER, 1794) subsp. <i>hellwigi</i>	*	*	*	-
13. <i>Ischyropsalis manicata</i> L. KOCH, 1869	-	*	*	*
PHALANGIIDAE				
PHALANGIINAE				
14. <i>Egaenus convexus</i> (C. L. KOCH, 1835)	-	*	*	*
15. <i>Lophopilio palpinalis</i> (HERBST, 1799)	*	*	*	*
16. <i>Opilio canestrinii</i> (THORELL, 1876) ²	*	*	*	*
17. <i>Opilio dinaricus</i> ŠILHAVÝ, 1938	-	-	-	*
18. <i>Opilio parietinus</i> (DE GEER, 1778)	*	*	*	*
19. <i>Opilio saxatilis</i> C. L. KOCH, 1839	*	*	*	*
20. <i>Phalangium opilio</i> LINNAEUS, 1761	*	*	*	*
21. <i>Platybunus bucephalus</i> (C. L. KOCH, 1835)	*	*	*	*
22. <i>Platybunus pallidus</i> ŠILHAVÝ, 1938	-	*	*	*
23. <i>Rilaena triangularis</i> (HERBST, 1799)	*	*	*	*
24. <i>Zachaeus crista</i> (BRULLÉ, 1832)	-	*	*	*
OLIGOLOPHIINAE				
25. <i>Oligolophus tridens</i> (L. KOCH, 1836)	*	*	*	*
26. <i>Lacinius dentiger</i> (C. L. KOCH, 1848)	*	*	*	*
27. <i>Lacinius ephippiatus</i> (C. L. KOCH, 1835)	*	*	*	*
28. <i>Lacinius horridus</i> (PANZER, 1794)	*	*	*	*
29. <i>Mitopus morio</i> (FABRICIUS, 1799)	*	*	*	*
GYANTINAE				
30. <i>Gyas titanus</i> SIMON, 1879	*	*	*	*
31. <i>Dicranopalpus</i> sp. ³	-	-	-	*
SCLEROSOMATINAE				
32. <i>Astrobonus laevipes</i> (CANESTRINI, 1872)	*	*	*	*
LEIOBUNUNAE				
33. <i>Leiobunum blackwalli</i> MEADE, 1861	*	-	*	-
34. <i>Leiobunum limbatum</i> L. KOCH, 1861	*	*	*	-
35. <i>Leiobunum rotundum</i> (LATREILLE, 1798)	*	*	*	*
36. <i>Leiobunum rupestre</i> (HERBST, 1799) ⁴	*	*	*	-
37. <i>Leiobunum tisciae</i> AVRAM, 1968 ⁴	*	*	*	*
38. <i>Nelima gothica</i> LOHMANDER, 1945	*	-	*	-
39. <i>Nelima semproni</i> SZALAY, 1951	*	*	*	*
Total number of species	28	30	33	33

¹ A subadult specimen has recently been found in the Cerová vrchovina Mts. (FRANC, MLEJNEK, 1999). ² Recently recorded also from Slovakia (KLIMEŠ, 1999). ³ Only immature specimens have been collected so far (KRATOCHVÍL, 1934; PEKÁR, in litt.). Two species of *Dicranopalpus* have been recorded in eastern Europe: *D. gasteinensis* DOLESCHAL, 1852 (WEISS, 1996) and *D. fraternus* SZALAY, 1950. They were tentatively synonymized by MARTENS (1978). More collecting is needed to revise the genus in the area. ⁴ ŠILHAVÝ (1981) was the first who distinguished in former Czechoslovakia within the *Leiobunum rupestre* aggregate two species. The species distributed in Slovakia, named *L. glabrum* by Šilhavý, is hardly conspecific with *Nelima glabra*, which was described from Tirol. Thus, the name *L. tisciae* AVRAM, 1968 should be used for the species distributed in Slovakia (see also WEISS, 1996).



Fig. 1. Map of Central Europe with Bohemia and Moravia (incl. Silesia) as historic countries within the Czech Republic. Total number of harvestmen species in individual neighbouring countries is given in brackets.

but numerous earlier errors were corrected. In the early 1970s Šilhavý published a key for the harvestmen of Czechoslovakia (ŠILHAVÝ, 1971), in which the number of confirmed species further decreased (23, 23 and 28, respectively, for the three regions). The critical account of Central-European harvestmen by MARTENS (1978) did not change the overall picture of our opilionid fauna. Two species were added to the Moravian fauna, whereas in Bohemia and Slovakia the number of confirmed species remained unchanged, in spite of a few corrections and new records.

During the last 20 years several more species have been found, so that at present 28 species of harvestmen are known from Bohemia, 30 from Moravia (33 together) and 33 species from Slovakia (Table 1, Fig. 1). This increase was partly caused by the recent spreading of two synanthropic species (*Leiobunum limbatum* L. KOCH and *Opilio canestrinii* (THORELL); nomenclature follows MARTENS, 1978; CRAWFORD, 1992 (*Zachaeus*); GRUBER, 1985 (*O. canestrinii*)) to Bohemia and Moravia (KLIMEŠ, ROUŠAR, 1998; KLIMEŠ, 1999, unpubl.), by new records of species expected in Slovakia by earlier authors (*Siro carpaticus* RAFALSKI (MAŠÁN, 1998); *Holoscotolemon jaqueti* (CORTI) (FRANC, MLEJNEK, 1999) as well as by a few other records (*Leiobunum tisciae* AVRAM in the Czech Republic (ŠILHAVÝ, 1981; KLIMEŠ, unpubl.); *Nelima gothica* LOHMANDER in Bohemia (ROUŠAR, in litt.); *Nelima semproni* SZALAY in Bohemia (ROUŠAR, 1998); *Egaenus convexus* (C. L. KOCH) in SE Moravia and the occurrence of *Zachaeus crista* (BRULLÉ) in south-eastern Moravia discovered by KRATOCHVÍL (1934) and neglected by later authors, was confirmed by KLIMEŠ, ROUŠAR (1998)).

In spite of the effort of harvestmen collectors and taxonomists there are still several problems to be solved. For example, a revision of the aggregate *Trogulus nepaeformis* in the whole distribution area is needed, occurrence of *Nemastoma bidentatum* subsp. *sparsum* GRUBER ET MARTENS in Slovakia should be confirmed, and *Dicranopalpus* sp. from Slovakia

should be identified. Several new species can be expected, such as *Opilio ruzickai* ŠILHAVÝ, 1938 in southern Moravia and southern Slovakia (synanthropic; see GRUBER, 1964 and KOMPOSCH, 1993 for data from Austria), and possibly *Paranemastoma silli* (HERMAN, 1871) in eastern Slovakia. Among the old and never confirmed records, that of *Amilenus aurantiacus* (SIMON, 1881) from central Slovakia (KRATOCHVÍL, 1934) should be mentioned.

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