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HARVESTMEN OF THE MUSEO FRIULANO DI STORIA NATURALE IN UDINE (ARACHNIDA: OPILIONES). PART I

OPILIONIDI DEL MUSEO FRIULANO DI STORIA NATURALE IN UDINE (ARACHNIDA: OPILIONES). PARTE I

Abstract - Since 1996, intensive faunal research took part in Friuli Venezia Giulia in the provinces of Udine, Pordenone and Gorizia, organised by the Museo Friulano di Storia Naturale in Udine. Besides, some opilionids from other regions of Italy and from Slovenia have been deposited in the Museum. In this contribution, 43 opilionid species from 112 localities are considered, except the *Trogulus tricarinatus*- and *T. nepaeformis*-groups, and a *Dasylobus* species. *Trogulus falcipenis* KOMPOSCH, 2000, and *Ischyropsalis hellwigii hellwigii* (PANZER, 1794) have being recorded in Italy for the first time. The problems concerning the *Trogulus tricarinatus*- and *T. nepaeformis*-group will be considered separately.

Key words: Arachnids, Opiliones, Zoological collections of the Museo Friulano di Storia Naturale in Udine.

Riassunto breve - La Collezione di Opilionidi del Museo Friulano di Storia Naturale in Udine consta in un piccolo nucleo storico al quale, a partire dal 1996, si sono aggiunte varie raccolte in particolare provenienti dalle province di Udine, Pordenone e Gorizia. Nelle collezioni del Museo sono inoltre conservati alcuni Opilionidi di altre parti d'Italia e della Slovenia. In questo lavoro sono state complessivamente considerate 43 specie appartenenti a 112 località, eccetto le specie appartenenti ai gruppi di *Trogulus tricarinatus* e *T. nepaeformis* e una specie attribuibile al genere *Dasylobus*. *Trogulus falcipenis* KOMPOSCH, 2000, e *Ischyropsalis hellwigii hellwigii* (PANZER, 1794) vengono segnalati per la prima volta per la fauna italiana. I problemi concernenti i gruppi di *Trogulus tricarinatus* e *T. nepaeformis* saranno trattati in un contributo a parte.

Parole chiave: Arachnida, Opilionidi, Collezioni zoologiche del Museo Friulano di Storia Naturale in Udine.

Introduction

In this contribution, I deal with the opilionid collection of the Museo Friulano di Storia Naturale in Udine. In the last ten years, the collection has much enriched especially because of the intensive investigations of the Museum's staff. Most material was collected in Friuli Venezia Giulia by pitfall trapping from the lowland up an altitude of above 2000 m, and in

adjacent regions. In many localities, whole year sampling was done. In other regions, harvestmen were collected mostly occasionally. In the following review, if available, the 10 x 10 km² UTM code, and altitude are added according to the Museum's labels. The material has been collected in the following provinces: Belluno (BL), Gorizia (GO), Matera (MT), Nuoro (NU), Pordenone (PD), Udine (UD) and Venezia (VE).

In this review, the following species of harvestmen (Opiliones) deposited till 2002 in the Museo Friulano di Storia Naturale in Udine, are treated. The system used according to BLICK & KOMPOSCH (2004).

Taxa

CYPHOPHTHALMI

Sironidae

Siro duricorius duricorius (JOSEPH, 1868)

PALPATOIRES

Nemastomatidae

Carinostoma carinatum (ROEWER, 1914)

Histicostoma dentipalpe (AUSSENER, 1867)

Mitostoma alpinum (HADŽI, 1931)

Mitostoma chrysomelas (HERMANN, 1804)

Nemastoma bidentatum bidentatum ROEWER, 1914

Nemastoma dentigerum CANESTRINI, 1873

Paranemastoma quadripunctatum (PERTY, 1833)

Trogulidae (excl. *Trogulus tricarinatus*- and *T. nepaeformis*-group)

Anelasmoecephalus hadzii MARTENS, 1978

Trogulus closanicus AVRAM, 1971

Trogulus falcipenis KOMPOSCH, 2000

Trogulus graecus DAHL, 1903

Trogulus tingiformis C. L. KOCH, 1847

Ischyropsalididae

Ischyropsalis adamii CANESTRINI, 1873

Ischyropsalis hellwigii hellwigii (PANZER, 1794)

Ischyropsalis kollari C. L. KOCH, 1839

Ischyropsalis muellneri HAMANN, 1898

Phalangiidae

Amlenus aurantiacus (SIMON, 1881)

Dasylobus gestroi (THORELL, 1876)

Dasylobus graniferus (CANESTRINI, 1871)

Dicranopalpus gasteinensis DOLESCHALL, 1852

Lacinius dentiger (C. L. KOCH, 1847)

Lacinius ephippiatus (C. L. KOCH, 1835)

Lacinius horridus (PANZER, 1794)

Lophopilio palpalis (HERBST, 1799)

Megabunus armatus (KULCZYŃSKI, 1887)

Metaphalangium cirtanum (C. L. KOCH, 1839)

Mitopus glacialis (HEER, 1845)

Mitopus morio (FABRICIUS, 1799)

Odiellus spinosus (BOSC, 1792)

Opilio dinaricus ŠILHAVÝ, 1938

Opilio transversalis ROEWER, 1956

Phalangium opilio LINNAEUS, 1758

Platybunus bucephalus (C. L. KOCH, 1835)

Platybunus pinetorum (C. L. KOCH, 1839)

Sclerosomatidae

Astrobus helleri (AUSSENER, 1867)

Astrobus laevipes (CANESTRINI, 1872)

Gyas annulatus (OLIVIER, 1791)

Gyas titanus SIMON, 1879

Leiobunum roseum C. L. KOCH, 1839

Leiobunum rupestre (HERBST, 1799)

Nelima doriae (CANESTRINI, 1871)

Nelima sempronii SZALAY, 1951

Systematic part

CYPHOPHTHALMI

Sironidae

Siro duricorius duricorius (JOSEPH, 1868)

- between Stalle Parigina and Stalla Pustrin, Val Settimana, Claut (PN), UM02, 650 m, 03.V.2002, Fagetum, Berlese funnels, A. dall'Asta leg.: 9 ♂♂, 5 ♀♀, 20 iuv. (327/2003); ibid., 17.V.2002,

- Fagetum*, Berlese funnels, A. dall'Asta leg.: 2 ♂♂, 8 iuv. (325/2003); *ibid.*, 15.VI.2002, *Fagetum*, Berlese funnels, A. dall'Asta leg.: 3 ♀♀, 2 iuv. (324/2003); *ibid.*, 29.VI.2002, *Fagetum*, Berlese funnels, A. dall'Asta leg.: 2 ♀♀, 1 iuv. (322/2003)
- Casera Casavento, Alta Val Cellina, Claut (PN), UM12, 950 m, 02.V.-16.V.2002, *Fagetum*, pitfall traps, A. dall'Asta leg.: 1 ♀ (318/2003); *ibid.*, 16.V.-30.V.2002, *Fagetum*, pitfall traps, A. dall'Asta leg.: 1 ♂ (278/2003)
 - Pian de Cea, Alta Val Cellina, Claut (PN), UM12, 930 m, 30.V.-17.VI.2002, *Fagetum*, pitfall traps, A. dall'Asta leg.: 1 ♂ (289/2003)
 - Val Margons, Alta Val Cellina, Claut (PN), UM12, 870 m, 03.V.2002, *Fagetum*, Berlese funnels, A. dall'Asta leg.: 4 ♂♂, 1 ♀, 12 iuv. (326/2003); *ibid.*, 17.V.2002, *Fagetum*, Berlese funnels, A. dall'Asta leg.: 5 iuv. (320/2003); *ibid.*, 20.V.2002, *Fagetum*, Berlese funnels, A. dall'Asta leg.: 2 ♀♀, 3 iuv. (319/2003); *ibid.*, *Fagetum*, Berlese funnels, A. dall'Asta leg.: 3 ♂♂, 8 iuv. (323/2003)
 - Biotope Palude di Cima Corso, Ampezzo (UD), UM24, 839 m, 10.VI.2001, peat bog or *Alnetum glutinosae*, near trees in places without water, A. Zanetti, M. Zanetti, G. Tomasin, A. Tagliapietra et G. Governatori leg.: 7 ♂♂, 9 ♀♀ (994/2002)
 - Stavoli Cuel Lung, Mt. Zovet, Moggio Udinese (UD), UM53, 600 m, 19.VI.2002, *Fagetum*, Berlese funnels, G. Governatori leg.: 12 ♂♂, 11 ♀♀, 5 iuv. (219/2003); *ibid.*, 22.VII.2002, *Fagetum*, Berlese funnels, A. dall'Asta leg.: 1 ♀ (211/2003); *ibid.*, 30.X.2002, *Fagetum*, Berlese funnels, G. Governatori leg.: 2 ♂♂, 6 iuv. (209/2003)
 - Stavoli Cuel Lung alto, Mt. Zovet, Moggio Udinese (UD), UM53, 700 m, 15.V.-19.VI.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 ♀ (379/2003); *ibid.*, 17.VII.2003, *Fagetum*, Berlese funnels, G. Tomasin leg.: 9 ♂♂, 1 ♀ (903/2003)
 - between Casera Coot and Berdo di Sopra, Resia (UD), UM73, 1225 m, 12.VI.2003, *Fagetum*, Berlese funnels, G. Tomasin leg.: 2 iuv. (915/2003)
 - above Clen, between Casera Coot and Slatina superiore, Resia (UD), UM73, 950 m, 26.VII.2002, *Fagetum*, Berlese funnels, A. dall'Asta leg.: 1 ♂, 1 ♀ (205/2003)
 - surroundings of Casera Malicuc, Valle di Ucea, Resia (UD), UM73, 760 m, 27.IX.-30.X.2001, *Fagetum*, pitfall traps, A. dall'Asta leg.: 2 ♂♂, 2 ♀♀ (337/2003)
 - Sant'Anna di Carnizza, Resia (UD), UM73, 1060 m, 19.VI.2002, *Fagetum*, Berlese funnels, G. Governatori leg.: 11 ♂♂, 7 ♀♀, 2 iuv. (220/2003)
 - Sella Carnizza, Resia (UD), UM73, 1070 m, 27.IX.-30.X.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 ♂, 1 ♀ (352/2003); *ibid.*, 26.VI.2003, Berlese funnels, G. Tomasin leg.: 5 iuv. (916/2003); *ibid.*, 1086 m, 31.V.2002, *Fagetum*, Berlese funnels, A. dall'Asta et G. Governatori leg.: 3 ♀♀, 7 iuv. (218/2003); *ibid.*, 19.VI.2002, *Fagetum*, Berlese funnels, G. Governatori leg.: 1 ♀ (215/2003); *ibid.*, 25.VI.2002, *Fagetum*, Berlese funnels, A. dall'Asta et L. Lapini leg.: 1 ♂, 4 ♀♀ (214/2003); *ibid.*, 09.VII.2002, *Fagetum*, Berlese funnels, A. dall'Asta leg.: 6 ♂♂, 6 ♀♀, 6 iuv. (206/2003); *ibid.*, 17.VII.2002, *Fagetum*, Berlese funnels, A. dall'Asta et L. Merluzzi leg.: 3 ♂♂, 2 ♀♀, 1 iuv. (213/2003); *ibid.*, 20.VII.2002, *Fagetum*, Berlese funnels, A. dall'Asta leg.: 3 ♂♂, 6 ♀♀ (217/2003); *ibid.*, 12.VIII.2002, *Fagetum*, Berlese funnels, A. dall'Asta leg.: 1 ♂, 2 ♀♀, 1 iuv. (208/2003); *ibid.*, 21.IX.2002, *Fagetum*, Berlese funnels, A. dall'Asta leg.: 2 ♂♂, 2 iuv. (207/2003); *ibid.*, 30.X.2002, *Fagetum*, Berlese funnels, A. dall'Asta leg.: 1 ♀, 1 iuv. (216/2003)
 - Stavoli Gnivizza, Sella Carnizza, Resia (UD), UM73, 1070 m, 26.VI.2003, Berlese funnels, G. Tomasin leg.: 6 iuv. (917/2003)
 - Valle di Ucea, Resia (UD), UM73, 900 m, 30.X.2002, *Fagetum*, Berlese funnels, G. Governatori leg.: 1 iuv. (212/2003)

S. duricorius is a stenoeicous south-Alpine-Dinaric species, frequent in dense deciduous and mixed forests in moist ground, mostly in deep litter or raw humus (MARTENS, 1978; KOMPOSCH, 1999; KOMPOSCH & GRUBER, 2004). It occurs disjunctively in north-western Italy.

PALPATORES

Nemastomatidae

Carinostoma carinatum (ROEWER, 1914)

- between Stalle Parigina and Stalla Pustrin, Val Settimana, Claut (PN), UM02, 650 m, 02.V.-16.V.2002, *Fagetum*, pitfall traps, A. dall'Asta leg.: 2 ♂♂, 7 ♀♀ (293/2003); *ibid.*, 03.V.2002, *Fagetum*, Berlese funnels, A. dall'Asta leg.: 1 ♀ (329/2003); *ibid.*, 16.V.-30.V.2002, *Fagetum*, pitfall traps, A. dall'Asta leg.: 2 ♀♀ (264/2003); *ibid.*, 30.V.-17.VI.2002, *Fagetum*, pitfall traps, A. dall'Asta leg.: 2 ♀♀ (304/2003); *ibid.*, 13.VII.-29.VII.2002, *Fagetum*, pitfall traps, A. dall'Asta et L. Lapini leg.: 1 ♂, 4 ♀♀ (270/2003)
- Casera Casavento, Alta Val Cellina, Claut (PN), UM12, 950 m, 16.V.-30.V.2002, *Fagetum*, pitfall traps, A. dall'Asta leg.: 1 ♀ (280/2003)
- Biotope Torbiera di Sequals, Sequals (PN), UM31, 200 m, 13.IV.2001, *Carex* sp. tufts, *Alnetum glutinosae*, near the trees, A. Zanetti, M. Zanetti, G. Tomasin, A. Tagliapietra et G. Governatori leg.: 2 ♂♂, 2 ♀♀ (998/2002); *ibid.*, 13.IV.2001, A. Zanetti, M. Zanetti, G. Tomasin, A. Tagliapietra et G. Governatori leg.: 1 ♀ (980/2002); *ibid.*, 08.IX.-14.IX.2001, pitfall traps (2/3), G. Colombetta leg.: 2 ♀♀ (1010/2002)
- Stavoli Cuel Lung alto, Mt. Zovet, Moggio Udinese (UD), UM53, 700 m, 15.V.-19.VI.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 ♂, 2 ♀♀ (380/2003); *ibid.*, 26.IX.-30.X.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 ♀ (335/2003)
- Stavoli Tugliezzo, near the Rio Lavarie, Moggio Udinese (UD), UM53, 470 m, 26.IX.-30.X.2001, *Fagetum*, cone traps, G. Governatori et A. dall'Asta leg.: 2 ♂♂, 7 ♀♀ (448/2003)
- bank island in the T. Mea, Alta Val Torre, Lusevera (UD), UM62, 700 m, 05.VIII.1992, shrubs, G. Governatori leg.: 3 ♂♂, 2 ♀♀ (946/2003); *ibid.*, G. Governatori leg.: 1 ♀ (1089/2003)
- Plan di Tapou, Alta Val Torre, Lusevera (UD), UM63, 875 m, 26.VIII.1992, *Fagetum*, M. M. Giovannelli leg.: 3 ♂♂, 6 ♀♀ (955/2003); *ibid.*, 875 m, 12.VII.1991, *Fagetum*, 5 pitfall traps, M. M. Giovannelli leg.: 2 ♂♂ (1005/2003); *ibid.*, 26.VIII.-07.XI.1992, meadow, M. M. Giovannelli et C. Luppi leg.: 1 ♀ (962/2003); *ibid.*, 900 m, 07.XII.1992, *Fagetum*, pitfall traps, M. M. Giovannelli et C. Luppi leg.: 2 ♀♀ (1047/2003)
- surroundings of Casera Tacia, Alta Val Torre, Lusevera (UD), UM63, 840 m, 26.VIII.1992, *Fagetum*, M. M. Giovannelli leg.: 2 ♂♂, 1 ♀ (1057/2003); *ibid.*, 06.IX.1991, *Fagetum*, M. M. Giovannelli leg.: 1 ♂, 1 ♀ (1034/2003); *ibid.*, 12.VII.1991, *Fagetum*, M. M. Giovannelli leg.: 2 ♂♂ (1010/2003); *ibid.*, 07.XI.1992, *Fagetum*, M. M. Giovannelli et C. Luppi leg.: 1 ♂, 4 ♀♀ (1074/2003)
- Valle del T. Mea, Lusevera (UD), UM72, 470 m, 19.XI.2000, pitfall traps, G. Governatori leg.: 1 ♂, 1 ♀ (232/2003)
- Passo di Tanamea, Alta Val Torre, Lusevera (UD), UM72, 1000 m, 02.IX.1992, *Fagetum*, G. Governatori leg.: 2 ♀♀ (1065/2003); *ibid.*, 1050 m, 02.IX.1992, G. Governatori et C. Luppi leg.: 1 ♂ (937/2003)
- Gran Monte, S side, Monteaperta, Taipana (UD), UM72, ca. 650 m, 10.X.-04.XII.1994, poor meadow on detritus, 5 traps, G. Governatori leg.: 1 ♀ (941/2003); *ibid.*, ca. 700 m, 10.X.-04.XII.1994, secondary meadow, 4 pitfall traps, G. Governatori leg.: 5 ♂♂, 15 ♀♀ (969/2003); *ibid.*, 04.XII.1994, *Betuletum*-meadow, 3 pitfall traps, G. Governatori leg.: 1 ♂, 2 ♀♀ (1042/2003); *ibid.*, ca. 800 m, 10.X.-04.XII.1994, *Fagetum*, 2 pitfall traps, G. Governatori leg.: 1 ♂, 1 ♀ (983/2003)
- surroundings of Casera Malicuc, Valle di Ucea, Resia (UD), UM73, 760 m, 20.VII.-20.VIII.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 ♀ (394/2003); *ibid.*, 27.IX.-30.X.2001, *Fagetum*, pitfall traps, A. dall'Asta leg.: 1 ♀ (338/2003)

C. carinatum is a thermophilous species inhabiting soils of deciduous and mixed forests (MARTENS, 1978; KOMPOSCH & GRUBER, 2004).

Histicostoma dentipalpe (AUSSENER, 1867)

- Biotope Risorgive di Zarnicco, Rivignano (UD), UL58, 13 m, 10.V.-19.VI.2001, bank forest and peat bog; *Schoenus nigricans* tufts, *Alnetum glutinosae*, near the trees, G. Colombetta leg.: 1 iuv. (1119/2002)
- Biotope Risorgive di Virco, Bertiole (UD), UL58, 23 m, 10.V.-19.VI.2001, humid forest, pitfall traps (3/3), G. Colombetta leg.: 3 pulli (1018/2002)
- Biotope Palude Fraghis, Porpetto (UD), UL68, 8 m, 15.V.-26.VI.2001, *Phragmitetum*, *Alnetum glutinosae*, at the base of *Alnus* plants, pitfall traps (3/3), G. Colombetta leg.: 1 iuv. (1107/2002)
- between Stalle Parigina and Stalla Pustrin, Val Settimana, Claut (PN), UM02, 650 m, 02.V.-16.V.2002, *Fagetum*, pitfall traps, A. dall'Asta leg.: 1 ♂, 1 ♀ (294/2003); *ibid.*, 03.V.2002, *Fagetum*, Berlese funnels, A. dall'Asta leg.: 1 iuv. (328/2003); *ibid.*, 30.V.-17.VI.2002, *Fagetum*, pitfall traps, A. dall'Asta leg.: 3 iuv. (307/2003); *ibid.*, 17.VI.-01.VII.2002, *Fagetum*, pitfall traps, A. dall'Asta leg.: 3 iuv. (274/2003); *ibid.*, 13.VII.-29.VII.2002, *Fagetum*, pitfall traps, A. dall'Asta et L. Lapini leg.: 1 ♂, 1 ♀, 1 iuv. (269/2003)
- Pian de Cea, Alta Val Cellina, Claut (PN), UM12, 930 m, 30.V.-17.VI.2002, *Fagetum*, pitfall traps, A. dall'Asta leg.: 3 ♂♂, 6 ♀♀ (290/2003); *ibid.*, 17.VI.-01.VII.2002, *Fagetum*, pitfall traps, A. dall'Asta leg.: 1 iuv. (286/2003); *ibid.*, 13.VII.-29.VII.2002, *Fagetum*, pitfall traps, A. dall'Asta et L. Lapini leg.: 1 iuv. (312/2003)
- Val Margons, Alta Val Cellina, Claut (PN), UM12, 870 m, 29.VI.2002, *Fagetum*, Berlese funnels, A. dall'Asta leg.: 1 iuv. (321/2003)
- Biotope Torbiera di Curiedi, Tolmezzo (UD), UM44, 874 m, 29.X.2001, NW the hill, *Carex* sp. tufts, G. Tomasin leg.: 3 iuv. (1027/2002)
- Valle del T. Vedronza, SE side of Mt. Cladia, Lusevera (UD), UM62, 330 m, 05.VIII.1992, mixed forest, G. Governatori leg.: 1 ♂ (1050/2003); *ibid.*, 02.IX.1992, mixed forest, G. Governatori et C. Luppi leg.: 1 ♂ (1072/2003)
- Villanova, Lusevera (UD), UM62, ca. 620 m, 23.X.1997, in soil aside the road, G. Governatori leg.: 1 ♀ (245/2003)
- Plan di Tapou, Alta Val Torre, Lusevera (UD), UM63, 875 m, 12.VII.1991, *Fagetum*, 5 pitfall traps, M. M. Giovannelli leg.: 2 ♂♂, 3 ♀♀ (1004/2003); *ibid.*, 900 m, 26.VIII.1992, *Fagetum*, M. M. Giovannelli leg.: 1 ♂, 8 ♀♀, 1 iuv. (956/2003)
- Gran Monte, S side, Monteaperta, Taipana (UD), UM72, ca. 700 m, 10.IX.-10.X.1994, secondary meadow, 4 pitfall traps, G. Governatori leg.: 1 ♂ (1007/2003); *ibid.*, *Betuletum*-meadow, 3 pitfall traps, G. Governatori leg.: 1 ♀ (1022/2003); *ibid.*, 10.X.-04.XII.1994, secondary meadow, 4 pitfall traps, G. Governatori leg.: 2 ♂♂ (967/2003)
- surroundings of Casere Tacia, Alta Val Torre, Lusevera (UD), UM63, 840 m, 12.VII.1991, *Fagetum*, M. M. Giovannelli leg.: 1 ♀ (1009/2003); *ibid.*, 12.VII.1991, *Fagetum*, 5 pitfall traps, M. M. Giovannelli leg.: 2 ♂♂, 1 ♀ (1027/2003); *ibid.*, 26.VIII.1992, *Fagetum*, M. M. Giovannelli leg.: 1 ♂ (1056/2003); *ibid.*, 06.IX.1991, *Fagetum*, M. M. Giovannelli leg.: 1 ♀ (985/2003); *ibid.*, 06.IX.1991, *Fagetum*, M. M. Giovannelli leg.: 3 ♂♂, 5 ♀♀ (1036/2003); *ibid.*, 06.IX.1991, *Fagetum*, M. M. Giovannelli leg.: 2 ♂♂, 4 ♀♀ (1043/2003)
- above Clen, between Casera Coot and Slatina superiore, Resia (UD), UM73, 1000 m, 19.VI.-18.VII.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 iuv. (556/2003); *ibid.*, 20.VIII.-26.IX.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 ♂ (559/2003)
- near Clen, Resia (UD), UM73, 940 m, 20.VIII.-30.X.2001, meadows, cone traps, G. Governatori leg.: 1 iuv. (549/2003)
- loc. Iama near Clen, Resia (UD), UM73, 950 m, 26.IX.-30.X.2001, *Fagetum*, cone traps, G. Governatori et A. dall'Asta leg.: 1 iuv. (460/2003)
- surroundings of Casera Malicuc, Valle di Uccia, Resia (UD), UM73, 760 m, 20.VII.-20.VIII.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 ♂, 3 ♀♀ (395/2003)

- Passo di Tanamea, Alta Val Torre, Lusevera (UD), UM72, 1000 m, 02.IX.1992, *Fagetum*, G. Governatori et C. Luppi leg.: 1 ♂, 3 ♀♀, 1 iuv. (980/2003); *ibid.*, 02.IX.1992, *Fagetum*, G. Governatori leg.: 1 ♀ (1066/2003)
- Val Resia, Resia (UD), UM73, 1090 m, 16.VII.-20.VIII.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 ♂, 1 ♀, 1 iuv. (422/2003)
- Sella Carnizza, Resia (UD), UM73, 1090 m, 18.V.-19.VI.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 ♂ (356/2003); *ibid.*, 20.VIII.-27.IX.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 ♂ (372/2003)
- Stavoli Gnivizza, Sella Carnizza, Resia (UD), UM73, 1070 m, 20.VII.-20.VIII.2001, pasture, pitfall traps, G. Governatori leg.: 4 ♀♀ (674/2003)

H. dentipalpe is an Alpine-Dinaric species that lives in space providing microhabitats, like litter, and wood and stone heaps, in forests, in shrubs of different types, and in open land (MARTENS, 1978; KOMPOSCH & GRUBER, 2004).

Mitostoma alpinum (HADŽI, 1931)

- northern slope of Canin Mts, Chiusaforte (UD), UM83, 1950 m, 27.VIII.-16.X.2001, a scree near a snowfield, pitfall traps, G. Governatori leg.: 2 ♂♂, 1 ♀, 1 iuv. (385/2003); *ibid.*, 28.VII.-27.VIII.2001, pitfall traps, G. Governatori leg.: 2 ♂♂, 1 ♀ (416/2003)

This eastern and south-eastern Alpine species inhabits screes, stone accumulations and similar space providing microhabitats within the alpine zone (MARTENS, 1978; KOMPOSCH & GRUBER, 2004).

Mitostoma chrysomelas (HERMANN, 1804)

- Biotope Prati umidi di Quadris, Fagagna (UD), UM51, 171 m, 08.IX.-14.X.2001, humid forest, pitfall traps (3/3), G. Colombetta leg.: 1 ♀ (1035/2002)
- surroundings of Casere Tacia, Alta Val Torre, Lusevera (UD), UM63, 840 m, 12.VII.1991, *Fagetum*, M. M. Giovannelli leg.: 2 ♂♂, 2 ♀♀ (1008/2003); *ibid.*, 12.VII.1991, *Fagetum*, 5 pitfall traps, M. M. Giovannelli leg.: 1 ♂, 3 ♀♀ (1026/2003); *ibid.*, 06.IX.1991, *Fagetum*, M. M. Giovannelli leg.: 1 ♀ (1031/2003)
- Biotope Risorgive di Virco, Bertiole (UD), UL58, 23 m, 04.IX.-16.X.2001, humid forest, pitfall traps (3/3), G. Colombetta leg.: 2 ♂♂ (1065/2002)
- Biotope Palude Fraghis, Porpetto (UD), UL68, 8 m, 04.IX.-17.X.2001, *Phragmitetum*, *Alnetum glutinosae*, at the base of *Alnus* plants, pitfall traps (3/3), G. Colombetta leg.: 1 iuv. (1074/2002)
- Passo di Tanamea, Alta Val Torre, Lusevera (UD), UM72, 1000 m, 02.IX.1992, *Fagetum*, G. Governatori leg.: 1 ♂ (1064/2003)
- above Clen, between Casera Coot and Slatina superiore, Resia (UD), UM73, 940 m, 26.IX.-30.X.2001, pasture, pitfall traps, G. Governatori leg.: 1 ♀ (359/2003)
- near Clen, Resia (UD), UM73, 940 m, 27.VI.-20.VIII.2001, pasture, pitfall traps, G. Governatori leg.: 1 subad. ♂ (435/2003); *ibid.*, 20.VIII.-30.X.2001, pasture, cone traps, G. Governatori leg.: 1 ♀ (548/2003)
- loc. Iama near Clen, Resia (UD), UM73, 817 m, 26.IX.-30.X.2001, *Fagetum*, cone traps, G. Governatori et A. dall'Asta leg.: 1 ♂ (454/2003)
- Sella di Grubia, Canin Mts, Chiusaforte (UD), UM73, 2100 m, 27.VIII.-16.X.2001, pasture, pitfall traps, G. Governatori leg.: 4 ♂♂, 3 ♀♀ (566/2003)

- Stavoli Gnivizza, Sella Carnizza, Resia (UD), UM73, 1070 m, 20.VIII.-27.IX.2001, pasture, pitfall traps, G. Governatori leg.: 1 ♀, 1 iuv. (673/2003); ibid., 27.IX.-30.X.2001, pasture, pitfall traps, G. Governatori leg.: 4 ♂♂, 3 ♀♀ (541/2003)

M. chrysomelas is an euryoecius species distributed across most of Europe. It prefers moist and well structured space providing microhabitats between particles such as fallen branches, stones and the like (MARTENS, 1978; KOMPOSCH & GRUBER, 2004). In some caves, populations subsisting in total darkness have been reported (GASPARO, 2002).

Nemastoma bidentatum bidentatum ROEWER, 1914

- Villanova, Lusevera (UD), UM62, ca. 620 m, 23.X.1997, in soil aside the road, G. Governatori leg.: 1 ♂, 1 ♀ (244/2003)
- Valle del T. Vedronza, SE side of Mt. Cladia, Lusevera (UD), UM62, 330 m, 05.VIII.1992, mixed forest, G. Governatori leg.: 1 ♂ (1062/2003)

N. b. bidentatum is native to the south-eastern Alps and Slovenia, inhabiting soils of different forest types from lowlands up to the subalpine shrubs (MARTENS, 1978; KOMPOSCH & GRUBER, 2004).

Nemastoma dentigerum CANESTRINI, 1873

- Biotope Risorgive di Zarnicco, Rivignano (UD), UL58, 13 m, 04.IX.-16.X.2001, bank forest and peat bog; *Schoenus nigricans* tufts, *Alnetum glutinosae*, near the trees, G. Colombetta leg.: 1 ♀ (1052/2002)
- Biotope Risorgive di Virco, Bertiole (UD), UL58, 23 m, 04.IX.-16.X.2001, humid forest, pitfall traps (3/3), G. Colombetta leg.: 2 ♂♂, 5 ♀♀ (1066/2002)
- Biotope Paludi del Corno, Gonars (UD), UL68, 16 m, 15.V.-21.VI.2001, peat bog, pitfall traps (1/3), G. Colombetta leg.: 1 ♀ (1054/2002); ibid., 04.IX.-16.X.2001, pitfall traps (2/3), G. Colombetta leg.: 1 ♀ (1116/2002)
- Biotope Palude Fraghis, Porpetto (UD), UL68, 8 m, 04.IX.-17.X.2001, *Phragmitetum*, *Alnetum glutinosae*, at the base of *Alnus* plants, pitfall traps (3/3), G. Colombetta leg.: 5 ♀♀ (1075/2002); ibid., 23.XI.2001, peat bog, *Cladium mariscus* and *Schoenus nigricans* tufts, G. Tomasin leg.: 2 ♀♀ (1091/2002)
- Biotope Palude del Fiume Cavana, Monfalcone (GO), UL87, 1 ♂, 20.V.-26.VI.2001, forest, pitfall traps (3/3), G. Colombetta leg.: 1 ♂ (1023/2002); ibid., 29.XI.-12.X.2001, humid meadow, *Juncacea* tufts, G. Tomasin et F. Stoch leg.: 1 ♂ (977/2002)
- Biotope Torbiera di Sequals, Sequals (PN), UM31, 200 m, 13.IV.2001, *Alnetum glutinosae*, near the trees, *Carex* sp. tufts, A. Zanetti, M. Zanetti, G. Tomasin, A. Tagliapietra et G. Governatori leg.: 1 ♂ (997/2002)
- Biotope Prati umidi di Quadris, Fagagna (UD), UM51, 171 m, 08.IX.2001-14.X.2001, humid forest, pitfall traps (3/3), G. Colombetta leg.: 1 ♀ (1032/2002)
- Biotope Torbiera di Lazzacco, Pagnacco (UD), UM51, 195 m, 10.V.-21.VI.2001, eastern forest, pitfall traps (3/3), G. Colombetta leg.: 1 ♂ (1111/2002); ibid., 08.IX.-06.X.2001, eastern forest, pitfall traps (3/3), G. Colombetta leg.: 3 ♂♂, 17 ♀♀ (999/2002)
- Valle del T. Vedronza, SE side of Mt. Cladia, Lusevera (UD), UM62, 330 m, 05.VIII.1992, mixed forest, G. Governatori leg.: 1 ♀ (1049/2003)

- bank island in the T. Mea, Alta Val Torre, Lusevera (UD), UM62, 700 m, 05.VIII.1992, shrubs, G. Governatori leg.: 1 ♂ (945/2003); ibid., 07.XI.1992, shrubs, G. Governatori leg.: 1 ♀ (1090/2003)
- Plan di Tapou, Alta Val Torre, Lusevera (UD), UM63, 875 m, 26.VIII.1992, *Fagetum*, M. M. Giovannelli leg.: 1 ♂ (953/2003)
- Biotope Torbiera di Pramollo, Pontebba (UD), UM65, 1510 m, 09.VI.2001, superior peat bog, wet meadow with a ciperacean and grass overgrown source, A. Zanetti, A. Tagliapietra, G. Tomasin et G. Governatori leg.: 1 ♀ (1095/2002); ibid., 02.IX.-12.X.2001, the superior peat bog, pitfall traps (3/3), G. Colombetta leg.: 1 ♀ (979/2002)
- near Clen, Resia (UD), UM73, 940 m, 20.VIII.-30.X.2001, pasture, cone traps, G. Governatori leg.: 1 ♂ (551/2003)
- loc. Iama near Clen, Resia (UD), UM73, 817 m, 26.IX.-30.X.2001, *Fagetum*, cone traps, G. Governatori et A. dall'Asta leg.: 2 ♂♂, 1 ♀ (456/2003)
- surroundings of Casera Malicuc, Valle di Uccia, Resia (UD), UM73, 760 m, 20.VII.-20.VIII.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 ♂ (393/2003); ibid., 20.VIII.-27.IX.2001, *Fagetum*, pitfall traps, A. dall'Asta leg.: 1 ♂, 8 ♀♀ (387/2003)
- Val Resia, Resia (UD), UM73, 1090 m, 16.VII.-20.VIII.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 ♂ (421/2003)
- Sant'Anna di Carnizza, Resia (UD), UM73, 1060 m, 18.V.-19.VI.2001, pasture, pitfall traps, G. Governatori leg.: 1 ♂ (403/2003); ibid., 20.VII.-20.VIII.2001, pasture, pitfall traps, G. Governatori leg.: 1 ♀ (382/2003); ibid., 20.VIII.-27.IX.2001, pasture, pitfall traps, A. dall'Asta leg.: 1 ♂, 2 ♀♀ (386/2003); ibid., 27.IX.-30.X.2001, pasture, pitfall traps, G. Governatori leg.: 2 ♂♂, 1 ♀ (349/2003)
- Sella Carnizza, Resia (UD), UM73, 1090 m, 20.VIII.-27.IX.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 4 ♀♀ (371/2003)
- Sella di Grubia, Canin Mts, Chiusaforte (UD), UM73, 2100 m, 16.X.2001-16.VIII.2002, pasture, pitfall traps, C. Morandini leg.: 1 ♀ (439/2003)
- Stavoli Gnivizza, Sella Carnizza, Resia (UD), UM73, 1070 m, 20.VII.-20.VIII.2001, pasture, pitfall traps, G. Governatori leg.: 1 ♂ (344/2003); ibid., 20.VIII.-27.IX.2001, pasture, pitfall traps, G. Governatori leg.: 4 ♂♂, 13 ♀♀ (675/2003); ibid., 27.IX.-30.X.2001, pasture, pitfall traps, G. Governatori leg.: 2 ♂♂, 9 ♀♀ (542/2003)
- Cialla di Prepotto, Prepotto (UD), UM80, 230 m, 29.VI.1977, G. P. Proscia leg., inv. No. 5/6: 1 ♀ (1126/2003)
- Mt. Mia, Stupizza, Pulfero (UD), UM81, 400 m, 11.VII.1976, C. Morandini leg., inv. No. 5/27: 1 ♀ (1110/2003)

This Central European-Apenninian species inhabits humus soils of deciduous forests, different types of forest and shrub soils, as well as open grassy areas (MARTENS, 1978; MARCELLINO, 1987).

Paranemastoma quadripunctatum (PERTY, 1833)

- Cansiglio (BL), Veneto, 22.VII.1978, F. Stergulic leg., inv. No. 5/32: 1 ♀ (1106/2003)
- Sappada (BL), Veneto, UM25-UM26, 1300 m, 29.VI.1976, C. Morandini leg., inv. No. 5/5: 1 ♂ (1121/2003)
- Biotope Palude di Cima Corso, Ampezzo (UD), UM24, 839 m, 29.10.2001, peat bog, *Carex* sp. tufts, G. Tomasin leg.: 2 iuv. (955/2002)
- bank island in the T. Mea, Alta Val Torre, Lusevera (UD), UM62, 700 m, 05.VIII.1992, shrubs, G. Governatori leg.: 1 ♂ (943/2003)

- Valle del T. Vedronza, Alta Val Torre, Lusevera (UD), UM62, 330 m, 05.VIII.1992, mixed forest, G. Governatori leg.: 1 ♂ (1051/2003); *ibid.*, 05.VIII.1992, mixed forest, G. Governatori leg.: 2 ♂♂ (1061/2003); *ibid.*, 02.IX.1992, mixed forest, G. Governatori et C. Luppi leg.: 1 ♂ (1071/2003)
- Villanova, Lusevera (UD), UM62, ca. 620 m, 23.X.1997, in soil aside the road, G. Governatori leg.: 3 ♂♂, 4 ♀♀ (242/2003)
- Plan di Tapou, Alta Val Torre, Lusevera (UD), UM63, 875 m, 12.VII.1991, meadow, 5 pitfall traps, M. M. Giovannelli leg.: 2 ♂♂, 1 ♀ (998/2003); *ibid.*, 900 m, 26.VIII.-07.XI.1992, meadow, M. M. Giovannelli et C. Luppi leg.: 1 ♂ (961/2003); *ibid.*, 06.IX.1991, *Fagetum*, M. M. Giovannelli leg.: 1 ♂ (988/2003)
- surroundings of Casere Tacia, Alta Val Torre, Lusevera (UD), UM63, 840 m, 07.XI.1992, *Fagetum*, M. M. Giovannelli et C. Luppi leg.: 1 ♀ (1076/2003)
- Biotope Torbiera di Pramollo, Pontebba (UD), UM65, 1510 m, 05.V.-09.VI.2001, superior peat bog, pitfall traps (3/3), G. Colombetta leg.: 1 iuv. (965/2002)
- near Clen, Resia (UD), UM73, 940 m, 15.V.-19.VI.2001, pasture, pitfall traps, G. Governatori leg.: 1 ♀ (409/2003); *ibid.*, 1000 m, 15.V.-19.VI.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 ♂, 1 ♀ (361/2003); *ibid.*, 27.VI.-20.VIII.2001, pasture, pitfall traps, G. Governatori leg.: 3 ♂♂, 17 ♀♀ (431/2003)
- above Clen, between Casera Coot and Slatina superiore, Resia (UD), UM73, 940 m, 19.VI.-18.VII.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 4 ♀♀ (557/2003)
- Gran Monte, S side, Monteaperta, Taipana (UD), UM72, ca. 700 m, 10.IX.-10.X.1994, *Betuletum*-meadow, 3 pitfall traps, G. Governatori leg.: 1 ♂ (1021/2003); *ibid.*, 10.X.-04.XII.1994, secondary meadow, 4 pitfall traps, G. Governatori leg.: 1 iuv. (968/2003); *ibid.*, 04.XII.1994, *Betuletum*-meadow, 3 pitfall traps, G. Governatori leg.: 1 ♂ (1040/2003)
- loc. Iama near Clen, Resia (UD), UM73, 817 m, 26.IX.-30.X.2001, *Fagetum*, cone traps, G. Governatori et A. dall'Asta leg.: 1 ♂ (453/2003)
- Val Resia, Resia (UD), UM73, 1090 m, 16.VII.-20.VIII.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 4 ♂♂, 2 ♀♀ (419/2003)
- Sant'Anna di Carnizza, Resia (UD), UM73, 1060 m, 20.VII.-20.VIII.2001, pasture, pitfall traps, G. Governatori leg.: 1 ♂ (381/2003)
- Sella Carnizza, Resia (UD), UM73, 1080 m, 18.V.-19.VI.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 ♀ (353/2003); *ibid.*, 19.VI.-16.VII.2001, pitfall traps, A. dall'Asta leg.: 1 ♂, 4 ♀♀ (411/2003)
- Sella di Grubia, Canin Mts, Chiusaforte (UD), UM73, 2100 m, 28.VII.-27.VIII.2001, pasture, pitfall traps, G. Governatori leg.: 4 ♀♀ (680/2003); *ibid.*, 27.VIII.-16.X.2001, pasture, pitfall traps, G. Governatori leg.: 1 ♂ (565/2003); *ibid.*, 16.X.2001-16.VIII.2002, pasture, pitfall traps, C. Morandini leg.: 7 ♂♂, 17 ♀♀ (436/2003)
- Stavoli Gnivizza, Sella Carnizza, Resia (UD), UM73, 1070 m, 20.VII.-20.VIII.2001, pasture, pitfall traps, G. Governatori leg.: 9 ♂♂, 6 ♀♀ (340/2003); *ibid.*, 20.VIII.-27.IX.2001, pasture, pitfall traps: 2 ♀♀ (672/2003)
- Biotope Torbiera Scichizza, Tarvisio (UD), UM94, 842 m, 09.VI.2001, peat bog, emersed moss (sac 1), A. Zanetti, M. Zanetti, G. Tomasin, A. Tagliapietra et G. Governatori leg.: 1 iuv. (946/2002)
- Log pod Mangartom (Bretto), Slovenia, UM94, 700 m, 10.VIII.1978, F. Stergulec leg., inv. No. 5/9: 1 ♀ (1105/2003)

P. quadripunctatum is characteristic of wet and moderately moist, especially forest habitats, and non-forested regions with structured soils enabling hiding under stones, rotten wood, wet turf etc. (MARTENS, 1978; KOMPOSCH, 1997; NOVAK et al., 2002). The species also overwinters in caves (NOVAK et al., 1984).

Trogulidae (excl. *T. tricarinatus*- and *T. nepaeformis*-group)

Taxonomically, the genus *Trogulus* has been recognised as the most difficult of the European harvestmen (MARTENS, 1988). The taxonomical status of *T. tricarinatus*- and *T. nepaeformis*-group in particular has not been satisfactorily solved. Most data from the literature comply with more species, and the same is true for the ecology of these species, which often appear syntopically (Martens, in lit.; NOVAK et al., 2002; SCHÖNHOFER, 2004).

Anelasmaocephalus hadzii MARTENS, 1978

- Stavoli Tugliezzo, near the Rio Lavarie, Moggio Udinese (UD), UM53, 470 m, 26.IX.-30.X.2001, *Fagetum*, cone traps, G. Governatori et A. dall'Asta leg.: 1 ♂, 1 ♀ (447/2003)
- Stavoli Cuel Lung, Mt. Zovet, Moggio Udinese (UD), UM53, 600 m, 31.V.2002, *Fagetum*, Berlese funnels, A. dall'Asta et G. Governatori leg.: 1 ♀ (203/2003); *ibid.*, 27.VII.2002, *Fagetum*, Berlese funnels, A. dall'Asta leg.: 1 ♂ (204/2003)
- loc. Iama near Clen, Resia (UD), UM73, 817 m, 26.IX.-30.X.2001, *Fagetum*, cone traps, G. Governatori et A. dall'Asta leg.: 1 ♀ (455/2003)
- Gran Monte, S side, Monteaperta, Taipana (UD), UM72, ca. 700 m, 10.X.-04.XII.1994, meadow, 4 traps, G. Governatori leg.: 1 ♀, 1 iuv. (965/2003)
- between Malga Saisera and Rifugio Stuparich, Val Saisera (UD), UM84, 1330 m, 13.VII.-02.VIII.1989, on debris in a mixed hardwood forest, traps 11-12 VS, G. Governatori leg.: 1 ♂ (258/2003)

A. hadzii is native to the middle and eastern Alps and north-western Dinarids. The species inhabits soils, preferably those of beach forests (MARTENS, 1978; KOMPOSCH & GRUBER, 2004).

Trogulus closanicus AVRAM, 1971

- bank island in the T. Mea, Alta Val Torre, Lusevera (UD), UM62, 700 m, 07.XI.1992, shrubs, G. Governatori leg.: 5 ♂♂, 4 ♀♀ (1088/2003)
- near Clen, Resia (UD), UM73, 940 m, 15.V.-19.VI.2001, pasture, pitfall traps, G. Governatori leg.: 1 ♂ (408/2003)
- Gran Monte, S side, Monteaperta, Taipana (UD), UM72, ca. 700 m, 10.IX.-10.X.1994, *Betuletum*-meadow, 3 traps, G. Governatori leg.: 1 ♂ (1023/2003)
- Passo di Tanamea, Alta Val Torre, Lusevera (UD), UM72, 1000 m, 07.XII.1992, *Fagetum*, G. Governatori leg.: 1 ♀ (951/2003); *ibid.*, 02.IX.1992, *Fagetum*, G. Governatori et C. Luppi leg.: 1 ♂ (940/2003)
- Log pod Mangartom (Bretto), Slovenia, UM94, 700 m, 10.VIII.1978, F. Stergulec leg., inv. No. 10/5: 1 ♂ (1092/2003), det. Chemini, 1984 (CHEMINI, 1984)

T. closanicus is an European species, living syntopically with morphologically similar *T. nepaeformis* in many localities (CHEMINI, 1984; KNOFLACH & THALER, 1994; KOMPOSCH & GRUBER, 2004). Since 1984 (CHEMINI, 1984) both they, and some further species detected within the *T. nepaeformis*-group (cf. SCHÖNHOFER, 2004), have been mismatched. *T. closanicus* lives in forests and in open grassland (KOMPOSCH & GRUBER, 2004). It is a more thermophilous and probably less moisture-tolerant species than *T. nepaeformis* (FREUDENTHALER, 2002, sec. KOMPOSCH & GRUBER, 2004).

Trogulus falcipenis KOMPOSCH, 2000

- Stavoli Cuel Lung alto, Mt. Zovet, Moggio Udinese (UD), UM53, 700 m, 15.V.-19.VI.2001, *Fagetum*, A. dall'Asta leg.: cf. 1 ♀ (378/2003)
- Passo di Tanamea, Alta Val Torre, Lusevera (UD), UM72, 1000 m, 02.IX.1992, *Fagetum*, G. Governatori et C. Luppi leg.: 2 ♂♂ (976/2003)

T. falcipenis is a southern Alpine-Dinaric species, living in different types of well structured deep soils, especially of beach forests, and in stone heaps (KOMPOSCH, 2000). This species is recorded in Italy for the first time.

Trogulus graecus DAHL, 1903

- Pilieri, Basilicata, Miglionico (MT), XE29, 13.IV.1977, G. P. Proscia leg., inv. No. 10/7: 6 ♂♂, 2 ♀♀ (1098/2003), the label added: *T. cfr. graecus* DAHL, det. Chemini, 1984

Although this species, inhabiting south-eastern Italy and some islands in the Ionian Sea, is morphologically closely related to *T. graecus*-specimens from the rest of Greece, there is a clear genetic difference between both taxa (SCHÖNHOFER, 2004). On the other hand, DAHL's (1903) description and ROEWER's (1923) figure of *T. graecus* conform to conditions in the population in southern Italy (BRIGNOLI, 1968), so this name should be kept for this population (SCHÖNHOFER, 2004), as had been done by CHEMINI (1994).

Trogulus tingiformis C. L. KOCH, 1847

- Stavoli Tugliezzo, near the Rio Lavarie, Moggio Udinese (UD), UM53, 470 m, 26.IX.-30.X.2001, *Fagetum*, cone traps, G. Governatori et A. dall'Asta leg.: cf. 1 ♀ (445/2003)
- surroundings of the Bivacco Marussich, Canin Mts, Chiusaforte (UD), UM73, 2040 m, 20.VI.2003, G. Tomasin leg.: 1 ♂ (924/2003)
- Sella di Grubia, Canin Mts, Chiusaforte (UD), UM73, 2100 m, 28.VII.-27.VIII.2001, pasture, pitfall traps, G. Governatori leg.: 6 ♂♂, 5 ♀♀ (682/2003)

The distribution area of this species is recognised as the Alpine-Dinaric-Carpathian area (MARTENS, 1978). This thermophilous euryoecic species (KOMPOSCH & GRUBER, 2004) presents some unresolved taxonomical problems; therefore future revisions are required.

Ischyropsalididae

Ischyropsalis adamii CANESTRINI, 1873

- Grotta Milogno, Calabria, Guardia Piemontese (CS), 31.VII.1978, C.S.I.F. (Circolo Speleologico e Idrologico Friulano) leg., inv. No. 5/8: 1 ♂ (8/2004)

This species inhabits the Apennines and the island of Sardinia. There are no reliable data about its ecology (MARTENS, 1969).

Ischyropsalis hellwigii hellwigii (PANZER, 1794)

- Biotope Torbiera Scichizza, Tarvisio (UD), UM94, 842 m, 02.IX.-12.X.2001, peat bog, pitfall traps (5/5), G. Colombetta leg.: 1 ♂, 2 ♀♀ (952/2002); *ibid.*, 843 m, 02.IX.-12.X.2001, pine forest, pitfall traps (3/3), G. Colombetta leg.: 1 ♂ (1006/2002)

This oligothermophilous polyhygrophilous middle European montane species prefers well structured forest habitats with stones, rotten wood and the like (MARTENS, 1965; 1969; 1978; KOMPOSCH & GRUBER, 2004). This is the first record of this species in Italy.

Ischyropsalis kollari C. L. KOCH, 1839

- Cima Verde, Montasio Mts, Val Saisera (UD), UM84, 1760 m, 27.VII.-25.VIII.1990, in a little snow valley, pitfall traps, G. Governatori leg.: 1 ♂, 1 ♀ (256/2003)
- northern slope of Canin Mts, Chiusaforte (UD), UM83, 1950 m, 28.VII.-27.VIII.2001, a scree near a snowfield, pitfall traps, G. Governatori leg.: 2 iuv. (384/2003); *ibid.*, 28.VII.-27.VIII.2001, pitfall traps, G. Governatori leg.: 1 ♂, 1 ♀ (414/2003)

This endemite of the eastern Alps lives in well structured montane and subalpine shrub habitats with stone blocks and rock fragments, tightly covered with mosses (MARTENS, 1969; 1978).

Ischyropsalis muellneri HAMANN, 1998

- Doviza cave (Cat. No. FR 70), Villanova, Lusevera (UD), UM62, 616 m, 01.II.1998, U. Sello leg.: 1 ♀ (331/2003)

I. muellneri is native to the Julian Alps and has not been found outside caves (NOVAK & GRUBER, 2000), although it would be expected also under deep embedded stones and in deep fissures of the epikarstic zone.

Phalangidae

Amilenus aurantiacus (SIMON, 1881)

- "E. Feruglio" cave (Cat. No. FR 2175), Villanova, Lusevera (UD), UM62, 18.I.1998, S. Turco leg.: 1 ♀ (241/2003)
- Grotta di Vedronza (Cat. No. FR 71), Lusevera (UD), UM62, 310 m, 20.XI.1997, ca. 20 m inside on the walls, G. Governatori leg.: 1 ♀ iuv. (249/2003)
- loc. Iama near Clen, Resia (UD), UM73, 817 m, 26.IX.-30.X.2001, *Fagetum*, cone traps, G. Governatori et A. dall'Asta leg.: 1 subad. ♀, 1 iuv. (457/2003)
- Inghiottoio dell'Arco Naturale (Cat. No. FR 538), Mineres, Clauzetto (UD), UM32, 570 m, 26.XI.1995, G. Governatori leg.: 1 subad. ♂, 1 subad. ♀ (247/2003)

A. aurantiacus is an Alpine-Dinaric montane species, that prefers to live in forests, and passes the winter diapause in hypogean fissure systems and caves (JEQUIER, 1964; BOURNE, 1978; MARTENS, 1978; NOVAK et al., 1984).

Dasylobus gestroi (THORELL, 1876)

- Gennargentu, Sardegna, 1400 m, 21.06.1976, C. Morandini leg., inv. No. 5/28: 1 ♂, 3 ♀♀ (9/2004)

D. gestroi is an endemic species from Sardinia (CHEMINI, 1994).

Dasylobus graniferus (CANESTRINI, 1871)

- Plan di Tapou, Alta Val Torre, Lusevera (UD), UM63, 875 m, 12.VII.1991, *Fagetum*, 5 pitfall traps, M. M. Giovannelli leg.: 1 ♀ (1001/2003)
- surroundings of Casere Tacia, Alta Val Torre, Lusevera (UD), UM63, 840 m, 12.VII.1991, *Fagetum*, M. M. Giovannelli leg.: 1 ♂, 1 ♀ (1012/2003); *ibid.*, 12.VII.1991, *Fagetum*, M. M. Giovannelli leg.: 3 ♀♀ (1028/2003)

The distributional area of this species is disjunctive, divided between the Apenninian-southern Alpine and Iberian sectors. The species is a forest inhabitant (KOMPOSCH & GRUBER, 2004).

Dicranopalpus gasteinensis DOLESCHALL, 1852

- surroundings of the Bivacco Marussich, Canin Mts, Chiusaforte (UD), UM73, 2040 m, 20.VI.2003, G. Tomasini leg.: 1 ♀ (923/2003)

According to MARTENS (1978), this Alpine native, which may also live in the Carpathian Mts, prefers the same habitat types in high altitudes as *Mitopus glacialis*, but it is not limited to calcareous rocks (*ibid.*), as stated by DI CAPORACCO (1938).

Lacinius dentiger (C. L. KOCH, 1847)

- Stavoli Tugliezzo, near the Rio Lavarie, Moggio Udinese (UD), UM53, 470 m, 26.IX.-30.X.2001, *Fagetum*, cone traps, G. Governatori et A. dall'Asta leg.: 2 ♀♀, 1 subad. (443/2003)
- Plan di Tapou, Alta Val Torre, Lusevera (UD), UM63, 875 m, 07.XII.1992, *Fagetum*, pitfall traps, M. M. Giovannelli et C. Luppi leg.: 1 ♀ (1017/2003)
- surroundings of Casere Tacia, Alta Val Torre, Lusevera (UD), UM63, 840 m, 26.VIII.1992, *Fagetum*, M. M. Giovannelli leg.: 4 ♀♀ (1054/2003); *ibid.*, 26.VIII.1992, *Fagetum*, M. M. Giovannelli leg.: 7 ♀♀ (1083/2003); *ibid.*, 07.XI.1992, *Fagetum*, M. M. Giovannelli leg.: 5 ♀♀ (1075/2003)
- Eremo di Camaldoli, Toscana, Poppi (AR), QP25, 1100 m, 25.VIII.1977, L. Lapini leg., inv. No. 5/23: 1 ♀ (1124/2003)

In Central Europe, *L. dentiger* inhabits light forests and is frequent in parks and gardens, often on stone and brick walls (MARTENS, 1978; KOMPOSCH, 1999). In the Alps, the species is thermophilous (KOMPOSCH & GRUBER, 2004), while in Slovenian settlements it prefers colder, shady places (NOVAK et al., 2002).

Lacinius ephippiatus (C. L. KOCH, 1835)

- Biotope Magredi di San Quirino, San Quirino (UD), UM20, 102 m, 15.V.-14.VI.2001, arid land, pitfall traps (5/5), G. Colombetta leg.: 1 iuv. (962/2002)

- Stavoli Cuel Lung alto, Mt. Zovet, Moggio Udinese (UD), UM53, 700 m, 16.VII.-20.VIII.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 ♀ (399/2003)
- bank island in the T. Mea, Alta Val Torre, Lusevera (UD), UM62, 700 m, 02.IX.1992, shrubs, G. Governatori et C. Luppi leg.: 1 ♀ (972/2003)
- Plan di Tapou, Alta Val Torre, Lusevera (UD), UM63, 875 m, 12.VII.1991, *Fagetum*, 5 pitfall traps, M. M. Giovannelli leg.: 1 subad., 2 iuv. (1002/2003); *ibid.*, 26.VIII.1991, meadow, M. M. Giovannelli leg.: 3 ♂♂, 1 ♀ (932/2003); *ibid.*, 26.VIII.-07.XI.1992, meadow, M. M. Giovannelli et C. Luppi leg.: 1 ♂, 4 ♀♀, 3 iuv. (963/2003); *ibid.*, 06.IX.1991, meadow, M. M. Giovannelli leg.: 1 ♂, 1 subad. (997/2003); *ibid.*, 900 m, 06.IX.1991, *Fagetum*, M. M. Giovannelli leg.: 6 ♂♂, 2 ♀♀ (991/2003)
- surroundings of Casere Tacia, Alta Val Torre, Lusevera (UD), UM63, 840 m, 06.IX.1991, *Fagetum*, M. M. Giovannelli leg.: 4 ♂♂, 13 ♀♀ (986/2003); *ibid.*, *Fagetum*, M. M. Giovannelli leg.: 1 ♂, 15 ♀♀ (1045/2003); *ibid.*, 12.VII.1991, *Fagetum*, M. M. Giovannelli leg.: 1 ♀, 13 subad. (1015/2003); *ibid.*, 12.VII.1991, *Fagetum*, 5 pitfall traps, M. M. Giovannelli leg.: 7 ♀♀, 7 subad., 4 iuv. (1030/2003); *ibid.*, 06.IX.1991, *Fagetum*, M. M. Giovannelli leg.: 7 ♂♂, 32 ♀♀, 2 iuv. (1037/2003); *ibid.*, 26.VIII.1992, *Fagetum*, M. M. Giovannelli leg.: 1 ♂ (1053/2003); *ibid.*, 07.XI.1992, *Fagetum*, M. M. Giovannelli et C. Luppi leg.: 2 ♂♂, 4 ♀♀ (1079/2003)
- Passo di Tanamea, Alta Val Torre, Lusevera (UD), UM72, 1000 m, 02.IX.1992, *Fagetum*, G. Governatori et C. Luppi leg.: 4 ♂♂, 14 ♀♀ (979/2003); *ibid.*, 02.IX.1992, G. Governatori leg.: 1 ♂ (994/2003); *ibid.*, 02.IX.1992, G. Governatori leg.: 6 ♂♂, 25 ♀♀ (1070/2003); *ibid.*, 1050 m, 02.IX.1992, G. Governatori et C. Luppi leg.: 1 ♀ (939/2003)
- between Berdo di Sopra and Rio Malidul, Resia (UD), UM73, 1260 m, 12.VI.2003, G. Tomasini, P. Glerean et F. Tami leg.: 4 iuv. (920/2003)
- near Clen, Resia (UD), UM73, 940 m, 20.VIII.-5.V.-19.VI.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 8 iuv. (365/2003); *ibid.*, 27.VI.-20.VIII.2001, pasture, pitfall traps, G. Governatori leg.: 4 ♂♂, 9 ♀♀, 1 iuv. (433/2003)
- above Clen, between Casera Coot and Slatina superiore, Resia (UD), UM73, 950 m, 08.VII.2002, *Fagetum*, Berlese funnels, A. dall'Asta leg.: 1 ♀ (254/2003); *ibid.*, 1000 m, 19.VI.-18.VII.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 14 ♂♂, 105 ♀♀, 19 iuv. (553/2003); *ibid.*, 18.VII.-20.VIII.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 187 ♂♂, 303 ♀♀ (534/2003); *ibid.*, 20.VIII.-26.IX.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 37 ♂♂, 13 ♀♀, 1 iuv. (562/2003); *ibid.*, 26.IX.-30.X.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 ♂, 1 ♀ (345/2003)
- loc. Iama near Clen, Resia (UD), UM73, 817 m, 19.VI.2002, *Fagetum*, Berlese funnels, G. Governatori leg.: 1 iuv. (233/2003); *ibid.*, 26.IX.-30.X.2001, *Fagetum*, cone traps, G. Governatori et A. dall'Asta leg.: 19 ♂♂, 1 ♀ (463/2003)
- surroundings of Casera Malicuc, Valle di Ucea, Resia (UD), UM73, 760 m, 20.VII.-20.VIII.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 3 ♀♀ (391/2003); *ibid.*, 20.VIII.-27.IX.2001, *Fagetum*, pitfall traps, A. dall'Asta leg.: 1 ♀ (390/2003)
- Val Resia, Resia (UD), UM73, 1090 m, 16.VII.-20.VIII.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 10 ♂♂, 21 ♀♀ (423/2003)
- Sella Carnizza, Resia (UD), UM73, 1090 m, 19.VI.-16.VII.2001, pitfall traps, A. dall'Asta leg.: 2 ♀♀, 3 iuv. (413/2003); *ibid.*, 20.VIII.-27.IX.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 ♂ (369/2003); *ibid.*, 1200-1300 m, 26.VI.2003, *Fagetum*, P. Glerean leg.: 1 ♂, 1 subad. ♂ (906/2003)
- Biotope Torbiera Scichizza, Tarvisio (UD), UM94, 843 m, 02.IX.-12.X.2001, pine forest, pitfall traps (3/3), G. Colombetta leg.: 1 ♂, 2 ♀♀ (1009/2002)

L. ephippiatus is a European species, most common in Atlantic Europe (MARTENS, 1978), but extending its range up to Ural Mts (FARZALIEVA & ESYUNIN, 1999).

Lacinius horridus (PANZER, 1794)

- Valle del T. Mea, Lusevera (UD), UM62, 470 m, 19.XI.2000, pitfall traps, G. Governatori leg.: 1 ♀ (230/2003)
- near Clen, Resia (UD), UM73, 940 m, 20.VIII.-30.X.2001, pasture, cone traps, G. Governatori leg.: 2 ♀♀ (546/2003)
- loc. Iama near Clen, Resia (UD), UM73, 817 m, 28.VIII.-26.IX.2001, pasture, cone traps, A. dall'Asta leg.: 1 ♂ (237/2003)

L. horridus is a south-eastern European-Mediterranean thermophilous xerophilous species, inhabiting light forest as well as open habitats, including anthropogenous ones (MARTENS, 1978).

Lophopilio palpinalis (HERBST, 1799)

- Biotope Risorgive di Zarnicco, Rivignano (UD), UL58, 13 m, 10.V.-19.VI.2001, bank forest and peat bog, *Schoenus nigricans* tufts, *Alnetum glutinosae*, near the trees, G. Colombetta leg.: 4 iuv. (1118/2002); ibid., 04.IX.-16.X.2001, bank forest, pitfall traps (5/5), G. Colombetta leg.: 1 ♀, 1 subad. (1051/2002)
- Biotope Risorgive di Virco, Bertiole (UD), UL58, 23 m, 31.III.2001, humid *Alnetum glutinosae*, A. Zanetti, A. Tagliapietra, G. Tomasin et G. Governatori leg.: 1 iuv. (1042/2002); ibid., 10.V.-19.VI.2001, humid forest, pitfall traps (3/3), G. Colombetta leg.: 1 iuv. (1020/2002); ibid., 10.V.-19.VI.2001, peat bog, pitfall traps (3/3), G. Colombetta leg.: 1 iuv. (1049/2002)
- Biotope Palude Fraghis, Porpetto (UD), UL68, 8 m, 15.V.-26.VI.2001, *Phragmitetum*, *Alnetum glutinosae*, at the base of *Alnus* plants, pitfall traps (3/3), G. Colombetta leg.: 4 iuv. (1106/2002); ibid., 04.IX.-17.X.2001, peat bog, pitfall traps (3/3), G. Colombetta leg.: 1 ♂, 1 ♀, 1 subad. (988/2002)
- Biotope Palude di Cima Corso, Ampezzo (UD), UM24, 839 m, 06.IX.-12.X.2001, peat bog, pitfall traps (3/3), G. Colombetta leg.: 1 ♀ (950/2002); ibid., 06.IX.-12.X.2001, pitfall traps (4/4), G. Colombetta leg.: 1 ♂, 2 ♀♀ (969/2002)
- Biotope Torbiera di Curiedi, NW the hill, Tolmezzo (UD), UM44, 851 m, 10.VI.2001, *Carex* sp. tufts, A. Zanetti, M. Zanetti, A. Tagliapietra, G. Tomasin et G. Governatori leg.: 1 pullus (1080/2002); ibid., 06.IX.-12.X.2001, pitfall traps (3/3), G. Colombetta leg.: 1 ♀ (967/2002); ibid., SE the hill, 853 m, 06.IX.-12.X.2001, pitfall traps (3/3), G. Colombetta leg.: 2 ♂♂, 9 ♀♀, 1 subad. (942/2002); ibid., 02.V.-10.VI.2001, pitfall traps (3/3), G. Colombetta leg.: 1 iuv. (1025/2002); ibid., NW the hill, 874 m, 02.V.-10.VI.2001, pitfall traps (3/3), G. Colombetta leg.: 1 iuv. (1057/2002); ibid., 06.IX.-12.X.2001, pitfall traps (1/3), G. Colombetta leg.: 1 subad. (993/2002)
- Biotope Prati di Col San Floreano, Rive d'Arcano (UD), UM51, 180 m, 15.V.-21.VI.2001, humid meadow, pitfall traps (5/5), G. Colombetta leg.: 3 iuv. (1069/2002)
- Biotope Prati umidi di Quadris, Fagagna (UD), UM51, 171 m, 12.IV.2001, humid forest, *Quercetum roburis*, A. Zanetti, M. Zanetti, G. Tomasin, A. Tagliapietra et G. Governatori leg.: 1 iuv. (943/2002); ibid., 171 m, 08.IX.-14.X.2001, pitfall traps (3/3), G. Colombetta leg.: 2 ♀♀ (1033/2002); ibid., 15.V.-21.VI.2001, peat bog, pitfall traps (3/3), G. Colombetta leg.: 1 iuv. (1124/2002); ibid., 08.IX.-14.X.2001, peat bog, pitfall traps (3/3), G. Colombetta leg.: 4 ♂♂, 14 ♀♀ (1036/2002)
- Biotope Torbiera di Lazzacco, Moruzzo (UD), UM51, 184 m, 10.V.-21.VI.2001, western peat bog, pitfall traps (3/3), G. Colombetta leg.: 13 iuv. (990/2002); ibid., 08.IX.2001-06.X.2001, pitfall traps (3/3), G. Colombetta leg.: 7 ♀♀ (971/2002); ibid., 188 m, 12.IV.2001, western forest, *Quercus robur*, *Alnus glutinosa*, A. Zanetti, M. Zanetti, G. Tomasin, A. Tagliapietra et G. Governatori leg.: 3 iuv. (1102/2002)

- Biotope Torbiera di Borgo Pegoraro, Moruzzo (UD), UM50, 185 m, 15.V.2001, forest, pitfall traps (3/3), G. Colombetta leg.: 1 iuv. (1016/2002)
- Biotope Torbiera di Lazzacco, Pagnacco (UD), UM51, 195 m, 08.IX.-06.X.2001, eastern forest, pitfall traps (3/3), G. Colombetta leg.: 2 ♀♀ (1002/2002)
- Stavoli Cuel Lung alto, Mt. Zovet, Moggio Udinese (UD), UM53, 700 m, 26.IX.-30.X.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 ♀ (334/2003); ibid., 20.VIII.-26.IX.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 3 ♀♀ (428/2003)
- Stavoli Tugliezzo, near the Rio Lavarie, Moggio Udinese (UD), UM53, 470 m, 19.VI.-16.VII.2001, *Fagetum*, pitfall traps, A. dall'Asta leg.: 1 iuv. (224/2003); ibid., 26.IX.-30.X.2001, *Fagetum*, cone traps, G. Governatori et A. dall'Asta leg.: 6 ♀♀, 4 subad. (450/2003)
- Biotope Risorgive di Flambro, Talmassons (UD), UM58, 21 m, 10.V.-19.VI.2001, peat bog, pitfall traps (5/5), G. Colombetta leg.: 1 iuv. (984/2002); ibid., 04.IX.-16.X.2001, peat bog, pitfall traps (4/5), G. Colombetta leg.: 1 ♀ (983/2002)
- bank island in the T. Mea, Alta Val Torre, Lusevera (UD), UM62, 700 m, 05.VIII.1992, shrubs, G. Governatori leg.: 8 iuv. (947/2003); ibid., 02.IX.1992, G. Governatori et C. Luppi leg.: 1 subad., 1 iuv. (973/2003)
- Valle del T. Mea, Lusevera (UD), UM62, 470 m, 19.XI.2000, pitfall traps, G. Governatori leg.: 1 ♂, 3 ♀♀ (231/2003)
- surroundings of Casere Tacina, Alta Val Torre, Lusevera (UD), UM63, 840 m, 06.IX.1991, *Fagetum*, M. M. Giovannelli leg.: 1 iuv. (1038/2003); ibid., 26.VIII.1992, *Fagetum*, M. M. Giovannelli leg.: 2 ♂♂, 2 ♀♀ (1058/2003); ibid., 26.VIII.1992, *Fagetum*, M. M. Giovannelli leg.: 2 ♂♂, 1 ♀ (1086/2003); ibid., 07.XI.1992, *Fagetum*, M. M. Giovannelli et C. Luppi leg.: 1 ♂, 2 ♀♀ (1080/2003)
- Plan di Tapou, Alta Val Torre, Lusevera (UD), UM63, 875 m, 1991, *Fagetum*, pitfall traps, M. M. Giovannelli leg.: 2 iuv. (974/2003); ibid., 06.IX.1991, *Fagetum*, M. M. Giovannelli leg.: 1 iuv. (989/2003)
- near Clen, Resia (UD), UM73, 940 m, 20.VIII.-30.X.2001, pasture, cone traps, G. Governatori leg.: 2 ♂♂, 1 ♀ (547/2003)
- above Clen, between Casera Coot and Slatina superiore, Resia (UD), UM73, 940 m, 26.IX.-30.X.2001, pasture, pitfall traps, G. Governatori leg.: 1 ♀ (357/2003); ibid., 1000 m, 15.V.-19.VI.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 101 iuv. (363/2003); ibid., 26.IX.-30.X.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 ♀ (346/2003)
- loc. Iama near Clen, Resia (UD), UM73, 950 m, 26.IX.-30.X.2001, *Fagetum*, cone traps, G. Governatori et A. dall'Asta leg.: 2 ♂♂ (462/2003)
- surroundings of Casera Malicuc, Valle di Uccia, Resia (UD), UM73, 760 m, 20.VII.-20.VIII.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 14 iuv. (392/2003); ibid., 20.VIII.-27.IX.2001, *Fagetum*, pitfall traps, A. dall'Asta leg.: 3 ♂♂, 23 ♀♀, 6 iuv. (389/2003); ibid., 27.IX.-30.X.2001, *Fagetum*, pitfall traps, A. dall'Asta leg.: 1 ♂ (339/2003)
- Val Resia, Resia (UD), UM73, 1090 m, 16.VII.-20.VIII.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 2 iuv. (426/2003)
- Sant'Anna di Carnizza, Resia (UD), UM73, 1060 m, 18.V.-19.VI.2001, pasture, pitfall traps, G. Governatori leg.: 3 iuv. (407/2003); ibid., 20.VIII.-27.IX.2001, pasture, pitfall traps, A. dall'Asta leg.: 2 ♀♀ (417/2003); ibid., 1086 m, 27.IX.-30.X.2001, pasture, pitfall traps, G. Governatori leg.: 2 ♂♂ (351/2003)
- Sella Carnizza, Resia (UD), UM73, 1080 m, 18.V.-19.VI.2001, *Fagetum*, pitfall traps, G. Governatori et A. dall'Asta leg.: 18 iuv. (239/2003); ibid., 1090 m, 18.V.-19.VI.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 2 iuv. (354/2003); ibid., 20.VIII.-27.IX.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 3 ♀♀ (368/2003)
- Stavoli Gnivizza, Sella Carnizza, Resia (UD), UM73, 1070 m, 20.VII.-20.VIII.2001, pasture, pitfall traps, G. Governatori leg.: 36 iuv. (343/2003); ibid., 20.VIII.-27.IX.2001, pasture, pitfall traps, G.

- Governatori leg.: 31 ♂♂, 114 ♀♀ (678/2003); *ibid.*, 27.IX.-30.X.2001, pasture, pitfall traps, G. Governatori leg.: 49 ♂♂, 68 ♀♀ (543/2003)
- Biotope Torbiera Scichizza, Tarvisio (UD), UM94, 843 m, 05.V.-09.VI.2001, pine forest, pitfall traps (3/3), G. Colombetta leg.: 4 iuv. (959/2002); *ibid.*, 842 m, 02.IX.-12.X.2001, pine forest, pitfall traps (5/5), G. Colombetta leg.: 2 ♂♂, 6 ♀♀ (953/2002); *ibid.*, 843 m, 02.IX.-12.X.2001, pine forest, pitfall traps (3/3), G. Colombetta leg.: 4 ♂♂, 19 ♀♀ (1008/2002); *ibid.*, 844 m, 02.IX.-12.X.2001, humid meadow, pitfall traps (3/3), G. Colombetta leg.: 2 ♂♂, 2 ♀♀ (1005/2002)

L. palpinalis is a (Central) European-(sub)Atlantic species, inhabiting different habitats with moderate humidity (MARTENS, 1978; KOMPOSCH & GRUBER, 2004).

Megabunus armatus (KULCZYŃSKI, 1887)

- surroundings of the Bivacco Marussich, Canin Mts, Chiusaforte (UD), UM73, 2040 m, 20.VI.2003, G. Tomasin leg.: 1 ♂ (928/2003)
- between Rifugio Gilberti and Bivacco Marussich, Canin Mts, Chiusaforte (UD), UM83-UM73, 1850-2040 m, 21.VI.2003, G. Tomasin leg.: 2 ♀♀ (929/2003)

M. armatus is native to the Southern Calcareous Alps, living on vertical rocks and in other stony habitats (MARTENS, 1978; KOMPOSCH, 1998; KOMPOSCH & GRUBER, 2004).

Metaphalangium cirtanum (C. L. KOCH, 1839)

- Fonni (NU), Central Sardinia, NK41, 1000 m, 25.VIII.1976, C. Morandini leg., inv. No. 5/19: 1 ♀ (1123/2003); *ibid.*, 25.VIII.1976, C. Morandini leg., inv. No. 5/18: 1 ♀ (1114/2003)
- Mt. Sant'Angelo, Puglia, Foggia, 16.-22.V.1980, L. Lapini leg., inv. No. 5/16: 1 ♀ (4/2004)

M. cirtanum is a thermophilous xerophilous Mediterranean species (MARTENS, 1978).

Mitopus glacialis (HEER, 1845)

- surroundings of the Bivacco Marussich, Canin Mts, Chiusaforte (UD), UM73, 2040 m, 20.VI.2003, G. Tomasin leg.: 1 ♂, 3 ♀♀ (926/2003)

M. glacialis is an alpine species native to the Alps, living on rocky walls and in rock-block heaps (MARTENS, 1978; KOMPOSCH & GRUBER, 2004).

Mitopus morio (FABRICIUS, 1779)

- Sappada (BL), Veneto, UM25-UM26, 1300 m, 21.VII.1977, C. Morandini leg., inv. No. 5/4: 1 ♀, 1 subad. ♀, 1 iuv. (1104/2003); *ibid.*, 10.-30.VII.1977, C. Morandini leg., inv. No. 5/3: 2 subad. ♀♀ (1108/2003)
- Cansiglio (BL), Veneto, 22.VII.1978, F. Stergule leg., inv. No. 5/1: 1 iuv. (1100/2003); *ibid.*, 22.VII.1978, F. Stergule leg., inv. No. 5/20: 1 subad. ♀ (1103/2003); *ibid.*, 22.VII.1978, F. Stergule leg., inv. No. 5/32: 1 ♀, 2 subad. ♀♀, 1 iuv. (1107/2003)
- between Stalle Parigina and Stalla Pustrin, Val Settimana, Claut (PN), UM02, 650 m, 17.VI.-01.VII.2002, *Fagetum*, pitfall traps, A. dall'Asta leg.: 1 iuv. (275/2003)
- Casera Casavento, Alta Val Cellina, Claut (PN), UM12, 950 m, 02.V.-16.V.2002, pasture, pitfall

- traps, A. dall'Asta leg.: 1 iuv. (277/2003); *ibid.*, 02.V.-16.V.2002, *Fagetum*, pitfall traps, A. dall'Asta leg.: 4 iuv. (317/2003); *ibid.*, 16.V.-30.V.2002, pasture, pitfall traps, A. dall'Asta leg.: 2 iuv. (261/2003); *ibid.*, 16.V.-30.V.2002, *Fagetum*, pitfall traps, A. dall'Asta leg.: 2 iuv. (279/2003)
- Pian de Cea, Alta Val Cellina, Claut (PN), UM12, 930 m, 30.V.-17.VI.2002, *Fagetum*, pitfall traps, A. dall'Asta leg.: 4 iuv. (288/2003)
- Biotope Magredi di San Quirino, San Quirino (UD), UM20, 102 m, 15.V.-14.VI.2001, arid land, pitfall traps (5/5), G. Colombetta leg.: 2 iuv. (963/2002)
- dintorni di Ampezzo (UD), UM24, 1660 m, 07.VII.1978, C. Morandini leg., inv. No. 5/24: 1 subad. ♀ (1109/2003)
- Plan di Tapou, Alta Val Torre, Lusevera (UD), UM63, 875 m, 12.VII.1991, *Fagetum*, 5 pitfall traps, M. M. Giovannelli leg.: 1 iuv. (1003/2003); *ibid.*, 06.IX.1991, meadow, M. M. Giovannelli leg.: 1 ♀ (996/2003); *ibid.*, 900 m, 07.XII.1992, *Fagetum*, pitfall traps, M. M. Giovannelli et C. Luppi leg.: 2 ♀♀ (1016/2003); *ibid.*, 26.VIII.1992, *Fagetum*, M. M. Giovannelli leg.: 1 ♀, 2 iuv. (952/2003)
- surroundings of Casere Tacia, Alta Val Torre, Lusevera (UD), UM63, 840 m, 06.IX.1991, *Fagetum*, M. M. Giovannelli leg.: 1 ♂, 1 iuv. (1014/2003); *ibid.*, 12.VII.1991, 5 pitfall traps, M. M. Giovannelli leg.: 2 subad., 4 iuv. (1029/2003); *ibid.*, 26.VIII.1992, *Fagetum*, M. M. Giovannelli leg.: 1 ♀ (1055/2003); *ibid.*, 26.VIII.1992, *Fagetum*, M. M. Giovannelli leg.: 2 ♀♀ (1084/2003); *ibid.*, 06.IX.1991, *Fagetum*, M. M. Giovannelli leg.: 1 ♀ (1033/2003); *ibid.*, 07.XI.1992, *Fagetum*, M. M. Giovannelli et C. Luppi leg.: 1 ♀ (1078/2003)
- Biotope Torbiera di Pramollo, Pontebba (UD), UM65, 1510 m, 05.V.-09.VI.2001, superior peat bog, pitfall traps (3/3), G. Colombetta leg.: 11 iuv. (964/2002); *ibid.*, 1518 m, 09.VI.-21.VII.2001, superior peat bog, pitfall traps (4/5), G. Colombetta leg.: 3 iuv. (949/2002); *ibid.*, 02.IX.-12.X.2001, pitfall traps (4/5), G. Colombetta leg.: 2 ♂♂ (975/2002)
- Passo di Tanamea, Alta Val Torre, Lusevera (UD), UM72, 1000 m, 02.IX.1992, *Fagetum*, G. Governatori et C. Luppi leg.: 1 ♀ (978/2003); *ibid.*, 02.IX.1992, *Fagetum*, G. Governatori et C. Luppi leg.: 2 iuv. (992/2003); *ibid.*, 2 iuv. (1068/2003); *ibid.*, 1050 m, 02.IX.1992, *Fagetum*, G. Governatori et C. Luppi leg.: 1 ♀ (938/2003)
- between Berdo di Sopra and Rio Malidul, Resia (UD), UM73, 1260 m, 12.VI.2003, G. Tomasin, P. Glerean et F. Tami leg.: 2 iuv. (919/2003)
- northern slope of Canin Mts, Chiusaforte (UD), UM83, 1950 m, 28.VII.-27.VIII.2001, a scree near a snowfield, pitfall traps, G. Governatori leg.: 2 ♀♀ (415/2003)
- near Clen, Resia (UD), UM73, 940 m, 15.V.-19.VI.2001, pasture, pitfall traps, G. Governatori leg.: 1 iuv. (410/2003); *ibid.*, 27.VI.-20.VIII.2001, pasture, pitfall traps, G. Governatori leg.: 2 ♂♂ (432/2003); *ibid.*, 20.VIII.-26.IX.2001, pasture, pitfall traps, A. dall'Asta leg.: 2 ♂♂, 5 ♀♀ (374/2003); *ibid.*, 1000 m, 15.V.-19.VI.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 22 iuv. (364/2003); *ibid.*, 20.VIII.-30.X.2001, pasture, cone traps, G. Governatori leg.: 9 ♂♂, 1 ♀ (545/2003)
- above Clen, between Casera Coot and Slatina superiore, Resia (UD), UM73, 1000 m, 19.VI.-18.VII.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 ♀, 6 iuv. (555/2003); *ibid.*, 18.VII.-20.VIII.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 2 ♂♂, 10 ♀♀ (536/2003); *ibid.*, 20.VIII.-26.IX.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 3 ♂♂, 33 ♀♀, 1 iuv. (561/2003)
- near Clen, Resia (UD), UM73, 950 m, 27.VI.2002, meadows, A. dall'Asta leg.: 2 iuv. (902/2003)
- loc. Iama near Clen, Resia (UD), UM73, 817 m, 26.IX.-30.X.2001, *Fagetum*, cone traps, G. Governatori et A. dall'Asta leg.: 26 ♂♂, 60 ♀♀ (451/2003)
- surroundings of the Bivacco Marussich, Canin Mts, Chiusaforte (UD), UM73, 2040 m, 20.VI.2003, G. Tomasin leg.: 6 iuv. (925/2003)
- between Rifugio Gilberti and Bivacco Marussich, Canin Mts, Chiusaforte (UD), UM83-UM73, 1850-2040 m, 21.VI.2003, G. Tomasin leg.: 5 iuv. (930/2003)
- Piano del Prevala, Canin Mts, Chiusaforte (UD), UM83, 1940 m, 25.VI.-19.VII.1989, the upper plain, on stone accumulation, pitfall traps 11-13, G. Governatori leg.: 1 subad. (332/2003)

- Val Resia, Resia (UD), UM73, 1090 m, 16.VII.-20.VIII.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 iuv. (425/2003)
- Sant'Anna di Carnizza, Resia (UD), UM73, 1060 m, 18.V.-19.VI.2001, pasture, pitfall traps, G. Governatori leg.: 1 iuv. (405/2003)
- Sella Carnizza, Resia (UD), UM73, 1080 m, 18.V.-19.VI.2001, *Fagetum*, pitfall traps, G. Governatori et A. dall'Asta leg.: 4 iuv. (240/2003); *ibid.*, 1077 m, 14.VII.2002, meadow, A. dall'Asta leg.: 1 iuv. (900/2003)
- Sella di Grubia, Canin Mts, Chiusaforte (UD), UM73, 2100 m, 28.VII.-27.VIII. 2001, pasture, pitfall traps, G. Governatori leg.: 12 ♂♂, 101 ♀♀, 48 iuv. (679/2003); *ibid.*, 27.VIII.-16.X.2001, pasture, pitfall traps, G. Governatori leg.: 334 ♂♂, 535 ♀♀ (564/2003); *ibid.*, 16.X.2001-16.VIII.2002, pasture, pitfall traps, C. Morandini leg.: 55 ♂♂, 36 ♀♀, 5 iuv. (440/2003)
- western slopes of the Mt. Poviz, Sella Nevea (UD), UM83, 1250 m, fir-beechwood, pitfall traps 1-5, G. Governatori leg.: 1 ♂ (909/2003)
- Stavoli Gnivizza, Sella Carnizza, Resia (UD), UM73, 1070 m, 20.VIII.-27.IX.2001, pasture, pitfall traps, G. Governatori leg.: 2 ♂♂ (684/2003); *ibid.*, 27.IX.-30.X.2001, pasture, pitfall traps, G. Governatori leg.: 1 ♂ (539/2003)
- Biotope Torbiera Scichizza, Tarvisio (UD), UM94, 843 m, 05.V.-09.VI.2001, peat bog, pitfall traps (3/3), G. Colombetta leg.: 8 iuv. (958/2002)
- Laghi di Fusine, Tarvisio (UD), UM94, 900 m, M. M. Giovannelli leg., inv. No. 5/17: 1 ♂, 1 ♀ (1118/2003)
- Vallasco, Valdieri (CN), LQ70, 11.VIII.1976, C. Morandini leg., inv. No. 5/25: 1 ♂ (1111/2003)
- Passo di Pramollo, Pontebba (UD), UM65, 1600 m, 26.VIII.1978, L. Lapini leg., inv. No. 5/22: 1 ♂ (1120/2003)
- peak of Mt. Prestreljenik (= Mt. Forato), Canin Mts, Slovenia, UM83, 2499 m, 31.VIII.-22.IX.1989, upper plain, pitfall traps 19-22: 1 iuv. (333/2003)

This Holarctic euryoecic species inhabits many different habitats; in lowlands it prefers forests and in higher altitudes alpine shrubs (MARTENS, 1978).

Odiellus spinosus (Bosc, 1792)

- Valle Vecchia, Caorle (VE), UL45, 0-5 m, 15.-29.V.1999, *Phragmitetum*, pitfall traps 21-25, P. Glerean leg.: 1 iuv. (477/2003); *ibid.*, 15.-29.V.1999, depression between dunes, pitfall traps 11-15, P. Glerean leg.: 1 iuv. (526/2003); *ibid.*, 11.-26.VII.1999, *Phragmitetum*, pitfall traps 21-25, P. Glerean leg.: 1 subad. (525/2003); *ibid.*, 11.-26.VII.1999, drainage ditch, pitfall traps 26-30, P. Glerean leg.: 1 iuv. (521/2003); *ibid.*, 26.VIII.-09.IX.1999, drainage ditch, pitfall traps 26-30, P. Glerean leg.: 1 ♀ (490/2003); *ibid.*, 23.IX.-08.X.1999, littoral *Pinetum*, pitfall traps 6-10, P. Glerean leg.: 1 ♂ (467/2003); *ibid.*, 23.IX.-08.X.1999, depression between dunes, pitfall traps 11-15, P. Glerean leg.: 1 ♂, 1 ♀ (522/2003); *ibid.*, 08.-24.X.1999, *Pinetum*, pitfall traps 16-20, P. Glerean leg.: 1 ♀ (486/2003); *ibid.*, 05.-18.XII.1999, littoral sand dunes, pitfall traps 1-5, P. Glerean leg.: 1 ♀ (518/2003)
- Biotope Magredi di San Quirino, San Quirino (UD), UM20, 102 m, 08.IX.-14.X.2001, arid land, pitfall traps (5/5), G. Colombetta leg.: 9 ♂♂, 15 ♀♀, 2 subad. (1099/2002)

This thermophilous Atlanto-north Mediterranean species inhabits mostly open habitats (MARTENS, 1978).

Opilio dinaricus ŠILHAVÝ, 1938

- near Clen, Resia (UD), UM73, 940 m, 20.VIII.-26.IX.2001, pasture, pitfall traps, A. dall'Asta leg.: 1 ♂ (375/2003)

- Gran Monte, S side, Monteaperta, Taipana (UD), UM72, ca. 650 m, 10.X.1994, poor meadow on detritus, 5 traps, G. Governatori leg.: 5 ♂♂, 1 ♀ (935/2003)

This Central European (MARTENS, 1978) nocturnal species (KOMPOSCH, 1999; 2000) prefers deciduous forests and shrubs (KOMPOSCH & GRUBER, 2004).

Opilio transversalis ROEWER, 1956

- Valle Vecchia, Caorle (VE), UL45, 0-5 m, 12.-26.VIII.1999, *Phragmitetum*, pitfall traps 21-25, P. Glerean leg.: 1 ♀ (502/2003)
- Biotope Paludi del Corno, Gonars (UD), UL68, 16 m, 04.IX.-16.X.2001, peat bog, pitfall traps (2/3), G. Colombetta leg.: 1 ♀ (1117/2002)
- Biotope Palude Fraghis, Porpetto (UD), UL68, 8 m, 15.V.-26.VI.2001, *Phragmitetum*, *Alnetum glutinosae*, at the base of *Alnus* plants, pitfall traps (3/3), G. Colombetta leg.: cf. 1 iuv. (1108/2002)

This species is distributed from north-eastern Italy to Greece (GRUBER, 1984; MITOV, 2002). In Slovenia, it prefers warm, moist open shrubs and high grass.

Phalangium opilio LINNAEUS, 1758

- Valle Vecchia, Caorle (VE), UL45, 0-5 m, 15.-29.V.1999, littoral sand dunes, pitfall traps 1-5, P. Glerean leg.: 2 subad. (519/2003); *ibid.*, 15.-29.V.1999, littoral hind-dune, pitfall traps 6-10, P. Glerean leg.: 3 ♂♂, 1 ♀, 1 iuv. (488/2003); *ibid.*, 29.V.-13.VI.1999, littoral sand dunes, pitfall traps 1-5, P. Glerean leg.: 1 ♀ (473/2003); *ibid.*, 29.V.-13.VI.1999, littoral hind-dune, pitfall traps 6-10, P. Glerean leg.: 3 ♂♂ (472/2003); *ibid.*, 13.-26.VI.1999, littoral hind-dune, pitfall traps 6-10, P. Glerean leg.: 1 ♂ (499/2003); *ibid.*, 13.-26.VI.1999, drainage ditch, pitfall traps 26-30, P. Glerean leg.: 2 ♂♂, 1 ♀, 1 iuv. (505/2003); *ibid.*, 26.VI.-11.VII.1999, littoral sand dunes, pitfall traps 1-5, P. Glerean leg.: 2 ♀♀ (487/2003); *ibid.*, 26.VI.-11.VII.1999, drainage ditch, pitfall traps 26-30, P. Glerean leg.: 1 ♀ (517/2003); *ibid.*, 11.-26.VII.1999, littoral *Pinetum*, pitfall traps 16-20, P. Glerean leg.: 2 ♂♂, 4 ♀♀ (483/2003); *ibid.*, 26.VII.-12.VIII.1999, *Phragmitetum*, pitfall traps 21-25, P. Glerean leg.: 1 subad. ♂, 1 ♀ (511/2003); *ibid.*, 11.-26.VII.1999, drainage ditch, pitfall traps 26-30, P. Glerean leg.: 1 ♀, 1 iuv. (520/2003); *ibid.*, 26.VII.-12.VIII.1999, drainage ditch, pitfall traps 26-30, P. Glerean leg.: 1 ♀ (496/2003); *ibid.*, 12.-26.VIII.1999, drainage ditch, pitfall traps 26-30, P. Glerean leg.: 1 ♂, 1 subad., 1 iuv. (514/2003); *ibid.*, 26.VIII.-09.IX.1999, littoral sand dunes, pitfall traps 1-5, P. Glerean leg.: 2 ♀♀ (469/2003); *ibid.*, 26.VIII.-09.IX.1999, drainage ditch, pitfall traps 26-30, P. Glerean leg.: 3 ♂♂, 1 ♀ (489/2003); *ibid.*, 09.-23.IX.1999, littoral sand dunes, pitfall traps 1-5, P. Glerean leg.: 1 ♀, 1 iuv. (513/2003); *ibid.*, 09.-23.IX.1999, littoral hind-dune, pitfall traps 6-10, P. Glerean leg.: 1 ♂, 1 ♀ (516/2003); *ibid.*, 09.-23.IX.1999, drainage ditch, pitfall traps 26-30, P. Glerean leg.: 2 ♀♀ (508/2003); *ibid.*, 23.IX.-08.X.1999, drainage ditch, pitfall traps 26-30, P. Glerean leg.: 3 ♀♀, 1 iuv. (491/2003); *ibid.*, 23.IX.-08.X.1999, littoral *Pinetum*, pitfall traps 6-10, P. Glerean leg.: 4 ♂♂, 1 ♀ (468/2003); *ibid.*, 08.-24.X.1999, littoral hind-dune, pitfall traps 6-10, P. Glerean leg.: 3 ♂♂, 4 ♀♀ (504/2003); *ibid.*, 24.X.-07.XI.1999, littoral hind-dune, pitfall traps 6-10, P. Glerean leg.: 1 ♂ (494/2003); *ibid.*, 07.-22.XI.1999, littoral hind-dune, pitfall traps 6-10, P. Glerean leg.: 1 ♀ (481/2003)
- Biotope Magredi di San Quirino, San Quirino (UD), UM20, 102 m, 08.IX.-14.X.2001, arid land, pitfall traps (5/5), G. Colombetta leg.: 1 ♂, 1 ♀ (1097/2002)
- Biotope Torbiera di Lazzacco, Moruzzo (UD), UM51, 185 m, 08.IX.-16.X.2001, humid meadow, pitfall traps (3/4), G. Colombetta leg.: 1 ♂, 1 ♀ (1012/2002)
- Stavoli Cuel Lung, Moggio Udinese (UD), UM53, 600 m, 12.VII.2002, meadow, A. dall'Asta leg.: 1

- ♂, 1 subad. ♀ (896/2003); *ibid.*, 700 m, 20.VIII.-26.IX.2001, pasture, pitfall traps, G. Governatori leg.: 1 ♂ (360/2003); *ibid.*, 740 m, 15.V.-19.VI.2001, pasture, pitfall traps, G. Governatori leg.: 7 iuv. (383/2003); *ibid.*, 17.VII.2003, G. Tomasin, P. Glerean et F. Tami leg.: 2 ♂♂, 3 ♀♀, 3 iuv. (912/2003); *ibid.*, 20.VII.-20.VIII.2002, pasture, pitfall traps, G. Governatori leg.: 3 ♀♀ (373/2003); *ibid.*, slopes of Mt. Zovet, 09.VII.2002, A. dall'Asta leg.: 1 subad. ♂ (894/2003); *ibid.*, slopes of Mt. Zovet, 27.VII.2002, meadow, A. dall'Asta leg.: 1 ♂, 2 ♀♀ (897/2003)
- bank island in the T. Mea, Alta Val Torre, Lusevera (UD), UM62, 700 m, 05.VIII.1992, shrubs, G. Governatori leg.: 2 iuv. (948/2003)
- Casere Plan di Tapou, Lusevera (UD), UM63, 886 m, 24.VII.1985, meadow, F. Desio leg., inv. No. 32: 4 subad. (1113/2003)
- Plan di Tapou, Alta Val Torre, Lusevera (UD), UM63, 875 m, 26.VIII.1991, meadow, M. M. Giovannelli leg.: 4 ♂♂, 1 ♀ (931/2003); *ibid.*, 26.VIII.-07.XI.1992, meadow, M. M. Giovannelli et C. Luppi leg.: 5 ♂♂, 1 ♀ (959/2003); *ibid.*, 900 m, 06.IX.1991, *Fagetum*, M. M. Giovannelli leg.: 2 iuv. (990/2003)
- surroundings of Cepletischis, Savogna (UD), UM81, 570 m, 15.-29.VIII.1980, G. P. Proscia leg., inv. No. 5/26: 1 iuv. (1122/2003); *ibid.*, 15.-29.VIII.1980, G. P. Proscia leg., inv. No. 5/29: 1 ♀ (1102/2003)
- between Berdo di Sopra and Rio Malidul, Resia (UD), UM73, 1260 m, 12.VI.2003, G. Tomasin, P. Glerean et F. Tami leg.: 1 iuv. (922/2003)
- near Clen, Resia (UD), UM73, 940 m, 27.VI.-20.VIII.2001, pasture, pitfall traps, G. Governatori leg.: 2 ♂♂, 1 subad. ♂, 2 ♀♀, 3 iuv. (434/2003); *ibid.*, 20.VIII.-26.IX.2001, pasture, pitfall traps, A. dall'Asta leg.: 2 ♀♀ (376/2003); *ibid.*, 20.VIII.-30.X.2001, pasture, cone traps, G. Governatori leg.: 3 ♂♂, 9 ♀♀ (544/2003)
- above Clen, between Casera Coot and Slatina superiore, Resia (UD), UM73, 950 m, 08.VII.2002, *Fagetum*, Berlese funnels, A. dall'Asta leg.: 6 iuv. (253/2003); *ibid.*, 08.VII.2002, *Fagetum*, Berlese funnels, A. dall'Asta leg.: 2 ♀♀, 1 subad. (257/2003); *ibid.*, 11.VII.2002, meadow, A. dall'Asta leg.: 1 ♀, 2 subad. ♀♀, 1 iuv. (898/2003); *ibid.*, 23.VII.2002, meadow, A. dall'Asta leg.: 1 ♂, 1 ♀, 2 iuv. (895/2003)
- loc. Iama near Clen, Resia (UD), UM73, 817 m, 19.VI.-18.VII.2001, pasture, cone traps, A. dall'Asta leg.: 1 iuv. (235/2003); *ibid.*, 28.VIII.-26.IX.2001, pasture, cone traps, A. dall'Asta leg.: 2 ♀♀ (236/2003); *ibid.*, 26.IX.-30.X.2001, *Fagetum*, cone traps, G. Governatori et A. dall'Asta leg.: 1 ♂, 2 ♀♀ (452/2003)
- Sant'Anna di Carnizza, Resia (UD), UM73, 1060 m, 18.V.-19.VI.2001, pasture, pitfall traps, G. Governatori leg.: 5 iuv. (406/2003); *ibid.*, 27.IX.-30.X.2001, pasture, pitfall traps, G. Governatori leg.: 2 ♂♂ (348/2003)
- Sella Carnizza, Resia (UD), UM73, 1086 m, 18.VII.2002, A. dall'Asta leg.: 3 iuv. (250/2003); *ibid.*, 1077 m, 14.VII.2002, meadow, A. dall'Asta leg.: 2 ♀♀, 11 iuv. (899/2003)
- above Clen, Resia (UD), UM73, 950 m, 27.VI.2002, meadows, A. dall'Asta leg.: 2 iuv. (901/2003); *ibid.*, 19.VII.2002, meadows, A. dall'Asta leg.: 1 subad. ♂, 1 subad. ♀ (255/2003)
- Stvoli Gnivizza, Sella Carnizza, Resia (UD), UM73, 1070 m, 20.VII.-20.VIII.2001, pasture, pitfall traps, G. Governatori leg.: 5 ♂♂, 14 ♀♀, 13 iuv. (342/2003); *ibid.*, pasture, pitfall traps, G. Governatori leg.: 45 ♂♂, 49 ♀♀ (671/2003)
- Gran Monte, S side, Monteperta, Taipana (UD), UM72, ca. 700 m, 10.X.-04.XII.1994, secondary meadow, 4 traps, G. Governatori leg.: 3 ♂♂, 1 ♀ (966/2003)
- Log pod Mangartom (Bretto), Slovenia, UM94, 700 m, 10.VIII.1978, F. Stergulec leg., inv. No. 5/31: 1 ♀ (1099/2003)

Ph. opilio is widespread in western Palaearctic (MARTENS, 1978; KOMPOSCH & GRUBER, 2004). It inhabits open habitats, like meadows and moors, pastures, and different types of

anthropogenic habitats (MARTENS, 1978; KOMPOSCH, 1997; NOVAK et al., 2002). This typically synanthropic species ("Kulturfolger" sensu POVOLNÝ, 1963) is probably thermophilous, but not xerophilous (KUSCHKA, 1991).

Platybunus bucephalus (C. L. KOCH, 1835)

- Pian de Cea, Alta Val Cellina, Claut (PN), UM12, 930 m, 17.VI.-01.VII.2002, *Fagetum*, pitfall traps, A. dall'Asta leg.: 1 ♀ (285/2003); *ibid.*, 13.VII.-29.VII.2002, *Fagetum*, pitfall traps, A. dall'Asta et L. Lapini leg.: 1 iuv. (311/2003)
- Plan di Tapou, Alta Val Torre, Lusevera (UD), UM63, 875 m, 26.VIII.1992, *Fagetum*, M. M. Giovannelli leg.: 1 iuv. (954/2003)
- Biotope Torbiera di Pramollo, Pontebba (UD), UM65, 1510 m, 02.IX.-12.X.2001, superior peat bog, pitfall traps (3/3), G. Colombetta leg.: 1 iuv. (978/2002)
- Passo di Tanamea, Alta Val Torre, Lusevera (UD), UM72, 1000 m, 02.IX.1992, *Fagetum*, G. Governatori leg.: 1 ♂ (1067/2003)
- between Berdo di Sopra and Rio Malidul, Resia (UD), UM73, 1260 m, 12.VI.2003, G. Tomasin, P. Glerean et F. Tami leg.: 1 ♂ (918/2003)
- near Clen, Resia (UD), UM73, 1000 m, 15.V.-19.VI.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 2 ♂♂, 1 ♀ (362/2003)
- above Clen, between Casera Coot and Slatina superiore, Resia (UD), UM73, 1000 m, 19.VI.-18.VII.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 3 ♂♂, 1 ♀ (554/2003); *ibid.*, 18.VII.-20.VIII.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 ♀, 1 iuv. (535/2003)
- loc. Iama near Clen, Resia (UD), UM73, 817 m, 26.IX.-30.X.2001, *Fagetum*, cone traps, G. Governatori et A. dall'Asta leg.: 1 iuv. (459/2003)
- surroundings of the Bivacco Marussich, Canin Mts, Chiusaforte (UD), UM73, 2040 m, 20.VI.2003, G. Tomasin leg.: 1 ♀ (927/2003)
- Val Resia, Resia (UD), UM73, 1090 m, 16.VII.-20.VIII.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 ♀, 1 iuv. (424/2003)
- Sella Carnizza, Resia (UD), UM73, 1090 m, 19.VI.-16.VII.2001, *Fagetum*, pitfall traps, A. dall'Asta leg.: 1 ♂ (412/2003)
- Sella di Grubia, Canin Mts, Chiusaforte (UD), UM73, 2100 m, 28.VII.-27.VIII.2001, pasture, pitfall traps, G. Governatori leg.: 10 ♂♂, 3 ♀♀, 3 iuv. (681/2003); *ibid.*, 27.VIII.-16.X.2001, pasture, pitfall traps, G. Governatori leg.: 2 ♂♂, 1 ♀, 12 iuv. (567/2003); *ibid.*, 16.X.2001-16.VIII.2002, pasture, pitfall traps, C. Morandini leg.: 7 ♂♂, 10 iuv. (437/2003)
- mountain plain of Sella Nevea (UD), Alta Val Raccolana, UM73, 1130 m, 05.IX.-03.X.1990, *Fagetum*, pitfall traps 15-19, G. Governatori leg.: 1 iuv. (908/2003); *ibid.*, 02.XI.1990.-30.III.1991, *Fagetum*, pitfall traps 15-19, G. Governatori leg.: 4 iuv. (910/2003)
- western slopes of the Mt. Poviz, Sella Nevea (UD), UM83, 1250 m, 02.XI.1990.-30.III.1991, fir-beechwood, pitfall traps 1-5, G. Governatori leg.: 8 iuv. (911/2003); *ibid.*, 13.V.-14.VI.1991, G. Governatori leg.: 1 iuv. (259/2003); *ibid.*, 03.X.-02.XI.1990, fir-beechwood, pitfall traps 1-5, G. Governatori leg.: 2 iuv. (907/2003)
- Biotope Torbiera Scichizza, Tarvisio (UD), UM94, 843 m, 05.V.-09.VI.2001, pine forest, pitfall traps (3/3), G. Colombetta leg.: 1 iuv. (960/2002); *ibid.*, 842 m, 02.IX.-12.X.2001, peat bog, pitfall traps (5/5), G. Colombetta leg.: 1 iuv. (954/2002)
- Consiglio (BL), Veneto, 22.VII.1978, F. Stergulec leg., inv. No. 5/2: 1 ♂ (1112/2003)

P. bucephalus is a Central European and Balkan montane species, inhabiting forests and locally also alpine shrubs (MARTENS, 1978).

Platybunus pinetorum (C. L. KOCH, 1839)

- Sappada (BL), Veneto, UM25-UM26, 1300 m, 29.VI.1976, C. Morandini leg., inv. No. 5/21: 1 ♀ (1101/2003)

The distributional area of this oligothermophilous hygrophilous European montane species is disjunctive, it mostly inhabits deciduous and mixed forests (MARTENS, 1978).

Sclerosomatidae

Astrobus helleri (AUSSERER, 1867)

- Stavoli Tugliezzo, near the Rio Lavarie, Moggio Udinese (UD), UM53, 470 m, 19.VI.-16.VII.2001, *Fagetum*, pitfall traps, A. dall'Asta leg.: 1 iuv. (223/2003)
- Villanova, Lusevera (UD), UM62, ca. 620 m, 23.X.1997, in soil aside the road, G. Governatori leg.: 1 ♂ (243/2003)
- loc. Iama near Clen, Resia (UD), UM73, 817 m, 19.VI.-18.VII.2001, cone traps in meadow, A. dall'Asta leg.: 1 iuv. (234/2003); ibid., 26.IX.-30.X.2001, *Fagetum*, cone traps, G. Governatori et A. dall'Asta leg.: 1 ♀ (461/2003)
- Stavoli Cuel Lung alto, Mt. Zovet, Moggio Udinese (UD), UM53, 700 m, 22.VII.2002, *Fagetum*, A. dall'Asta leg.: 1 ♂ (251/2003); ibid., 16.VII.-20.VIII.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 2 ♂♂, 5 ♀♀ (398/2003); ibid., 20.VIII.-26.IX.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 ♀ (427/2003)
- between Stalle Parigina and Stalla Pustrin, Val Settimana, Claut (PN), UM02, 650 m, 02.V.-16.V.2002, *Fagetum*, pitfall traps, A. dall'Asta leg.: 2 ♂♂, 2 ♀♀ (295/2003); ibid., 16.V.-30.V.2002, *Fagetum*, pitfall traps, A. dall'Asta leg.: 1 ♂ (263/2003); ibid., 17.VI.-01.VII.2002, *Fagetum*, pitfall traps, A. dall'Asta leg.: 1 ♂, 8 iuv. (273/2003); ibid., 01.-13.VII.2002, *Fagetum*, pitfall traps, A. dall'Asta leg.: 2 iuv. (302/2003); ibid., 13.VII.-29.VII.2002, *Fagetum*, pitfall traps, A. dall'Asta et L. Lapini leg.: 1 ♂, 2 iuv. (268/2003)
- Pian de Cea, Alta Val Cellina, Claut (PN), UM12, 930 m, 17.VI.-01.VII.2002, *Fagetum*, pitfall traps, A. dall'Asta leg.: 3 iuv. (287/2003); ibid., 01.-13.VII.2002, *Fagetum*, pitfall traps, A. dall'Asta leg.: 4 iuv. (299/2003); ibid., 13.-29.VII.2002, *Fagetum*, pitfall traps, A. dall'Asta et L. Lapini leg.: 1 ♀, 1 iuv. (313/2003)
- Stavoli Tugliezzo, near the Rio Lavarie, Moggio Udinese (UD), UM53, 470 m, 26.IX.-30.X.2001, *Fagetum*, cone traps, G. Governatori et A. dall'Asta leg.: 4 ♂♂, 2 ♀♀ (449/2003)
- near Clen, Resia (UD), UM73, 940 m, 20.VIII.-30.X.2001, pasture, cone traps, G. Governatori leg.: 1 ♂, 2 ♀♀ (550/2003)
- Plan di Tapou, Alta Val Torre, Lusevera (UD), UM63, 875 m, 26.VIII.1992, *Fagetum*, M. M. Giovannelli leg.: 1 ♀ (957/2003); ibid., 07.XII.1992, *Fagetum*, pitfall traps, M. M. Giovannelli et C. Luppi leg.: 1 ♀ (1018/2003)
- surroundings of Casere Tacia, Alta Val Torre, Lusevera (UD), UM63, 840 m, 06.IX.1991, *Fagetum*, M. M. Giovannelli leg.: 1 ♀, 2 iuv. (1032/2003); ibid., 06.IX.1991, *Fagetum*, M. M. Giovannelli leg.: 2 ♂♂ (1044/2003); ibid., 12.VII.1991, *Fagetum*, M. M. Giovannelli leg.: 1 ♂, 1 ♀ (1013/2003); ibid., 26.VIII.1992, *Fagetum*, M. M. Giovannelli leg.: 2 ♂♂, 3 ♀♀ (1052/2003); ibid., 26.VIII.1992, *Fagetum*, M. M. Giovannelli leg.: 1 ♂, 1 ♀ (1085/2003); ibid., 07.XI.1992, *Fagetum*, M. M. Giovannelli et C. Luppi leg.: 4 ♀♀ (1077/2003)

A. helleri is a hygrophilous thermophilous Alpine and northwestern Dinaric native, preferring deciduous forests and shrubs (MARTENS, 1978; KOMPOSCH & GRUBER, 2004).

Astrobus laevipes CANESTRINI, 1872

- Valle Vecchia, Caorle (VE), UL45, 0-5 m, 15.-29.V.1999, *Pinetum*, pitfall traps 16-20, P. Glerean leg.: 1 ♂ (498/2003); ibid., 15.-29.V.1999, *Phragmitetum*, pitfall traps 21-25, P. Glerean leg.: 2 ♂♂, 9 iuv. (476/2003); ibid., 29.V.-13.VI.1999, *Pinetum*, pitfall traps 16-20, P. Glerean leg.: 1 iuv. (515/2003); ibid., 29.V.-29.VI.1999, *Phragmitetum*, pitfall traps 21-25, P. Glerean leg.: 6 iuv. (507/2003); ibid., 13.-26.VI.1999, depression between dunes, pitfall traps 11-15, P. Glerean leg.: 1 iuv. (527/2003); ibid., 08.-24.X.1999, drainage ditch, pitfall traps 26-30, P. Glerean leg.: 1 ♂ (479/2003); ibid., 08.-24.X.1999, *Pinetum*, pitfall traps 16-20, P. Glerean leg.: 3 ♂♂, 3 ♀♀ (485/2003); ibid., 23.IX.-08.X.1999, drainage ditch, pitfall traps 26-30, P. Glerean leg.: 1 ♂ (492/2003); ibid., 26.VIII.-09.IX.1999, *Phragmitetum*, pitfall traps 21-25, P. Glerean leg.: 2 ♂♂ (500/2003); ibid., 11.-26.VII.1999, *Pinetum*, pitfall traps 16-20, P. Glerean leg.: 4 ♂♂ (482/2003); ibid., 26.VI.-11.VII.1999, *Pinetum*, pitfall traps 16-20, P. Glerean leg.: 1 ♂ (506/2003); ibid., 26.VI.-11.VII.1999, *Phragmitetum*, pitfall traps 21-25, P. Glerean leg.: 4 subad. (510/2003); ibid., 26.VII.-12.VIII.1999, *Phragmitetum*, pitfall traps 21-25, P. Glerean leg.: 1 ♂ (512/2003); ibid., 26.VII.-12.VIII.1999, *Pinetum*, pitfall traps 16-20, P. Glerean leg.: 3 ♂♂, 1 ♀ (533/2003); ibid., 12.-26.VIII.1999, *Phragmitetum*, pitfall traps 21-25, P. Glerean leg.: 4 ♀♀ (503/2003); ibid., 09.-23.IX.1999, *Phragmitetum*, pitfall traps 21-25, P. Glerean leg.: 4 ♂♂, 3 ♀♀ (530/2003); ibid., 09.-23.IX.1999, drainage ditch, pitfall traps 26-30, P. Glerean leg.: 1 ♂ (509/2003); ibid., 23.IX.-08.X.1999, *Phragmitetum*, pitfall traps 21-25, P. Glerean leg.: 3 ♂♂, 1 ♀ (532/2003); ibid., 23.IX.-08.X.1999, depression between dunes, pitfall traps 11-15, P. Glerean leg.: 1 iuv. (523/2003); ibid., 08.X.-24.X.1999, *Phragmitetum*, pitfall traps 21-25, P. Glerean leg.: 2 ♀♀ (470/2003); ibid., 07.-22.XI.1999, *Pinetum*, pitfall traps 16-20, P. Glerean leg.: 1 ♂ (478/2003); ibid., 07.-22.XI.1999, littoral hind-dune, pitfall traps 6-10, P. Glerean leg.: 1 ♂ (480/2003); ibid., 09.IX.-23.XI.1999, *Pinetum*, pitfall traps 16-20, P. Glerean leg.: 1 ♀ (529/2003); ibid., 24.X.-07.XI.1999, *Phragmitetum*, pitfall traps 21-25, P. Glerean leg.: 3 ♂♂ (495/2003); ibid., 22.XI.-05.XII.1999, *Phragmitetum*, pitfall traps 21-25, P. Glerean leg.: 1 ♂ (471/2003); ibid., 22.XI.-05.XII.1999, *Pinetum*, pitfall traps 16-20, P. Glerean leg.: 6 ♂♂, 2 ♀♀ (474/2003); ibid., 08.XII.1999-03.I.2000, *Pinetum*, pitfall traps 16-20, P. Glerean leg.: 4 ♂♂, 1 ♀ (493/2003); ibid., 03.-16.I.2000, *Pinetum*, pitfall traps 16-20, P. Glerean leg.: 2 ♂♂ (464/2003); ibid., 03.-16.I.2000, *Pinetum*, pitfall traps 16-20, P. Glerean leg.: 1 ♂ (465/2003); ibid., 30.I.-20.II.2000, *Pinetum*, pitfall traps 16-20, P. Glerean leg.: 1 ♀ (466/2003); ibid., 05.-19.III.2000, *Pinetum*, pitfall traps 16-20, P. Glerean leg.: 1 ♀ (475/2003); ibid., 19.III.-02.IV.2000, *Pinetum*, pitfall traps 16-20, P. Glerean leg.: 1 ♂, 1 ♀ (484/2003)
- Biotope Risorgive di Virco, Bertiole (UD), UL58, 23 m, 10.V.-19.VI.2001, humid forest, pitfall traps (3/3), G. Colombetta leg.: 9 iuv. (1019/2002); ibid., humid forest, 23 m, 04.IX.-16.X.2001, pitfall traps (3/3), G. Colombetta leg.: 2 ♂♂, 2 ♀♀ (1064/2002)
- Biotope Paludi del Corno, Gonars (UD), UL68, 15 m, 04.IX.-17.X.2001, peat bog, pitfall traps (3/3), G. Colombetta leg.: 1 ♂ (1110/2002)
- Biotope Palude Fraghis, Porpetto (UD), UL68, 8 m, 04.IX.-17.X.2001, *Phragmitetum*, *Alnetum glutinosae*, at the base of *Alnus* plants, pitfall traps (3/3), G. Colombetta leg.: 4 ♀♀ (987/2002); ibid., 15.V.-26.VI.2001, forest, pitfall traps (3/3), G. Colombetta leg.: 1 ♀ (1060/2002); ibid., 04.IX.-17.X.2001, forest, pitfall traps (3/3), G. Colombetta leg.: 1 ♂, 2 ♀♀ (1076/2002)
- Biotope Palude del Fiume Cavana, Monfalcone (GO), UL87, 1 m, 20.V.-26.VI.2001, forest, pitfall traps (3/3), G. Colombetta leg.: 2 iuv., 1? (damaged) (1024/2002); ibid., 04.IX.-17.X.2001, pitfall traps (3/3), G. Colombetta leg.: 12 ♂♂, 14 ♀♀ (1030/2002)
- Biotope Magredi di San Quirino, San Quirino (UD), UM20, 102 m, 15.V.-14.VI.2001, arid land, pitfall traps (5/5), G. Colombetta leg.: 2 ♀♀, 1 iuv. (961/2002); ibid., 08.IX.-14.X.2001, arid land, pitfall traps (5/5), G. Colombetta leg.: 21 ♂♂, 15 ♀♀ (1098/2002)
- Biotope Torbiera di Curiedi, NW the hill, Tolmezzo (UD), UM44, 851 m, 10.VI.2001, peat bog NE

- of the hill, *Carex* sp. tufts, A. Zanetti, M. Zanetti, A. Tagliapietra, G. Tomasin et G. Governatori leg.: 1 pullus (1079/2002); *ibid.*, 851 m, 06.IX.-12.X.2001, peat bog NE of the hill, pitfall traps (3/3), G. Colombetta leg.: 5 ♂♂, 4 ♀♀ (966/2002); *ibid.*, 853 m, 10.VI. 2001, peat bog SE of the hill, *Eriophorum* sp. tufts, A. Zanetti, M. Zanetti, G. Tomasin, A. Tagliapietra et G. Governatori leg.: 1 pullus (1058/2002); *ibid.*, 874 m, 02.V.-10.VI.2001, peat bog NW of the hill, pitfall traps (3/3), G. Colombetta leg.: 1 pullus (1056/2002); *ibid.*, 874 m, 10.VI.2001, peat bog NW of the hill, *Carex* sp. tufts, A. Zanetti, A. Tagliapietra, G. Tomasin et G. Governatori leg.: 1 pullus (1092/2002); *ibid.*, 874 m, 06.IX.-12.X.2001, peat bog NW of the hill, pitfall traps (1/3), G. Colombetta leg.: 7 ♂♂, 6 ♀♀ (992/2002)
- Biotopo Torbiera di Borgo Pegoraro, Moruzzo (UD), UM50, 185 m, 15.V.2001, forest, pitfall traps (3/3), G. Colombetta leg.: 2 pulli (1015/2002); *ibid.*, 08.IX.-16.X.2001, forest, pitfall traps (3/3), G. Colombetta leg.: 1 ♀ (1046/2002); *ibid.*, 13.XI.2001, peat bog, near *Carex* cf. *elata* and *Typha latifolia* tufts, G. Tomasin leg.: 1 ♂ (948/2002); *ibid.*, 184 m, 10.V.-21.VI.2001, western peat bog, pitfall traps (3/3), G. Colombetta leg.: 2 iuv. (991/2002); *ibid.*, 08.IX.-06.X.2001, western peat bog, pitfall traps (3/3), G. Colombetta leg.: 1 ♂, 2 ♀♀ (972/2002); *ibid.*, 185 m, 08.IX.-16.X.2001, humid meadow, pitfall traps (3/4), G. Colombetta leg.: 2 ♂♂, 2 ♀♀ (1014/2002)
 - Biotopo Palude di Fontana Abisso, Buia (UD), UM51, 163 m, 06.V.-14.VI.2001, peat bog, pitfall traps (5/5), G. Colombetta leg.: 1 pullus (1059/2002); *ibid.*, 06.IX.-14.X.2001, western peat bog, pitfall traps (3/5), G. Colombetta leg.: 1 ♂, 2 ♀♀ (974/2002)
 - Biotopo Prati umidi di Quadris, Fagagna (UD), UM51, 171 m, 15.V.-21.VI.2001, humid forest, pitfall traps (3/3), G. Colombetta leg.: 1 iuv. (1125/2002); *ibid.*, 08.IX.-14.X.2001, peat bog, pitfall traps (3/3), G. Colombetta leg.: 7 ♂♂, 14 ♀♀ (1037/2002)
 - Biotopo Torbiera di Casasola, Majano (UD), UM51, 162 m, 06.IX.-14.X.2001, peat bog, pitfall traps (3/3), G. Colombetta leg.: 1 ♀ (951/2002)
 - Biotopo Torbiera di Lazzacco, Pagnacco (UD), UM51, 195 m, 08.IX.-06.X.2001, eastern forest, pitfall traps (3/3), G. Colombetta leg.: 3 ♀♀ (1000/2002)
 - Biotopo Torbiera di Pramollo, Pontebba (UD), UM65, 1518 m, 02.IX.-12.X.2001, superior peat bog, pitfall traps (4/5), G. Colombetta leg.: 1 ♂ (976/2002)
 - Biotopo Risorgive di Flambro, Talmassons (UD), UL58, 21 m, 04.IX.-16.X.2001, peat bog, pitfall traps (4/5), G. Colombetta leg.: 2 ♀♀ (982/2002); *ibid.*, 04.IX.-16.X.2001, forest, pitfall traps (3/3), G. Colombetta leg.: 1 ♂ (1089/2002)
 - Biotopo Torbiera Scichizza, Tarvisio (UD), UM94, 844 m, 02.IX.-12.X.2001, humid meadow, pitfall traps (3/3), G. Colombetta leg.: 27 ♂♂, 26 ♀♀ (1004/2002)

A. laevipes is a thermophilous species, living in Central European countries between the Po valley in Italy and the Black Sea, inhabiting mostly moist deciduous forests and other moist warm habitats (MARTENS, 1978).

Gyas annulatus (OLIVIER, 1791)

- Stavoli Tugliezzo, near the Rio Lavarie, Moggio Udinese (UD), UM53, 470 m, 19.VI.-16.VII.2001, *Fagetum*, pitfall traps, A. dall'Asta leg.: 1 ♀ (222/2003); *ibid.*, 26.IX.-30.X.2001, *Fagetum*, cone traps, G. Governatori et A. dall'Asta leg.: 8 ♂♂, 14 ♀♀, 10 iuv. (441/2003)
- Grotta di Vedronza (Cat. No. FR 71), Lusevera (UD), UM62, 310 m, 20.XI.1997, ca. 20 m inside on the walls, G. Governatori leg.: 4 iuv. (248/2003)
- Valle del T. Vedronza, SE side of Mt. Cladia, Lusevera (UD), UM62, 330 m, 20.XI.1997, G. Governatori leg.: 3 iuv. (252/2003)
- Sella Carnizza, Resia (UD), UM73, 1200-1300 m, 26.VI.2003, *Fagetum*, P. Glerean leg.: 1 ♀ (905/2003)

- an unregistered cave, at the entrance, Valli del Natisone, Grimacco superiore (UD), UM81, 21.II.1997, G. Governatori leg.: 2 subad. (330/2003)
- Inghiottitoio dell'Arco Naturale (Cat. No. FR 538), Mineres, Clauzetto (UD), UM32, 570 m, 26.XI.1995, G. Governatori leg.: 1 ♀ (246/2003)
- Passo di Pramollo, Pontebba (UD), UM65, 1600 m, 06.VIII.1978, C. Morandini leg., inv. No. 5/7: 1 ♀ (1115/2003)
- Passo Pura, Ampezzo (UD), UM24, 1450 m, 31.VII.1980, I. Pecile leg., inv. No. 5/10: 1 ♂ (1116/2003)
- Picon, San Leonardo (UD), UM80, 350 m, 24.V.1977, C. Morandini leg., inv. No. 5/30: 1 ♂ (1119/2003)

G. annulatus is an Alpine species, preferring space providing habitats, adjacent to water currents, including caves, where juveniles overwinter (MARTENS, 1978; NOVAK et al., 2004).

Gyas titanus SIMON, 1879

- Eremo di Camaldoli, Toscana, Poppi (AR), QP25, 1100 m, 25.VIII.1977, L. Lapini leg., inv. No. 5/23: 1 iuv. (1125/2003)

The hygrophilous *G. titanus* occupies disjunctive sites in the mountains of the Iberian Peninsula and the Alpine-middle Balkan-Carpathian mountain chain (MARTENS, 1978; NOVAK et al., 2000). Juveniles overwinter in space providing habitats, adjacent to water currents, including caves (MARTENS, 1978; NOVAK et al., 2004).

Leiobunum roseum C. L. KOCH, 1839

- Paluzza (UD), UM45, 700 m, 14.X.1927, M. Gortani leg., inv. No. 5/12: 5 ♂♂ (1117/2003)

L. roseum is native to the south-eastern Calcareous Alps and western Slovenia, living especially on calcareous rock walls (MARTENS, 1978; KOMPOSCH & GRUBER, 2004).

Leiobunum rupestre (HERBST, 1799)

- Stavoli Cuel Lung alto, Mt. Zovet, Moggio Udinese (UD), UM53, 700 m, 16.VII.-20.VIII.2001, *Fagetum*, pitfall traps, A. dall'Asta leg.: 2 iuv. (401/2003)
- between Berdo di Sopra and Rio Malidul, Resia (UD), UM73, 1260 m, 12.VI.2003, G. Tomasin, P. Glerean et F. Tami leg.: 3 iuv. (921/2003)
- above Clen, between Casera Coot and Slatina superiore, Resia (UD), UM73, 1000 m, 20.VIII.-26.IX. 2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 ♀ (563/2003)

L. rupestre is a hygrophilous eastern Alpine-Carpathian-Central European species, preferring shady, cold habitats (MARTENS, 1978; KOMPOSCH & GRUBER, 2004). Temporarily, it also appears in the entrance sections of cavities (NOVAK et al., 1984).

Nelima doriae (CANESTRINI, 1871)

- Valle Vecchia, Caorle (VE), UL45, 0-5 m, 23.IX.-08.X.1999, depression between dunes, pitfall traps 11-15, P. Glerean leg.: 1 ♀ (524/2003)

N. doriae is disjunctively present in the Mediterranean (MARTENS, 1978), and secondarily in Australia, New Zealand (GRUBER & HUNT, 1973) and South America (ACOSTA & COKENDOLPHER, 1990). This thermophilous species inhabits sheltered microhabitats in otherwise well insulated habitats (MARTENS, 1978).

Nelima sempronii SZALAY, 1951

- Biotope Torbiera di Lazzacco, Pagnacco (UD), UM51, 195 m, 08.IX.-06.X.2001, eastern forest, pitfall traps (3/3), G. Colombetta leg.: 1 ♀ (1001/2002)
- Stavoli Cuel Lung alto, Mt. Zovet, Moggio Udinese (UD), UM53, 700 m, 16.VII.-20.VIII.2001, *Fagetum*, pitfall traps, G. Governatori leg.: 1 iuv. (400/2003); *ibid.*, 17.VII.2003, G. Tomasin, P. Glerean et F. Tami leg.: 1 iuv. (913/2003)
- Stavoli Tugliezzo, near the Rio Lavarie, Moggio Udinese (UD), UM53, 470 m, 26.IX.-30.X.2001, *Fagetum*, cone traps, G. Governatori et A. dall'Asta leg.: 9 ♂♂, 8 ♀♀, 25 iuv. (446/2003)
- Plan di Tapou, Alta Val Torre, Lusevera (UD), UM63, 875 m, 1991, *Fagetum*, pitfall traps, M. M. Giovannelli leg.: 1 iuv. (975/2003); *ibid.*, 26.VIII.-07.XI.1992, meadow, M. M. Giovannelli et C. Luppi leg.: 3 ♂♂, 2 ♀♀ (960/2003)
- Biotope Palude Fraghis, Porpetto (UD), UL68, 8 m, 04.IX.-17.X.2001, *Phragmitetum*, *Alnetum glutinosae*, at the base of *Alnus* plants, pitfall traps (3/3), G. Colombetta leg.: 1 ♂ (986/2002)
- Gran Monte, S side, Monteperta, Taipana (UD), UM72, ca. 650 m, 10.X.-04.XII.1994, secondary meadow, 4 pitfall traps, G. Governatori leg.: 1 ♂, 1 ♀ (964/2003); *ibid.*, 10.X.-04.XII.1994, poor meadow on detritus, 5 pitfall traps, G. Governatori leg.: 1 iuv. (936/2003)

N. sempronii is a species with a unitary distribution area in the eastern Alps and eastern Europe, while sporadic localities are known in the Apennine peninsula and Central Europe (MARTENS, 1978). This (hemi)hygrophilous species is frequent in light forests, shrub woodland, parks and the like (KOMPOSCH, 1997).

Conclusions

The harvestman collection of the Museo Friulano di Storia Naturale in Udine consists of about half of the species living in northern Italy (cf. CHEMINI, 1993), and occasional data from the other regions are available. The collection represents a good basic collection of the fauna of Friuli Venezia Giulia and the adjacent regions, and contributes to the zoogeographical knowledge of the Italian opilionid fauna. Nevertheless, as the fauna was caught mostly by pitfall trapping, and partly provided by Berlese extraction, not all species of the region have been recorded (e.g. *Mitostoma alpinum* and probably *Rilaena triangularis* in Friuli Venezia Giulia), and some of the listed ones seem to be rare although they occur in mass in some habitats (e.g. *Opilio transversalis* and *Nelima sempronii* in low bank vegetation along current water, in *Urticetum* etc.) that had not been investigated intensively. Other collecting methods and some other habitats (like catching in grasses and bushwood along the current water, seaving deep litter, searching in other caves) would therefore be useful in completing the

faunal review systematically. Generally, ecological conditions in the sites are consistent with general knowledge about the ecology and biology of the recorded species. Concerning the *Trogulus tricarinatus*- and *T. nepaeformis*-groups, there are some open taxonomical problems which will be dealt in a separate contribution. The literature review about Friuli Venezia Giulia and adjacent regions, as well as further data from these regions, will be presented in following contributions.

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