



AN OVERVIEW OF HARVESTMEN (ARACHNIDA: OPILIONES) IN CROATIA

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Novak, T.: An overview of harvestmen (Arachnida: Opiliones) in Croatia. Nat. Croat., Vol. 13, No. 3., 231–296, 2004, Zagreb.

Critical review of the literature on harvestmen from Croatia was made, and data from major collections of harvestmen in Croatia are listed to provide an overview of recent knowledge on the topic. Where needed comments and/or corrections have been added to avoid further confusion. Altogether, 64 valid species and one subspecies have been firmly identified in Croatia. Two further species are undoubtedly present although not yet recorded, bringing the total number of opilionid species to 66 plus one subspecies. Potentially, up to 9–11 further species inhabit the country, and the discovery of further new species cannot be excluded. Taxonomical revisions are required in some taxa. According to present knowledge, the harvestman fauna of Croatia is among the richest ones in the Balkans.

Key words: arachnids, bibliography, Opiliones, Croatia

Novak, T.: Pregled faune kosaca (Arachnida: Opiliones) u Hrvatskoj. Nat. Croat., Vol. 13, No. 3., 231–296, 2004, Zagreb.

Da bi se dobio pregled trenutnog poznavanja teme ovog rada, napravljen je kritički pregled literature o koscima u Hrvatskoj, te su navedeni podaci iz glavnih zbirki kosaca u Hrvatskoj. Da bi se izbjegle eventualne daljnje zbrke, dodani su i komentari i/ili ispravci. U Hrvatskoj je sa sigurnošću utvrđeno 64 važećih vrsta i jedna podvrsta. Još dvije vrste su sigurno prisutne u Hrvatskoj, iako nisu zabilježene, što ukupno iznosi 66 vrsta i 1 podvrsta kosaca. Potencijalno tu živi još 9–11 vrsta, a i ne treba isključiti ni otkrivanje novih. Kod nekih skupina potrebne su i taksonomske revizije. Prema sadašnjim spoznajama fauna kosaca Hrvatske je među najbogatijima na balkanskom području.

Ključne riječi: paučnjaci, bibliografija, Opiliones, Hrvatska

INTRODUCTION

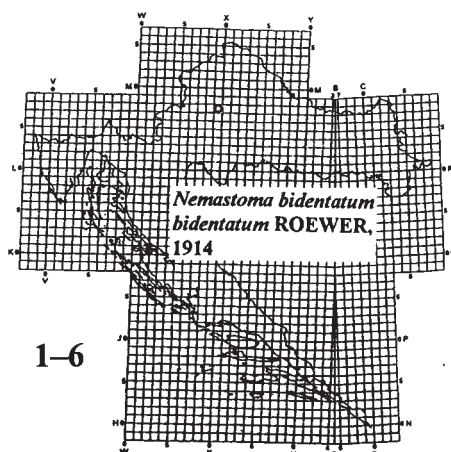
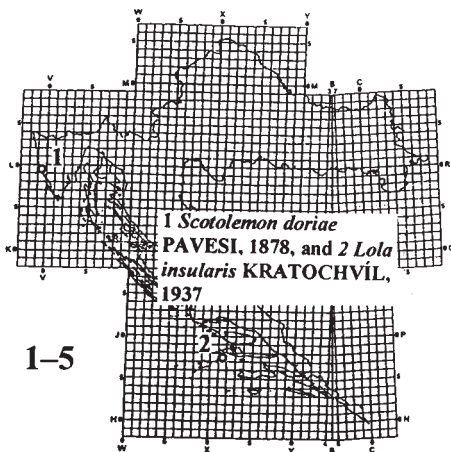
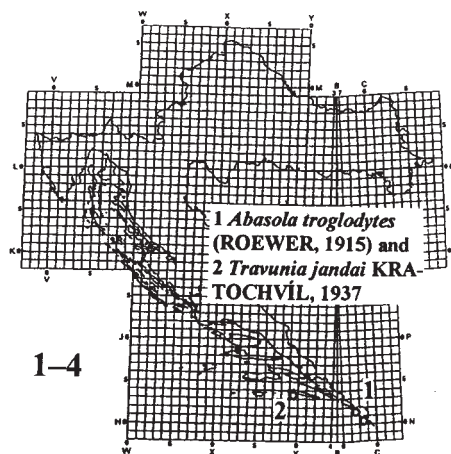
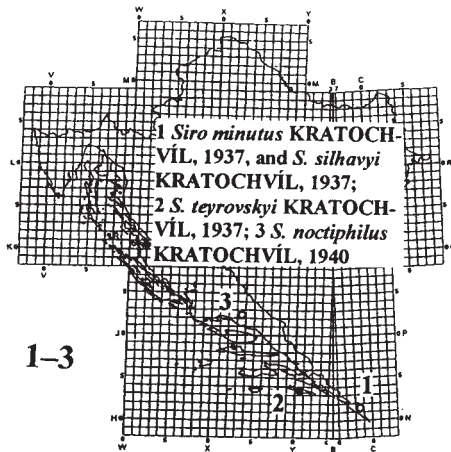
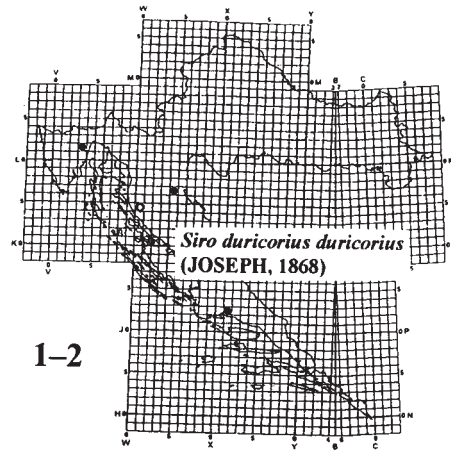
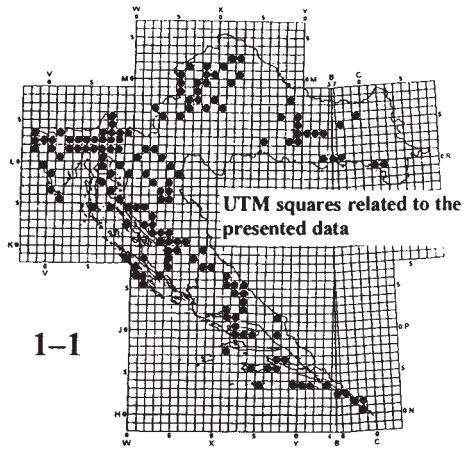
The first citations of opilionids in Croatia were provided by ROSSI (1846) and CARRARA (1846). Some other authors contributed a few citations each. The harvestman fauna of Croatia was first systematically studied by BABIĆ (1916). Subsequently, most knowledge was added by ROEWER (1911, 1912, 1914, 1915, 1917, 1923, 1940, 1950, 1951, 1956, 1957), HADŽI (1926/27, 1932, 1936, 1973a, b), KOLOSVÁRY (1929,

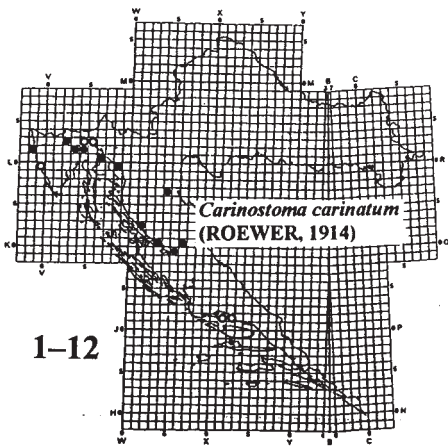
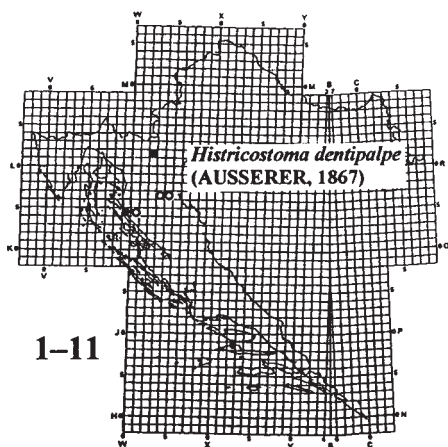
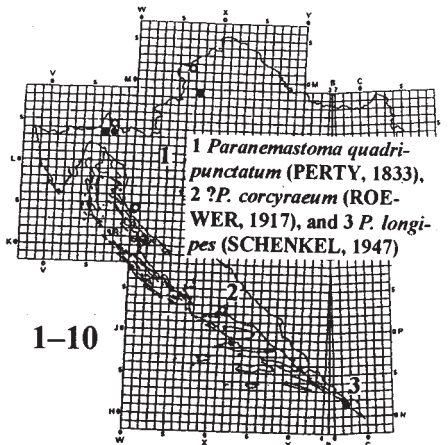
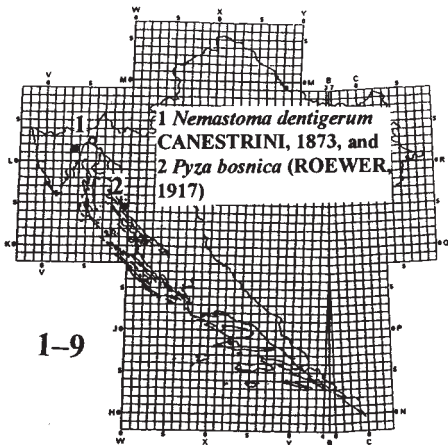
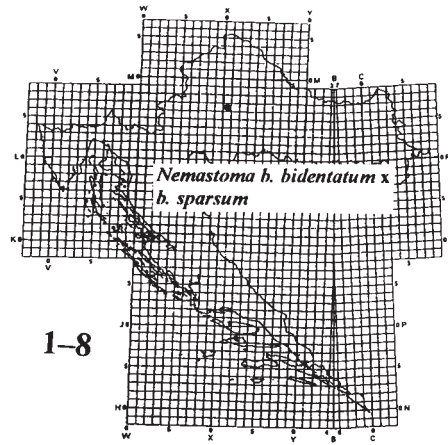
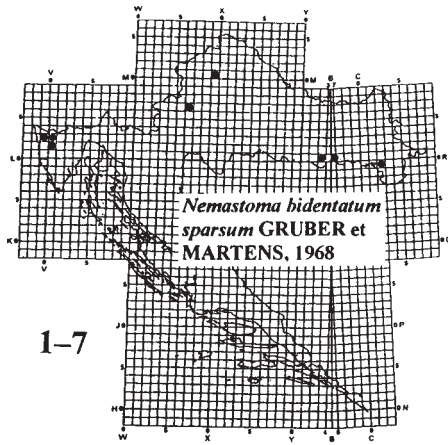
1938a, b, 1939) and KRATOCHVÍL (1937a, b, 1940, 1946, 1958a, b), among others. In this contribution the aim was to make a review of the harvestmen inhabiting Croatia, based on both bibliographic data and collection records. The published data were critically examined in terms of their taxonomic and biogeographic values, and data from some of the most important collections containing opilionids from Croatia were recorded. The 10 x 10 km² UTM code (Figs. 1–1 to 1–47), and where possible the altitude were added according to the atlas of Croatia (GROŠELJ, 2002). The summit altitude of mountains is routinely given; the actual collecting localities may be situated at lower – sometimes markedly lower – altitudes.

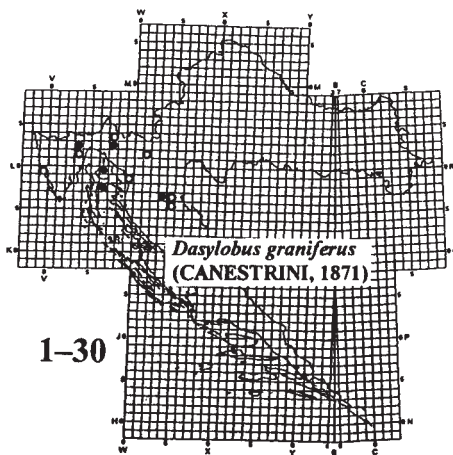
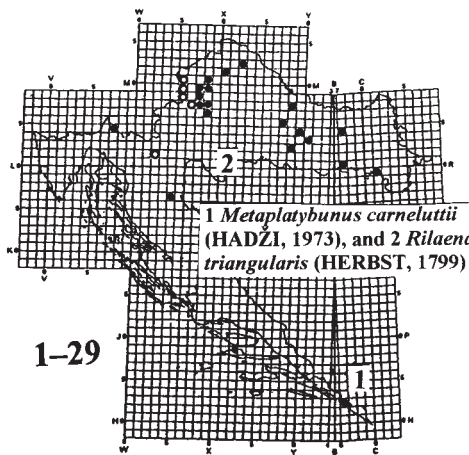
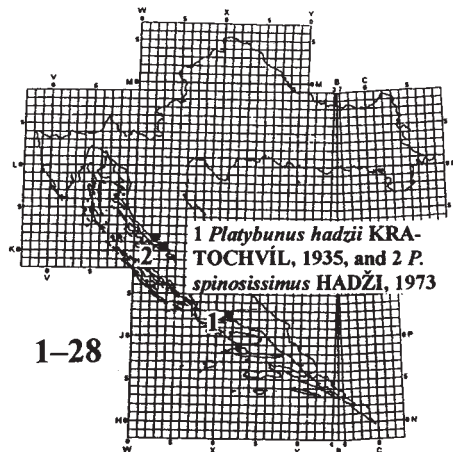
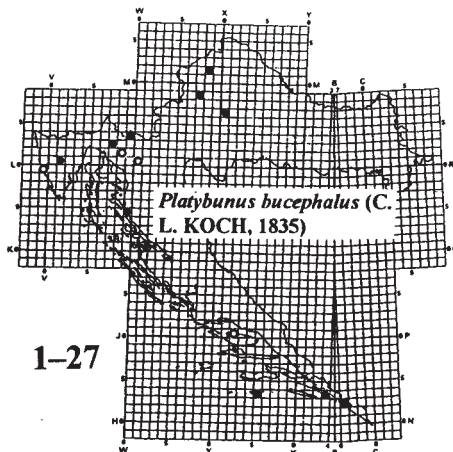
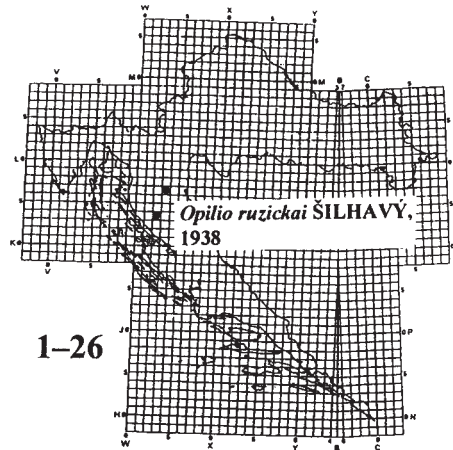
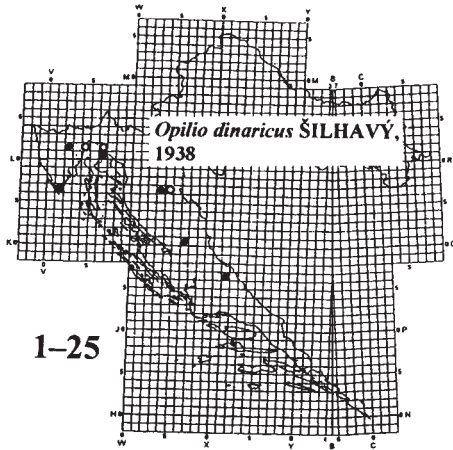
Abbreviations and symbols used

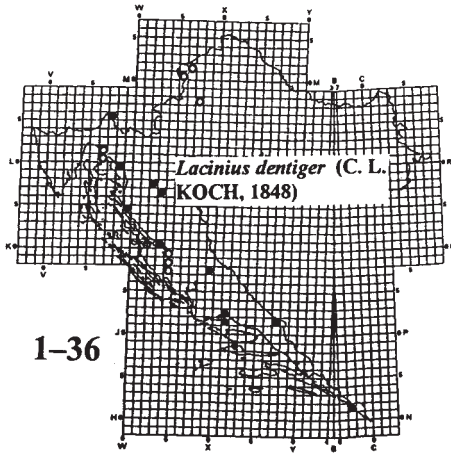
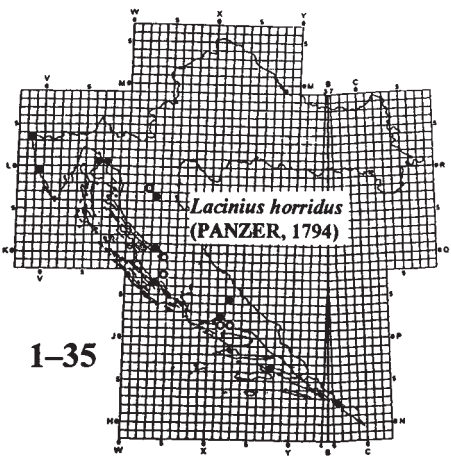
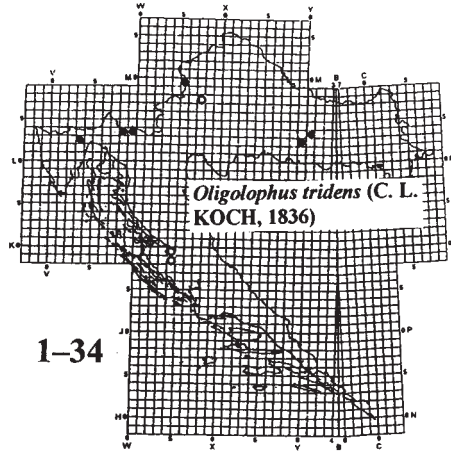
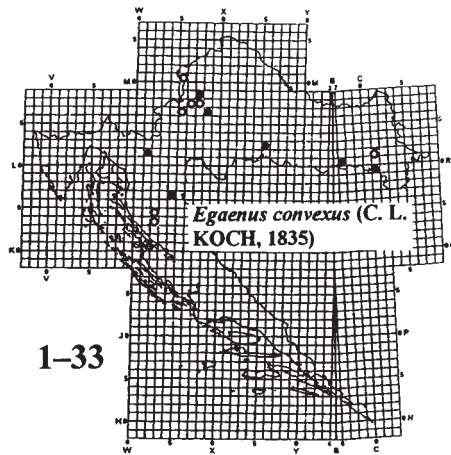
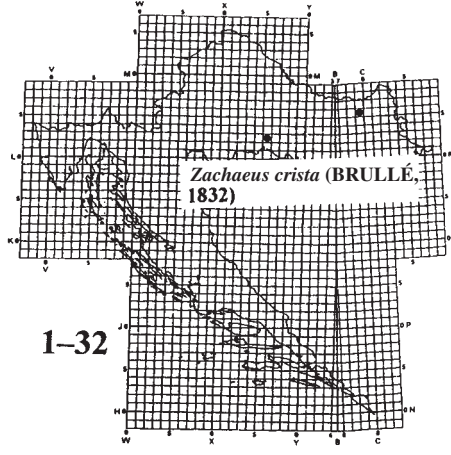
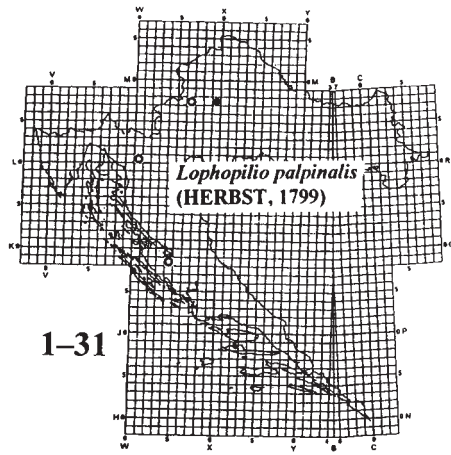
•	general record for Croatia or its region
VL31	UTM code
*	expected in Croatia
□ <i>italics</i>	wrong or doubtful citation or determination, or no record available
?	uncertain taxonomic status, synonymy possible
BIOS	Coll. BIOS, Slovene Museum of Natural History, Ljubljana
IBU	Coll. Institute of Biology University of Ljubljana
JH	(remains of) J. Hadži Coll.
JM	Coll. J. Martens, Mainz
KB	Coll. K. Babić, Croatian Natural History Museum, HPM, Zagreb
KT	Coll. K. Thaler, Innsbruck
MCSNT	Coll. Museo Civico di Storia Naturale Trieste
NHMW	Coll. Naturhistorisches Museum, Wien
PANW	Coll. Instytut Zoologiczny, Polska Akademia Nauk, Warszawa
PMSL	Coll. Slovene Museum of Natural History, Ljubljana
R	Coll. C. F. Roewer
SMF	Coll. Senckenberg-Museum, Frankfurt/Main
TN	T. Novak determination
ZMB	Coll. Zoologisches Museum Berlin
ZMH	Coll. Zoologisches Staatsinstituts des Zoologischen Museum Hamburg

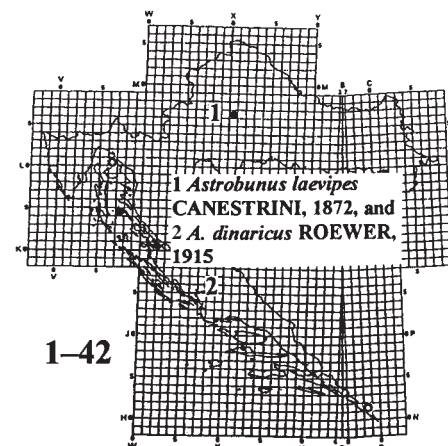
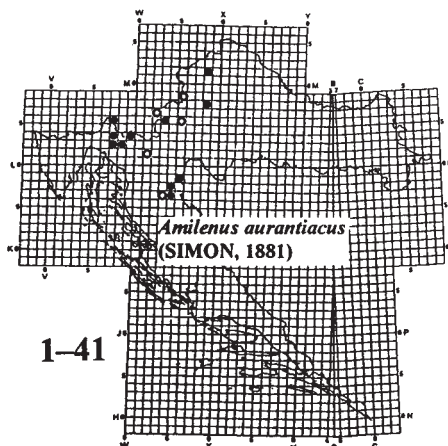
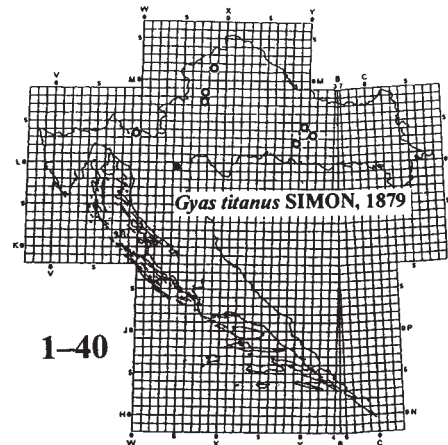
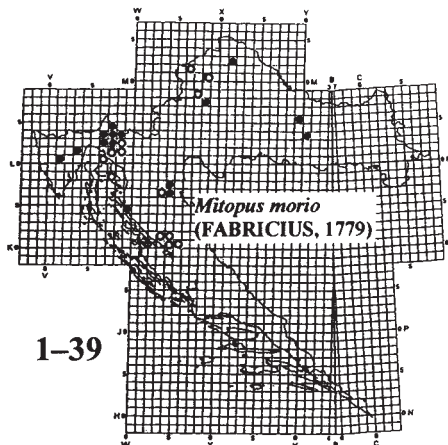
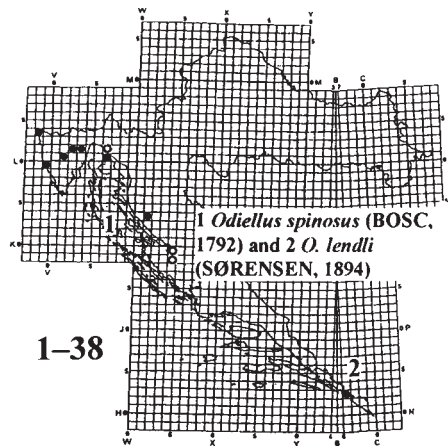
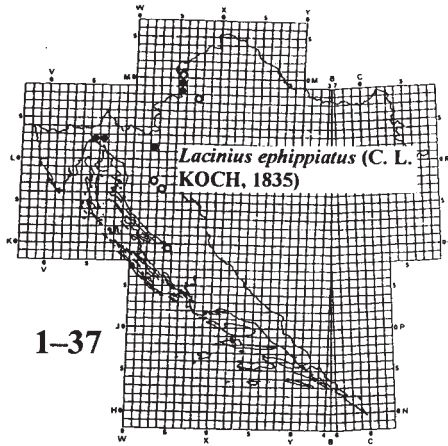
Figs. 1–1 to 1–47: The UTM grid of Croatia with marked 10x10 km squares recorded for harvestmen (blank circles – literature data, full circles – collection data) ⇒

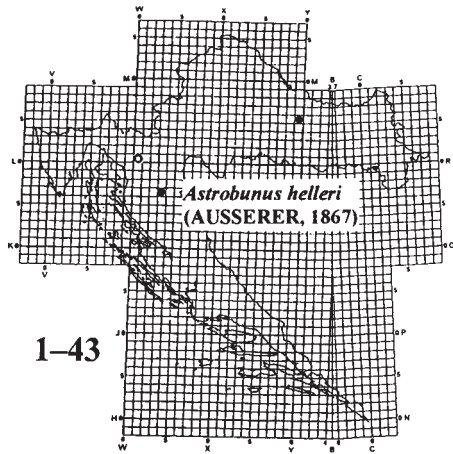




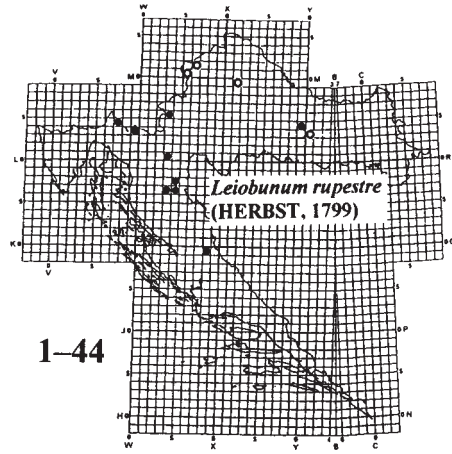




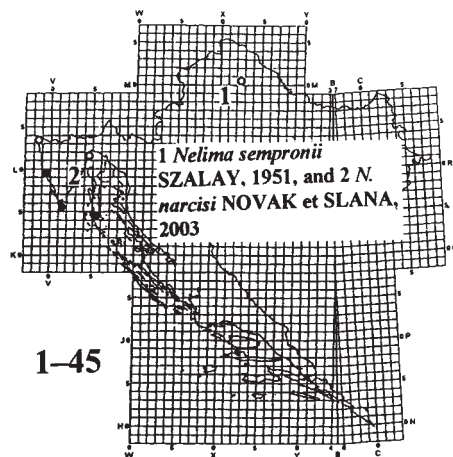




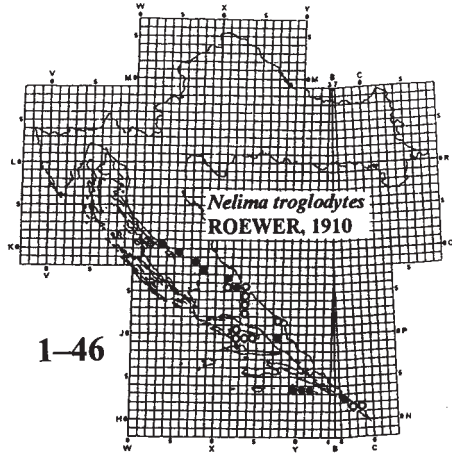
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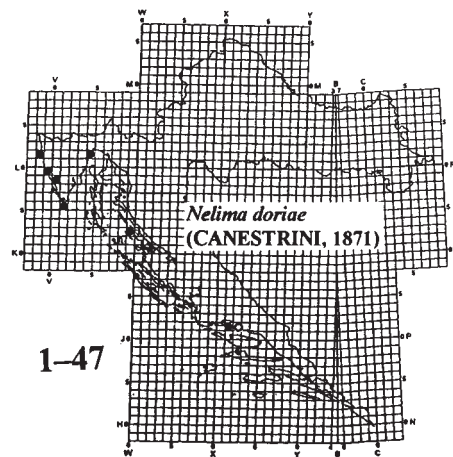
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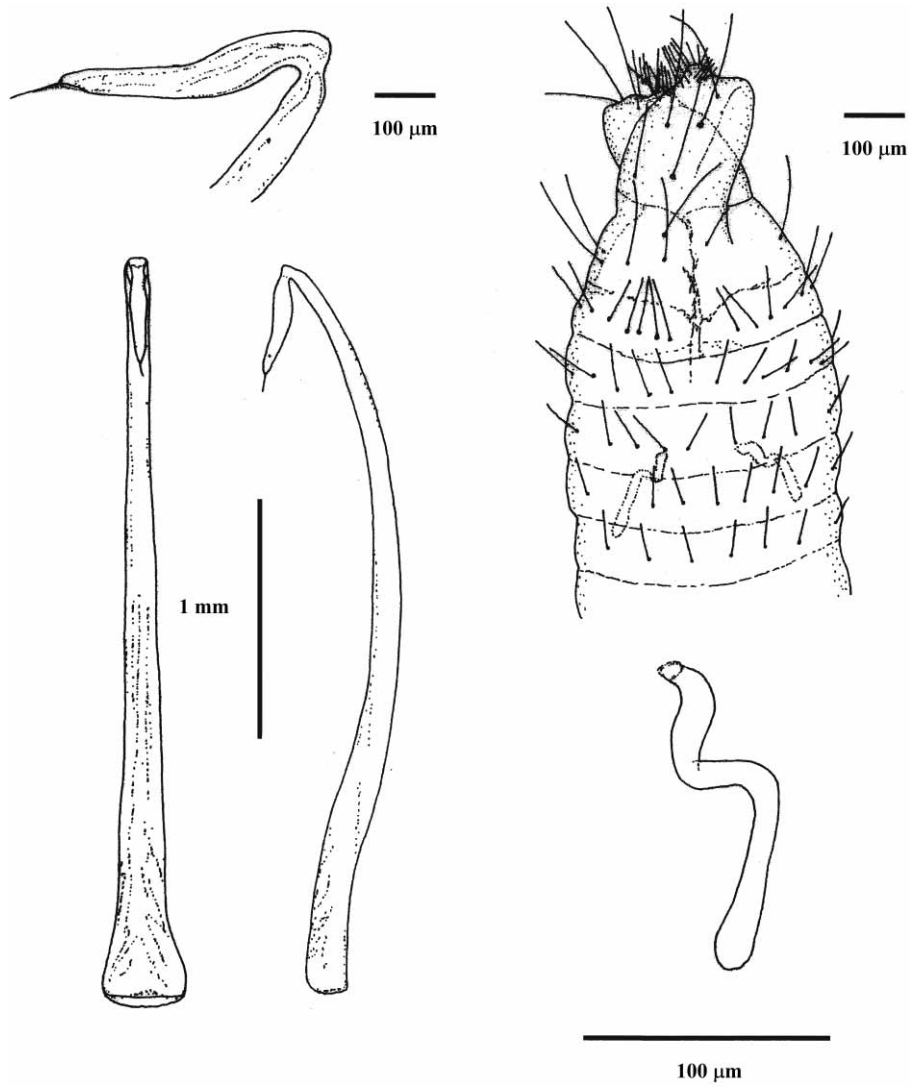


Fig. 28a: *Platybunus spinosissimus* Hodži, 1973, dorsal and lateral view of the penis, and the ovipositor tip and receptacula seminis (TN 842/2003).

SYSTEMATIC PART

CYPHOPHTHALMI

Sironidae

Siro duricorius duricorius (Joseph, 1868); Fig. 1–2

- Croatia (KOLOSVÁRY, 1929, sub *S. duricorius*; KRATOCHVÍL, 1937b, sub *S. duricorius*; RAMBLA & JUBERTHIE, 1994, sub *S. duricorius*)
 - Dalmatia (HADŽI, 1973b, sub *S. duricorius*; RAMBLA & JUBERTHIE, 1994, sub *S. duricorius*)
1. Učka Mt., **VL31**, 1380 m (MARTENS, 1978, sub *S. duricorius*)
 2. Zečjak Mt., **WK04**, 1623 m (ROEWER, 1923, sub *S. duricorius*: ca 300 mm et ff – Mus. Berlin and Coll. ROEWER)
 3. Plitvička jezera lakes, **WK46**, 677 m (JUBERTHIE, 1968: Plitvitze, Figs. 9 d, e)

Collection records

1. Učka Mt., **VL31**, 1380 m, 14.07.1974, MARTENS leg.: 19 ad. (JM 1274); *ibid.*, 950 m, pitfall traps, 11.9–6.10.1990, GASPARO leg.: 1 f (TN 101/2000)
2. E of Milanovo jezero lake, **WK46**, 677 m, Plitvička jezera, 20.06.1895, STURANY leg., 06.02.1895: 21 mm, 5 ff, 1 juv. (NHMW 2986)
3. near Devčićevac, **WK46**, 680 m, Plitvička jezera, forest, sieving, STURANY leg., 05.02.1895: 22 mm, 22 ff (NHMW 2985)

Siro minutus Kratochvíl, 1937; Fig. 1–3

1. Škrabuljica špilja cave, **BN31**, Kuna Konavoska, 720 m, Konavli (KRATOCHVÍL, 1937b: grotte sans nom près de Mali Ora, loc. typ., 08.1936, KRATOCHVÍL et HOFFER leg.; KRATOCHVÍL, 1946: Pećina kod »Mali Ora«; HADŽI, 1973b: spelunca apud Mali oro in Konavli /= small cave near Mali oro in Konavli/, endem, eucaval; GUÉORGUIEV, 1977: Gruda, the southern Dinaric zone)

Siro silhavyi Kratochvíl, 1937; Fig. 1–3

1. Vilina pećina cave, **BN31**, Gruda, 80 m (KRATOCHVÍL, 1937b, sub *S. Šilhavyi*, loc. typ., ŠILHAVÝ et HOFFER leg.; KRATOCHVÍL, 1946; HADŽI, 1973b, endem, eucaval; GUÉORGUIEV, 1977: the southern Dinaric zone)
2. Pećina u Bačevom dolu cave, **BN31**, Gruda, 80 m (KRATOCHVÍL, 1946: 1936, ŠILHAVÝ leg.)

Siro teyrovskiyi Kratochvíl, 1937; Fig. 1–3

- caves on the island of **Mljet** (KRATOCHVÍL, 1946; GUÉORGUIEV, 1977)
- 1. **Velika spilja** cave, **YH03**, 100 m, 1 km E of Blato, the island of Mljet (KRATOCHVÍL, 1937b, sub *S. Teyrovskiyi*, loc. typ., 12.07.1937, KRATOCHVÍL leg.; HADŽI, 1973b, sub *S. heyrovskiyi*, endem, eucaval)

Collection records

1. **Velika špilja** cave (= Velika spilja), 100 m, **YH03**, HADŽI det.: 1 ex. (TN 16/1986)

Siro noctiphilus Kratochvíl, 1940; Fig. 1–3

1. **Vranjača** cave, **XJ32**, 360 m, 1 km W of Kotlenice, Mt Mali Mosor (KRATOCHVÍL, 1940: loc. typ., 1939, KRATOCHVÍL leg.; KRATOCHVÍL, 1946, sub *S. noctiphilus*; HADŽI, 1973b: endem, cavernicol; GUÉORGUIEV, 1977: the middle Dinaric zone)

LANIATORES

Travuniidae

Abasola troglodytes (Roewer, 1915); Fig. 1–4

- **Dalmatia** (ABSOLON, 1916, central Dalmatia sub *Scotolemon anophthalmum*; HADŽI, 1973b, sub *Travunia anophthalma*, endem, eucaval; VANDEL, 1964: différentes grottes du sud de la Dalmatie, sub *T. anophthalma*; GINET & DECOU, 1977: Côte Dalmate, sub *A. troglodytes* and *T. anophthalma*; RAMBLA & JUBERTHIE, 1994, sub *T. anophthalma*)
- 1. **Đurović pećina** cave, **BN21**, 160 m, Močići near Cavtat (ABSOLON, 1914: Durovića jama, loc. typ., sub »slep /= blind/ *Scotolemon*« (acc. to ROEWER'S determination: »*Scotolemon* nova spec.« in lit. 26.09.1913), 19.08.1913, ABSOLON leg.: 1 juv.; ROEWER, 1915: Durovic-Höhle, sub *Absolonia troglodytes*: 1 pull., ABSOLON leg., type in Morav. Mus. Brno, microscopic preparation; ABSOLON, 1916, sub *Scotolemon* n. sp.; ABSOLON, 1920, sub *T. anophthalma*, nom. nov. pro *Absolonia troglodytes*; ROEWER, 1923, sub *A. troglodytes*: 1 pull.; STRAND, 1928: *Abasola*, nom. nov. pro nom. praec. *Absolonia*; ABSOLON & KRATOCHVÍL, 1932a, b: Durović jama, sub *T. troglodytes*; ROEWER, 1935: Durovic-Höhle, sub *Abasola troglodytes*, type Mus. Frankfurt a. M., Nr. 210; WOLF, 1934-38, sub *Travunia*, *Absolonia* and *Abasola troglodytes*; KRATOCHVÍL, 1946, ABSOLON leg., 1913: not a male but a female?; JUBERTHIE, 1972: Durovic Jama: 1 ex.; GUÉORGUIEV, 1977: Cavtat)

Travunia jandai Kratochvíl, 1937; Fig. 1–4

1. **Spilja pri brdu Grabova glava** cave, **XH93**, Grabova glava (384 m), 3,5 km W of Ropa, the island of Mljet KRATOCHVÍL, 1937a: Špilja pri Grabovom glavi, loc.

typ., sub *Travunia* (?) *Jandai*; KRATOCHVÍL, 1946: Grabova glava, sub *T.* (?) *Jandai*; HADŽI, 1973b: jama pri hribu Grabova glava, endem, eucaval; GUÉORGUIEV, 1977, the southern Dinaric zone)

*?*Travunia vjetrenicae* Hadži, 1932

- □ *Dalmatia* (RAMBLA & JUBERTHIE, 1994, sub *Dinaria vjetrenicae* Hadži)

Although it is possible that *T. vjetrenicae* also lives in Dalmatia, the citation has not been confirmed. In closely related nominal travuniid species living in the Balkans, only the penis of *T. vjetrenicae* has been adequately investigated and reported by HADŽI (1932, 1933), MARTENS (1976). There is also a need to investigate the genitalia in *Abasola troglodytes* (southern Dalmatia), *A. hofferi* Šilhavý, 1936 (Montenegro; ŠILHAVÝ, 1936) and *A. borisi* Hadži, 1973a (Bosnia and Herzegovina; HADŽI, 1973a, b), and to prove this way also the formal validity of the genera *Travunia*, *Abasola* and *Dinaria*. These all live in the same karstic Cretaceous, mostly carbonate massif, at a maximum distance of 60 km from each other, and the island species *T. jandai* also lives within this distance range. The final number of revised species will undoubtedly be lower.

*Cladonychiidae

**Holoscotolemon unicolor* Roewer, 1915

This species can be expected in Gorski Kotar.

Phalangodidae

Scotolemon doriae Pavesi, 1878; Fig. 1–5

1. **Crveni otok, UK99**, Rovinj, 10 m (THALER, 1996: 8 mm, 7 ff, 18.10.1970, NHMW)
2. **Rovinj, UK99**, 10 m (MARTENS, 1978; THALER, 1996: a garden, 28.06.1968, THALER leg.: 1 m, 1 f, Coll. THALER; **ibid.**: *Pinetum*, 18.10.1970: 1 m; **ibid.**: S. Giovanni: 6 mm, 5 ff)

Lola insularis Kratochvíl, 1937; Fig. 1–5

1. **Spilja pri Smokovniku, XH17**, ca 2 km N of Hvar, the island of Hvar (KRATOCHVÍL, 1937a, loc. typ.; KRATOCHVÍL, 1946; KRATOCHVÍL, 1958a: Lesina, Hvar; HADŽI, 1973b: jama pri kraju Smokovnik, endem, eucaval; GUÉORGUIEV, 1977: the middle Dinaric zone)

Remark. The genitalia of this species have not been investigated.

PALPATOIRES

Nemastomatidae

□ *Nemastoma triste* C. L. Koch, 1835

- *Croatia* (HADŽI, 1973b, sub *Nemastoma (Lugubrostoma) triste* (C. L. Koch, 1835))
- 1. *Zagreb, WL77* (ROEWER, 1917: Agram, sub *Nemastoma triste* C. L. Koch 1835)

Nemastoma triste has not been recorded in Croatia, and would not be expected there. *N. (Lugubrostoma) triste* (C. L. Koch, 1835) and *N. (L.) lugubre unicolor* Roewer, 1914, mentioned for Croatia (HADŽI, 1973b), mostly comply with *N. bidentatum sparsum*, and perhaps also partly with *N. dentigerum* while *N. (L.) bidentatum* Roewer, 1914 in HADŽI 'S works could be both *N. b. bidentatum* and *N. b. sparsum*.

**Nemastoma lugubre* (Müller, 1776)

- □Croatia (HADŽI, 1973b, sub *N. (Lugubrostoma) lugubre* (Müller, 1776) and *N. (L.) l. unicolor* Roewer, 1914)
- 1. □Zagreb, WL77 (BABIĆ, 1916, sub *N. lugubre*, 02.04.year?: 2 ff; ROEWER, 1951, sub *N. lugubre unicolor* Roewer, 1914: Agram: 1 m, 4 ff, 1 pullus – RII/2888/48)

Nemastoma lugubre has not been confirmed for Croatia; the citations refer to *N. bidentatum bidentatum* and *N. b. sparsum*. There is a slight chance that the species lives in the very northeastern part of Croatia.

Nemastoma bidentatum bidentatum Roewer, 1914; Fig. 1–6

- Croatia (ROEWER, 1917: Agram, sub *N. bidentatum*; ROEWER, 1923, sub *N. bidentatum*; HADŽI, 1973b, sub *N. (Lugubrostoma) bidentatum*)
- near Zagreb (KOLOSVÁRY, 1929, sub *N. bidentatum*; MARTENS, 1978, VERHOEFF leg.)
- 1. Dugo selo near Zagreb, WL97, 110 m (MARTENS, 1978, MARTENS leg.) = *Fagetum*, 14.05.1968, MARTENS *et al.* leg.: cf. 1 m, 1 f (JM 837)

Nemastoma bidentatum sparsum Gruber et Martens, 1968; Fig. 1–7

1. Slavonski Brod, BR00, 90 m (ROEWER, 1917: Brod a. Save, sub *N. bidentatum*)
2. Županja, CQ19, 80 m (GRUBER & MARTENS 1968: Figs. 12, 13: Slowenien instead of Slawonien)

Collection records

1. the vicinity of Buje, UL92, 200 m, and Vižinada, VL02, 250 m, 09.1963, STURANY leg., *Quercus-Carpinetum*: 3 mm, 2 ff (NHMW 4700), paratypes
2. Karojba, VL01, 290 m, 28.02.1990, POTOČNIK leg.: 1 m (TN 1307/1998)
3. ca 25 km SW Zagreb, WL55, 120 m, 10.09.1974, AUSOBSKY leg.: 3 mm, 1 f (JM 2062)
4. ca 15 km SE Zagreb, WL66, 15.10.1966, ca 130 m, sieving: 6 mm, 7 ff (NHMW 4698)
5. the vicinity of Breznica, WM09, 150 m, forest floor, SCHUSTER leg.: 1 m, 2 ff (NHMW 4699), paratypes
6. 15 km W Slavonski Brod, YL20, 90 m, forest, 19.04.1968, MARTENS *et al.* leg.: 3 mm, 1 f (JM 836)
7. ca 5 km E Slavonski Brod, BR10, 90 m, pitfall traps, 15.09.–14.10.1966: 4 mm, 31 ff (NHMW 4697), paratypes
8. ca 15 km E Županja, CQ29, 80 m, pitfall traps, 15.09.–14.10.1966, GRUBER leg.: 5 mm, 1 f (NHMW 4695), paratypes; *ibid.*: pl. mm, ff (NHMW 4696), paratypes; *ibid.*, 15.10.1966: 2 mm, 5 ff (NHMW 4694), paratypes

Dubious locality

1. □ *Split, XJ11, XJ21* (ROEWER, 1951, sub *N. triste*: 1 m, 1 f – RII/8656/117; MARTENS (1978) erroneously cited NHMW instead of SMF for this dubious locality – GRUBER, in lit.)

Nemastoma bidentatum bidentatum x *sparsum*; Fig. 1–8

1. **Županja, CQ59**, 80 m (GRUBER & MARTENS, 1968: Übergangsform, and sub *N. b. sparsum*, Figs. 12, 13: Slowenien instead of Slawonien; MARTENS, 1978: Hybridform, Fig. 146)

Collection records

1. **Prevlaka, XL06**, 110 m, T.V.: 3 mm, 2 ff (TN 826/2002); **ibid.**, P1 T.V., 10.1984: 1 m, 1 f (TN 280/2002); **ibid.**, P5 T.V., 10.1984: 2 mm, 2 ff (TN 278/2002); **ibid.**, P41, T.V., 10.1984: 4 mm, 6 ff (TN 236/2002); **ibid.**, P3, T.V. 15.08.1985: 1 f (TN 891/2002); **ibid.**, P 09, T.V.; 30.08.1985: 1 m (TN 609/2002); **ibid.**, T.V., 30.08.1985: 2 mm (TN 861/2002); **ibid.**, T.V. 3, 10.1985: 2 mm, 1 f (TN 896/2002); **ibid.**, P2 T.V., 07.04.1986: 1 f (TN 328/2002); **ibid.**, P4, T.V., KOS leg.: 1 m (TN 843/2002)

Nemastoma dentigerum Canestrini, 1873; Fig. 1–9

1. **Učka Mt., VL31**, 1380 m (MARTENS, 1978, MARTENS leg.)
2. **Orehovica, VL52**, 100 m, Rijeka (MARTENS, 1978: Orahovica, PAN Warszawa)

Collection records

1. **Učka Mt., VL31** 1380 m, 14.07.1974, MARTENS leg.: 3 mm, 1 f (JM 1270); **ibid.**: 1 m, 1 f, 1 juv. (JM 1275); **ibid.**, 950 m, pitfall traps, 11.09–06.10.1990, GASPARO leg.: 1 m, 2 ff (TN 98/2000)

Pyza bosnica (Roewer, 1919); Fig. 1–9

- **Croatia** (□ *Zagreb, WL77* – ROEWER, 1951: Agram, sub *Nemastoma bosnicum*: 2 mm – RII/2891/51; HADŽI, 1973b, sub *N. (Lugubrostoma) bosnicum* Roewer, 1917; STAREGA, 1976; cf. GRUBER, 1979; KARAMAN, 1995a)

In this case, Zagreb must mean only the Museum, providing the specimens.

Collection record

1. **Veliki Zavižan Mt., VK94**, 1677 m, 05.10.1995, VUKOVIĆ leg.: 1 m (TN 7/1996)

Paranemastoma quadripunctatum (Perty, 1833); Fig. 1–10

- **Croatia** (HADŽI, 1973b, sub *Nemastoma (Lugubrostoma) moesiicum* (Roewer, 1917), endem, and sub *N. (Dromedostoma) strasseri* Roewer, 1951)
1. **Plešće, VL74**, 325 m (BABIĆ, 1916: Plešće, sub *N. quadripunctatum*, 07.year?): 1 f = 17.07.1910 (rev. TN 735/1984)
 2. **Štirovača, WK04**, 1102 m (BABIĆ, 1916: Stirovača, sub *N. quadripunctatum*, 07.1912): 1 f = 25.07.1912 (rev. TN 733/1984)
 3. **Krapina, WM61**, 290 m (BABIĆ, 1916, sub *N. quadripunctatum*, 07.year?): 2 mm, 1 f = 29.07.1915 (rev. TN 736/1984)

Collection records

1. **Snježnik Mt., VL63**, 1505 m, Gorski Kotar, 18.08.1964, *Pinetum mughi croaticum*: 1 juv. (TN 316/1983)
2. near **Smrekovac, VL73**, Gorski Kotar, 24.08.1963, *Fagetum croaticum abietinosum*: 1 f (TN 620/1983)
3. **Sljeme, WL78**, 1035 m, Medvednica Mt., 21.06.1917 BABIĆ det. sub *N. quadripunctatum* f; 1 m (rev. TN 734/1984)

****Paranemastoma bicuspidatum* C. L. Koch, 1835**

This species is mentioned for the Balkan countries (ROEWER, 1923, sub *Nemastoma quadripunctatum bicuspidatum* – coll. ROEWER; Mus. Berlin) but it may extend from Slovenia solely into Hrvatsko Zagorje.

****Paranemastoma silli* (Herman, 1871)**

- □Croatia (HADŽI, 1973b, sub *Nemastoma (N.) silli* Herman, 1871)
1. □Zagreb, WL77 (ROEWER, 1951: Agram, sub *N. quadripunctatum silli* (Hermann 1871): 1 m, 1 f – RI/9530/146)

Zagreb has undoubtedly been mentioned only as the museum town; this Carpathian species has not been found in the collections studied. At least one recent record must be provided finally to confirm the presence of *P. silli* in Croatia (perhaps on Mt. Papuk).

****Paranemastoma kochi* (Nowicki, 1870)**

- □Croatia (HADŽI, 1973b, sub *Nemastoma (N.) kochi* Novicki, 1870)
1. □Ragusa, Novi Kaštel, XJ12 (ROEWER, 1917, sub *N. quadripunctatum* var. *kochii* (Nowicki): Ragusa; ROEWER, 1923: Ragusa, sub *N. q. kochii* – coll. ROEWER)

This Carpathian species has not been found in the collections studied; see comments for *P. silli*. In Dalmatia, it could have been mistaken for *P. radewi*.

****Paranemastoma radewi* (Roewer, 1926)**

- □the island of Hvar (ROEWER, 1951, sub *Nemastoma insulare*: Insel Lesina, 2 mm, 1 f – type and paratype – RII/9511/127, Tab. III Fig. 25; KRATOCHVÍL, 1958b, sub *N. insulare*; HADŽI, 1973b, sub *N. (Dromedostoma) insulare*, endem)

In comparison to the very variable *P. radewi*, *P. insulare* differs only slightly in its dorsal spots (cf. ROEWER, 1951). Besides, the island of Hvar is a dubious locality (GRUBER, in lit.). *P. radewi* has been cited for mountain caves in the Balkans (KRATOCHVÍL, 1946, sub *N. Radewi*) and can also be expected in the mountainous parts of southeastern Croatia. While in Slovenia and northern Croatia, *Nemastoma moesiicum* is undoubtedly synonymous with *P. quadripunctatum* (cf. NOVAK & GRUBER, 2000), KARAMAN (1995a) assumes that in the middle Balkans it can be conspecific with *P. radewi*, and in that case the valid name of this taxon.

****Paranemastoma titaniacum* Roewer, 1914**

- □Croatia (HADŽI, 1973b, sub *Nemastoma (Dromedostoma) acrospinosum*, endem; KARAMAN, 1995a; MITOV, 2000)

- □ *Dalmatia*, locality unknown (ABSOLON, 1914, sub *N. titaniacum*)

This species has not been found in the collections studied, although it would be expected in southern Croatia. HADŽI (1973b) incorrectly cited Croatia, instead of Herzegovina, as the native range of *P. acrospinosum* Roewer, 1951. Since KARAMAN (1995a) has established the synonymy of *P. acrospinosum* with *P. titaniacum*, the error is of only academic interest.

□ *Paranemastoma corcyraeum* (Roewer, 1917); Fig. 1–10

- southern **Dalmatia** (HADŽI, 1973b, sub *Nemastoma (Dromedostoma) corcyraeum*)

Paranemastoma longipes (Schenkel, 1947); Fig. 1–10

1. **Cavtat, BN21**, 10 m (HADŽI, 1973a, sub *Nemastoma (N.) tenue* Hadži, 1973, VELKOVHRH, SKET leg., 19.04.1964: 1 m; HADŽI, 1973b, Figs. 23a-e, endem) = : 1 m, 2 ff, 1 iuv. (TN 192/1985)

The status of many *Paranemastoma* species has not been satisfactorily cleared up. In the past, too many species have been described because authors neglected the great morphological variability. Among species cited for Croatia, *P. longipes* (SCHENKEL, 1947, sub *Nemastoma gigas longipes*) is closely related to *P. corcyraeum*, and both of these are very close to the first described *P. titaniacum*. A further revision of the species group, started by KARAMAN (1995a), is needed and synonyms would be expected.

Histicostoma dentipalpe (Ausserer, 1867); Fig. 1–11

- **Croatia** (ROEWER, 1951: Agram, sub *N. dentipalpe* Ausserer 1869: 1 m – RII/2890/50; HADŽI, 1973b, sub *Nemastoma (N.) dentipalpe* Ausserer, 1896)
1. **Štirovača, WK04**, 1102 m (BABIĆ, 1916: Stirovača, sub *N. dentipalpe*, 07.1912: 1 m) = 27.07.1912: 1 f (rev. TN 720/1984)
 2. **Crni vrh, WK36**, ca 800–1000 m, Vrhovine (RUCNER & RUCNER, 1971, sub *N. dentipalpe*, *Helleboro-Pinetum* Horv. 1958, 19.07.1961: 3 ex.)
 3. **Plitvička jezera, WK46**, 677 m (MARTENS, 1978, WUNDERLICH leg.)

Collection records

1. **Veliki Zavižan Mt., VK94**, 1677 m, 05.10.1995, VUKOVIĆ leg.: 3 ff (TN 1/ 1996)
2. **Tounj, WL21**, 280 m, Rudnica river, left spring, drift, SIVEC leg. 07.1983: cf. 1 juv. (TN 618/2002)

Carinostoma carinatum (Roewer, 1914); Fig. 1–12

- **Dalmatia** (ROEWER, 1923, sub *Nemastoma carinatum*: mm, ff – type – Coll. ROEWER; ŠILHAVY, 1939, sub *N. carinatum*; HADŽI, 1973b, sub *Mitostoma (Carinostoma) carinatum*)

- **Istria** (ROEWER, 1923, sub *N. carinatum*: mm, ff – type – Coll. ROEWER; ŠILHAVY, 1939, sub *N. carinatum*; HADŽI, 1973b, sub *M. (C.) carinatum*)
 1. **Rovinj, UK99**, 10 m (MARTENS, 1978, THALER leg.)
 2. **Učka Mt., VL31**, 1380 m (MARTENS, 1978, MARTENS leg.)
 3. **Opatija, VL42**, 10 m (ROEWER, 1917: Abbrazia, Volosca)
 4. **Rijeka, VL51**, 10 m (ROEWER, 1917: Fiume)
 5. **Split, XJ11, XJ21**, 10 m (MARTENS, 1978, THALER leg.)

Collection records

1. **Novigrad, UL81**, 10 m, Istra, an old quarry, 27.02.1990, POTOČNIK leg.: 3 mm, 2 ff (TN 1289/1998)
2. **Njivice, VL06**, 10 m, the island of Krk, 18.07.1980, DEELEMEN leg.: 3 ff (NHMW)
3. **Krmpote, VK89**, Novi Vinodolski, ca 600 m, 17. and 29.10.1980, DEELEMEN leg.: 2 ff (NHMW)
4. **Pećina kod Huma cave, VL22**, Hum, Ćićarija, 03.1967, HADŽI det. sub *Mitostoma carinatum*: 1 f (rev. TN 121/1983), microscopic preparation
5. **Učka Mt., VL31**, 600 m, 14.07.1974, MARTENS leg.: 3 ad. (JM 1277)
6. **Lovran, VL41**, 40 m, pitfall traps, 27.01.–25.04.1991., GASPARO leg.: 1 f (TN 440/2000)
7. **Gračac – Obrovac, WJ59**, 600–200 m, 27.10.1980, DEELEMEN leg.: 1m, 1 f (NHMW)
8. **Brušane, WK12**, Gospić, 600 m, *Fagetum*, 16.10.1980, DEELEMEN leg.: 1 m (NHMW)
9. **Gračac, WK60**, 600 m, 27.10.1980, DEELEMEN leg.: 1 m, 1 f (Coll. DEELEMEN)
10. **Paklenica National Park, WK30**, ca 450 m, 19.10.1980, DEELEMEN leg.: 1 m, 1 f (Coll. DEELEMEN)
11. **Plitvica**, Plitvička jezera, **WK46**, 677 m, SCHUSTER leg. et don., 09.1963: 1 m (NHMW 3359)

**Carinostoma ornatum* (Hadži, 1940)

- **Dalmatia** (HADŽI, 1973b, sub *Mitostoma (M.) ornatum*, endem)

This species has not been found in the collections studied, although it would be expected in southern Croatia.

Mitostoma chrysomelas (Hermann, 1804); Fig. 1–13

- **Croatia** (ROEWER, 1917, sub *N. chrysomelas*: Ungarn: Agram)
 1. **Rijeka, VL51**, 10 m (ROEWER, 1917, sub *Nemastoma chrysomelas*: Fiume)
 2. **Raguza, Novi Kaštel, XJ12**, 10 m (ROEWER, 1917, sub *N. chrysomelas*: Ragusa)

Collection records

1. **Marija na Krasu, UL83**, 80 m, 27.02.1990, POTOČNIK leg.: 1 f (TN 1286/1998)

2. **Veliki Zavižan, VK94**, 1677 m, 05.10.1995, VUKOVIĆ leg.: 7 mm, 5 ff (TN 2/1996)
3. **Učka Mt., VL31**, 950 m, pitfall traps, 11.09–06.10.1990, GASPARO leg.: 1 juv. (TN 99/2000)
4. **Čedanj, VL93**, 240 m, Brod na Kupi, 12.04.1984, SIVEC leg.: 1 f (TN 1183/1998)
5. **Prevlaka, XL06**, 110 m, P41 T.V., 10.1984: cf. 1 juv. (TN 233/2002)

Mitostoma olgae (Šilhavý, 1939); Fig. 1–13

- **Dalmatia** (ROEWER, 1951; HADŽI, 1973b, sub *Mitostoma (M.) olgae*, endem, and sub *M. (M.) o. olgae*)
 - the island of **Brač** (HADŽI, 1973b, sub *M. (M.) olgae kratochvili*)
1. **Jama za Mahrincom** cave, **XH49**, SE of Pučišća, 10 m, the island of Brač (KRATOCHVÍL, 1946, sub *N. O. Kratochvili*, under stones at the entrance, KRATOCHVÍL leg.)
 2. **Pučišća, XH49**, 10 m, the island of Brač (ŠILHAVÝ, 1939, sub *Nemastoma Olgae Kratochvili*, Fig. 7: 15 mm et ff; ROEWER, 1951: Ile de Braç u. Pucisce 15 (m, f) **type** Mus. Brünn? (non vidi), sub *M. olgae kratochvili*, Tab. VIII Fig. 73; and: Ile de Braç: 3 mm, 1 f (KRATOCHVÍL ded. ex **type**) – **paratype** – RII/8196/ 106 /not a paratype!/))

Collection record

1. **Sv. Ilija Mt., XH76**, 961 m, Orebić, Pelješac peninsula, 05.1977, pitfall traps 3a, NEMENZ *et al.* leg.: Mte. Vipero (A. N. 1978, VIII.): 1 m (NHMW 6805)

According to the original descriptions (ŠILHAVÝ, 1939: Fig. 5, sub *Nemastoma Olgae Olgae*, Fig. 6, sub *N. O. decorum* and Fig. 7, sub *N. O. Kratochvili*) and Tab. VIII Fig. 73 in ROEWER (1951, sub *N. olgae kratochvili*), the colouring and spotting of individuals is markedly variable. The evidence for consistent differences between any constant character is lacking, therefore the subspecific status is not justified.

Hadzinia karamani (Hadži, 1940); Fig. 1–13

Collection records

1. **Donja Cerovačka pećina** cave, **WK60**, Gračac, 620 m, 09.1964, SKET, VELKOVRH leg.: 1 m, 1 f, 1 iuv. (TN 189/1983 sub *Buresiolla karamani*, rev. 2003); **ibid.**, 05.1970: 1 m (TN 678/1981); **ibid.**, 11.9.1989, GASPARO leg.: 1 juv. (TN 443/2000)

Dicranolasmatidae

Dicranolasma scabrum (Herbst, 1799); Fig. 1–14

- **Istria** (DAHL, 1903; HADŽI, 1973b)
1. **Učka Mt., VL31**, ca 1000 m (DI CAPPORIACCO, 1949: Mte. Maggiore = 950 m, MÜLLER leg. 06.1930, DI CAPPORIACCO det. (Coll. MCSNT): 1 f; GRUBER, 1976, THALER leg. = ca 950 m, *Fagetum*, under stone blocks, 08.–09.09.1969, THALER leg., Coll. THALER Ju 69/4,5: 1 m, 5 ff, 3 juv.)

2. **Rijeka, VL51**, 10 m (GRUBER, 1976: Fiume, cemetery, VERHOEFF leg.; MARTENS, 1978) = 17.11.?year, Coll. ZMB, DAHL det.: 7 mm, 5 ff, 5 iuv.

Collection records

1. **Pećina kod Huma cave, VL22**, Čičarija, HADŽI det. sub *Dicranolasma* sp. sub-imag. f: 1 subad. (TN 667/1983)
2. **Učka Mt., VL31**, 950 m, pitfall traps, 11.09–06.10.1990, GASPARO leg.: 2 mm, 1 f (TN 102/2000)
3. **Lovran, VL41**, 40 m, pitfall traps, 27.01–25.04.1991, GASPARO leg.: 2 mm, 2 ff, 1 juv. (TN 442/2000)
4. **Opatija, VL41**, 10 m, VERHOEFF leg.: Abbazia, 08.10.?year, Coll. ZMB, DAHL det.: 2 ff
5. **The castle Kastav, VL51**, Rijeka, 10 m, VERHOEFF leg.: Castua bei Fiume /ROEWER det. 1915, No. 2953: 4 Expl., Coll. ZMB/, GRUBER rev.: 1 m, 2 ff, 1 juv.)
6. **Rijeka, VL51**, 10 m, VERHOEFF leg.: Fiume, Coll. ZMB, DAHL det.: 1 m
7. **The Rječina gorge, VL51**, 10 m: Fiumara-Schlucht (ROEWER'S label; ROEWER det. 1915, No. 2950 sub *D. opilionoides*: 1 m, Coll. ZMB; GRUBER rev.); **ibid.**, VERHOEFF leg.: Fiumara, 03.10.?year, under lieves and limestone stones (ROEWER'S label: Fiumara (Neapel); ROEWER det. 1915, No. 2894 sub *D. opilionoides*: 2 Expl., Coll. ZMB; GRUBER rev.: 1 m, 1 f); **ibid.**, (ROEWER'S label: Neapel: Fiumara; ROEWER det. 1916, R I/1373 sub *D. opilionoides*: 4 (incl. pull.), Coll. SMF; GRUBER rev.: 1 m, 1 f, 2 iuv.); **ibid.**, VERHOEFF leg.: Fiumara, 20.10.?year, Fiumaraschlucht bei Fiume, leaf forest under stones, Coll. ZMB, DAHL det.: 2 mm, 1 iuv.)

Except for the TN series, all data according to GRUBER, in lit. The name of *D. scabrum* has often been used in citations of other species, especially that of *D. opilionoides* (GRUBER, in lit.).

Dicranolasma opilionoides (L. Koch, 1867); Fig. 1–14

- southern **Balkans** (GRUBER, 1965)
- **Dalmatia** (L. KOCH, 1867; ROEWER, 1923: southern Dalmatia, Mus. Berlin et coll. ROEWER); HADŽI, 1973b, KARAMAN, 1990)

Dicranolasma verhoeffi Dahl, 1903; Fig. 1–15

- southern **Dalmatia** (DAHL, 1903; HADŽI, 1926/27, 1973b: endemic; GRUBER, 1976:204 – map K. 5; KARAMAN, 1990: endemic)
 - the islands of **Korčula, Mljet, Brač** (KRATOCHVÍL, 1946; GRUBER, 1976)
1. **Gradac špilja cave, XH65**, 420 m, Pupnat, Korčula – Blato, the island of Korčula (KRATOCHVÍL, 1946)
 2. **Paganettijeva pećina cave, XH75**, Korčula, the island of Korčula (KRATOCHVÍL, 1946)

3. **Tabaina špilja** cave, **XH93**, 160 m, 2 km NW of Vela Luka, the island of Korčula (KRATOCHVÍL, 1946: Velika Luka)
4. **Kaštel Novi**, **XJ12**, 10 m (ROEWER, 1923: Kastelnuovo: 1 m, coll. ROEWER; ROEWER, 1950: Kastelnuovo: 1 m – RI/12/1368)
5. **Ozdrin**, **XJ20**, 422 m, above Supetar, the island of Brač (KRATOCHVÍL, 1946)
6. **Špilja na vrhu Bugara** cave, **YH03**, 300 m, ca 1,5 km W of Ropa, the island of Mljet (KRATOCHVÍL, 1946)
7. peninsula **Lapad**, **BN12**, 10 m, Dubrovnik (DAHL, 1903; ROEWER, 1923: **type** Mus. Berlin; MORITZ, 1971, VERHOEFF leg.: 4 mm + Penis, 5 ff, 3 Pulli, **paralectotypes** – ZMB 11603; **ibid.**, VERHOEFF leg., 13.04.year?: 1 m + Penis, 1 f, **paralectotypes** – ZMB 11606)

Collection records

- **Croatia**, unknown locality, evergreen forest, litter, near the entrance of a cave, 17.04.1976, DEELEMANN leg.: 1 f, 1 juv. (TN 1315/1998)

Uncertain citations

- □ *Dalmatia* (CARRARA, 1846, sub *Trogulus scaber* W.; GASPERINI, 1891, 1892: *D. scabrum* Herbst = *T. scaber* W.; HADŽI, 1973b) – CARRARA'S (THALER & GRUBER, 2003) and GASPERINI'S chresonymous data are hardly true (GRUBER, in lit.), HADŽI'S data are chresonymous, too.

Trogulidae

Trogulus torosus Simon, 1885; Fig. 1–16

- southern **Dalmatia** (HADŽI, 1936, endem; /HADŽI, 1973b, forgot to cite the species/)
- 1. **Đurović pećina**, **BN21**, 160 m, Močići near Cavtat (KRATOCHVÍL, 1946)
- 2. **Šipun špilja**, **BN21**, 20 m, Cavtat (KRATOCHVÍL, 1946)
- 3. **Škrabuljica špilja** cave, **BN31**, near Kuna Konavoska, 720 m (KRATOCHVÍL, 1946: Pećina kod »Mali Ora«)
- 4. **Vilina pećina**, **BN31**, near Gruda, 80 m (KRATOCHVÍL, 1946)

Incorrect citation

- □ *Dalmatia* (ROEWER, 1950: Dalmatien (Krivošije): 1 m, 1 f – RI/12/1341) – the Krivošije in Montenegro

Trogulus gr. *tricarinatus* Linnaeus, 1761; Fig. 1–16

1. **Učka Mt.**, **VL31** 1380 m, Istra, 14.07.1974, MARTENS leg.: 1 f (JM 1272)
2. **Dugo selo** near Zagreb, **WL97**, 110 m, *Fagetum*, 14.05.1968, MARTENS *et al.* leg.: cf. 1 m (JM 838)

Trogulus tricarinatus hirtus (Dahl, 1903); Fig. 1–17

Collection records

1. **Kozarica – Blato**, **XH45**, the island of Mljet, 30.04.1987, TRAVNIK leg.: 1 f (TN 1112/1998)

The taxon should be revised (KOMPOSCH in lit.).

Trogulus falcipennis Komposch, 2000; Fig. 1–18

1. the island of **Cres**, **VK56**, 44°58'N, 14°24'E, ca 200–300 m (KOMPOSCH, 2000: litter under old oaks, 29.10.1980, DEELEMEN leg.: 1 m – Coll. DEELEMEN)
2. above **Jablanac**, **VK95**, 44°43'N, 14°54'E, 400 m (KOMPOSCH, 2000: 18.10.1980, DEELEMEN leg.: 1 m – Coll. DEELEMEN)
3. **Imotski – Zagvozd**, **XJ71**, 43°26'N, 17°08'E (KOMPOSCH, 2000: *Pinetum nigri*, 22.10.1980, DEELEMEN leg.: 1 m – Coll. DEELEMEN)

Collection records

1. **Učka Mt.**, **VL31**, 950 m, pitfall traps, 11.09.–06.10.1990, GASPARO leg.: 1 m, 1 juv. (TN 100/2000)
2. **Velika Paklenica**, **WK30**, 300 m, 05.04.1986, BIOS 2720, SLANA, ŠTANGELJ, SLANA – NOVAK, NOVAK leg., litter, sieve: 1 f (TN 41/1986; rev. 2002)
3. **Studenci**, **WK35**, 580 m, 04.04.1986, BIOS 2711, SLANA, ŠTANGELJ, SLANA – NOVAK, NOVAK leg., litter, sieve: 1 f (TN 42/1986; rev. 2002)
4. **Oskorušno**, **XH86**, 300 m, Pelješac peninsula, 24.10.1980, *Pinus pinea*, DEELEMEN leg.: Oskorušnica: 1 m, 1 f (Coll. DEELEMEN)

Trogulus gr. *nepaeformis* (Scopoli, 1763)

- **Croatia**, locality unknown (BABIĆ, 1916, sub *T. rostratus* (Latr.): 1 ex.)
 - near **Zagreb** (NEUFFER, 1980, sub *T. nepaeformis*: Fig. 34, (JM 839), penis-type III)
1. **Učka Mt.**, **VL31**, 1380 m (MARTENS, 1978, sub *T. nepaeformis*, MARTENS leg.; NEUFFER, 1980, sub *T. nepaeformis*: Fig. 13, (JM 1271), penis-type II; *ibid.*, Fig. 36, (JM 1273), penis-type III)

Collection records

- the island of **Lošinj**, ROGENHOFER leg.: Lussin, 1862, ROEWER det. sub *T. tricarinatus*, GRUBER rev. (1973): 1 m (NHMW 5858)
 - **Dalmatia**: 1 juv. (NHMW)
 - the island of **Cres**, 29.10.1980, DEELEMEN leg.: 2 ad. (Coll. DEELEMEN)
1. **Osor**, **VK54**, the island of Cres, *Orno-Quercetum ilicis*, 19.03.1964: 1 f (TN 624/1983)
 2. **Krmpote**, **VK89**, Novi Vinodolski, ca 600 m, 17. and 29.10.1980, DEELEMEN leg.: 1 m, 1 juv. (Coll. DEELEMEN)
 3. **Veliki Zavižan**, **VK94**, 1677 m, 05.10.1995, VUKOVIĆ leg.: 3 mm (TN 5/1996)
 4. above **Jablanac**, **VK95**, 400 m, 18.10.1980: 1 juv. (Coll. DEELEMEN)
 5. **Senj**, **VK98**, STURANY leg.: Zengg, 10.02.1895, ROEWER det. sub *T. tricarinatus*, GRUBER rev. (1973): 1 f (NHMW 5859)

6. **Sv. Petar u Šumi**, **VL10**, 340 m, Pazin, 04.04.1994, GREGO leg.: 1 f (TN 445/2000)
7. SE **Cerovlje**, **VL12**, 280 m, NE Pazin, 19.07.1957 (61), STROUHAL leg., slope above the brook, *Genista*: 1 m, 1 juv. (NHMW 5857)
8. **Učka Mt.**, **VL31**, 1380 m, Istra, 14.07.1974, MARTENS leg.: 1 m, 2 ff (JM 1253), NEUFFER det. 28.05.1980; **ibid.**: 1 m (JM 1273)
9. **Lovran**, **VL41**, 40 m, pitfall traps, 27.01–25.04.1991, GASPARO leg.: 1 f (TN 441/2000)
10. **Njivice**, **VL60**, 10 m, the island of Krk, 27.10.1980, DEELEMEN leg.: 1 m (Coll. DEELEMEN)
11. **Omišalj**, **VL60**, 10 m, the island of Krk, 09.1929, HADŽI leg. et det. sub *T. tricarinatus*: 1 m (TN 41/1983), microscopic preparation
12. **Velika Paklenica**, **WK30**, 300 m, 06.04.1986, BIOS 2708, SLANA, ŠTANGELJ, SLANA – NOVAK, NOVAK leg., under stones: 1 f (TN 39/1986); **ibid.**, litter, sieve: 2 ff, cf. 4 juv. (TN 40/1986)
13. **Plitvice**, **WK46**, 04.-05.year?, WUNDERLICH leg.: 1 m, 2 ff (JM 1077); **ibid.**, 04.04.1986, BIOS 2703, SLANA, ŠTANGELJ, SLANA – NOVAK, NOVAK leg., sieve, under stones: 1 m, 1 subad. (TN 43/1986)
14. **Dugo selo** near Zagreb, **WL97**, 110 m, *Fagetum*, 14.05.1968, MARTENS *et al.* leg.: 1 m (JM 839)
15. 5 km E **Slavonski Brod**, **BR10**, 90 m, pitfall traps, 15.09.–14.10.1966, plain, light wood (*Q. robur*, *Carpinus*, shrubs /*Crataegus*, *Rosa* etc./), GRUBER leg.: 1 f (NHMW 5860)

Trogulus closanicus Avram, 1971; Fig. 1–19

Collection record

- the island of **Lošinj**: 1 m (NEUFFER, 1980, sub: corresponding to *T. closanicus*: Fig. 61, (NHMW 5858), penis–type V)
- 1. **Sv. Petar u Šumi**, **VL10**, 340 m, Pazin, 04.04.1994, GREGO leg.: 1 m, 1 f (TN 444/2000)
- 2. **Plitvice**, **WK46**, 677 m: 1 m (NEUFFER, 1980, sub corresponding to *T. closanicus*: Fig. 63, (JM 1077), penis–type V)

□ *Trogulus setosissimus* Roewer, 1940

- □ *the island of Hvar* (ROEWER, 1940: Lesina, **type** – Coll. ROEWER Nr. 2148/22, 1 m, 1 f, Tab. II Figs. 22a-c; ROEWER, 1950: Lesina: 1 m, 1 f – **type** (m) and **paratype** (f) RII/2148/22; HADŽI, 1973b: endem)

Because of ROEWER'S notoriously misleading data, the presence of the species in Croatia should be confirmed by further findings.

Trogulus squamatus C. L. Koch, 1839; Fig. 1–19

- **Dalmatia** (KOCH, 1839; SIMON, 1879; DAHL, 1903: southern Dalmatia; ROEWER, 1923: loc. type unknown and not found)

Collection record

1. **Sv. Ilija Mt., XH76**, 961 m, Orebić, Pelješac peninsula, 05.1977, NEMENZ *et al.* leg.: Mte. Vipero (A. N. 1978, VIII.): 1 f (NHMW 6803); **ibid.**, 26.05.1977: 1 f (NHMW 6804)

Trogulus tingiformis C. L. Koch, 1848; Fig. 1–20

1. **Plitvice, WK46**, 677 m (MARTENS, 1978, KNUSE leg.) = 25.06.1965: 1 f (JM 422)

Trogulus coriziformis C. L. Koch, 1839; Fig. 1–17

1. **near Rovinj, UK99**, 10 m, (MARTENS, 1978) = **Limski zaljev, UK99**, 10 m, near Rovinj, N slope, 22.08.1968, HELVERSEN leg. and det.: 1 f (JM 968)

Uncertain and incorrect determinations of *Trogulus* spp.

- □Croatia – Quarner, Dalmatia (ROEWER, 1950: 1 f – RI/12/1367; HADŽI, 1973b, sub *T. nepaeformis*)
- □Croatia (HADŽI, 1973b, sub *T. aquaticus* Simon, 1879)
- 1. □Osor – Garmozaj, VK54, the island of Cres, close to sea-level (RUCNER & RUCNER, 1971, sub *T. nepaeformis*, Orno-Quercetum ilicis H-ić (1956) 1958, 19.03.1964: 1 ex.)
- 2. □the surroundings of Malinska, VK69, close to sea-level (HADŽI, 1936, sub *T. tricarinatus*, under stones, 04.1927: 1 ex. /6,3 mm long/)
- 3. □near Omišalj, VL06, close to sea-level (HADŽI, 1936, sub *T. tricarinatus*, 16.09.1929: 1 m /8,4 mm long/)
- 4. □Snježnik, VL63, 1505 m (RUCNER & RUCNER, 1971, sub *T. nepaeformis*, Pinetum mughi croaticum Horv. 1958, 18.08.1964: 1 ex.)
- 5. □Crni vrh, WK36, ca 800–1000 m, Vrhovine (RUCNER & RUCNER, 1971, sub *T. tricarinatus*, Helleboro-Pinetum Horv. 1958, 19.07.1961: 1 ex.)
- 6. □Vukovo selo, WL58 (RUCNER & RUCNER, 1971, sub *T. aquaticus*, Querco-Carpinetum croaticum Horv. 1937, 08.06.1962: 2 ex.)
- 7. □Kožino, XJ18 (MUČALICA–MILANOVIĆ, 1990, sub *T. tingiformis*: 23.08.–06.09.1987, pitfall traps, MUČALICA leg.: 1 ex.)
- 8. □Split, XJ11, XJ21, near the marine institute, close to sea-level (HADŽI, 1973b, sub *T. aquaticus*, 05.04.1938)

The genus *Trogulus* has been recognized to be taxonomically the most difficult of the European harvestmen (MARTENS, 1988); further revision is needed in the *nepaeformis*-, *tingiformis*- and *tricarinatus*-group.

Anelasmacephalus hadzii Martens, 1978; Fig. 1–21

- Croatia (ROEWER, 1923, sub *A. cambridgei*: pl. mm, ff; KOLOSVÁRY, 1929, sub *A. cambridgei*; HADŽI, 1973b, sub *A. cambridgei*)

1. **Plitvička jezera, WK46**, 677 m (MARTENS, 1978, STURANY leg. – NHMW)

Collection record

1. near **Devčićevac, WK46**, 680 m, Plitvička jezera, forest, sieve, STURANY leg., Acqu. Nr., 05.02.1895: 1 m (NHMW)

Ischyropsalididae

Ischyropsalis hellwigi hellwigi (Panzer, 1794); Fig. 1–21

- **Croatia** (ROEWER, 1923, sub *I. hellwigi*; KOLOSVÁRY, 1929, sub *I. plicata*; Zagreb, WL77 – Zagreb is undoubtedly the museum town (ROEWER, 1923, sub *I. plicata*: 1 m, **cotype** – Coll. ROEWER; ROEWER, 1950: Agram, sub *I. plicata*: 1 m, **paratype** – RII/228/4, Tab. 3 Figs. 16a-d; HADŽI, 1954: 1 m; MARTENS, 1969: Agram; SMF/RII/228; MARTENS, 1978, SMF)
- **Dalmatia** (ROEWER, 1914, sub *I. helwigii*)
 1. **Rijeka, VL51**, 10 m (HADŽI, 1973b, sub *I. helwigii*)
 2. **Brod Moravice, VL93**, 580 m (MARTENS, 1969: Moravika bei Rijeka, 09.08. 1957, BIELAWSKI leg.: 1 m; Zool. Inst. Warszawa; HADŽI, 1973b, sub *I. helwigii*; MARTENS, 1978 (PANW))
 3. **Ozalj, WL35**, 160 m (BABIĆ, 1916, sub *I. helwigii*, 10.1912: 1 m)

Collection record

1. **Veliki Zavižan Mt., VK94**, 1677 m, 05.10.1995, VUKOVIĆ leg.: 19 mm, 2 ff (TN 6/1996)

□ *Ischyropsalis muellneri* Hamann, 1898

Erroneous citation

1. *Mt. Sever* between Dubrovnik and Kotor (MARTENS, 1969, KRATOCHVÍL leg.: 2 mm – coll. ŠILHAVÝ 03113; HADŽI, 1973b; MARTENS, 1978)

KRATOCHVÍL (1946) explicitly wrote that no *Ischyropsalis* was found in the caves of Bosnia, Herzegovina, Dalmatia or Montenegro. *I. muellneri* is endemic to the Julian Alps (NOVAK *et al.*, 1995; NOVAK & GRUBER, 2000); citations of its distribution in the Balkans (MARTENS, 1969, 1978; MARCELLINO, 1982, RAMBLA & JUBERTHIE, 1994; OZIMEC, 2002) are erroneous. OZIMEC (2002) unwarrantedly recorded the species as troglophile.

Phalangiidae

Phalangium opilio Linnaeus, 1758; Fig. 1–22

Remark. All citations and TN-determinations before 2004, sub *Phalangium opilio* Linnaeus, 1761)

- **Croatia** (HADŽI, 1973b)
- **Dalmatia** (CARARRA, 1846, sub *Cerastoma cornutum*; GASPERINI, 1891, 1892, sub *C. cornutum*)

- **Gorski Kotar, Lika** (BABIĆ, 1916: pl. mm, ff)
 1. **Božava, VJ98**, 10 m, the island of Dugi otok (HADŽI, 1930: 03.06.1926, HADŽI leg.: 1 f)
 2. **Gerovo, VL74**, 584 m (BABIĆ, 1916, 06.1905: pl. juv.)
 3. **Omišalj, VL60**, 10 m (HADŽI, 1936, near power-station, 20.09.1926, D. HADŽI leg.: 1 m subad.)
 4. **Zlobin, VL71**, 772 m (BABIĆ, 1916, 09.1915: pl. juv.)
 5. **Plešće, VL74**, 325 m (BABIĆ: Plešće, 1916, 07.1903: pl. juv.)
 6. the island of **Dugi otok** vis à vis the island of Mrtovnjak, **WJ07** (HADŽI, 1930: 23.05.1925, HADŽI leg.: 2 juv.)
 7. **Dugopolje, WJ06**, 20 m, the island of Dugi otok (HADŽI, 1930: 20.05.1925, HADŽI leg.: 1 f; 24.05.1925: 1 f; 26.05.1925, leg. HIRTZ leg.: 1 m, 1 f; **ibid.**, vineyards, 15.05.–10.08.1928, HADŽI leg.: a part of 6 mm, 8 ff)
 8. **Kruševo, WJ15**, 120 m, the island of Dugi otok (HADŽI, 1930, vineyards, 15.05.–10.08.1928, HADŽI leg.: a part of 6 mm, 8 ff)
 9. **near the lake at Mir, WJ15**, 30 m, the island of Dugi otok (HADŽI, 1930: 23.05.1925, HADŽI leg.: 1 f); **ibid.** (HADŽI, 1930: Slano jezero, 25.05.1925, HADŽI leg.: 1 m)
 10. **Sali, WJ16**, 10 m, the island of Dugi otok (HADŽI, 1930: 19.05.1925, HADŽI leg.: 1 m, 1 f; 25.05.1925: 1 juv., 1 m juv.; 17.05.1927, JOVIĆ leg.: 1 juv.; 12. 09.1927: 1 f)
 11. the **vicinity of Sali, WJ16**, 10 m, the island of Dugi otok (HADŽI, 1930: 10.1926, HADŽI leg.: 1 f juv.; Figs. 1, 4)
 12. **Štirovača, WK04**, 1102 m (BABIĆ, 1916, 06.1912: Stirovača, pl. juv.)
 13. **Pazarište, WK14**, Gospić, 580 m (BABIĆ, 1916: pl. mm, ff)
 14. **Jadovno, WK22**, 864 m (BABIĆ, 1916: pl. mm, ff)
 15. **Žlijeb, WK27**, 600 m, Doljani (RUCNER & RUCNER, 1971, *Helleboro-Pinetum* Horv. 1958, 14.09.1964: 3 ex.)
 16. **Topoluša, WK27**, Doljani, ca 800–1000 m (RUCNER & RUCNER, 1971, *Helleboro-Pinetum* Horv. 1958, 17.09.1961: 3 ex.)
 17. **Bijeli vrh, WK36**, 1074 m, Vrhovine (RUCNER & RUCNER, 1971, *Fagetum croaticum abietosum* Horv. 1938, 12.05.1964: 1 ex., 15.09.: 1 ex.)
 18. **Orlovčić, WK36**, ca 800 m, Vrhovine (RUCNER & RUCNER, 1971, *Helleboro-Pinetum* Horv. 1958, 18.07.1961: 2 ex.)
 19. **Crni vrh, WK36**, 850 m, Vrhovine (RUCNER & RUCNER, 1971, *Helleboro-Pinetum* Horv. 1958, 19.07.1961: 4 ex., 20.07.: 1 ex.)
 20. **Borića borik, WK36**, ca 800 – 1000 m, Donji Babin potok (RUCNER & RUCNER, 1971, *Helleboro-Pinetum* Horv. 1958, 14.09.1964: 2 ex.)
 21. **Crni vrh, WK36**, 850 m, Vrhovine (RUCNER & RUCNER, 1971, *Helleboro-Pinetum* Horv. 1958, 19.07.1961: 4 ex., 20.07.1961: 1 ex.)
 22. **Kriva Draga, WK36**, ca 850 m, Donji Babin potok (RUCNER & RUCNER, 1971, *Piceetum dolomiticum* Horv. 1958, 21.07.1961: 3 ex., 13.09.1961: 2 ex.)

23. **Ogulin, WL11**, 320 m (BABIĆ, 1916, 08.1902: pl. juv.)
24. Zagreb, WL77 (BABIĆ, 1916: pl. mm, ff)
25. **Strahinščica Mt., WM61**, Zagorje, 846 m (BABIĆ, 1916: 847 m: pl. mm, ff)
26. **Split, XJ11, XJ21**, 10 m (BABIĆ, 1916: pl. mm, ff); **ibid., Marjan** (KOLOSVÁRY, 1938b, 13.04.1938; KOLOSVÁRY, 1939)
27. **Solin, XJ12**, 10 m (KOLOSVÁRY, 1938b, 09.04.1938)
28. **Gospić, WK23**, Jasikovac, 570 m (BABIĆ, 1916: pl. juv.)
29. **Voćin, XL95**, 215 m (BABIĆ, 1916: pl. mm, ff)

Collection records

- the island of **Dugi otok**, 1928, JOVIĆ leg., HADŽI det.: 1 f (TN 620/1981); **ibid.**: 2 juv. (TN 621/1981)
 - the island of **Hvar**, STURANY don.: Lesina, ROEWER det.: 1 m, 2 ff, 1 juv. (NHMW 3811)
1. **Karigador, UL82**, 10 m, Dajla, Umag, 19.09.1982, SLANA, NOVAK leg.: 2 mm 1 m subad., 3 ff, 1 juv. (TN 581/1982)
 2. **Savudrija, UL83**, 10 m, meadow and shrubs near lighthouse, 10.07.1990: 1 f (TN 828/2002); **ibid.**, meadow and shrubs, stubblefield near a sandy shore: 1 f (TN 839/2002)
 3. **Rovinj, UK99**, 10 m, PIFFL leg., 07.1955; coll. et det. NEMENZ: 1 m, 2 ff (NHMW 8340); **ibid.**, Pahun, 27.09.1966, BOLE leg., HADŽI det.: 1 m subad., 1 f, 2 juv. (TN 432/1983)
 4. **Božava, VJ98**, 10 m, the island of Dugi otok, 30.06.1926, HADŽI det.: 1 f (TN 619/1981)
 5. **Pula, VK06**, 10 m, 25.8.1941: 1 m (TN 374/1983)
 6. **Lopar, VK76**, 10 m, the island of Rab, 06.1968, HADŽI det.: 7 mm, 8 ff (TN 669/1981); **ibid.**, 06.1968: 4 mm, 5 ff, 5 juv. (TN 97/1982); **ibid.**, 08.1970: 1 f (TN 703/1981); **ibid.**, 19.06.1980: 1 f (TN 837/2002)
 7. **Banjol, VK85**, 10 m, the island of Rab, 06.1967: 1 m, 3 ff, 2 juv. (TN 104/1982)
 8. **Ugrini, VL13**, 120 m, Mlini, near the Reka river, 29.06.1990, HORVAT, SIVEC leg.: 1 f (TN 1143/1998)
 9. **Čaglin, VL32**, Slavonski Brod, 90 m, 12.10.1986, SIVEC, HORVAT leg.: 1 f (TN 1109/1998)
 10. **Omišalj, VL60**, 10 m, the island of Krk, 17.09.1929, HADŽI leg.: 5 juv. (TN 249/1982); **ibid.**, 31.10.1929, HADŽI det.: 1 juv. (TN 616/1981)
 11. **Sveta gora, VL74**, 580 m, 19.06.1917, BABIĆ det. sub *O. alpinus* pulli; 4 juv. (rev. TN 746/1984)
 12. **Dugopolje, WJ06**, 20 m, the island of Dugi otok, 26.05.1926, HADŽI det. sub *Ph. opilio* m: 1 juv. (TN 634/1981); **ibid.**, vineyards, JOVIĆ leg., 08.1928, HADŽI det.: 1 m (TN 36/1983) microscopic preparation
 13. **Sali, WJ16**, 10 m, the island of Dugi otok, 08.1928, near vineyards in Dugopolje, JOVIĆ leg., HADŽI det.: 1 f (TN 14/1983), microscopic preparation; **ibid.**, HADŽI det.: 1 m (TN 19/1983), microscopic preparation

14. **Sv. Filip i Jakov, WJ36**, 10 m, STURANY leg.: San Filippo, 28.01.1891, ROEWER det.: 1 m, 2 ff (NHMW 3810)
15. **Stajnica, WK18**, Jezerane, 500 m, 08.1985: 1 f (TN 671/2002)
16. **Kamenica Skradnička, WL30**, 260 m, beside Rudnica brook, 05.1985: 1 f (TN 710/2002); **ibid.**, 07.1987: 2 subad. (TN 344/2002)
17. **Branešci, XL93**, 340 m, Psunj Mt., 03.05.1986, HORVAT, SIVEC leg.: 1 juv. (TN 1080/1998)
18. **Kamengrad, XL94**, 528 m, Papuk Mt., beside the Orjava river, 06.07.1989, HORVAT, KRYŠTUFEK leg.: 2 juv. (TN 1241/1998)
19. **Djedovica, XL95**, 514 m, Novo Zvečevo, Papuk Mt., 06.07.1989, HORVAT, KRYŠTUFEK leg.: 1 juv. (TN 1172/1998)
20. **Novo Zvečevo, XL96**, 460 m, 23.07.1916, BABIĆ: Zvečevo, det. sub *Opilio parietinus* = *Ph. parietinum*; 1 f (rev. TN 695/1984)

**Metaphalangium cirtanum* (C. L. Koch, 1839)

- **Croatia** (HADŽI, 1973b, sub *Metaphalangium propinquum* (Lucas, 1847))
- **Dalmatia** (ROEWER, 1956, sub *M. propinquum*: 1 m, 1 f – RII/2153/96, and very probably this species sub *Paropilio spinipes*: 1 m – **type** RII/5415/201; HADŽI, 1973b, very probably this species sub *P. spinipes*: endem)

This species has not been found in the collections studied, but would be expected locally in Croatia. For the synonymy see STAREGA, 1984.

Opilio parietinus (De Geer, 1778); Fig. 1–23

- **Croatia** (HADŽI, 1973b)
 1. **Krapina, WM61**, 290 m (BABIĆ, 1916, sub *O. parietinus* = *Phalangium parietinum*), 1919: 1 f (rev. TN 699/1984)
 2. **Valpovo, BR35**, 90 m (BABIĆ, 1916, sub *O. parietinus* = *Ph. parietinum*) 27. 08. 1905: 2 ff (rev. TN 698/1984)

Collection records

- the island of **Vis**, ROEWER det.: Lissa, together with specimens sub *O. saxatilis*, GRUBER rev.: 1 f (NHMW 3951, part.)
- the island of **Krk**, REITTER leg.: Veglia, STEINDACHER don. 04.1882–39, ROEWER det.: 1 m, 1 f (NHMW 3918)
- 1. **Valpovo, BR35**, 90 m, Kaptol, 27.08.1905, BABIĆ det. sub *Opilio parietinus* = *Ph. parietinum*; cf. 1 f (rev. TN 697/1984)

2. **Dobra voda, CR32**, 110 m, Vuka, Vukovar, 19.08.1930, HADŽI leg.: 1 f, 1 iuv. (TN 255/1982, rev. 2003)

Opilio saxatilis C. L. Koch, 1839; Fig. 1–24

- **Croatia** (HADŽI, 1973b)
 - the island of **Brač** (ŠILHAVÝ, 1938: KRATOCHVÍL leg.)
 - **Konavli**, 90 m (KRATOCHVÍL, 1946: Konavlje, sub *O. saxatilis* C. L. Koch, 1934, KRATOCHVÍL leg.)
1. **at Palu lake, UK99**, S of Rovinj, 10 m (HADŽI, 1973a, sub *Metadasylobus bolei*, 27.09.1963, BOLE leg.: 1 m, 1 f; HADŽI, 1973b: Palu, loc. typ., sub *M. bolei*, endem)
 2. **Jasenak, WL00**, 600 m (LENDL, 1894: Jassenak, sub *Phalangium saxatile*, 10.1887; DADAY DE DEÉS, 1896: Jassenak, sub *Liobunum saxatile*)
 3. **Bazgovača špilja cave, XH29**, ca 4 km W of Nerežišća, the island of Brač (KRATOCHVÍL, 1946: Nerežišće)
 4. **Gruda, BN31**, 80 m, Konavli, (ŠILHAVÝ, 1938, HOFFER, ŠILHAVÝ leg., 1936; KRATOCHVÍL, 1946, sub *O. saxatilis* C. L. Koch, 1934, ŠILHAVÝ leg.)

Collection records

- the island of **Vis** (Lissa), ROEWER det. sub *O. parietinus*, GRUBER rev.: 1 m, 1 f (NHMW 3951, part.); **ibid.**, GRUBER rev. 1974: 1 m, 1 f (NHMW 3933)
 - the island of **Hvar**, 29.05.1933, REITTER leg., GRUBER det.: 1 m (TN 597/ 1983)
1. **Rovinj, UK99**, 10 m, under stones, 07.1957, GRUBER leg.: 2 mm (NHMW 3944); **ibid.**, near the lake Pal, 27.09.1966, HADŽI det. sub *Eudasylobus* sp. n.: 1 m (rev. TN 33/1986), microscopic preparation
 2. **Sv. Petar u Šumi, VL10**, 340 m, Pazin, 01.05.1994, GREGO leg.: 1 juv. (TN 93/2000)
 3. **Učka Mt., VL31** 1380 m, 14.07.1974, MARTENS leg.: 3 juv. (JM 1268)
 4. **Orašac, BN02**, 90 m, 12.06.1969, BAUER leg., GRUBER det. 1972: 2 ff (NHMW 3937)
 5. **Sv. Ilija Mt., XH76**, 961 m, Orebić, Pelješac peninsula, 05.1977, pitfall trap 3a, NEMENZ *et al.* leg.: Mte. Vipero (A. N. 1978, VIII.): 4 mm, 13 ff, 1 juv. (NHMW 6808); **ibid.**, pitfall trap 133: 2 ff (NHMW 6809); **ibid.**, *Pinetum*, floor: 1 juv. (NHMW 6810); **ibid.**, a burned bottle, Monkala, 26.05.: 1 m (NHMW 6811)
 6. **Biokovo Mt., XH79**, above Makarska, ca 1200 m, under stones, 23.09.1999, SLANA, NOVAK leg: 1 juv. (TN 242/1999)

Opilio dinaricus Šilhavý, 1938; Fig. 1–25

- **Croatia** (HADŽI, 1973b)
1. **Pula, VK16**, 25.08.1941 : 1 iuv. (TN 375/1983, rev. 2003)
 2. **Opatija, VL41**, 10 m (RAFALSKI, 1962: Abazya k. Fiume, 25.-26.02.1906, STOBIECKI leg.: 1 m, Coll. KULCZYNSKI, PAN; MARTENS, 1978)
 3. **Omišalj, VL60**, 10 m, the island of Krk (MARTENS, 1978, PRETZMANN leg.)

4. **Bakar, VL61**, 10 m (BABIĆ, 1916, sub *Phalangium parietinum*; 1 m, cf. 1 f (rev. TN 701/1984)
5. **Plitvička jezera, WK46**, 677 m (RAFALSKI, 1962: Plitvizca, KULCZYNSKI det. sub *Phalangium* sp. n.: 1 m, 1 f, 5 *Opilio* sp. juv., Coll. KULCZYNSKI, PAN; MARTENS, 1978)

Collection records

1. **Cerovlje, VL21**, 280 m, Pazin, 22.05.1986: 1 juv. (TN 1184/1998)
2. **Omišalj, VL60**, 10 m, the island of Krk, 17.09.1929, HADŽI det. sub *O. parietinus*: 4 mm, 3 ff, 12 juv. (rev. TN 626/1981, corr. 1986); **ibid.**, 09.1972, PRETZMANN leg., GRUBER det.: 1 m (NHMW 3857)
3. **Bijeli vrh Mt., WK36**, 1074 m, Vrhovine, 18.07.1961, RUCNER leg., HADŽI det. sub *O. saxatilis*: 1 m (rev. TN 28/1983)
4. **Gračac, WK60**, 600 m, 12.09.1964, HADŽI det. sub *O. parietinus*: 2 ff (rev. TN 192/1983)
5. **Cetina, XJ16**, 390 m, 13.09.1987, HORVAT, SIVEC leg.: 1 m (TN 1225/1998)

Opilio ruzickai Šilhavý, 1938; Fig. 1–26

Collection record

1. **Gospić, WK23**, Jasikovac, 570 m, BABIĆ det. sub *Phalangium parietinum*; 1 f (rev. TN 693/1984, sub *Opilio* cf. *ruzickai*)
2. **Bijeli vrh Mt., WK36**, 1074 m, Vrhovine, 15.09.1961, RUCNER leg., HADŽI det. sub *Opilio* sp. nova: 1 m (rev. TN 27/1983), microscopic preparation

**Opilio transversalis* Roewer, 1956

This species would be expected locally along the whole Adriatic coast and in the hinterland (cf. GRUBER, 1984).

Uncertain determinations of *Opilio* species

The written records of the *Opilio* species that appeared before the publication of ŠILHAVÝ'S (1938) work must be treated with caution. Our revision of HADŽI'S sparse determinations in his collection revealed that HADŽI confused some *Opilio* species also after ŠILHAVÝ'S publication. Therefore only citations based on relevant drawings and/or descriptions, and/or revised specimens can be taken into account (NOVAK & GRUBER, 2000).

1. **Omišalj bay, VL60** (HADŽI, 1936, sub *O. parietinus*, *Pinetum*, under stones, 09.1929: pl.) = 20.09.1929: 8 juv., and Phalangiidae gen. sp.: 1 juv. (TN 655/1981)
2. **Gospić, WK23** (BABIĆ, 1916, sub *Phalangium parietinum*)
3. **Topoluša, WK27**, Doljani, ca 800–1000 m (RUCNER & RUCNER, 1971, sub *Opilio parietinum*, *Helleboro-Pinetum* Horv. 1958, 18.09.1961: 1 ex.)
4. **Crni vrh, WK36**, Vrhovine (RUCNER & RUCNER, 1971, sub *Opilio parietinum*, *Helleboro-Pinetum* Horv. 1958, 19.07.1961: 3 ex., 20.07.1961: 1 ex.)

5. □ *Orlovčić*, WK36, Vrhovine (RUCNER & RUCNER, 1971, sub *Opilio parietinum*, *Helleboro-Pinetum* Horv. 1958, 18.07.1961: 2 ex.)
6. □ *Jasenak*, WL00 (LENDL, 1894, sub *Ph. parietinum*: Jassenak; DADAY DE DEÉS, 1896, sub *Liobunum parietinum*)
7. □ *Zapeč – Plemenitaš*, WL03 (BABIĆ, 1916, sub *Ph. parietinum*, pullus, 08.1912): 1 juv. (rev. TN 691/1984)
8. □ *Galdovo*, XL03 (BABIĆ, 1916, sub *Ph. parietinum*, 08.1905) : 2 juv. (rev. TN 696/1984)

Platybunus bucephalus (C. L. Koch, 1835); Fig. 1–27

- Northern **Croatia** (HADŽI, 1973b)
 - **Dalmatia** (ROSSI, 1846, sub *Platylophus Heegeri*, HEEGER leg., early spring /1846?/: 2 ex.; CARARRA, 1846, sub *P. Heegeri*; DOLESCHAL, 1852, sub *Platylophus Heegeri* Rossi; GASPERINI, 1891, 1892, sub *P. Heegeri*; ROEWER, 1911: pl. (Hofmus. Wien); ROEWER, 1912: Dalmatien, sub *P. pinetorum*: viele (m + f) – Hofmus. Wien) – (vidi), and sub *Platylophus Hugeri (dalmatinum)* Kollar = *Plat.* pull.: 2 – Hofmus. Wien, vidi type.; ROEWER, 1923, also sub *Platybunus* sp. = *Platylophus heegeri* Kollar: 2 juv.; HADŽI, 1973b: »/ex-/ Yugoslavia«)
1. a **pothole near Rovinjsko selo**, UK99, 140 m (DI CAPORACCIO, 1949: pozzo presso Villa di Rovigno, 09.11.1930, IVIANI leg.: 1 f)
 2. **Bitoraj Mt.**, VL81, 1385 m (BABIĆ, 1916: 06.1910) = 28.06.1910; 1 f (TN 740/1984)
 3. **Jasenak**, WL00, 600 m (LENDL, 1894: Jassenak, 10.1887, sub *Platybunus* sp.)
 4. **Medvednica Mt.**, WL78, 800 m (BABIĆ, 1916: Zagrebačka gora): 1 f (TN 739/1984); 04.05.1917: 1 juv. (TN 738/1984, sub *Platybunus* sp.)
 5. **Supetar**, XJ20, 10 m, the island of Brač (KOLOSVÁRY, 1938b: 10.04.1938)
 6. **Dubrovnik**, BN12, 10 m (MARTENS, 1978, BUG leg.)

Collection records

1. **Veliki Zavižan Mt.**, VK94, 1677 m, 05.10.1995, VUKOVIĆ leg.: 17 mm, 13 ff, 8 juv. (TN 3/1996)
2. **Sv. Petar u Šumi**, VL10, 340 m, Pazin, 04.04.1994, GREGO leg.: 2 juv. (TN 448/2000); *ibid.*, 01.05.1994: 1 juv. (TN 92/2000)
3. **Crni lug**, VL72, 730 m, Gorski Kotor, 14.7.1964, *Fagetum croaticum subalpinum*: 1 m (TN 321/1983)
4. **Čedanj**, VL93, 240 m, Brod na Kupi, 13.04.1984: 1 juv. (TN 1129/1998)
5. **Pila**, WM81, 220 m, Stubičke Toplice, Krapina, 02.05.1986, HORVAT, SIVEC leg.: 1 juv. (TN 1179/1998)
6. **Sljeme**, WL78, 1035 m, Medvednica Mt., 21.06.1917, BABIĆ det.: 3 mm, 1 f (TN 737/1984); *ibid.*, 14.05.1986: 1 m, 1 f (TN 1230/1998)
7. **Zaklopatica**, XH53, 10 m, the island of Lastovo, 30.11.1964: 2 juv. (TN 191/1983)
8. **Prevlaka**, XL06, 110 m, P 4, T-V; 15.08.1985: 1 juv. (TN 617/2002)
9. a cave near the sea in **Slano**, YH33, 10 m, BUG leg., 08.1968: 1 m (JM 883)

10. Rožat, **Rijeka Dubrovačka, BN12**, 10 m, 24.12.1952, A 589, NIKOLIĆ leg.: 2 juv. (TN 883/2003)

□ *Platybunus pinetorum* (C. L. Koch, 1839)

P. pinetorum has been recorded neither in Croatia nor in Slovenia; the citations (HADŽI, 1973b: whole /ex-/Yugoslavia) are most probably compatible with *P. bucephalus*.

Platybunus hadzii Kratochvíl, 1935; Fig. 1–28

Collection record

1. **Blaca, XJ12**, Split, 10 m, 27.03.1959, GRUBER leg. et det.: 1 f (NHMW 8228)

Platybunus spinosissimus Hadži, 1973; Figs. 1–28, 1–28a

1. **above Paklenica, WK21**, 900 m, 08.06.1964, BOLE leg., HADŽI det.: 1 f (HADŽI, 1973a: 06.07.1965, BOLE leg.: pl. mm, ff; Figs. 68b, č) – the **allotype**, microscopic preparation; the **allotype** and the type locality are not depicted in HADŽI'S (1973a) work
2. **Paklenica, WK21**, 08.06.1965, BOLE leg., HADŽI det.: 1 m (HADŽI, 1973a 06.07.1965, BOLE leg.: pl. mm, ff; Figs. 68a, c, d-g; HADŽI, 1973b: loc. typ.: Vrtlina in the Velebit Mts.) – the **holotype**, microscopic preparation; the **holotype** and the type locality are not depicted in HADŽI'S (1973a) work

Collection record

1. **Paklenica, WK21**, 02.06.1965, BOLE leg., HADŽI det., GRUBER rev., 1985: 1 m (TN 844/2003), **paratype**
2. **Vrtlina** cave above Velika Paklenica, **WK21**, 900 m, 08.06.1964, BOLE leg., HADŽI det., GRUBER rev., 1985: 1 m, 1 f (TN 842/2003) – **paratypes**; **ibid.**, 06.06.1966, BOLE leg., HADŽI det.: 1 f (TN 843/2003) – **paratype**
3. **Manita pećina** cave, **WK30**, Velika Paklenica, 500 m, 23.11.1983: 1 juv. (TN 98/2002)

HADŽI'S drawings do not meet the real condition, therefore the penis and the receptacula – missing in his work – are presented here in Fig. 1–28a.

**Platybunus strigosus* (L. Koch, 1867)

- **Dalmatia** (ROEWER, 1956: 1 f RII/528/53; HADŽI, 1973b, sub *Metaplatybunus strigosus* (C. L. Koch, 1867); STAREGA, 1981; KARAMAN, 1995a, sub *M. strigosus*)

This species has not been found in the collections studied, but would be expected in southern Croatia.

Metaplatybunus carneluttii (Hadži, 1973); Fig. 1–29

1. **Komolac, BN12** (HADŽI, 1973a: Rijeka–Komolac, sub *Platybunus kratochvili*, 21.03.1953: 1 f, 2 subad. – coll. IBU Ljubljana: A-535; HADŽI, 1973b: Komolac apud Dubrovnik, loc. typ., endem) = A – 535: 2 mm (rev. TN 577/1983)

Rilaena triangularis (Herbst, 1799); Fig. 1–29

- **Croatia** (ROEWER, 1923, sub *Platybunus triangularis*; HADŽI, 1973b, sub *P. triangularis*)
 - **Dalmatia** (ROEWER, 1912, sub *Phalangium appendiculatum* Kollar = *Platybunus corniger* Herm. 2 ff – Hofmus. Wien)
 - **Sava river-lowland** between Zagreb and Županja (MARTENS, 1978, GRUBER leg.)
1. **Plitvička jezera, WK46**, 677 m (MARTENS, 1978)
 2. **Rabatinka pećina** cave, **WL21**, 280 m, Tounj (BABIĆ, 1916, sub *P. corniger*, 06.1912: 1 m = 09.06.1912 (rev. TN 726/1984)
 3. **Tounj, WL21**, 280 m (BABIĆ, 1916, sub *P. corniger*, 06.1912: 1 f = 22.6.1912 (rev. TN 683/1984)
 4. **Vukovo Selo, WL58**, 170 m (RUCNER & RUCNER, 1971, sub *P. triangularis* /det. Hadži/, *Quercus-Carpinetum croaticum* Horv. 1937, 20.04.1962: 7 ex., 08.06. 1962: 1 ex.)
 5. near **Rozga, WL59**, 160 m (RUCNER & RUCNER, 1971, sub *P. triangularis*, *Genisto elatae-Quercetum* Horv. 1937, 24.04.1962: 4 ex., 07.06.1962: 1 ex.)
 6. **Podsused, WL67**, 130 m, Zagreb (BABIĆ, 1916, sub *P. corniger*, 05.1896: 1 f = 25.05.1896 (rev. TN 686/1984)
 7. **Kraljičin Zdenac, WL77**, 529 m (BABIĆ, 1916, sub *P. corniger*, 06.1897: 1 m)
 8. **Zagreb, WL77**, 120 m (BABIĆ, 1916, sub *P. corniger* (Hermann), 05.1904: 2 ff); **ibid., Maksimir** (BABIĆ, 1916, sub *P. corniger*, 04.1916: 1 m, 2 ff = 20.4.1916; 1 f (rev. TN 722/1984)
 9. **Obed, WL96**, 100 m (BABIĆ, 1916: Obeda, sub *P. corniger*, 05.1912: 1 f = 25.05. 1912: 2 ff (rev. TN 684/1984)
 10. **Cesarsko brdo, WM05**, ca 500 m (RUCNER & RUCNER, 1971: Cesargradska gora, sub *P. triangularis*, *Quercus-Ostryetum carpiniifoliae* Horv. 1938, 25.04.1962: 1 ex.); **ibid., Fagetum croaticum montanum** Horv. 1938, 19.05.1962: 24 ex.; **ibid., Quercus-Carpinetum croaticum** Horv. 1937, 18.05.1962: 2 ex., 06.06.1962: 3 ex., 09. 07.1963: 1 ex.)
 11. **Jankovac, YL03**, 500 m, near Velika, 230 m (BABIĆ, 1916, sub *P. corniger*, 07. 1916: 1 f; corr. 08.1916 (rev. TN 124/1984)

Collection records

1. **Sveta gora, VL74**, 580 m, 19.06.1917, BABIĆ det. sub *P. corniger* m f; 3 mm, 5 ff (rev. TN 682/1984)
2. **Plitvička jezera, WK46**, 677 m, STURANY leg. don., 25.02.1895, ROEWER det. sub *P. triangularis*, GRUBER rev.: 1 f (NHMW 3992)
3. **Prošćansko jezero** lake, Plitvička jezera, **WK46**, 677 m, STURANY leg., 24.02.1895, ROEWER det. sub *Platybunus triangularis*, GRUBER rev.: 2 juv. (NHMW 4002); **ibid.**, ROEWER det. sub *P. triangularis*, GRUBER rev. 1961: 2 ff (NHMW 3994)
4. **Stubica** near Devčićevac, **WK46**, 680 m, Plitvička jezera, STURANY leg. don., 12.02.1895, ROEWER det. sub *P. triangularis*, GRUBER rev.: 1 m, 2 ff (NHMW 3993)

5. **Kraljičin zdenac, WL77**, 529 m, 13.05.1917, BABIĆ det. sub *P. corniger*: 2 ff (rev. TN 685/1984)
6. **Kraljičin zdenac, WL77**, 14.06.1897: Kraljiščin zdenec, BABIĆ det. sub *P. corniger*: 1 m (rev. TN 728/1984)
7. **Zagreb, Cmrok, WL77**, 120 m, 06.05.1917, BABIĆ det. sub *P. corniger*; 1 f (rev. TN 725/1984)
8. **Pila, WL78**, 220 m, Stubičke Toplice, Medvednica Mt., 14.05.1986: 1 m, 1 f, 10 pulli (TN 1174/1998)
9. **Sljeme Mt., WL78**, 1032 m, Zagreb, Medvednica Mt., 14.05.1986: 1 m (TN 1231/1998)
10. **Zabok, WL79**, 180 m, 20.6.1917, BABIĆ det. sub *P. corniger*: f; 1 m (rev. TN 723/1984)
11. ca **15 km SE Zagreb, WL86**, 110 m, moist woodland, 15.10.1966, GRUBER leg.: 4 juv. (NHMW 4000)
12. **Trnava, WL87**, 120 m, Zagreb, Medvednica Mt., 14.05.1986: 1 m, 2 ff (TN 1238/1998)
13. **Laz, WL89**, ca 200 m, near the river Kašina, Medvednica Mt., Zagreb, 14.05.1986: 1 m (TN 1169/1998)
14. **Klanjec, WM05**, 170 m, 09.07.1963, *Quercus-Carpinetum croaticum*: 1 f (TN 592/1983)
15. **Ivanščica Mt., WM81**, 1061 m, 29.05.1917, BABIĆ: Ivančica, det. sub *P. corniger*: 1 m, 1 f (rev. TN 729/1984)
16. **Lobor, WM81**, 280 m, Ivanščica Mt., 02.05.1986: 6 pulli (TN 1197/1998)
17. **Manastir Pakra, XL75**, 160 m, Daruvar, 03.05.1986, HORVAT, SIVEC leg.: 1 f, 1 juv. (TN 1248/1998)
18. **Strmac, XL82**, 320 m, Psunj Mt., Nova Gradiška, 04.05.1985: 2 mm, 1 f (TN 1194/1998)
19. **Virovitica, XL87**, 120 m, 03.05.1986, HORVAT, SIVEC leg.: 1 juv. (TN 1228/1998)
20. **Kamengrad, XL94**, 528 m, Papuk Mt., Slavenska Požega, 03.05.1986: 1 f, 8 juv. (TN 1155/1998)
21. **Kalnik, XM01**, 643 m, Ljubeščica, 02.05.1986, SIVEC leg.: 1 juv. (TN 1148/1997)
22. **Slanje, XM22**, 180 m, Varaždin, 02.05.1986: 1 f, 3 juv. (TN 1206/1998)
23. **Jankovac, YL03**, 500 m, Papuk Mt., Slavenska Požega, 04.05.1986: 1 m, 4 ff (TN 1229/1998)
24. 5 km E **Slavonski Brod, BR10**, 90 m, pitfall traps, 15.09.–14.10.1966, plain, relatively dry *Quercus-Carpinus*, GRUBER leg.: ca 70 juv. (NHMW 3999)
25. **Slatinski Drenovac, BR14**, 180 m, Papuk Mt., Našice, 04.05.1986: 7 mm, 5 ff, 4 juv. (TN 1151/1998)
26. ca 15 km E **Županja, CQ19**, 80 m, Sava river-lowland, flood-woodland, pitfall traps, 15.09.–14.10.1966, GRUBER leg.: 4 juv. (NHMW 3998)

Dasylobus graniferus (Canestrini, 1871); Fig. 1–30

- **Croatia** (HADŽI, 1973b, sub *Eudasylobus nicaeensis* (Thorell, 1876), and sub *Zacheus* (*Dentizacheus*) *rucnerianus* Hadži, 1973, endem, and sub *E. georginae* Hadži, 1936, endem)
 - western **Croatia**, locality unknown (HADŽI, 1973a, sub *Z. (D.) rucnerianus*, D. RUCNER *et al.* leg.: pl. ex.)
 - **Dalmatia**, BABIĆ det. sub *Phalangium opilio* juv.; 1 juv. (rev. TN 688/1984, sub *E. nicaeensis*)
1. **Rovinj, UK99**, 10 m (MARTENS, 1978, sub *E. nicaeensis*, KRAUS leg.)
 2. **Haludovo** near Malinska, **VK69**, 10 m, the island of Krk (HADŽI, 1936, sub *E. georginae*, Figs. 8-16, 16.04.1927, G. HADŽI leg.: 1 ex.; **ibid.**, 16. and 17.04.1927, fam. HADŽI leg.: pl.)
 3. **Sv. Križ**, Senj, **VK98**, 200 m (BABIĆ, 1916, sub *Phalangium (Dasylobus) nicaeense* Thorell, 05.1912: 1 m); 1 m (rev. TN 680/1984, sub *E. nicaeensis*)
 4. **Učka Mt., VL31**, 1380 m (MARTENS, 1978, sub *E. nicaeensis*, MARTENS leg.) –14.07.1974, MARTENS leg. et det. sub *E. nicaeensis*: 1 f (JM 1269); **ibid.**: 2 mm (JM 1276); **ibid.**, western slope, 700 m, 03.1967: 1 juv. (f) (TN 338/1981)
 5. **Crni lug, VL72**, 730 m (HADŽI, 1973a, b, sub *E. rucnerianus*; loc. typ.; **ibid.**, under Smrekara, 1973a, sub *E. rucnerianus*, 14.06.1964, D. RUCNER leg.: 1 m)
 6. **Mali Risnjak Mt., VL73**, 1448 m, Risnjak National Park (RUCNER & RUCNER, 1971, sub *Eudasylobus* sp. nov., and *Zacheus* sp. nov., *Fagetum croaticum subalpinum* Horv. 1938, 14.07.1964: 1 ex.)
 7. **Štirovača, WK04**, 1102 m (BABIĆ, 1916: Štirovača, sub *Ph. (D.) nicaeense*, 07.1912: 1 m, 1 f); 1912; 1 m, 1 f (rev. TN 681/1984, sub *E. nicaeensis*)
 8. **Borića borik, WK36**, ca 800–1000 m, Donji Babin potok (RUCNER & RUCNER, 1971, sub *Eudasylobus* sp. nov., *Piceetum dolomiticum* Horv. 1958, 24.06.1964: 1 ex.)
 9. **Donji Babin potok, WK36**, 760 m (HADŽI, 1973a, sub *E. rucnerianus*, 26.06.1960, RUCNER leg.: 1 m)
 10. **Stubica** at Plitvice, **WK46**, 680 m (MARTENS, 1978, sub *E. nicaeensis*, sec. GRUBER)
 11. **Ogulin, WL11**, 320 m (MARTENS, 1978, sub *E. nicaeensis*)

Collection records

1. the island of **Plavnik, VK67**, 10 m, under stones, *Quercetum ilecis*, 07.06.1980, CHRISTIAN leg., sub *E. nicaeensis*: 1 m (NHMW)
2. **Malinska, VK69**, 10 m, the island of Krk, 16.04.1927, HADŽI det. sub *E. georginae* n. sp., **type** for male: 1 m (rev. TN 114/1983, sub *E. nicaeensis*), microscopic preparation /without penis/; **ibid.**, HADŽI det. sub *E. georginae* n. sp., **type** for female: 1 f (rev. TN 104/1983, sub *E. nicaeensis*), microscopic preparation; **ibid.**, HADŽI det. sub *E. georginae* n. sp. m, 2nd ex.: 1 m (rev. TN 115/ 1983, sub *E. nicaeensis*), microscopic preparation
3. **Mačeha pećina, VL32**, 800 m, Lanišće, 25.05.1968: 1 f (TN 569/1983, sub *E. nicaeensis*), rev. 2003)

4. **Crni lug, VL72**, 730 m, Gorski Kotar, 19.03.1964, RUCNER leg., HADŽI det. sub *Dentizacheus rucneri* sp. n., **holotype**: 1 m (rev. TN 116/1983, sub *E. nicaeensis*), microscopic preparation
5. **Borića borik, WK36**, ca 800–1000 m, Donji Babin potok, 26.06.1962, RUCNER leg., HADŽI det. sub *E. rucneri* sp. n., **holotype**: 1 m (rev. TN 113/1983, sub *E. nicaeensis*), microscopic preparation

Lophopilio palpinalis (Herbst, 1799); Fig. 1–31

1. **Karin, WJ48**, 10 m (MUČALICA–MILANOVIĆ, 1990: 22.05.–05.06.1987, traps, MUČALICA leg.: 1 ex.; **ibid.**, 19.06.–03.07.1987: 4 ex.)
2. **Gornje Ceranje, WJ49**, 200 m (MUČALICA–MILANOVIĆ, 1990: Ceranje Gornje, 25.05.–08.06.1987, traps, MUČALICA leg.: 8 ex.; **ibid.**, 03.–17.08.1987: 3 ex.)
3. **Jasenak, WL00**, 600 m (LENDL, 1894, sub *Oligolophus palpinalis*, 11.1887); **ibid.** (DADAY DE DEÉS, 1896, sub *O. palpinalis*, ex collectione A. LENDL)
4. **Podsused, WL67**, 130 m, Zagreb (LENDL, 1894, sub *O. palpinalis*, 11.1887); **ibid.** (DADAY DE DEÉS, 1896, sub *O. palpinalis*, ex coll. A. LENDL)

Collection record

1. **Dugo selo** near Zagreb, **WL97**, 110 m, *Fagetum*, 14.05.1968, MARTENS *et al.* leg.: 6 juv. (JM 840)

Zachaeus crista (Brullé, 1832); Fig. 1–32

- **Croatia** (HADŽI, 1973b, sub *Zacheus* (Z.) *crista*)
 - **Dalmatia** (DOLESCHAL, 1852, sub *Zacheus mordax* and sub *Ischyropsalis redtenbacheri* – cf. THALER & GRUBER, 2003; GASPERINI, 1891, 1892, sub *Egaenus mordax* = *Zacheus mordax*, in: DOLESCHAL, 1852; ROEWER, 1914, sub *I. redtenbacheri*)
1. **Valpovo, BR35**, 90 m, 04.06.1905, BABIĆ det. sub *Metaphalangium propinquum* = *Phalangium propinquum*: 1 f (rev. TN 721/1984)

Collection records

- **Dalmatia**, ROEWER det.: 2 mm, 2 ff (NHMW 4133)
1. **Lipovljani, XL52**, 140 m, 13.–14.06.1969, BAUER leg.: 1 m, 4 ff, 1 juv. (NHMW 4140)

Egaenus convexus (C. L. Koch, 1835); Fig. 1–33

- **Croatia** (ROEWER, 1912: pl. mm, ff, juv., Mus. Wien and Budapest; HADŽI, 1973b)
1. **Gospić, WK23**, 570 m (BABIĆ, 1916, sub *E. tibialis* C. Koch: 2 mm, 1 f) = 1901: 2 mm (rev. TN 713/1984)
 2. **Kvarte, WK24**, Perušić, 577 m (BABIĆ, 1916, sub *E. tibialis*, 07.1903: 1 m) = 26.07.1903 (rev. TN 710/1984)
 3. **Plitvice, WK46**, 677 m (BABIĆ, 1916, sub *E. tibialis*, 08.1902: 1 m) = 27.8.1902: 1 f (rev. TN 715/1984)

4. **Okić castle, WL56**, Samobor, 400 m (BABIĆ, 1916, sub *E. tibialis*, 05.1905) = 21.05.1905: 1 f (rev. TN 712/1984)
5. **Zaprešić, WL67**, 140 m, near the Lužnica brook (BABIĆ, 1916, sub *E. tibialis*, 06.1900: 1 f)
6. **Adolfovac Mt., WL77**, 600 m, Zagreb (BABIĆ, 1916, sub *E. tibialis*, 06.1905: 1 f; **ibid.** (BABIĆ, 1916, sub *E. tibialis*, 05.1905: 1 f) = 30.05.1901: 1 f (rev. TN 716/1984)
7. **Zagreb, WL77**, 120 m (BABIĆ, 1916, sub *E. tibialis*, 05.1903: 1 m, 1 f) = 1 m (rev. TN 709/1984); 10.5.1905: 1 f (rev. TN 711/1984)
8. **Cesarsko brdo, WM05**, ca 500 m (RUCNER & RUCNER, 1971: Cesargradska gora, *Quercus-Carpinetum croaticum* Horv. 1937, 06.06.1964, HADŽI det.: 3 ex.)
9. **Vinkovci, CR11**, 90 m (LENDL, 1894: Vinkovce (Slavonia), sub *E. maximus*: 1 m, 1 f; DADAY DE DEÉS, 1896: Vinkovce, sub *E. maximus*; ROEWER, 1911, 1912: Slavonien (Vinkovce): 2 (m + f) – Mus. Budapest, vidi **type**)

Collection records

- the island of **Krk**, REITTER leg.: Veglia, STEINDACHER don. 04.1882; (?KOELBEL det. sub »*Ischyropsalis hellwigii* C. Koch«...?) ROEWER rev.: 1 m, 2 juv. (NHMW 3838)
1. **Ogulin – Josipdol, WL11**, 330 m, MANN leg.: Josefthal, 1866, ROEWER det.: 2 mm, 1 f (NHMW 3840)
 2. **Medvednica Mt., WL78**, 800 m, Zagrebačka gora, Zagreb, 04.06.1905, BABIĆ det. sub *E. tibialis*: 1 f (rev. TN 714/1984)
 3. **Prošćansko jezero** lake, Plitvička jezera, **WK46**, 677 m, STURANY leg., don., 23.02.1895, KOELBEL det. sub *Ischyropsalidae?*, ROEWER det.: 2 mm (NHMW 3841)
 4. ca 15 km SE **Zagreb, WL86**, 110 m, flood-woodland, sieve, 15.10.1966, GRUBER leg.: 5 juv. (NHMW 3846)
 5. **Lipovljani, XL52**, 140 m, 13.–14.06.1969, BAUER leg.: 6 mm, 3 ff (NHMW 3850)
 6. 5 km E **Slavonski Brod, BR10**, 90 m, pitfall traps, 15.09.–14.10.1966, plain, relatively dry *Quercus-Carpinus*, GRUBER leg.: 44 juv. (NHMW 3847)
 7. ca 15 km E **Županja, CQ19**, 80 m, Sava river-lowland, flood-woodland, pitfall traps, 15.09.–14.10.1966, GRUBER leg., det.: 4 juv. (NHMW 3848)

HADŽI (1936) did not mention this species in relation to the island of Krk in this work, as was cited by MARTENS (1978).

Uncertain citation

1. □ *Cesarsko brdo, WM05, ca 500 m* (RUCNER & RUCNER, 1971: Cesargradska gora, *Quercus-Carpinetum croaticum* Horv. 1937, 18.05.1964: 1 ex.; MARTENS, 1978) – Note: very probably a melanistic specimen of *E. convexus*, as is familiar from the neighbouring region of Slovenia.

Oligolophus tridens (C. L. Koch, 1836); Fig. 1–34

- **Croatia** (HADŽI, 1973b, also sub *Odiellus gallicus* (Simon, 1879))

1. **Karin, WJ48**, 10 m (MUČALICA–MILANOVIĆ, 1990: 08.–22.05.1987, traps, MUČALICA leg.: 1 ex.; *ibid.*, 17.–31.07.1987: 49 ex.)
2. **Gornje Ceranje, WJ49**, 200 m (MUČALICA–MILANOVIĆ, 1990: Ceranje Gornje, sub *O. tridenst.*: 25.05.–08.06.1987, traps, MUČALICA leg.: 2 ex.)
3. **Zagreb, WL77**, 120 m (ROEWER, 1957: 1 m – RII/479/9)

Collection records

1. **Čaglin, VL32**, Slavonski Brod, 90 m, 12.10.1986, SIVEC, HORVAT leg.: 1 f (TN 1110/1998)
2. **Čedanj, VL93**, 240 m, Brod na Kupi, 12.04.1984, SIVEC leg.: 1 m (TN 1182/1998); *ibid.*, 12.09.1987, HORVAT, SIVEC leg.: 7 mm, 3 ff (TN 1233/1998)
3. **Golik, VL93**, 230 m, Brod na Kupi, 12.09.1987, HORVAT, SIVEC leg.: 1 m, 2 ff (TN 1149/1998)
4. **Gornja Dobra, VL93**, 500 m, Delnice, 12.10.1984, SIVEC leg.: 1 f (TN 1189/1998)
5. **Pakrac, VL83**, 180 m, Pšunj Mt., 05.10.1987, SIVEC, HORVAT leg.: 4 mm, 1 f (TN 1160/1998)
6. **Rozga, WL59**, 160 m, 20.03.1962, RUCNER leg., HADŽI det. sub *Lacinius* aff. *gallicus*; 1 f (rev. TN 114/1985), microscopic preparation
7. **Jankovac, YL03**, 500 m, Papuk Mt., 13.10.1986, SIVEC, HORVAT leg.: 3 mm, 5 ff (TN 1093/1998); *ibid.*, 06.07.1989, HORVAT leg.: 1 juv. (TN 1153/1998)
8. **Koprivna, XL92**, 280 m, Deževci, Pšunj, 340 m, 20.10.1990, SIVEC, HORVAT leg.: 1 f (TN 1180/1998)

Odiellus gallicus is the synonym of *Odiellus troguloides* (Lucas, 1847), but it is improbable that this western European species lives in Croatia. Under *O. gallicus*, HADŽI (1973b) cited *Oligolophus tridens*.

Lacinius horridus (Panzer, 1794); Fig. 1–35

- **Dalmatia** (DOLESCHAL, 1852, sub *Acanholophus horridus*; GASPERINI, 1891, 1892: *Lacinius horridus* (= *A. horridus*); ROEWER, 1957: 8 ex. (mm, ff) –RI/ 10/1230)
 1. **Bakar, VL61**, 10 m (BABIĆ, 1916, sub *A. hispidus*, 10.year?: 1 f)
 2. **Benkovac, WJ47**, 180 m (MUČALICA–MILANOVIĆ, 1990: 08.–22.06.1987, pitfall traps, MUČALICA leg.: 1 ex.); *ibid.*, 03.–17.08.1987: 1 ex.)
 3. **Gornje Ceranje, WJ49**, 200 m (MUČALICA–MILANOVIĆ, 1990: Ceranje Gornje, 25.05.–08.06.1987, pitfall traps, MUČALICA leg.: 2 ex.; *ibid.*, 20.07.–03.08.1987: 2 ex.; *ibid.*, 31.08.–14.09.1987: 15 ex.; *ibid.*, 14.–28.09.1987: 2 ex.)
 4. **Topoluša, WK27**, Doljani, ca 800–1000 m (RUCNER & RUCNER, 1971, *Helleboro-Pinetum* Horv. 1958, 17.09.1961: 2 ex., 18.09.1961: 2 ex.)
 5. **Bijeli vrh, WK36**, 1074 m, Vrhovine, *Fagetum croaticum abietosum* Horv. 1938, 12.10.1961: 3 ex.
 6. **Crni vrh, WK36**, 850 m, Vrhovine (RUCNER & RUCNER, 1971, *Helleboro-Pinetum* Horv. 1958, 19.07.1961: 4 ex.)

7. **Kriva Draga, WK36**, ca 850 m, Donji Babin potok (RUCNER & RUCNER, 1971, *Piceetum dolomiticum* Horv. 1958, 13.09.1961: 1 ex.)
8. **Orlovčić, WK36**, ca 800 m, Vrhovine (RUCNER & RUCNER, 1971, *Helleboro-Pinetum* Horv. 1958, 18.07.1961: 4 ex.)
9. **Kožino, XJ18**, 70 m (MUČALICA–MILANOVIĆ, 1990: 17.–31.05.1987, pitfall traps, MUČALICA leg.: 1 ex.; **ibid.**, 26.07.–09.08.1987: 4 ex.; **ibid.**, 23.08.–06.09.1987: 15 ex.; **ibid.**, 19.06.–3.07.1987: 4 ex.; **ibid.**, 17.–31.07.1987: 1 ex.; **ibid.**, 14.–28.08.1987: 4 ex.; **ibid.**, 28.08.–11.09.1987: 18 ex.)
10. **Split, XJ11, XJ21**, 10 m (GASPERINI, 1891, 1892, sub *A. hispidus*; BABIĆ, 1916, sub *A. hispidus*, 10.year?: 2 mm, 1 f, 3 juv.)

Collection records

- the island of **Rab**, 08.1980, STEINER leg. don.: Kallifront, Steineichenwald (A.N. 1981. XV.): 2 juv. (NHMW 9156)
- 1. **Rovinj, UK99**, 10 m, 09.1960, SKET leg.: 1 f (TN 109/1981)
- 2. **Limski zaljev, UK99**, 10 m, 09.1972, PRETZMANN leg.: 2 mm, 1 f (NHMW 5392)
- 3. **Umag, UL83**, 10 m, 08.08.1963, BILEK leg.? (Strand): 4 juv. (NHMW 5391)
- 4. **Omišalj, VL60**, 10 m, the island of Krk, PRETZMANN leg.: 2 mm (NHMW 5393)
- 5. **Soline, VL70**, 10 m, the island of Krk, 22.08.1964, *Carpinetum orientalis croaticum*: 1 f, 1 f juv. (TN 612/1983)
- 6. **Biograd, WJ36**, 10 m, STURANY leg., 1891: Zara vecchia, ROEWER det.: 1 f, 2 juv. (NHMW 5401)
- 7. **Velika Paklenica, WK30**, 200 m, 80–424, sub *L. h. bulgaricus*, GRUBER rev.: 1 f (NHMW)
- 8. below **Dugi do, WK36**, ca 800 m, Vrhovine, 02.10.1961, RUCNER leg.: Dugi dol, HADŽI det.: 1 m, 1 f (TN 77/1983), microscopic preparation
- 9. **Sv. Ilija Mt., XH76**, 961 m, Orebić, Pelješac peninsula, 24.05.1977, NEMENTZ *et al.* leg.: Mte. Vipero (A.N. 1978, VIII.): 1 juv. (NHMW 6806); **ibid.**, *Pinetum*, floor: 2 juv. (NHMW 6807)
- 10. **Derven, XJ24**, 443 m, 07.1979: 1 juv. (TN 78/1981)
- 11. **Dubrovnik, BN12**, 10 m, macchia, SCHWEIGER leg., 23.–26.08.1957: 1 juv. (NHMW 9363)

HADŽI (1973b) erroneously identified *Lacinius labacensis* Hadži, 1971, /right: 1931/ as the synonym of *L. horridus*, instead of *L. dentiger*.

Lacinius dentiger (C. L. Koch, 1848); Fig. 1–36

1. near **Omišalj, VL60**, 10 m, the island of Krk (HADŽI, 1936, sub *L. labacensis*, 12.09.1929: 1 subad.)
2. **Bakar, VL61**, 10 m (BABIĆ, 1916, sub *Acantholophus dentiger*, 10.year?: 3 ff)

3. **Benkovac, WJ47**, 180 m (MUČALICA–MILANOVIĆ, 1990: 08.–22.06.1987, pitfall traps, MUČALICA leg.: 1 ex.; **ibid.**, 21.08.–14.09.1987: 5 ex.)
4. **Karin, WJ48**, 10 m (MUČALICA–MILANOVIĆ, 1990: 05.–19.06.1987, pitfall traps, MUČALICA leg.: 5 ex.)
5. **Gornje Ceranje, WJ49**, 200 m (MUČALICA–MILANOVIĆ, 1990: Ceranje Gornje, 25.05.–08.06.1987, pitfall traps, MUČALICA leg.: 1 ex.; **ibid.**, 20.07.–03.08.1987: 1 ex.)
6. **Doljani, WK27**, Vrhovine (HADŽI, 1973a, sub *L. chelodentatus*, 16.09.1961, leg. D. RUCNER: pl. ex. /at least one m/; HADŽI, 1973b, sub *L. chelodentatus* Hadži, 1972, endem)
7. **Zagreb, WL77**, 120 m (BABIĆ, 1916, sub *A. dentiger*: 1 f)
8. **Klanjec, WM05**, 170 m (BABIĆ, 1916, sub *A. dentiger*: 1 juv.)
9. **Krapina, WM61**, 290 m (BABIĆ, 1916, sub *A. dentiger*, 11.year?: 1 m, 1 f)
10. **Split, XJ11, XJ21**, 10 m (GASPERINI, 1891, 1982, sub *A. annulipes*)

Collection records

1. **Veliki Zavižan Mt., VK94**, 1677 m, 05.10.1995, VUKOVIĆ leg.: 1 juv. (TN 8/1996)
2. **Čabar, VL75**, 660 m, 12.10.1984, SIVEC leg.: 1 f (TN 1226/1998)
3. **Pađene, WJ97**, Knin, *Pinetum nigri*, 21.10.1980, DEELEMANN leg.: 1 f (Coll. DEELEMANN)
4. **Doljani, WK27**, Vrhovine, 18.09.1961, RUCNER leg., HADŽI det. sub *L. chelodentatus*: 1 m (TN 82/1983, rev 2003), microscopic preparation; **ibid.**, HADŽI det. sub *L. chelodentatus*: 1 f (TN 83/1983, rev. 2003), microscopic preparation
5. **Velika Paklenica, WK30**, 09.11.1997, SLANA, NOVAK leg.: 2 mm (TN 427/1998)
6. **Bijeli vrh Mt., WK36**, 1074 m, Vrhovine, 15.09.1961, RUCNER leg.: 1 m (TN 7/1983)
7. **Novi Vinodolski, VK89**, 16.07.1930, on walls near Kalvarija, HADŽI leg. et det. sub *L. labacensis*: 3 juv. (rev. TN 137/1981)
8. **Meje – Marjan, XJ11**, Split, 0–178 m, 04.1933, under stones: 2 juv. (TN 288/1983, part.)
9. **Imotski – Zagvozd, XJ71**, Pas, *Pinetum nigri*, 22.10.1980, DEELEMANN leg.: 1 m (NHMW)
10. **Cavtat, BN21**, 07.–08.1936, under stones above the watering-place, HADŽI leg., HADŽI det. sub *Lacinius* sp. aff. *labacensis*: 1 juv. (TN 11/1983), microscopic preparation

Lacinius ephippiatus (C. L. Koch, 1835); Fig. 1–37

- Croatia (HADŽI, 1973b)

1. **Gornje Ceranje, WJ49**, 200 m (MUČALICA–MILANOVIĆ, 1990: Ceranje Gornje, 25.05.–08.06.1987, pitfall traps, MUČALICA leg.: 4 ex.)

2. **Topoluša, WK27**, Doljani, ca 800–1000 m (RUCNER & RUCNER, 1971, *Helleboro-Pinetum* Horv. 1958, 18.09.1961: 9 ex.; HADŽI, 1973a: Doljani, sub *Odiellus rucneri*, oak and pinewood, RUCNER *et al.* leg.: pl. ex., Fig. 54)
3. **Bijeli vrh, WK36**, 1074 m, Vrhovine (RUCNER & RUCNER, 1971, sub *Odiellus* sp. nov., *Fagetum croaticum abietosum* Horv. 1938, 15.09.1961: 1 ex., 10.10.1961: 2 ex.; *ibid.*, 12.10.1961: 1 ex.; HADŽI, 1973a, Vrhovine, sub *O. rucneri*, oak and pinewood, RUCNER D. *et al.* leg.: pl. ex., Fig. 54; HADŽI, 1973b, endem)
4. **Borića borik, WK36**, ca 800–1000 m, Donji Babin potok (RUCNER & RUCNER, 1971, sub *Odiellus* sp. nov., *Helleboro-Pinetum* Horv. 1958, 14.09.1961: 3 ex.)
5. **Kriva Draga, WK36**, ca 850 m, Donji Babin potok (RUCNER & RUCNER, 1971, sub *Odiellus* sp. nov., *Piceetum dolomiticum* Horv. 1958, 13.09.1961: 2 ex.; HADŽI, 1973a, sub *O. rucneri*, oak and pinewood, RUCNER D. *et al.* leg.: pl. ex., Fig. 54)
6. **Orlovčić, WK36**, ca 800 m, Vrhovine, ca 800–1000 m (RUCNER & RUCNER, 1971, sub *Odiellus* sp. nov., *Helleboro-Pinetum* Horv. 1958, 17.07.1961: 3 ex., 18.07. 1961: 2 ex.)
7. **Vukovo Selo, WL58**, 170 m (RUCNER & RUCNER, 1971, sub *Odiellus* sp. nov., *Quercu-Carpinetum croaticum* Horv. 1937, 22.07.1962: 2 ex.; HADŽI, 1973a, sub *O. rucneri*, RUCNER D. *et al.* leg.: pl. ex., Fig. 54; *ibid.*, sub *Lacinius* sp., 08.06. 1962: 2 ex.)
8. near **Rozga, WL59**, 160 m (RUCNER & RUCNER, 1971, sub *Odiellus* sp. nov., *Genisto elatae-Quercetum* Horv. 1937, 07.06.1962: 2 ex.; HADŽI, 1973a, sub *O. rucneri*, RUCNER *et al.* leg.: pl. ex., Fig. 54)
9. **Tuškanac, Zagreb, WL77**, 120 m (BABIĆ, 1916, sub *Acantholophus ephippiatus*, 07.year?: 1 f)
10. **Cesarsko brdo, WM05**, ca 500 m (RUCNER & RUCNER, 1971: Cesargradska gora, *Quercu-Carpinetum croaticum* Horv. 1937, 20.07.1962: 1 ex.)
11. **Klanjec, WM05**, 170 m (BABIĆ, 1916, sub *A. ephippiatus*: 1 f)
12. **Kožino, XJ18**, 70 m (MUČALICA–MILANOVIĆ, 1990: 20.09.–04.10.1987, pitfall traps, MUČALICA leg.: 6 ex.; 11.–25.09.1987: 3 ex.)

Collection records

1. **Mali Platak, VL62**, 1060 m, 20.08.1964, HADŽI det.: 1 f (TN 313/1983)
2. **Platak, VL62**, 1111 m, *Fagetum croaticum abietosum*, HADŽI det.: 1 m (TN 607/1983)
3. **Snježnik Mt., VL62**, 1506 m, 18.8.1964, *Pinetum mughi croaticum*, HADŽI det.: 1 m, 1 f (TN 305/1983)
4. **Crni lug, VL72**, 730 m, Rebar Lazni, 18.09.1963: 1 f (TN 319/1983); *ibid.*, Irk, 17.07.1964, *Blechno Abietum*: 1 m (TN 311/1983)
5. **Mikašinovići, WL21**, 280 m, Tounj: 1 subad. m (TN 351/2002)
6. **Vukovo Selo, WL58**, 170 m, 21.7.1961, RUCNER leg., HADŽI det. sub *Odiellus rucneri*: 1 m, 1 f (rev. TN 118/1983), microscopic preparation
7. **Rozga, WL59**, 160 m, 20.03.1962, RUCNER leg., HADŽI det. sub *Lacinius* cf. *gallicus* m et nympha; 1 m, 1 f (TN 91/1983, rev.2003), microscopic preparation

Odiellus spinosus (Bosc, 1792); Fig. 1–38

- **Croatia – Quarner** (HADŽI, 1936, sub *Papillophus crassus*, Figs. 1-7; HADŽI, 1973b, sub *P. crassus* Hadži, 1936, endem)
 - the island of **Krk** (MARTENS, 1978)
1. **Rovinj, UK99**, 10 m, Pahun, 27.09.1966, BOLE leg., HADŽI det. sub *P. crassus*: 1 m (TN 431/1983)
 2. **Rovinjско selo, UK99**, 140 m (MARTENS, 1978: Rovinjско selo, v. HELVERSEN leg.)
 3. **Učka Mt., VL31**, 1380 m (MARTENS, 1978, MARTENS leg.)
 4. in the vicinity of **Omišalj, VL60**, 10 m, the island of Krk, near sea-level (HADŽI, 1936, sub *P. crassus*, Figs. 1-7, 12.09.1929: 2 mm, 1 f; KRAUS, 1959)
 5. **Bakar, VL61**, 10 m, near sea-level (BABIĆ, 1916, sub *Acantholophus spinosus*, 10.year?: 1 m)
 6. **Karin, WJ48**, 10 m (MUČALICA–MILANOVIĆ, 1990: 28.08.–11.09.1987, pitfall traps, MUČALICA leg.: 16 ex.; *ibid.*, 11.–25.09.1987: 75 ex.)
 7. **Gornje Ceranje, WJ49**, 200 m (MUČALICA–MILANOVIĆ, 1990: Ceranje Gornje, 25.05.1987, pitfall traps, MUČALICA leg.: 11.–25.05.1987: 6 ex.; *ibid.*, 08.–22.06.1987: 50 ex.; *ibid.*, 20.07.–03.08.1987: 7 ex.; *ibid.*, 31.08.–14.09.1987: 14 ex.; *ibid.*, 14.–28.09.1987: 100 ex.)
 8. **Kožino, XJ18**, 70 m (MUČALICA–MILANOVIĆ, 1990: 20.09.–04.10.1987, pitfall traps, MUČALICA leg.: 3 ex.)

Collection records

1. **Rovinj, UK99**, 10 m, 24.09.1977: 2 mm, 14 ff (NHMW)
2. 3 km E of **Rovinjско selo, UK99**, 140 m, 03.09.1967, HELVERSEN leg.: 1 m (JM 931)
3. **Umag, UL83**, the seashore, 08.08.1963: 1 juv. (NHMW)
4. **Sv. Petar u Šumi, VL10**, 340 m, Pazin, 04.04.1994, GREGO leg.: 1 juv. (TN 447/2000)
5. **Mošćenička draga, VL21**, 10 m, BILEK leg. et don., 09.1971: 2 ff (NHMW)
6. **Učka Mt., VL31** 1380 m, 14.07.1974, MARTENS leg.: 4 juv. (JM 1267)
7. **Omišalj, VL60, 10 m**, the island of Krk, Figs. 1-7, 16.09.1929, HADŽI det. sub *P. crassus* g. n., sp. n. **type** for male: 1 m (rev. TN 123/1983), microscopic preparation; *ibid.*, HADŽI det. sub *O. aff. simplicipes*: 1 m (rev. TN 75/1981)
8. **Oštarijska vrata, WK13**, 928 m, the Velebit Mts., 03.07.1962 (A.N. 1979 LXXXIV.3: Oštarijsko sedlo): 1 juv. (NHMW)

Odiellus lendli (Sørensen, 1894); Fig. 1–38

Collection records

1. **Rijeka Dubrovačka, BN12**, 10 m, Dubrovnik, 12.09.1952, NIKOLIĆ leg., HADŽI det. sub *Lacinius horridus*: 2 juv. (TN 680/1983)

Mitopus morio (Fabricius, 1779); Fig. 1–39

- **Croatia** (BABIĆ, 1916, sub *Oligolophus morio*: 1 m; HADŽI, 1973b, also sub *M. m. alpinus*)

- **Dalmatia** (ROEWER, 1912, sub *M. scaber*, pl. mm, ff – Hofmus. Wien); ROEWER, 1923; HADŽI, 1973b: »/ex-/ Yugoslavia«)
 - **Medvednica Mt.**, 800 m (BABIĆ, 1916: Zagrebačka gora, sub *O. alpinus* juv.); 2 juv. (rev. TN 743/1984)
1. **Suha ričina, VK78**, ca 50 m, the island of Krk, (MARCELLINO, 1974: Suha Ricina, isola di Veglia (Krk, YU), 26.10.1967, BRUNO leg. : 2 mm)
 2. **Jezero, VL60**, 20 m, the island of Krk, (MARCELLINO, 1974: Jezero, 28.10. 1967, BRUNO leg.: 1 f)
 3. **Zlobin, VL71**, 772 m (BABIĆ, 1916, sub *O. palliatus*: 07. year?): 1 f = 17.07.1914 (rev. TN 675/1984)
 4. **Bitoraj Mt., VL81**, 1385 m (BABIĆ, 1916, sub *O. alpinus*: 06. year?: 1 ex.) = 28.06.1910: 1 juv. (rev. TN 748/1984)
 5. **Lokve, VL82**, 723 m (BABIĆ, 1916, sub *O. alpinus*: 06. and 07. year?: 3 ex.) = 26.06.1910; 2 juv. (rev. TN 744/1984); **ibid.**, 13.07.1903, juv.; 1 juv. (rev. TN 741/1984)
 6. **Mrkvište, WK04**, Štirovača, 1276 m (BABIĆ, 1916: Stirovača, sub *O. morio*: 07. year?: 1 f)
 7. **Štirovača, WK04**, 1102 m (BABIĆ, 1916: Stirovača, sub *O. palliatus*: 07. year?: 1 m, 6 ff) = 27.07.1912 (rev. TN 678/1984); **ibid.**, BABIĆ det. sub *O. morio*; 1 f (rev. TN 754/1984)
 8. **Vranjkova draga, WK05**, 1228 m (BABIĆ, 1916: Franjkova draga, Kozjak, sub *O. alpinus*: 07. year?: 2 ex.) = 31.7.1912, juv.; 2 juv. (rev. TN 742/1984)
 9. **Doci, WK13**, 800 m, 21.07.1911 (BABIĆ, 1916, sub *O. palliatus*); 2 mm, 1 f (rev. TN 676/1984); (BABIĆ, 1916: Rujina, Doci, the Velebit Mts., 1500 m, sub *O. palliatus*: 07. year?: 2 mm, 4 ff) = 29.07.1911; 3 ff (rev. TN 679/1984) – localities cited probably in accordance with a trip from the Rujina spring to Doci and from there to the summit of the Velebit Mts.
 10. **Jadovno, WK13**, 864 m (BABIĆ, 1916, sub *O. palliatus*: 08. year?: 1 f) (rev. TN 677/1984)
 11. **Rujina spring, WK14**, 760 (BABIĆ, 1916: Rujina, Doci, the Velebit Mts., 1500 m, sub *O. palliatus*: 07. year?: 2 mm, 4 ff) = 29.07.1911; 3 ff (rev. TN 679/1984) – localities cited probably in accordance with a voyage from the Rujina spring to Doci and from there to a summit of the Velebit Mts.
 12. **Bijeli vrh Mt., WK36**, 1074 m, Vrhovine (RUCNER & RUCNER, 1971: *Fagetum croaticum abietosum* Horv. 1938, 12.10.1964: 1 ex.)
 13. **Borića borik, WK36**, ca 800–1000 m, Donji Babin potok (RUCNER & RUCNER, 1971: *Helleboro-Pinetum* Horv. 1958, 14.09.1964: 1 ex.)
 14. **Kriva Draga, WK36**, ca 850 m, Donji Babin potok (RUCNER & RUCNER, 1971: *Piceetum dolomiticum* Horv. 1958, 13.09.1961: 4 ex.)
 15. **Sljeme, WL78**, 1035 m, the Medvednica Mts. (BABIĆ, 1916, sub *O. morio*: 09. and 10. year?: 2 mm, 4 ff) = 10.09.1905: 1 f (rev. TN 752/1984); **ibid.**, 1907: 2 mm, 2 ff (rev. TN 755/1984); **ibid.**, 10.1916: 1 f (rev. TN 751/1984)

16. **Strahinščica Mt., WM61**, 846 m (BABIĆ, 1916, sub *O. morio*, rev. sub *M. morio*: 08. year?: 1 f) = 27.08.1914 (rev. TN 749/1984)
17. **Ivanščica Mt., WM80**, 1061 m (BABIĆ, 1916: Ivančica, sub *O. morio*: 07. year?: 1 m) = 26.07.1915; 1 f (rev. TN 753/1984)

Collection records

- **Croatia**, BABIĆ det. sub *O. morio*; 1 f (rev. TN 750/1984)
 - **Dalmatia** (ROSSI, 1846, sub *Opilio acanthopus*; CARRARA, 1846, sub *O. acanthopus*; GASPERINI, 1891, 1892, sub *Ph. acanthopus* = *O. acanthopus*)
1. **Veliki Zavižan, VK94**, 1677 m, 05.10.1995, VUKOVIĆ leg.: 135 mm, 192 ff, 5 juv. (TN 4/1996)
 2. **Sv. Petar u Šumi, VL10**, 340 m, Pazin, 04.04.1994, GREGO leg.: 1 f (TN 446/ 2000)
 3. **Učka Mt., VL31** 1380 m, Istra, 14.07.1974, MARTENS leg.: 1 juv. (JM 1266)
 4. **Mali Platak, VL62**, 1060 m, 20.08.1964: 2 mm, 1 f (TN 314/1983)
 5. **Platak, VL62**, 1111 m, *Pagetum croaticum abietosum*: 3 mm, 2 ff (TN 606/1983)
 6. **Snježnik Mt., VL63**, 1505 m, 18.08.1964, *Pinetum mughi croaticum*: 20 mm, 11 ff, 1 juv. (TN 306/1983); **ibid.**: 16 mm, 14 ff (TN 315/1983)
 7. **Crni lug, VL72**, Irk, 730 m, 17.07.1964, *Blechno-Abietum*: 5 mm, 4 ff, 8 juv. (TN 310/1983); **ibid.**, Rebar Lazni, 18.09.1963: 1 m, 2 ff (TN 317/1983)
 8. near **Smrekovac, VL73**, 14.07.1964, *Fagetum croaticum subalpinum*: 17 juv. (TN 322/1983); **ibid.**: 1 m, 2 ff, 11 juv. (TN 610/1983)
 9. **Sveta gora, VL74**, 580 m, 19.6.1917, BABIĆ det. sub *O. alpinus* pulli; 9 juv. (rev. TN 745/1984)
 10. **Pakrac, VL83**, 180 m, Psunj Mt., 05.10.1987, SIVEC, HORVAT leg.: 1 f (TN 1159/1998)
 11. **Prošćansko jezero lake**, Plitvička jezera, **WK46**, 677 m, STURANY leg., 24.02.1895: 2 juv. (NHMW 4002)
 12. **Kameniti vrh Mt., WK47**, 934 m, Plitvice, 17.10.1965, BOLE, PRETNER leg.: 1 f (TN 177/1983)
 13. **Trnava, WL87**, Zagreb, Medvednica Mt., 14.05.1986: 1 juv. (TN 1240/1998)
 14. **Djedovica, XL95**, 514 m, Novo Zvečevo, Papuk Mt., 06.07.1989, HORVAT, KRYŠTUFEK leg.: 1 f (TN 1171/1998)
 15. **Svibovec, XM12**, 220 m, 10.08.1917, BABIĆ: Svibovac, det. sub *O. morio*; 1 f (rev. TN 756/1984)
 16. **Jankovac, YL03**, 500 m, Papuk Mt., 13.10.1986, SIVEC, HORVAT leg.: 1 f (TN 1092/1998)

»*Opilio acanthopus*« Rossi, 1846

In his description of *Opilio acanthopus*, ROSSI (1846) wrote that this species is most closely related to the *O. serripes* that ROEWER (1923) later recognized as a synonym of *Mitopus morio*. According to ROSSI (ibid.), the most important difference between both species was allegedly the four-edged legs in *O. acanthopus*. Since this charac-

teristic has not been found within any phalangiid species, it was an obvious mistake. ROEWER (1923) wrote that the type of *O. acanthopus* could not be found and that the species could not be identified, but, according to the facts described, it seems that there is no remaining reason not to synonymize *O. acanthopus* with *M. morio*.

Gyas titanus Simon, 1879; Fig. 1–40

- **Croatia** (HADŽI, 1973b, sub *G. annulatus*)
 - **Dalmatia** (ROEWER, 1957: 1 m, 1 f – RII/2807/52; GRUBER, 1965)
1. **Golik, VL93**, 230 m, Brod na Kupi (NOVAK *et al.*, 2000: 22.04.1987, HORVAT, SIVEC leg.: 1 juv. (TN 1175/1998))
 2. **Kiclove jame, VL93**, Skrad, 700 m (BABIĆ, 1916, sub *G. annulatus*, 06.1914: 1 f; NOVAK *et al.*, 2000); **ibid.**: Ritzlove jame (NOVAK *et al.*, 2000: 22.07.1914: 1 f (rev. TN 687/1984))
 3. **Slunj, WK49**, 260 m (MARTENS, 1978, DEELEMEN leg.) = **Gaovica pećina** cave, 06.07.1966, DEELEMEN leg.: 1 m (JM 1084)
 4. **Kraljičin zdenac, WL77**, 529 m, Zagreb (BABIĆ, 1916, sub *G. annulatus*, 06.1915: 2 mm, 1 f; NOVAK *et al.*, 2000); **ibid.** (NOVAK *et al.*, 2000: 13.05.1917: 1 juv. (rev. TN 690/1984))
 5. **Sljeme, WL78**, 900 m (BABIĆ, 1916, sub *G. annulatus*, 04.06.1903: 1 m, 1 f NOVAK *et al.*, 2000 (rev. TN 689/1984))
 6. **Lobor, WM81**, 280 m, Ivanščica Mt. (NOVAK *et al.*, 2000: 02.05.1986, SIVEC leg.: 2 subad. (TN 1195/1998))
 7. **Strmac, XL82**, 320 m, Psunj Mt., Nova Gradiška (NOVAK *et al.*, 2000: 04.05. 1985, SIVEC leg.: 1 subad. (TN 1193/1998))
 8. **Kamengrad, XL94**, 528 m, Papuk Mt., Slavonska Požega (NOVAK *et al.*, 2000: 3.05.1986, SIVEC leg.: 1 subad. (TN 1156/1998))
 9. small cave in **Jankovac, YL03**, 500 m, near Velika (BABIĆ, 1916, sub *G. annulatus*, 21.07.1916: 19 mm; NOVAK *et al.*, 2000)

Amilenus aurantiacus (Simon, 1881); Fig. 1–41

- **Croatia** (HADŽI, 1973b, sub *Nelima aurantiaca*)
1. **Bijeli vrh Mt., WK36**, 1074 m, Vrhovine, (RUCNER & RUCNER, 1971, sub *N. aurantiaca*, *Fagetum croaticum abietosum* Horv. 1938, 20.04.1964: 1 ex., 29.05.1964: 6 ex., 15.09.1964: 5 ex., 10.10.1964: 4 ex.)
 2. **Borića borik, WK36**, ca 800–1000 m, Donji Babin potok (RUCNER & RUCNER, 1971, sub *N. aurantiaca*, *Helleboro-Pinetum* Horv. 1958, 20.07.1964: 1 ex.)
 3. **Kriva Draga, WK36**, ca 850 m, Donji Babin potok (RUCNER & RUCNER, 1971, sub *N. aurantiaca*, *Piceetum dolomiticum* Horv. 1958, 21.07.1961: 1 ex., 13.09.1961: 2 ex., 11.05.1962: 1 ex.)
 4. **Medvedica** cave, **WL11**, Ogulin, 320 m (BABIĆ, 1916: Medjedjica, sub *Liobunum* sp.? = *N. aurantiaca*, 11.1911: 1 juv., Fig. 1; cf. PRETNER, 1973): 1 f juv. (rev. TN 672/1984)

5. **Ciganjka**, Sošice, **WL26** (BABIĆ, 1916, sub *Liobunum* sp.?, 23.04.1917); 1 m (rev. TN 671/1984)
6. **Ozalj**, **WL35**, 160 m (BABIĆ, 1916, sub *Liobunum* sp.?, 10.1912: 1 juv.): 1 f juv. (rev. TN 670/1984)
7. **Vukovo Selo**, **WL58**, 170 m (RUCNER & RUCNER, 1971, HADŽI det. sub *N. aurantiaca*, *Quercus-Carpinetum croaticum* Horv. 1937, 08.06.1962: 4 ex.)

Collection records

1. **Crni lug**, **VL72**, Rebar Lazni, 730 m, 18.09.1963: 2 juv. (TN 318/1983)
2. **Risnjak Mt.**, **VL73**, 1528 m, 05.1912, BABIĆ det. sub *L. rotundum*?: 1 m (rev. TN 732/1984)
3. near **Smrekovac**, **VL73**, 24.8.1963, *Fagetum croaticum abietinosum*, HADŽI det. sub *N. aurantiaca* 2 ff; 2 juv. (rev. TN 621/1983)
4. **Čabar**, **VL75**, 660 m, 12.10.1984, HORVAT, SIVEC leg.: 1 juv. (TN 1227/1998); **ibid.**, 02.05.1990: 1 m (TN 1181/1998)
5. **Golubinjak cave**, **VL82**, Lokve, 800 m, 06.06.1912, BABIĆ det. sub *L. rotundum*?: 1 m, 1 f (rev. TN 731/1984)
6. **Čedanj**, **VL93**, 240 m, Brod na Kupi, 13.04.1984: 1 m subad. (TN 1128/1998); **ibid.**, 12.09.1987, HORVAT, SIVEC leg.: juv. (TN 1232/1998)
7. **Golik**, **VL93**, 230 m, Brod na Kupi, 12.09.1987, HORVAT, SIVEC leg.: 4 juv. (TN 1148/1998)
8. **Pustinja pećina cave**, **VL93**, 800 m, Delnice, 14.05.1912, BABIĆ det. sub *Liobunum rotundum*?: 1 m (rev. TN 730/1984)
9. **Ledenjača u Čudinoj uvali cave**, **WK46**, 800 m, Veliki Javornik, 18.10.1965, PRETNER leg.: 1 f juv. (TN 240/1985); **ibid.**, 29.10.1965, HADŽI det. sub *N. aurantiaca*; 1 m juv., 1 f juv. (rev. TN 656/1983); **ibid.**, 29.10.1965: 1 f juv. (TN 172/1983)
10. **Medeđa jama cave**, **WK47**, 650 m, Kameniti vrh Mt., 934 m, Plitvice, 17.10.1965, BOLE, PRETNER leg., HADŽI det. sub *N. aurantiaca*; 2 mm subad., 4 ff subad. (rev. TN 633/1983)
11. **Pećina kod Gvozdénika cave**, **WK58**, Rakovica, 21.10.1965, HADŽI det. sub *N. aurantiaca*; 1 f subad. (rev. TN 626/1983)
12. **Ozaljska pećina cave**, **WL35**, 17.06.1917; BABIĆ: Ozalj, špilja, det. sub *Liobunum* sp.?: dead and moulded on walls: 16 juv. (rev. TN 674/1984)
13. **Trnava**, **WL87**, 120 m, Zagreb, Medvednica Mt., 14.05.1986: 1 f (TN 1239/1998)
14. **Lobor**, **WM81**, 280 m, Ivanščica Mt., 02.05.1986: 1 m, 1 f (TN 1196/1998)

Astrobunus laevipes Canestrini, 1872; Fig. 1–42

Collection record

1. **Prevlaka**, **XL06**, 110 m, P 09, T-V; 30.08.1985: 1 m (TN 610/2002)

Astrobunus dinaricus Roewer, 1915; Fig. 1–42

- **vicinity of Rijeka** (ROEWER, 1915: Umgebung von Fiume: 15 (m f), Coll. ROEWER; ROEWER, 1923: 15 mm, ff (**type** – Coll. ROEWER); KOLOSVÁRY, 1929; ROEWER, 1957: Umgebung von Fiume: 15 ex. (mm, ff) – 1 m **type** and **paratypes** – RI/11/1178; RACK, 1971: 192. *Astrobunus dinaricus*: ROEWER 1915, 137; Jugoslawien, bei Fiume, 2 **paratypes** (12); Fiume; HADŽI, 1973b)
1. **Omišalj, VL60**, 10 m (HADŽI, 1936: under stones, 20.09.1926: 3 ex., HADŽI leg.)
 2. **Gruda, BN31**, 80 m (ŠILHAVÝ, 1936; KRATOCHVÍL, 1946)

Observation record

1. **Tovarnele, VK74**, 10 m, the island of Pag, 09.1996: 1 ex., SLANA, NOVAK vide

Astrobunus helleri (Ausserer, 1867); Fig. 1–43

- **Croatia** (ROEWER, 1912, sub *A. croaticus* Lendl – non vidi, Tab. 3 Fig. 16; ROEWER, 1923, sub *A. croaticus* Sørensen, 1904: 1 m (**type** Mus. Budimpešta), 2 mm, coll. ROEWER; KOLOSVÁRY, 1929, sub *A. croaticus* Sørensen; ROEWER, 1957, sub *A. croaticus* Sørensen, 1894: 1 m, 1 f – RI/11/1203, and sub *A. pavesii* (Canestrini, 1872): 1 m – RII/2801/11; HADŽI, 1973b, sub *A. croaticus* Sørensen, 1894, endem, and sub? *A. pavesii*)
1. **Jasenak, WL00**, 600 m (SØRENSEN, 1894: Jassenak, sub *A. croaticus*, loc. typ., LENDL leg., Tab. 1 Fig. 2)
 2. **Kriva Draga, WK36**, ca 850 m, Donji Babin potok (RUCNER & RUCNER, 1971, sub *A. croaticus*, *Piceetum dolomiticum* Horv. 1958, 13.09.1961: 1 ex.)

Collection records

2. **Krivi dol, WK36**, ca 850 m, Vrhovine, Donji Babin potok, 13.09.1961, RUCNER leg., HADŽI det. sub *A. croaticus* Roewer: 1 f (TN 74/1983), microscopic preparation
3. **Lepoglava, XL95**, 170 m, Ravna gora Mt., 30.05.1917, BABIĆ det.: 1 f (TN 727/1984)

Leiobunum rotundum* (Latreille, 1798)Uncertain citations**

- □ *Dalmatia*, leg.?, ROEWER det., GRUBER rev.: 1 f (NHMW 3525)
1. □ *Gornje Ceranje, WJ49*, 200 m (MUČALICA–MILANOVIĆ, 1990: Ceranje Gornje, 31.08.–14.09.1987, pitfall traps, MUČALICA leg.: 1 ex.; *ibid.*, 14.–28.09.1987: 2 ex.)
 2. □ *Kožino, XJ18* (MUČALICA–MILANOVIĆ, 1990: 23.08.–06.09.1987, pitfall traps, MUČALICA leg.: 2 ex.)

Leiobunum rotundum does not appear in the Mediterranean region (MARTENS, 1978), not even in the northern Adriatic region in Slovenia (NOVAK & GRUBER, 2000), but, although not yet recorded, it definitively inhabits the Mura-, Drava- and Sava river plains of northwestern Croatia. The published data for Dalmatia should be revised.

Leiobunum rupestre (Herbst, 1799); Fig. 1–44

1. **Skrad, VL93**, ca 700 m (BABIĆ, 1916, sub *Leiobunum rupestre*, 05.1905: 1 m)
2. **Plitvice, WK46**, 677 m (BABIĆ, 1916, sub *Leiobunum rupestre*, 08.1902: 1 juv.) = 27.07.1902 (rev. TN 717/1984 sub *L. cf. rupestre*)
3. **Klanjec, WM05**, 170 m (BABIĆ, 1916, sub *Leiobunum rupestre*, 08.1916: 2 mm) = 1904: 1 f (rev. TN 719/1984); **ibid.**, 24.08.1916: 1 m (rev. TN 707/1984)
4. **Krapina, WM61**, 290 m (BABIĆ, 1916, sub *Leiobunum rupestre*, 08.1914: 1 m)
5. **Vilinska jama** cave (= Vilina jama, Volina- Volinjska jama), **WM61?** (JURINAC, 1886: »one hour away from Krapina«, sub *Leiobunum religiosum*, 11.08.1885: 1 m, 1 f)
6. **Maksimova pećina** cave, Jankovac, **YL03**, 657 m (BABIĆ, 1916, sub *Leiobunum rupestre*)
7. **Križevci, XL19**, 140 m (DADAY DE DEÉS, 1896: Körös, sub *Leiobunum glabrum*, on the river banks)

Collection records

- **Croatia**, BABIĆ det.: f; 1 m (rev. TN 702/1984)
 1. **Sveta gora, VL74**, 580 m, 19.06.1917, BABIĆ det. sub *O. alpinus* pulli; 1 juv. (rev. TN 747/1984, sub *L. cf. rupestre*)
 2. **Skrad, VL93**, 700 m, 01.09.1915, BABIĆ det. sub *Leiobunum rupestre*: 1 m (rev. TN 706/1984)
 3. **Bijeli vrh, WK36**, 1074 m, Vrhovine, 15.09.1961, RUCNER leg., HADŽI det.: 1 m (TN 24/1983), microscopic preparation
 4. **Ledenjača u Ćudinoj uvali** cave, **WK46**, Veliki Javornik, 18.10.1965, PRETNER leg., HADŽI det. sub *Leiobunum*: 2 mm (TN 655/1983)
 5. **Kameniti vrh Mt., WK47**, 934 m, Plitvice, 17.10.1965, BOLE leg., HADŽI det.: 3 mm, 1 ff (TN 176/1983); **ibid.**, 17.11.1965, HADŽI det. sub *Leiobunum*: 1 m, 1 f (rev. TN 94/1983), microscopic preparation
 6. **Medveđak Mt., WK47**, 889 m, Plitvice, 24.10.1965, HADŽI det. sub *Leiobunum*: 2 mm (rev. TN 293/1983)
 7. **Pećina pri Tržiću** (=Pećina kod mlina), **WJ80**, Tržić Tounjski, beside the Mrežnica river, 07.1983: 13 juv. (TN 341/2002)
 8. **Kamenica Skradnička, WL30**, 260 m, beside the Rudnica brook, 05.1985: 5 mm, 2 ff, 2 subad. ff (TN 711/2002)
 9. near **Vrilo Rudnice, WL30**, 260 m, Kamenica Skradnička, 07.1987: 1 juv. (TN 347/2002)
 10. **Ozaljska spilja** cave, **WL35**, 17.06.1917, BABIĆ: Ozalj, spilja, det. sub *Leiobunum* sp.?: 1 f juv. (rev. TN 673/1984)
 11. **Kamengrad, XL94**, 528 m, Papuk Mt., beside the Orlava river, 06.07.1989, HORVAT, KRYŠTUFEK leg.: 1 f juv. (TN 1242/1998)

Nelima sempronii Szalay, 1951; Fig. 1–45

1. **Varaždin, XM02**, 170 m (MARTENS, 1969, sub *N. semproni*: Varaždin, town park, 11.09.1966, GRUBER leg.: 2 mm; MARTENS, 1978, GRUBER leg.) – (JM 895)

Uncertain citation

1. **Benkovac, WJ47**, 180 m (MUČALICA–MILANOVIĆ, 1990, sub *N. semproni*, 03.–17.08.1987, pitfall traps, MUČALICA leg.: 3 ex.)

Nelima narcisi Novak et Slana, 2003; Fig. 1–45

1. **Marija na Krasu, UL83**, 80 m (NOVAK & SLANA, 2003: 27.02.1990, POTOČNIK leg.: 9 juv. (TN 1287/1998)), **paratypes**
2. **Lovran, VL41**, 40 m (NOVAK & SLANA, 2003: pitfall traps, 27.01–25.04.1991., GASPARO leg.: 6 juv. (TN 439/2000)), **paratypes**

Collection records

1. **Limski zaljev, UK99**, 10 m, 27.02.1990, POTOČNIK leg.: 1 juv. (TN 1297/1998)
2. **Kamenjak cape, VK15**, 10 m, woods, 20.–30.07.1999, DEVETAK leg.: 1 subad. (TN 28/2003)
3. **Nerezine, VK54**, 10 m, the island of Lošinj, 17.06.2002, DEVETAK leg.: 2 subad. (TN 29/2003)

Nelima troglodytes Roewer, 1910; Fig. 1–46

- **Dinaric karst** (VANDEL, 1964: /ex-Yugoslav/ karst; RAMBLA & JUBERTHIE, 1994: /ex-Yugoslav/ karst)
 - **Croatia** (HADŽI, 1973b, eucaval)
 - **Dalmatia**, more caves (ROEWER, 1957: 9 ex. (mm, ff) – RII/5049/62; KARAMAN, 1995a; MITOV, 2000)
 - the island of **Korčula** (ROEWER, 1957: 1 m – RII/2874/51)
1. **Bazgovača špilja cave, XH29**, ca 4 km W of Nerežišća, 380 m, the island of Brač (KRATOCHVÍL, 1946: Nerežišće)
 2. **Činjandra (= Pećina u Čijandru) cave, XH29**, NW of Nerežišća, 380 m, the island of Brač (KRATOCHVÍL, 1946: Nerežišće)
 3. **Dobra jama cave, XH29**, ca 2 km NW of Nerežišća, 380 m, the island of Brač (KRATOCHVÍL, 1946: Nerežišće)
 4. **Filipović jama cave, XH29**, ca 3 km NW of Nerežišća, 380 m, the island of Brač (KRATOCHVÍL, 1946: Nerežišće)
 5. **Kopačina, XH29**, near Donji Humac, 330 m, the island of Brač (KRATOCHVÍL, 1946)
 6. **Rupa u Činjadru cave, XH29**, NW of Nerežišća, 380 m, the island of Brač (KRATOCHVÍL, 1946: Nerežišće)
 7. **Vodena jama cave, XH29**, 200 m, ca 3 km S of Supetar, the island of Brač (KRATOCHVÍL, 1946)
 8. **Jama iza Gračišća cave, XH39**, 400 m, ca 0,5 km S of Pražnica, the island of Brač (KRATOCHVÍL, 1946: Pražnice)
 9. **Špilja pod vrhom cave, XH39**, ca 2 km S of Pražnica, SW of Klinova glava (462 m), the island of Brač (KRATOCHVÍL, 1946: Pražnice)

10. **Jama za Mahrincom** cave, **XH49**, SE of Pučišća, 10 m, the island of Brač (KRATOCHVÍL, 1946)
11. **Špilja kod samostana** cave, **XH49**, 200 m, above Murvica, ca 5 km E of Bol, the island of Brač (KRATOCHVÍL, 1946)
12. **Tanki ratac** cave, **XH39**, 100 m, 2 km E of Skrip, the island of Brač (KRATOCHVÍL, 1946: Skip)
13. **Špilja pri Žabokiku** cave, **XH93**, 0,5 km N of Grabova glava (384 m), the island of Mljet (KRATOCHVÍL, 1946)
14. **Grzelova pećina** cave, **XJ15**, Maovice, SE slope of Mt. Lisina (1301 m) in the Svilaja Mts. (KRATOCHVÍL, 1946: Mt. Sovro)
15. **Milankova pećina** cave, **XJ15**, Maovice, ca 600 m, SE slope of Mt. Lisina (1301 m) in the Svilaja Mts. (KRATOCHVÍL, 1946: Mt. Sovro)
16. **Gospodska pećina** cave, **XJ16**, Vrlika, 200 m, near the N Cetina-stream (KRATOCHVÍL, 1946: Gosposka pećina; cf. PRETNER, 1973)
17. **Medića pećina** cave, **XJ16**, near the E Cetina-stream (KRATOCHVÍL, 1946)
18. **Vrankuša pećina** cave, **XJ16**, W slope of Kapnica (1539 m) in the Dinara Mts. (KRATOCHVÍL, 1946: Vilanić)
19. **Pećina kod Lokvi (= Špilja na vrhu brda)** cave, **XJ20**, SW of Supetar, the island of Brač (KRATOCHVÍL, 1946)
20. **Miša Jovana pećina** cave, **XJ25**, Milankovićevo selo near the Cetina river (KRATOCHVÍL, 1946)
21. **Pećina kod Milankovićeve sela** cave, **XJ25**, 220 m, ca 2 km N of Dragović, Maljkovo (KRATOCHVÍL, 1946: Pećina kod Milkovićeve)
22. **Velika pećina (= Kotluša)** cave, **XJ32**, 400 m, ca 50 m S of Kotluša, 4 km SW of Cetina (KRATOCHVÍL, 1946: Pećina pri Kotluši; cf. PRETNER, 1973)
23. **Vranjača** cave, **XJ32**, 360 m, 1 km W of Kotlenice, Mt Mosor (GIROMETTA, 1914; HADŽI, 1932; KRATOCHVÍL, 1946)
24. **Kulića pećina** cave, **XJ33**, Lgušac (468 m), Gala, NW Sinjsko polje (KRATOCHVÍL, 1946)
25. **Pećina Stipanović** cave, **XJ34**, Rumin, 2 km W of Mt Kozoman (890 m) in the Dinara Mts. (KRATOCHVÍL, 1946: Stipanićeva pećina, Rumen; cf. PRETNER, 1973)
26. **Vodena peća** cave, **XJ35**, 400 m, 5 km NE of Rumin, the Dinara Mts. (KRATOCHVÍL, 1946: Vodena pećina)
27. **Pećina u Solunu** cave, **XJ71**, Čočić, N Imotski (KRATOCHVÍL, 1946)
28. **Movrica** cave, **YH03**, 240 m, 4 km N of Babino polje, the island of Mljet (KRATOCHVÍL, 1946)
29. **Ostaševica** cave, **YH03**, 300 m, ca 4,5 km N of Babino polje, the island of Mljet (KRATOCHVÍL, 1946)
30. **Velika špilja** cave, **YH03**, 100 m, 1 km E of Blato, the island of Mljet (KRATOCHVÍL, 1946)
31. **Đurović pećina**, **BN21**, 160 m, Močići near Cavtat (KRATOCHVÍL, 1946)

32. **Šipun špilja**, **BN21**, 20 m, Cavtat (KRATOCHVÍL, 1946)
33. **Pećina u Bačevom dolu**, **BN31**, Gruda, 80 m (KRATOCHVÍL, 1946)
34. **Jezerina pećina**, **BN31**, near Kuna Konavoska, 720 m (KRATOCHVÍL, 1946)
35. **Škrabuljica špilja cave**, **BN31**, near Kuna Konavoska, 720 m (KRATOCHVÍL, 1946: Pećina kod »Mali Ora«)
36. **Vilina pećina** u Miloglavu, **BN31**, near Gruda, 80 m (KRATOCHVÍL, 1946)

Collection records

1. a cave near **Panelim buk**, **WJ59**, 200 m, Golubić, Obrovac, 10.08.1988, TRILAR, ZIHERL leg.: 14 mm, 3 ff, 8 juv. (TN 9/1997)
2. **Golubnjača cave**, **WJ78**, Žegar, 540 m, PRETNER leg., 17.09.1964: 1 m, 3 ff (TN 130/1983)
3. **Pećina kod mlina cave**, **WJ87**, 400 m, Miljacka na Krki, 17.09.1964, PRETNER leg., HADŽI det.: 4 mm, 2 ff, 6 juv. (TN 128/1983)
4. **Manita pećina cave**, **WK30**, Velika Paklenica, 500 m, 19.05.1965: 2 juv. (TN 622/1983); **ibid.**, 11.09.1980, KREISSE leg. don. (A.N. 1980–IX: Manita peč): 2 mm, 3 ff, 1 juv. (NHMW 8927); **ibid.**, 23.11.1983: 1 m, 1 f, 1 juv. (TN 97/2002)
5. **Pećina Vilenjača cave**, **XH79**, 1150 m, Tučepi, 01.09.1998, GASPARO leg.: 1 m, 1 juv. (TN 62/2000)
6. a cave between **Kozarica – Blato**, **XH93**, 100 m, the island of Mljet, 29.05.1985: 1 m (TN 222/2002)
7. **Gospodska pećina cave**, **XJ16**, Vrlika, 200 m (cf. PRETNER, 1973), 15.09.1964, PRETNER leg., HADŽI det.: 4 mm, 1 f (TN 212/1983)
8. **Pećina kod Dragovića cave**, **XJ25**, Maljkovo, 15.09.1964, PRETNER leg.: 1 m, 9 ff, 5 subad. (TN 255/1983)
9. **Ostaševica cave**, **YH03**, 300 m, ca 4,5 km N of Babino polje, the island of Mljet, 10.11.1963, PRETNER leg., HADŽI det.: 1 juv. (TN 685/1983)
10. **Blatina (= Slatina)**, **YH13**, 40 m, near Sobra, the island of Mljet, 02.05.1985: 1 m (TN 205/2002)
11. **Izvor Omble** (= source of the Ombla river), **BN12**, 10 m, Dubrovnik, 10.01.1953, A-516: 1 m, 1 f (TN 662/1983)

Nelima doriae (Canestrini, 1871); Fig. 1–47

- **Croatia**, Adriatic seashore (HADŽI, 1973a, sub *N. doriae dalmatina*, HADŽI leg.: pl.)
 - **Istria** (GRUBER, 1965)
1. **Rovinj**, **UK99**, 10 m (KOLOSVÁRY, 1938a, sub *N. Doriae, Pinetum*, meadow near the railway station, 04. and 09.1937, GEBHARDT leg.: 2 ex.; KOLOSVÁRY, 1938b: Rovigno d'Istria, meadow near the railway station: 2 ex.; MARTENS, 1978, HELVERSEN leg., 02.09.1967: 4 mm, 4 ff)
 2. **Poreč**, **UL80**, 10 m (HADŽI, 1973b, sub *N. doriae dalmatina*, loc. typ., endemite) = (TN 438/1983, rev. 2003) – Poreč was erroneously cited as the type locality in stead of Split. Since *N. doriae dalmatina* is the synonym of *N. doriae*, the error is of only academic interest.
 3. **Split**, **XJ11**, **XJ21**, 10 m (MARTENS, 1978, THALER leg.)

Collection records

1. **Limski zaljev, UK99**, 10 m, 09.1972, PRETZMANN leg.: cf. *doriae*: 2 ff, 1 juv. (NHMW); **ibid.**: cf. *doriae*: 1 f (NHMW)
2. **Rovinj, UK99**, 10 m, 02.09.1967, HELVERSEN leg.: 4 mm, 5 ff (JM 898)
3. **Novigrad, UL81**, 10 m, old quarry, 27.02.1990, POTOČNIK leg.: 1 f, 2 juv. (TN 1288/1998)
4. **Bale, VK08**, 140 m, 27.02.1990, POTOČNIK leg.: 1 juv. (TN 1290/1998)
5. **Kamenjak, VK15**, 10 m, Premantura, 07.1988, VELKOVHR leg.: 1 m (TN 27/1995)
6. **Sv. Antun, VK92**, 20 m, Stara Novalja, the island of Pag, 08.11.1997, SLANA, NOVAK leg.: 1 m (TN 428/1998)
7. **Opatija, VL41**, 10 m, 18.month?1966, PANIĆ leg., *Juncetum*: 3 mm, 2 ff (NHMW)
8. **Split, XJ11**, 10 m, Split, Meje – Marjan, 04.1933, under stones, HADŽI leg.: 1 f, 6 iuv. (TN 287/1983, rev. 2003); **ibid.**, Meje, Easter 1931, HADŽI leg. et det.: *N. doriae*; 1 m (rev. TN 845/2003); **ibid.**, Marjan, Easter 1931, gardens near the sea, HADŽI leg. et det. sub *N. doriae dalmatina*; **type** for the female, microscopic preparation: 1 f (rev. TN 122/1985); **ibid.**, **type** for the male, microscopic preparation: 1 m (rev. TN 161/1985); **ibid.**, between stones, HADŽI leg. et det.: *N. doriae dalmatina*; microscopic preparation, the penis absent: 1 m (rev. TN 846/2003)

Erroneous citation

□ *Nelima silvatica* (Simon, 1879)

- □ *Croatia* (HADŽI, 1973b)
 1. □ *Rovinj, UK99* (KOLOSVÁRY, 1938a: Rovigno d'Istria, sub *N. silvatica*, *Pinetum*, stone walls behind the railway station, the bay near the hospital, *Pinetum* near the church, 04. and 09.1937, GEBHARDT leg.: 6 ex.)
 2. □ *Ragusa, Novi Kaštel, XJ12* (ROEWER, 1957: Ragusa, 1 f RII/2875/52)

Nelima silvatica is a western European species. In Slovenia, the hygrophilous *N. sempronii* has generally been considered under this name by HADŽI (NOVAK & GRUBER, 2000), but along the Croatian coast the citations most probably refer the to xerophilous *N. doriae*, or to *N. narcisi*.

Incertae sedis

Metaphalangium cirtanum was claimed by BABIĆ (1916, sub *Phalangium propinquum*, 06.1905) for *Valpovo, BR35*. Since this is a Mediterranean species (MARTENS, 1978), BABIĆ most probably found a spiny *Phalangium opilio*, or maybe a *Zachaeus crista* specimen.

Under the names *Liobunum opilio* L. and *L. saxatile*, DADAY DE DEÉS (1896) cited as the source location: *Mostanje* (= a part of *Karlovac*), *WL43*. Both taxa depend either to *Phalangium opilio* or to an *Opilio* species.

Probably, LENDL (1894: Jassenak, sub *Phalangium dentatum* (?), 10.1887) and DADAY DE DEÉS (1896: Jassenak, sub *Liobunum dentatum*) mentioned *Lacinius dentiger* for Jassenak, WL00.

Maybe KOLOSVÁRY (1938a: Rovigno d'Istria, sub *M. scaber*, staircase to Monte Molini; *Pinetum*; *Olea* grove, KOLOSVÁRY, GEBHARDT leg., 04. and 09.1937: 10 ex.) cited *Rovinj*, UK99 as the source location for *Mitopus morio*, but some other habitually similar species (e.g. *Metaphalangium cirtanum*) could have been claimed under this name.

Nelima sp. was noted in *Kriva Draga*, WK36, ca 850 m, Donji Babin potok (RUCNER & RUCNER, 1971, *Piceetum dolomiticum* Horv. 1958, 13.09.1961: 1 ex.), but the specimen most probably belonged to *A. aurantiacus* or to *L. rupestre*.

DISCUSSION

Knowledge about the harvestmen in Croatia is incomplete because of three main reasons: unsystematic and unequal collection in the country, taxonomic difficulties in some taxa including erroneous determinations, and the erroneous and confusing locality citations of some authors.

The opilionids of Croatia have only exceptionally been systematically investigated. The first such review was made by BABIĆ (1916), collecting in the vicinity of Zagreb and on his journeys to the Gorski Kotar mountain region, Mt Velebit and adjacent regions. Subsequently, HADŽI (1930, 1936) intensely investigated the opilionids of the islands of Krk and Kornati. MUČALICA–MILANOVIĆ (1990) collected a series of harvestmen on the Ravni Kotari region in the vicinity of Zadar by pitfall trapping. Other data refer mostly to material collected occasionally during trips. As a consequence, most source locations are concentrated in the coastal and in the Dinaric parts of Croatia, which are most attractive for tourist travel. In some regions, e. g. in the Banovina, Moslavina, Podravina (the Drava river lowland) and Slavonija (the Sava river lowland), none or only a few samples have been collected.

The second group of problems concerns the poor level of taxonomic knowledge about some taxa of the living in Croatia. Among these, three groups are most important. First, the validity of the peltonychiid species from the nominal genera *Travunia*, *Dinaria* and *Abasola* in the middle Balkans requires a thorough revision of the group based on their genital morphology. Many synonyms can be expected here. Second, the similar case of numerous nominal *Paranemastoma* species must be revised according to their genital morphology, a process started by KARAMAN (1995a), which will also undoubtedly reduce the number of species. The third major taxonomic problem is the revision of the *Trogulus* species, especially those from the groups *T. nepaeformis* and *T. tricarinatus*. Further errors involve inadequate determinations. Some recurring problems are caused by HADŽI'S (1973a) insufficient and inconsistent descriptions of a few dozen opilionid species from the middle Balkans and Slovenia. More material is needed to revise the status of these nominal taxa.

The third group of problems comprises confusing and misleading locality citations. Some authors (e. g. ABSOLON) used to declare some Montenegrin and Herzegovinian locales to be a part of southern Dalmatia. As for ROEWER, many critical papers have dealt with his errors and evasions regarding his citation of false localities, and garbled and false locality names (see references and comments in NOVAK & GRUBER, 2000). HADŽI (1973b) uncritically used these citations, thus compounding the zoogeographical confusion. Further errors were caused by the use of the names of museum-towns in place of the source localities. In this region, the name »Zagreb« is most frequently misused in this way. Besides, in the last hundred years, the names of some places have changed, and yet more mistakes occurred during printing.

Nevertheless, one can estimate that the majority of harvestmen species in Croatia have been found, and that any incompleteness is mostly related to biogeographic distribution. As for the number of species, some further ones are expected for the fauna of Croatia in the mountainous regions bordering Montenegro, and Bosnia and Herzegovina. There is also a limited chance that some species inhabiting the Danube lowlands [e. g. *Nemastoma lugubre* (Müller, 1776)] and the Carpathian Mts. [e. g. *Paranemastoma silli* (Herman, 1871)] live locally in northern Croatia. Moreover, the eventual discovery of new species cannot be ruled out. In this respect, high mountains, and soil and hypogean habitats are the most promising. In comparison to neighbouring countries, the Croatian harvestman fauna, consisting of at least 64 valid species and one subspecies, and more potentially present species, is richer than that of Slovenia (63 species and one subspecies; NOVAK & GRUBER, 2000; NOVAK & SLANA, 2003), Austria (61 species; KOMPOSCH & GRUBER, 2004), much richer than that of Hungary (33 species; KOMPOSCH, 2002), and potentially richer than that of Serbia and Montenegro (66 species; KARAMAN, 1995b). Concerning the surrounding counties, the fauna of Bosnia and Herzegovina have not been yet systematically reviewed, but it is nonetheless less rich than the Croatian. In the recent overviews of Albania, and Bulgaria (MITOV, 2000, 2003), lower species numbers are cited, too. At the moment, the Croatian fauna is among the richest in the central Balkans.

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**Index of names cited
(synonyms between parentheses)**

- Abasola* 243, 244, 284
 –? *borisi* 244
 – *hofferi* 244
 – *trogodytes* 233, 243, 244
 (*Absolonia*) 243
 (– *trogodytes*) 243
 (*Acantholophus*) 270, 272, 273
 (– *annulipes*) 271
 (– *dentiger*) 270, 271
 (– *ephippiatus*) 272
 (– *hispidus*) 269, 270
 (– *horridus*) 269
 (– *spinosus*) 273
 (*acanthopus*, *Opilio*) 275, 276
 (*acanthopus*, *Phalangium*) 275
 (*acrospinosum*, *Nemastoma* (*Dromedostoma*)) 247
 (*acrospinosum*, *Paranemastoma*) 248
 (*alpinus*, *Mitopus morio*) 273
 (*alpinus*, *Oligolophus*) 258, 274, 275, 279
Amilenus 276
 – *aurantiacus* 239, 276
Anelasmoccephalus 255
 – *cambridgei* 255
 – *hadzii* 236, 255
annulatus, *Gyas* 276
 (*annulipes*, *Acantholophus*) 271
 (*anophthalma*, *Travunia*) 243
 (*anophthalmum*, *Scotolemon*) 243
 (*appendiculatum*, *Phalangium*) 264
aquaticus, *Trogulus* 255
Astrobunus 277, 278
 (– *croaticus*) 278
 – *dinaricus* 239, 278
 – *helleri* 240, 278
 – *laevipes* 239, 277
 (– *pavesii*) 278
 (*aurantiaca*, *Nelima*) 276
aurantiacus, *Amilenus* 239, 276
bicuspidatum, *Paranemastoma* 247
bidentatum, *Nemastoma* 245
bidentatum, *Nemastoma bidentatum* 233, 245
 (*bidentatum*, *Nemastoma* (*Lugubrostoma*)) 245
 (*bolei*, *Metadasylobus*) 260
 ?*borisi*, *Abasola* 244
bosnica, *Pyza* 234, 246
 (*bosnicum*, *Nemastoma* (*Lugubrostoma*)) 246
 (*bosnicum*, *Nemastoma*) 246
bucephalus, *Platybunus* 237, 262, 263
 (*bulgaricus*, *Lacinius horridus*) 270
cambridgei, *Anelasmoccephalus* 255
carinatum, *Carinostoma* 234, 248, 249
 (*carinatum*, *Mitostoma* (*Carinostoma*)) 248, 249
Carinostoma 248, 249
 – *carinatum* 234, 248, 249
 – *ornatum* 249
carneluttii, *Metaplatybunus* 237, 263
 (*Cerastoma*) 256
 (– *cornutum*) 256
 (*chelodentatus*, *Lacinius*) 271
chrysomelas, *Mitostoma* 235, 249
 (*chrysomelas*, *Nemastoma*) 249
cirtanum, *Metaphalangium* 259, 283, 284
closanicus, *Trogulus* 236, 254
convexus, *Egaenus* 238, 267, 268
 (*corcyraeum*, *Nemastoma* (*Dromedostoma*)) 248
 ?*corcyraeum*, *Paranemastoma* 234, 248
coriziformis, *Trogulus* 235, 255
 (*corniger*, *Platybunus*) 264, 265
 (*cornutum*, *Cerastoma*) 256
 (*crassus*, *Papillophus*) 273
crista, *Zachaeus* 238, 267, 283
 (*crista*, *Zacheus*) 267
 (*crista*, *Zacheus* (*Zacheus*)) 267
 (*croaticus*, *Astrobunus*) 278
 (– *duricorius*) 242
 (*dalmatina*, *Nelima doriae*) 282, 283
 (*dalmatinum*, *Platylophus Hugerii*) 262
Dasylobus, *graniferus* 237, 266

- (decorum, Mitostoma olgae)* 250
(decorum, Nemastoma Olga) 250
(dentiger, Acantholophus) 270, 271
dentiger, Lacinius 238, 270, 284
dentigerum, Nemastoma 234, 245, 246
dentipalpe, Histricostoma 234, 248
(dentipalpe, Nemastoma (Nemastoma)) 248
(dentipalpe, Nemastoma) 248
Dicranolasma 250, 251, 252
 – *scabrum* 235, 250, 251, 252
 – *opilionoides* 235, 251
 – *verhoeffi* 235, 251
(Dinaria) 244, 284
 (– *vjetrenicae*) 244
dinaricus, Astrobunus 239, 278
dinaricus, Opilio 237, 260
doriae, Nelima 240, 282, 283
doriae dalmatina, Nelima 282, 283
(Doriae, Nelima) 282
doriae, Scotolemon 233, 244
duricorius duricorius, Siro 233, 242
duricorius, Siro 242
Egaenus 267, 268
 – *convexus* 238, 267, 268
 (– *maximus*) 268
 (– *mordax*) 267
 (– *tibialis*) 267, 268
(ephippiatus, Acantholophus) 272
ephippiatus, Lacinius 239, 271
(Eudasylobus) 260, 266
 (– *georginae*) 266
 (– *nicaeensis*) 266, 267
 (– *rucnerianus*) 266
falcipenis, Trogulus 235, 53, 255
(gallicus, Lacinius) 269, 272
(gallicus, Odiellus) 268
(georginae, Eudasylobus) 266
(gigas, Nemastoma longipes) 248
(glabrum, Liobunum) 279
graniferus, Dasylobus 237, 266
Gyas 276
 – *titanus* 239, 276
 – *annulatus* 276
hadzii, Anelasmacephalus 236, 255
hadzii, Platybunus 237, 263
Hadzinia 250
 – *karamani* 235, 250
(Heegeri, Platilophus) 262
(heegeri, Platylophus) 262
(Heegeri, Platylophus) 262
helleri, Astrobunus 240, 278
hellwigi hellwigi, Ischyropsalis 236, 256
hellwigi, Ischyropsalis 256
(helwigi, Ischyropsalis) 256
(hellwigii, Ischyropsalis) 268
(heyrovskyi, Siro) 243
hirtus, Trogulus tricarinatus 235, 252
(hispidus, Acantholophus) 269, 270
Histricostoma 248
 – *dentipalpe* 234, 248
hofferi, Abasola 244
Holoscotolemon 244
 – *unicolor* 244
(horridus, Acantholophus) 269
horridus, Lacinius 238, 269, 270, 273
(insulare, Nemastoma (Dromedostoma)) 247
(insulare, Nemastoma) 247
insularis, Lola 233, 244
(Hugeri dalmatinum, Platylophus) 262
Ischyropsalis 256, 267, 268
 – *hellwigi* 256
 – – *hellwigi* 236, 256
 (– *hellwigii*) 268
 (– *helwigi*) 256
 – *muellneri* 256
 (– *plicata*) 256
 (– *redtenbacheri*) 267
jandai, Travunia 233, 243
(Jandai, Travunia) 243, 244
karamani, Hadzinia 235, 250
(karamani, Nemastoma) 250
(kochi, Nemastoma (Nemastoma)) 247
kochi, Paranemastoma 247

- (*kochii*, *Nemastoma* (*Nemastoma*) *quadripunctatum*) 247
(*kochii*, *Nemastoma* (*Nemastoma*)) 247
(*kochii*, *Nemastoma quadripunctatum*) 247
(*kratochvili*, *Mitostoma* (*Mitostoma*) *olgae*)
(*kratochvili*, *Mitostoma olgae*) 250
(*Kratochvili*, *Nemastoma Olgae*) 250
(*kratochvili*, *Platybunus*) 263
(*labacensis*, *Lacinius*) 270, 271
Lacinius 269–273, 284
(– *chelodentatus*) 271
– *dentiger* 238, 270, 284
– *ephippiatus* 239, 271
(– *gallicus*) 269, 272
– *horridus* 238, 269, 270, 273
(– *horridus bulgaricus*) 270
(– *labacensis*) 270, 271
laevipes, *Astrobonus* 239, 277
Leibunum 277, 278
– *rotundum* 277, 278
– *rupestre* 240, 279, 284
lendli, *Odiellus* 239, 273
(*Liobunum*) 277–279
(– *glabrum*) 279
(– *parietinum*) 262
(– *rotundum*) 277, 278
(– *saxatile*) 283
Lola 244
– *insularis* 233, 244
longipes, *Paranemastoma* 234, 248
Lophopilio 267
– *palpinalis* 238, 267
lugubre, *Nemastoma* 245, 285
(*lugubre*, *Nemastoma* (*Lugubrostoma*)) 245
(*maximus*, *Egaenus*) 268
Metadasylobus 260
(– *bolei*) 260
Metaphalangium 259, 283, 284
– *cirtanum* 259, 283, 284
(– *propinquum*) 259, 267, 283
Metaplatybunus 263
(– *strigosus*) 263
– *carneluttii* 237, 263
minutus, *Siro* 233, 242
Mitopus 273–275, 284
– *morio* 239, 273–275, 284
(– *morio alpinus*) 273
(– *scaber*) 274, 284
Mitostoma 248–250
– *chrysomelas* 235, 249
– *olgae* 235, 250
(– *olgae*) 250
(– *olgae decorum*) 250
(– *olgae kratochvili*) 250
(*Mitostoma* (*Carinostoma*)) 248, 249
(– *carinatum*) 248, 249
(*Mitostoma* (*Mitostoma*)) 249
(– *olgae*) 250
(– *olgae kratochvili*) 250
(– *olgae olgae*) 250
(– *ornatum*) 249
(*moesiacum*, *Nemastoma* (*Lugubrostoma*)) 246
? *moesiacum*, *Paranemastoma* 247
(*mordax*, *Egaenus*) 267
(*mordax*, *Zacheus*) 267
(*morio*, *Oligolophus*) 273–275
morio, *Mitopus* 239, 273–275, 284
muellneri, *Ischyropsalis* 256
narcisi, *Nelima* 240, 280, 283
Nelima 276, 279, 280, 282–284
(– *aurantiaca*) 276
– *doriae* 240, 282, 283
(– *dalmatina*) 282, 283
(– *Doriae*) 282
– *narcisi* 240, 280, 283
(– *semproni*) 279, 280
– *sempronii* 240, 279, 283
– *trogloodytes* 240, 280
Nemastoma 244–250, 285
– *bidentatum* 245
– *bidentatum* 233, 245
– *bidentatum sparsum* 234, 245, 246
(– *bosnicum*) 246
(– *chrysomelas*) 249

- *dentigerum* 234, 245, 246
 (– *dentipalpe*) 248
 (– *gigas longipes*) 248
 (– *insulare*) 247
 (– *karamani*) 250
 – *lugubre* 245, 285
 (– *lugubre unicolor*) 245
 (– *Olgae*) 250
 (– *Olgae decorum*) 250
 (– *Olgae Kratochwili*) 250
 (– *Olgae Olgae*) 250
 (– *quadripunctatum*) 246–248
 (– *quadripunctatum bicuspidatum*) 247
 (– *quadripunctatum sillii*) 247
 (– *quadripunctatum kochii*) 247
 (– *Radewi*) 247
 (– *titaniacum*) 248
 – *triste* 244–246
 (*Nemastoma* (*Dromedostoma*)) 246–248
 (– *acrospinosum*) 247
 (– *corcyraeum*) 248
 (– *insulare*) 247
 (– *strasseri*) 246
 (*Nemastoma* (*Lugubrostoma*)) 44–46
 (– *bidentatum*) 245
 (– *bosnicum*) 246
 (– *lugubre*) 245
 (– *lugubre unicolor*) 245
 (– *moesiacum*) 246
 (– *triste*) 244, 245
 (– *unicolor lugubre*) 245
 (*Nemastoma* (*Nemastoma*)) 247, 248
 (– *dentipalpe*) 248
 (– *quadripunctatum kochii*) 247
 (– *tenuae*) 248
 (– *sillii*) 247
 (– *kochi*) 247
 (– *kochii*) 247
nepaeformis, *Trogulus* 253, 255, 284
nicaeense, *Phalangium* (*Dasylobus*) 266
nicaeensis, *Eudasylobus* 266, 267
noctifilus, *Siro* 243
noctiphilus, *Siro* 233, 243
Odiellus 268, 269, 272, 173
 (– *gallicus*) 268
 – *lendli* 239, 273
 (– *simplicipes*) 273
 (– *rucneri*) 272
 – *spinosus* 239, 273
 – *troguloides* 269
olgae, *Mitostoma* 235, 250
 (*olgae*, *Mitostoma* (*Mitostoma*) *olgae*) 250
 (*olgae*, *Mitostoma* (*Mitostoma*)) 250
 (*olgae*, *Mitostoma olgae*) 250
 (*Olgae*, *Nemastoma Olgae*) 250
 (*Olgae*, *Nemastoma*) 250
Oligolophus 67–69, 73
 (– *alpinus*) 258, 274, 275, 279
 (– *morio*) 273–275
 (– *palliatum*) 274
 (– *palpinalis*) 267
 – *tridens* 238, 268, 269
 (– *tridenst*) 269
 (*ornatum*, *Mitostoma* (*Mitostoma*)) 249
Opilio 259–262, 275, 283
 (– *acanthopus*) 275, 276
 – *dinaricus* 237, 260
 – *parietinus* 236, 259–261
 – *ruzickai* 237, 261
 – *saxatilis* 236, 260, 261
 (– *serripes*) 275
 – *transversalis* 261
opilio, *Phalangium* 236, 256, 266, 283
opilionoides, *Dicranolasma* 235, 251
ornatum, *Carinostoma* 249
 (*palliatum*, *Oligolophus*) 274
palpinalis, *Lophopilio* 238, 267
 (*palpinalis*, *Oligolophus*) 267
 (*Papillophus*) 273
 (– *crassus*) 273
Paranemastoma 246, 248, 284, 285
 (– *acrospinosum*) 248
 – *bicuspidatum* 247
 –? *corcyraeum* 234, 248

- *kochi* 247
- *longipes* 234, 248
- *quadripunctatum* 234, 246, 247
- ? *moesiacum* 247
- *radewi* 247
- *silli* 247
- *titaniacum* 248
- (*parietinum*, *Liobunum*) 262
- (*parietinum*, *Phalangium*) 259–262
- parietinus*, *Opilio* 236, 259–261
- Paropilio* 259
- (– *spinipes*) 259
- (*pavesii*, *Astrobus*) 278
- Phalangium* 256, 259–261, 264, 266, 267, 283, 284
- (– *acanthopus*) 275
- (– *appendiculatum*) 264
- *opilio* 236, 256, 266, 283
- (– *parietinum*) 259–262
- (– *propinquum*) 267, 283
- (– *saxatile*) 260
- (*Phalangium* (*Dasylobus*)) 266
- (– *nicaeense*) 266
- pinetorum*, *Platybunus* 262, 263
- Platybunus* 262–264
- *bucephalus* 237, 262, 263
- (– *corniger*) 264, 265
- *hadzii* 237, 263
- (– *kratochvili*) 263
- *pinetorum* 262, 263
- *spinosissimus* 237, 241, 263
- *strigosus* 263
- (– *triangularis*) 264
- (*Platylophus*) 262
- (– *heegeri*) 262
- (– *Heegeri*) 262
- (– *Hugeri dalmatinum*) 262
- (– *strigosus*) 263
- (*plicata*, *Ischyropsalis*) 256
- (*propinquum*, *Metaphalangium*) 259, 267
- (*propinquum*, *Phalangium*) 267, 284
- Pyza* 246
- *bosnica* 234, 246
- (*quadripunctatum bicuspdatum*, *Nemastoma*) 247
- (*quadripunctatum*, *Nemastoma*) 246, 247
- quadripunctatum*, *Paranemastoma* 234, 246, 247
- (*Radewi*, *Nemastoma*) 247
- radewi*, *Paranemastoma* 247
- (*redtenbacheri*, *Ischyropsalis*) 267
- Rilaena* 264
- *triangularis* 237, 264
- (*rostratus*, *Trogulus*) 253
- rotundum*, *Leiobunum* 277, 278
- (*rotundum*, *Liobunum*) 277, 278
- (*rucneri*, *Odiellus*) 272
- (*rucnerianus*, *Eudasylobus*) 266
- (*rucnerianus*, *Zacheus* (*Dentizacheus*)) 266
- rupestre*, *Leiobunum* 240, 279, 284
- ruzickai*, *Opilio* 237, 261
- (*saxatile*, *Liobunum*) 283
- (*saxatile*, *Phalangium*) 260
- saxatilis*, *Opilio* 236, 260, 261
- (*scaber*, *Mitopus*) 274, 284
- (*scaber*, *Trogulus*) 252
- scabrum*, *Dicranolasma* 235, 250, 251, 252
- Scotolemon* 243, 244
- (– *anophthalmum*) 243
- *doriae* 233, 244
- (*semproni*, *Nelima*) 279, 280
- sempronii*, *Nelima* 240, 279, 283
- (*serripes*, *Opilio*) 275
- setosissimus*, *Trogulus* 254
- silhaoyi*, *Siro* 233, 242
- (*sillii*, *Nemastoma* (*Nemastoma*)) 247
- (*sillii*, *Nemastoma quadripunctatum*) 247
- silli*, *Paranemastoma* 247
- (*simplicipes*, *Odiellus*) 273
- Siro* 242, 243
- *duricorius* 242
- – *duricorius* 233, 242
- (– *heyrovskyi*) 243
- *minutus* 233, 242

- (– *noctifilus*) 243
 – *noctiphilus* 233, 243
 – *silhavyi* 233, 242
 (– *Šilhavýi*) 242
 – *teyrovskiyi* 233, 243
sparsum, *Nemastoma bidentatum* 234, 245, 246
(spinipes, Paropilio) 259
spinossissimus, *Platybunus* 237, 241, 263
(spinosus, Acantholophus) 273
spinosus, *Odiellus* 239, 273
squamatus, *Trogulus* 236, 254
(strasseri, Nemastoma (Dromedostoma)) 246
(strigosus, Metaplatybunus) 263
(strigosus, Platylophus) 263
(Šilhavýi, Siro) 242
(tenue, Nemastoma (Nemastoma)) 248
teyrovskiyi, Siro 233, 243
(tibialis, Egaenus) 267, 268
tingiformis, *Trogulus* 236, 255
(titaniacum, Nemastoma) 248
titaniacum, Paranemastoma 248
titanus, Gyas 239, 276
torosus, *Trogulus* 235, 252
transversalis, Opilio 261
Travunia 284
 (– *anophthalma*) 243
 – *jandai* 233, 243
 (– *Jandai*) 243, 244
 – *trogloodytes* 243
 –? *vjetrenicae* 244
(triangularis, Platybunus) 264
triangularis, Rilaena 237, 264
tricarinatus, *Trogulus* 252–255, 284
tridens, Oligolophus 238, 268, 269
(tridenst, Oligolophus) 269
triste, Nemastoma 244–246
(triste, Nemastoma (Lugubrostoma)) 244, 245
(trogloodytes, Abasola) 233, 243, 244
(trogloodytes, Absolonia) 243
trogloodytes, Nelima 240, 280
(trogloodytes, Travunia) 243
troguloides, Odiellus 269
Trogulus 252–255, 284
 – *aquaticus* 255
 – *closanicus* 236, 254
 – *coriziformis* 235, 255
 – *falcipenis* 235, 253, 255
 (– *hirta, tricarinatus*) 252
 – *hirtus, tricarinatus* 252
 – *nepaeformis* 253, 255, 284
 (– *rostratus*) 253
 (– *scaber*) 252
 – *setosissimus* 254
 – *squamatus* 236, 254
 – *tingiformis* 236, 255
 – *torosus* 235, 252
 – *tricarinatus* gr. 252–255, 284
 (– *tricarinatus hirta*)
 – *tricarinatus hirtus* 235, 252
unicolor, Holoscotolemon 244
(unicolor, Nemastoma lugubre) 245
(unicolor, Nemastoma (Lugubrostoma) lugubre)
 245
verhoeffi, Dicranolasma 235, 251
(vjetrenicae, Dinarica) 244
vjetrenicae, Travunia 244
Zachaeus 267
 – *crista* 238, 267, 283
(Zacheus) 267
 (– *crista*) 267
 (– *mordax*) 267
(Zacheus (Dentizacheus))
 (– *rucnerianus*) 266
(Zacheus (Zacheus)) 267
 (– *crista*) 267