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NEW DATA ON THE PALAEARCTIC XANTHOLININI. 8°. NEW RECORDS AND ILLUSTRATIONS ON SOME SPECIES

(Coleoptera: Staphylinidae)

247° CONTRIBUTION TO THE KNOWLEDGE OF THE STAPHYLINIDAE

Abstract. Some species of Xantholinini, from private collections and museums, are listed, especially from Gridelli's collection, preserved in the "Museo civico di Storia naturale" of Trieste. The following species seem to be new for the named countries (the records from Slovenia are doubtful because some territories, in the past, belonged to Italy): *Leptacinus intermedius* Donisthorpe, 1936 (Ukraine), *L. batychrus* (Gyllenhal, 1827) (Tajikistan), *L. simeki* Bordoni, 1975 (Tajikistan); *L. sulcifrons* (Stephens, 1833) (Tajikistan, Pakistan), *Gyrohypnus fracticornis* (Müller, 1776) (Algeria), *Gauropterus fulgidus* (Fabricius, 1776) (Israel), *G. notabilis* Kirshenblat, 1951 (Iran), *Xantholinus bordonii* Coiffait, 1970 (Italy: Alto Adige), *X. colasi* Jarrige, 1941 (Spain), *X. elegans* (Olivier, 1795) (Slovenia); *X. procerus* (Erichson, 1839) (Poland), *X. rufipennis* Erichson, 1839 (Italy: Tremiti Islands), *Megalinus flavocinctus* (Hochhuth, 1849) (Italy: Veneto), *M. pseudohesperius* (Reitter, 1908) (Malta), *Vulda mihoki* (Bernhauer, 1914) (Slovenia), *Hypnogyra angularis* (Ganglbauer, 1895) (Slovenia). The sexual characters of the following species are illustrated: *Stenistoderus subangulatus* (Reitter, 1908) and *Xantholinus translucidus* (Scriba, 1870).

Riassunto. Nuovi dati sugli Xantholinini paleartici. 8°. Nuove segnalazioni e illustrazioni di alcune specie (Coleoptera, Staphylinidae). 247° contributo alla conoscenza degli Staphylinidae. L'autore elenca specie di Xantholinini di collezioni private e museali ed in particolare della collezione Gridelli del Museo civico di Storia naturale di Trieste. Le seguenti specie sembrano nuove per le regioni citate (le citazioni relative alla Slovenia sono dubbie in quanto alcuni territori erano un tempo italiani): *Leptacinus intermedius* Donisthorpe, 1936 (Ucraina), *L. batychrus* (Gyllenhal, 1827) (Tagikistan), *L. simeki* Bordoni, 1975 (Tagikistan), *L. sulcifrons* (Stephens, 1833) (Tagikistan, Pakistan), *Gyrohypnus fracticornis* (Müller, 1776) (Algeria), *Gauropterus fulgidus* (Fabricius, 1776) (Israele), *G. notabilis* Kirshenblat, 1951 (Iran), *Xantholinus bordonii* Coiffait, 1970 (Italia: Alto Adige), *X. colasi* Jarrige, 1941 (Spagna), *X. elegans* (Olivier, 1795) (Slovenia), *X. rufipennis* Erichson, 1839 (Italia: Isole Tremiti), *X. procerus* (Erichson, 1839) (Polonia), *Megalinus flavocinctus* (Hochhuth, 1849) (Italia: Veneto), *M. pseudohesperius* (Reitter, 1908) (Malta), *Vulda mihoki* (Bernhauer, 1914) (Slovenia), *Hypnogyra angularis* (Ganglbauer, 1895) (Slovenia). Sono proposti i disegni dei caratteri sessuali delle seguenti specie: *Stenistoderus subangulatus* (Reitter, 1908) e *Xantholinus translucidus* (Scriba, 1870).

Key words. Coleoptera, Staphylinidae, Xantholinini, Europe, new records, illustrations.

This list is based mainly on the specimens of the Gridelli's collection preserved in the "Museo civico di Storia naturale" of Trieste, and on several other collections. It is interesting to highlight that most of the records are collected by famous old collectors who have made the history of the Entomology in the early XX century. The purpose of this note is to improve the geological knowledge of the treated species and to pay tribute to Eduardo Gridelli who first studied the morphology of the Xantholinini and in particular the

aedeagus of some *Xantholinus* Dejean, 1821 and *Vulda* Jaquelin du Val, 1853 (GRIDELLI, 1947a, b, 1950). For the European distribution see SMETANA (2004); for the Italian geonomy see BORDONI (1982). The genera are listed in systematic order, while the species are listed in alphabetical order.

Acronyms. cB: coll. A. Bordoni, Firenze, Italy; cBR: coll. A. Bramanti, Pietrasanta, Italy; cC: coll. A. Colla, Trieste, Italy; cCU: coll. S. Cuoco, Livorno, Italy; cG: coll. V. Gollkowski, Oelsnitz, Germany; cH: coll. Y. Hayashi, Kawanishi, Japan; cM: coll. P. Magrini, Firenze, Italy; cR: coll. G. de Rougemont, London, Great Britain; cS: coll. M. Schülke, Berlin, Germany; cSA: coll. A. Shavrin, Daugavpils, Latvia; cT: coll. M. Tronquet, Moligt-les-Bains, France; cTI: coll. G. Tiberghien, Rennes, France; MCSNT: Museo civico di Storia naturale, Trieste, Italy (coll. Gridelli); MKB: Museum Koenig, Berlin, Germany; MTM: Magyar Természettudományi Múzeum, Budapest, Hungary; MZF: Museo di Storia Naturale dell'Università degli Studi di Firenze, Sez. di Zoologia "La Specola", Firenze, Italy; SMNS: Staatliches Museum für Naturkunde, Stuttgart, Germany.

Species list

Stenistoderus subangulatus (Reitter, 1908)

EXAMINED MATERIAL: Spain, Andalucia, San Pedro de Alcantara, Shavrin & Anishtchenko 7.IV.2010, 1 ♂ (cB).

NOTES: I propose some figures of this species known from Spain and Morocco (SMETANA, 2004), until now inadequately illustrated (Figs 1-3).

Leptacinus batychrus (Gyllenhal, 1827)

EXAMINED MATERIAL: Tadjikistan, Hissar-Alai, Adjuk-Cleft, nr. Warsob, Bachufer, M. Schülke 1-3.VII.1990, 1 ♂ (cB).

NOTES: First record for Tajikistan.

Leptacinus intermedius Donisthorpe, 1936

EXAMINED MATERIAL: Ukraina, Crimea, Evpatoria reg., M. Schülke 10-20.VII.1990, 1 ex. (cS), 1 ex. (cB).

NOTES: New for Ukraine.

Leptacinus simeki Bordoni, 1975

EXAMINED MATERIAL: Tadjikistan, Varzob distr., Varzob, Campus "Chaika", 1190 m, 38°46'23.90"N, 68°49'03.89"E, A. Barsevskis 7-8.VII.2012, 1 ♂, 1 ♀ (cSA), 2 ♀ (cB).

NOTES: New record for Tajikistan. The species was previously known from Afghanistan only (SMETANA, 2004).

This is the first subsequent record of the species since it was described.

Leptacinus sulcifrons (Stephens, 1833)

EXAMINED MATERIAL: Tadjikistan, Hissar-Alai, Adjuk-Cleft, nr. Warsob, Bachufer, M. Schülke 1-3.VII.1990, 1 ♂, 1 ♀ (cS), 1 ♂, 2 ♀ (cB); Tadjikistan, 10 km S Kalon, A. Barsevskis 8-17.IX.2011, 1 ex. (cS), same data, 17.IX.2011, 1 ex. (cB); same data, 15 km S Kalon, A. Barsevskis 8-17.IX.2011, 1 ex. (SA), 1 ex. (cB); Tadjikistan, Varzob distr., Varzob, Campus "Chaika", 1110 m, 38°46'23.90"N, 68°49'03.89"E, A. Barsevskis 7-8.VII.2012, 1 ex. (cSA); Uzbekistan, E Tashkent, Chatkalskiy range, Shikaftar, leg. ? 26.VII.2001, 1 ♂ (cS);

Uzbekistan, Osh region, Aravan, leg. ? 8.VI.2001, 1 ♀ (cS), 2 ♀ (cB); Pakistan, Northwest, Frontier prov., South Waziristan agency, nr. Tanai village, 1600-2500 m, V. Gurko 28.VII-12.VIII.2005, 1 ♂ (cS).

NOTES: New for Tajikistan and Pakistan.

Gyrophypnus angustatus Stephens, 1833

EXAMINED MATERIAL: Italy, Lombardia, Carona, (Teglio, Sondrio) 1 ex.; Veneto, Cansiglio, 1 ex.; Puglia, Gioia del Colle, Focarile, 1 ex.; Sardegna, Tempio Pausania, Burlini V.1935, 1 ex.; Slovenia, Bosco di Tarnova, 1 ex.; Styria, Wildon, Ravasini, 1 ex. (MCSNT).

Gyrophypnus fracticornis (Müller, 1776)

EXAMINED MATERIAL: Algeria, Orano, Tlemcen, 3 exx.; Soane, 1 ex.; Ain Teuta, 1 ex.; Maafa, 2 exx. (MKB); Bernelle, 1 ex. (cB).

NOTES: Probably new record for Algeria.

Gyrophypnus punctulatus (Paykull, 1789)

EXAMINED MATERIAL: Italy, Piemonte, Val Susa, S. S. Michele, Della Beffa V.1918, 1 ex.; Piemonte, Colle delle Finestre, Focarile, VIII.1946, 3 exx.; Liguria, Monte Portofino, 1 ex.; Toscana, Mte Morello, Boglione X.1942, 5 exx.; Marche, Sibillini, Bolognola, Maraini VII.1935, 1 ex.; Basilicata, Pollino, Ruffo VI.1953, 1 ex. (MCSNT).

Gyrophypnus silvanus (Peyerimhoff, 1917)

EXAMINED MATERIAL: Algeria, Orano, Ain Teuta, 1 ex. (MKB).

NOTES: This species is known from Algeria and Tunisie only (SMETANA, 2004).

Gauropterus fulgidus (Fabricius, 1787)

EXAMINED MATERIAL: Palestine, Sinai, 2 km NE St. Katerina, 1580 m, Balke 28.III.1989, 2 exx. (MNB), 1 ex. (cB); Algeria, Orano, B. Saf, H. Tondu, 1 ex. (cB); Tlemcen, H. Tondu, 1 ex. (KB); Ain Teuta, H. Tondu, 1 ex.; Djilali Ben A., H. Tondu, 1 ex., 4 exx. (MKB); Italy, Toscana, Pietrasanta (LU), Bramanti, 1 ex. (cBR); Lazio, Settecamini, Roma, Castagnolo 24.XI.1968, 1 ex. (cB); same data, Colonnelli 24.X.1968, 1 ex. (cB).

NOTES: New for Israel.

Gauropterus notabilis Kirshenblat, 1951

EXAMINED MATERIAL: Persia, Hassankiadeh, leg. ? 1915, 3 exx. (cB).

NOTES: New for Iran.

Nudobius collaris (Erichson, 1839)

EXAMINED MATERIAL: Italy, Sicily, Madonie, Mt Antenna, Lona V.1937, 1 ex.; Sardinia, Merkl, 1 ex. (MCSNT).

Nudobius fasciatus (Hochhuth, 1849)

EXAMINED MATERIAL: Iran, Gilran, Darr e Dasht, 20 km E Rudbar, 36.51N, 49.36E, J. Kalab 4.V.2000, 1 ♂ (cH).

NOTES: Described as *Calontholinus* by Reitter (1908), this species, known from Azerbaijan and Iran (SMETANA, 2004), was recently referred to the genus *Nudobius* Thomson, 1860 (BORDONI, 2010).

Nudobius lentus (Gravenhorst, 1806)

EXAMINED MATERIAL: Carinzia, 1 ex.; Austria, Salzburg, 1 ex. (MCSNT); Germany, Sachsen, Chemnitz, Zeisigwald, D. Luckow 18.IV.2006, 1 ex. (cG), 1 ex. (cB).

Xantholinus apennincola Steel, 1946

EXAMINED MATERIAL: Italy, Liguria, Genova, San Lorenzo, Solari 19.VII.1940, 1 ex.; Lombardia, Brianza, Besana, Solari VIII.1918, 2 exx.; Toscana, Castiglioncello, Grosseto, Andreini VII.1919, 5 exx.; Firenze, Cascine, Porta, 1 ex.; same data, Righetti IX.1924, 3 exx.; Gavinana, Firenze, leg. ? 1938, 1 ex.; Bocca Trabaria, Andreini 14.VII.1925, 3 exx.; Alpe della Luna, Andreini 1.IX.1925, 1 ex.; Vallombrosa, Andreini 28.VI.1926, 1 ex.; sorgenti del Tevere, Andreini 10.IX.1924; Arcidosso, Solari 12-14.VII.1908, 1 ex.; Emilia, Gabellina, Collagna, Solari VIII.1926, 2 ex. (MCSNT); Umbria, Mt Martano, P. Magrini 13.XI.2006, 3 ex. (cB); Lazio, Roma, Tuscolana, Cerruti 20.II.1945, 1 ex.; same data, Villa Borghese, Cerruti 8.VIII.1945, 1 ex.; Riofreddo, Cerruti VIII.1942, 1 ex. (MCSNT); Sughereta di Pomezia, Roma, Chiari & Carpaneto 2010, 3 ex. (cB); Abruzzo, Palena, Chieti, Solari 1-16.VIII.1925, 1 ex. (MCSNT); Majella, Pescocostanzo, 1300 m, A. Biscaccianti 18.VIII.2000, 2 ex. (cB); Montepagano, Paganetti, 1 ex.; Campania, Vallo Lucano, S. Biase, Solari VIII.1902, 3 exx.; Basilicata, Mt Vulture, leg. ? 7.VII.1941, 1 ex.; Calabria, Camigliatello, Burlini VII.1938, 1 ex.; Basilicata-Calabria, Mt Pollino, Vallone Gaudolino, 950-1250 m, Ruffo VII.1950, 1 ex. (MCSNT).

Xantholinus audrasi Coiffait, 1956

EXAMINED MATERIAL: Rep. Ceca, Bohemia, Kranovice, Kocvora 9.XI.1944, 1 ex.; Iran, Herim, leg. ? 8.II.1875, 1 ex. (MCSNT).

NOTES: Its presence in Iran is confirmed.

Xantholinus azuganus Reitter, 1908

EXAMINED MATERIAL: Hungary, Biharfüred, Mihok, 1 ex.; Bihar, Biharfüred, E. Bokor, 1 ex.; Körösmező, Okula, 1 ex.; Romania, Retyezat, Szilady, 1 ex.; Bucsecs, Csiki, 1 ex.; Azuga, 1 ex.; Buchenwaldstreu, M. Jonescu 1930, 1 ex. (MCSNT); Sighisoara, Petri leg., 1 ex.; Transylvania merid., Paringhavas, Menedekbaykuz, 1400 m, Endrödy-Younga 27.VII.1956, 1 ex.; Mt Susai, Clabrucl-Plecare, Dvorak 18.VIII.1975, 1 ex.; Retyezat, Skilady, 1 ex. (cB).

Xantholinus biseriatus Bordoni, 2011

EXAMINED MATERIAL: Russia, Caucasus, Itkol, A. Fenclova 10.VIII.1980, 1 ex. (cB).

Xantholinus bordonii Coiffait, 1970

EXAMINED MATERIAL: Italy, Alto Adige, Mt Cavallo, leg. ? VII.1921, 3 exx.; Friuli-Venezia Giulia, Cansiglio, leg. ? VII.1928, 1 ex.; Pian di Cavallo, Springer 20.VIII.1927, 1 ex.; Campone, Pretner IX.1927, 1 ex.; Monfalcone, leg. ? V.1921, 1 ex.; same data, 20.IV.1912, 1 ex.; same data, Müller, 1 ex.; Doberdò, Springer 3.X.1937, 1 ex.; San Pier Isonzo, Springer 2.IV.1940, 1 ex. (MCSNT); Veneto, Belluno, Mussoi, 400 m, E. Gatti 21.IX.1995, 1 ex. (cB).

NOTES: New record for Alto Adige.

Xantholinus cerrutii Coiffait, 1964

EXAMINED MATERIAL: Italy, Lazio, Mt Terminillo, Pretner 14-19.VI.1926, 1 ex.; Molise, Altopiano Matese, Mt Miletto, 900 m, Focarile 14.VIII.1943, 1 ex.; Campitello, 2 exx. (MCSNT); Marche, Mt Vettore, 1500 m, Magrini 4.X.2009, 1 ex. (cB); Abruzzo, Gran Sasso, Pretner 22-24.VI.1926, 7 exx.; Magistretti 1.VII.1940, 1 ex.; 2100-2200 m, Fagel 13.V.1952, 6 exx.; Campo Imperatore, Bramanti, 1 ex. (cBR); Gran Sasso, S. Egidio, 1600 m, Magrini IX.1971, 4 exx.; Mt Greco, L'Aquila, 2300 m, Magrini 29.VIII.2003, 6 exx.; same data, Serra Chiarano, 2100 m, Magrini 13.X.1993, 3 exx.; Forca d'Acerò, L'Aquila-Frosinone, 1550 m, Magrini 3.VIII.1996, 2 exx.; Maiella, Blockaus, 2100 m, Magrini 8.VI.1983, 1 ex. (cB); Mt Marsicano, leg. ? 27.VII.1936, 1 ex.; Mt Cagno, 2100 m, Straneo 13.IX.1934, 1 ex.; Mt della Difesa, Luigioni 25.V.1936, 1 ex.; Mt Palombo, Luigioni 23.VI.1936, 1 ex.; Mt Arazzecca, Paganetti, 1 ex. (MCSNT); Basilicata, Terranova Pollino, Potenza, 1250 m, Zappi 24.VIII.1981, 1 ex. (cB).

NOTES: New record for Marche, Molise and Basilicata.

Xantholinus colasi Jarrige, 1941

EXAMINED MATERIAL: France, Pyrénées-Atlantiques, Sède de Pan, 800 m, P. Buyant VI.1943, 1 ex. (MCSNT), 1 ex. (cB); Luchon, H. P. Nadav, 1 ex. (MCSNT); Forêt d'Iraty, Tronquet 28.VII.1986; Massif des Arbailles, Bordat 20.VI.1973; Aussurucq, Tronquet 7.VII.1969; Arette, Tronquet 18.VIII.1975; Hautes-Pyrénées, Artigues, Perrault 21.VIII.1975; Chiroulet, Perrault 21.VIII.1975 (cT); Lesponne, Tiberghien 11.VIII.1976 (cTI); Spain, Navarra, Alto de Ibañeta, Tiberghien 25.VII.1970 (cT); Puerto Ibañete, Roncisvalles, Franz leg., 1 ex. (cB).

NOTES: The distribution of this uncommon species is increased; new record for Spain.

Xantholinus dvoraki Coiffait, 1956

EXAMINED MATERIAL: Romania, jud. Cluj, Cimpia Transilvaniei, 5 km ESE Boju, 0,5 km SE Bj-Catun, Valea Florilor Valley, 370 m, 46°41'30"N, 23°50'21"E, G. Makranczy 25.II.2008, 2 exx. (MTM), 1 ex. (cB).

Xantholinus elegans (Olivier, 1795)

EXAMINED MATERIAL: Great Britain, Barton, Tottenham, 1 ex.; Barton Mills, Tottenham 11.VIII.1943, 1 ex.; Spain, Barcellona, Tiana Prva., Mateu 24.IX.1941, 1 ex.; Barcelona, Prat Lioberg., J. Mateu 15.V.1941, 1 ex.; Barcelona, Porto de Tortora, leg. ? 4.IX.1940, 1 ex.; Catalogna, Camprodon, leg. ? 4.IX.1940, 1 ex.; Slovenia, Lipizza, Ravazini VIII.1921, 1 ex.; Italy, Piemonte, Val Curone, Porta, 1 ex.; Tortona, Solari IX.1917, 1 ex.; Liguria, San Remo, Mt Bignone, 1200 m, Porta 25.VI.1944, 1 ex.; Genova, Mantero IX.1893, 1 ex.; Arquata Scrivia, Alzona VII.1941, 3 exx.; Lombardia, Nottole, Milano, Focarile 11.IX.1940, 1 ex.; Friuli-Venezia Giulia, Trieste, Ravasini V.1919, 1 ex.; Toscana, Capugnano, A. Falzini, 1 ex.; Lazio, Mt Terminillo, 1 ex.; Marche, Mt Nerone, Andreini 30.VII.1924, 1 ex. (MCSNT).

NOTES: New record for Slovenia.

Xantholinus graecus Kraatz, 1858

EXAMINED MATERIAL: Greece, Attica, 1 ex.; Rhodos, Dodekan., Wehlb. V.1938, 1 ex.; Cyprus, Limassol, Maviomoustakis 26.XII.1927, 1 ex. (MCSNT).

Xantholinus gridellii Coiffait, 1956

EXAMINED MATERIAL: Palestine, Reitter, 1 ex. (MCSNT); Libano, Beirut, W. Wittmer

21.IV.1935, 2 exx. (cB).

Xantholinus ibericus Steel, 1950

EXAMINED MATERIAL: Spain, Madrid, Boadilla Del Monte, 10 km W Madrid, Valpastores, W. Wrase 25.II-2.III.1999, 1 ex. (cS), 2 exx. (cB); Madrid, 2 km NW Batres, 20 km SW Madrid, W. Wrase 9.II.1998, 2 exx. (cS); Madrid, Tres Cantos, Arroyo de Rio Tejada, A. Anishchenko 22-30.VIII.2001, 1 ex.; Alfambra, Camarilla, Teruel, leg. ?, 1 ex.; Sierra de Andin, Pt. Lizzaraga, 1050 m, Anishchenko VI.2006, 1 ex. (cB).

Xantholinus inuus (Fauvel, 1900)

EXAMINED MATERIAL: Algeria, Mesola Momaia (?), Peyerimoff 9.IV.1905, 1 ex. (MCSNT).

NOTES: This species is known from Algeria only (SMETANA, 2004).

Xantholinus kirghisicus Coiffait, 1966

EXAMINED MATERIAL: Kirghizia, Chalkalskij Alatau, Sary-Celek, 1950 m, Schawaller 28.V.1993, 4 exx. (cB).

Xantholinus laniger (Fauvel, 1899)

EXAMINED MATERIAL: Tunisie, Ain Draham, Normand, 1 ex. (MCSNT).

NOTES: This species is known from Algeria and Tunisie only (SMETANA, 2004).

Xantholinus laevigatus Jacobsen, 1849

EXAMINED MATERIAL: Gallia, Reitter, 1 ex.; Austria, Ardningi, Ennstat, Styria, H. Franz, 1 ex.; Wien, Prater, Münster, 1 ex.; Salzburg, Frieb., 1 ex.; Karawanken, 1 ex.; Germany, Thuringer Wall., 1 ex.; Niedersachsen, Kreis Wittmund, Insel Langeoog (Ort), Gallkowski 7.VIII.2006, 1 ex. (cG); Sachsen, Mittel Erzgebirgskreis, Gelobtland (Marienberg), 690 m, Gollkowski 29.V.2006, 1 ex. (cB); Hungary, Nogradszakal, Biró 2.V.1922, 1 ex.; Mohacs, leg. ? 1909, 1 ex.; Rep. Ceca, Paskau, Reitter, 1 ex.; Romania, Moldavia, Mt Rarau, 1500 m, de Rougemont 29.V.2008, 2 exx. (cR), 1 ex. (cB); Spain, Epiro, Metsovo, Castaldo, Rossi & Sabatini 18.V.2001, 3 exx. (cB); Italy, Piemonte, Alagna, Dodero VIII.1916, 8 exx.; Fenestrelle, Focarile 2.VIII.1941, 1 ex.; Lombardia, Mt Grigna, Focarile 8.IX.1945, 1 ex.; Friuli-Venezia Giulia, Forni di Sopra, Udine, leg. ? VIII.1931, 1 ex.; Raibl (Cave del Predil), Udine, Springer VIII.1928, 1 ex.; Trentino-Alto Adige, Ortles, leg. ? VIII.1921, 1 ex.; Merano, 1 ex.; Toscana, Melo, Pistoia, Burlini VIII.1935, 1 ex. (MCSNT); Abetone, Bramanti, 1 ex.; Mt Sagro, Carrara, Bramanti, 1 ex. (cBR).

NOTES: This species in Italy occurs in the Alps. The only not alpine localities are Bologna in Emilia and Castagno d'Andrea in Tuscany (BORDONI, 1982). Melo is the second record from Tuscany.

Xantholinus libanicus Coiffait, 1956

EXAMINED MATERIAL: Liban, Dahr el Baidar, H. Coiffait 19.XI.1951, 2 exx. (paratypes) (cB).

Xantholinus maritimus Reitter, 1908

EXAMINED MATERIAL: Italy, Liguria, Alpi Marittime, Mt Fronté, Solari, 2 exx.; Mt Penna, Solari VIII.1894, 3 exx.; Centocroci, Solari 18.VIII.1895, 1 ex.; Piemonte, Ceresole Reale, Solari VIII.1924, 1 ex.; same data, Alzona VIII.1926, 4 exx. (MCSNT); Upega, Cuneo, Bordoni 18.VIII.1977, 5 exx.; Val Grande, Cuneo, 1700 m, Bordoni VIII.1977, 1 ex. (cB); Emilia-Romagna, Campigna, Andreini VIII.1924, 1 ex.; same data, Zangheri, 1 ex.; Emilia,

Gabellina, Reggio Emilia, Solari VIII.1926, 2 exx. (MCSNT); Corno alle Scale, Bordoni V.1974, 3 exx.; Faidello, Modena, Rio delle Pozze, 1220 m, Bordoni 9.VII.2002, 2 exx. (cB); Toscana, La Calla, Andreini 12.IX.1924, 2 exx.; Vallombrosa, Andreini 18.VI.1926, 1 ex.; Boscolungo Pistoiese, Solari VIII.1922, 1 ex.; Maresca, Magistretti 17.V.1941, 2 exx.; Abetone, Bensa VIII.1910, 1 ex.; Badia Prataglia, Andreini VII.1928, 1 ex.; Abruzzo, Mt Sirente, Falzoni IX.1924, 1 ex. (MCSNT).

NOTES: These records confirm the already known distribution of the species (BORDONI, 1982).

Xantholinus morandi Coiffait, 1958

EXAMINED MATERIAL: Spain, Catalogna, S. Quirse de Besora, leg. ? II.1934, 1 ex. (MCSNT).

Xantholinus nicolasi Coiffait, 1972

EXAMINED MATERIAL: Corfù, Pantokrator, Palm V.1964, 4 exx. (cB).

Xantholinus procerus (Erichson, 1839)

Material examined: S Poland, Milchoa, leg. ? II.1915, 1 ex. (MCSNT).

NOTES: New record for Poland.

Xantholinus proceroides Coiffait, 1971

EXAMINED MATERIAL: Italy, Lazio, Rieti, Raffray, 1 ex. (MCSNT); Lazio, Leonessa, Rieti, torr. Taspino, 1000 m, S. Cuoco 8.VIII.2006, 1 ex. (cCU); Castelmassimo, Frosinone, fiume Cosa, 150 m, W. Rossi 8.V.1991, 1 ex.; Abruzzo, S. Eusanio, W. Rossi 27.VI.2000, 3 exx.; Basilicata, Fortino, Potenza, P. Magrini 28.VIII.2003, 1 ex. (cB).

NOTES: New record for Basilicata.

Xantholinus rufipennis Erichson, 1839

EXAMINED MATERIAL: Bosnia, Mostar, Apfelbeck, 2 exx.; same data, Zoufal, 2 exx.; Greece, Rodi, Fileremo, Schatzmayr 22.IV.1932, 1 ex.; Rodi, Trianda, Schatzmayr 19.IV.1932, 1 ex.; Rhodos, Dodekan., Wehlb. V.1938, 2 exx.; Corfù, Weirather, 1 ex.; Zante, Doria-Beccari XI-XII.1880, 1 ex.; Italy, Sicilia, Mt Pellegrino, Lona 9.V.1937, 1 ex.; Catania, Lombardi IV.1940, 1 ex.; Calabria, Villa S. Giovanni, Burlini IV.1934, 1 ex.; Puglia, Grottaglie, A. Falzoni X.1932, 1 ex.; I. Tremiti, S. Nicola, Ruffo 7.V.1948, 1 ex (MCSNT).

NOTES: New record for Tremiti islands.

Xantholinus rufipes (Lucas, 1846)

EXAMINED MATERIAL: Greece, Attica, Kaesariani, Maran & Step. 1935, 2 exx.; Alexandropolis, Barton 2.V.1937, 1 ex.; Kreta, Netaxyron, Leiler IV.1976, 1 ex.; Démation, f.me Anopodiaris, M. Cerruti 4.V.1971, 1 ex.; Syria, Zainie, 45 km NO Latakia, M. Dvorak 30.IV.1982, 1 ex.; Mts Hermon, Burqush, 1800-2200 m, S. Benedikt 5.V.2000, 1 ex.; Idlib, 90 km SW Alep, M. Dvorak 3.V.1982, 2 exx.; Palestine, Haifa, Juracek 1936, 1 ex. (cB); Algeria, Orano, Ain Teuta, 1 ex. (MCSNT), 1 ex. (cB); Ain b. Amar, 1 ex.; Loah (?), nr. Médea, Peyerimoff XI.1906, 1 ex.; Tunisie, Tunisi, Doria 1.II.1882, 1 ex.; Italy, Sicily, Trapani, 1 ex. (MCSNT).

Xantholinus sardous Gridelli, 1947

EXAMINED MATERIAL: Italy, "Sardinia/ Oristano/ U. Lostia", "typus" (printed on red label),

"*sardous*/ mihi/ det. Gridelli" (without aedeagus); Sardegna, Serri, U. Lostia (♀); Assemini, Lostia VI.1938 (♂); Tacco S. Antonio, R. Gestro 6.IV.1872, 2 ex. (all paratypes despite the lack of labels, as cited in the description) (MCSNT); S. Teresa, T. Palm VI.1968, 2 ex.; S. Giorgio, Cagliari, T. Palm 19-27.VI.1967, 2 ex.; Desulo, 900 m, J. Kless 5-17.VIII.1955, 1 ex.; Golfo Aranci, Dodero IX.1909, 1 ex.; Cagliari, U. Lostia, 1 ex.; Corsica, Bastia, Sette VII.1977, 1 ex. (cB).

Xantholinus translucidus (Scriba, 1870)

EXAMINED MATERIAL: Portugal, Lisbona, Guebrada, Schatzmayr 8.II.1930, 1 ex.; Spain, Barcelona, A. Codina 7.X.1915, 1 ex.; Catalonia, Tivissa, leg. ? XII.1935, 1 ex.; Malaga, Pantano, Cobos Sander, 2 ex. (MCSNT); Andalucia, Sierra Magina, 1800 m, Shavrin & Anishchenko 25-28.III.2010, 1 ex.; Almeria, Sierra Albamilla, 1000 m, C. Bayer XII.2000, 1 ex. (cS), 1 ex. (cB).

NOTES: I propose some figures (Figs 4-6) of this species, known from France, Spain, Portugal, Algeria, and Morocco (SMETANA, 2004), and until now inadequately illustrated.

Xantholinus tricolor (Fabricius, 1787)

EXAMINED MATERIAL: Sweden, Upsla, Therell leg., 1 ex.; Switzerland, Samaden, leg. ? VII.1909, 1 ex.; Kanntem Mill., Stättersee, Springer 1910, 1 ex.; Pilatus, Lucerna, leg. ? VI.1923, 1 ex.; Austria, Hof-Gastein, Salzburg, Friab. leg., 1 ex.; Fr. Riess, Pfalzau, 3 ex.; Carinthia, Schatzmayr, 1 ex.; Carinzia, Römerthal, Falzoni VI.1915, 1 ex.; Karawanken, Batnitz, 1 ex.; Kleine Bukowina, Brünn, leg. ? 26.VII.1914, 1 ex.; Hungary, Bohemia, Roubal, 2 ex.; Debrecen, Rotkcowicz 1935, 1 ex.; Poland, Monti Tatra, Makolski VII.1951, 1 ex.; same data, H. Winter, 2 ex. (MCSNT); Rep. Ceca, Okres Rakovnik, Jesenice, 470 m, D. Luckov V.2006, 1 ex. (cG); Sumava, Okres Klatovy, Modrava, 1000 m, V. Gollkowski 24-28.V.2006, 2 ex. (cG); Ukraine, Nagybocko, Pavel 1886, 1 ex.; Italy, Piemonte, Valle d'Aosta, Entrèves, Solari VII.1946, 1 ex.; same data, Brusson, Solari VII.1946, 1 ex.; same data, Cogne, Solari 15.VII.1933, 1 ex.; Val d'Ayas-Fiery, Alzona VII.1936, 1 ex.; Mottarone, Mancini V.1922, 1 ex.; Bardonecchia, Solari VIII.1946, 1 ex.; Lombardia, Alpi Orobie, Rifugio Curò, Lona 21.VII.1937, 3 ex.; Valtellina, Mt Spluga, Solari, 2 ex.; Bormio, Falzoni, 1 ex.; Mezzoldo, Passo S. Marco, 1900 m, Focarile 20.VI.1946, 1 ex.; Veneto, Cadore, Ravasini VIII.1920, 2 ex.; Alto Adige, Dobbiaco, leg. ? VIII.1935, 1 ex. (MCSNT).

Xantholinus vernensis Coiffait, 1972

EXAMINED MATERIAL: Turkey, Side-Sorgun, E Antalya, Boness 22.XII.1991, 1 ex. (SMNS).

Milichilinus decorus (Erichson, 1839)

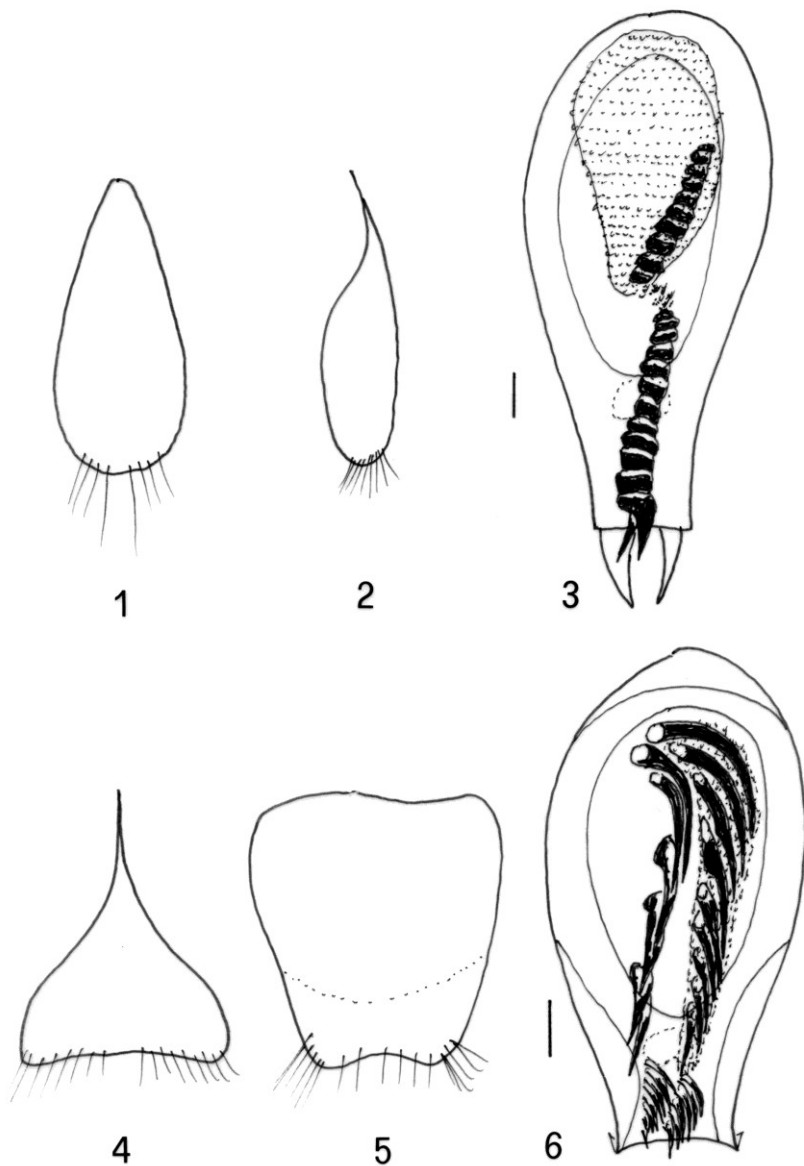
EXAMINED MATERIAL: Hungary, Pecs, Kaufmann 1908, 1 ex.; Bosnia, Celic, O. Reiss, 1 ex.; Croatia, Ludbreg, Apfelbeck, 1 ex. (MCSNT).

Vulda angusticollis (Fauvel, 1874)

EXAMINED MATERIAL: Italy, Toscana, Quarrata, Pistoia, Bordoni VI.2000, 1 ex.; Guazzino, Marchi X.1926, 2 ex.; Laghetti di Panna, Firenze, Bordoni IX.2002, 1 ex.; Arnaccio, Pisa, Cuoco 5.XI.2007, 2 ex. (cB); Lazio, Mt. Sant'Angelo, Monti Aurunci, P. Magrini 19.IX.2002, 1 ♂ (cM).

Vulda doderoi (Rambouseck, 1914)

EXAMINED MATERIAL: Italy, Emilia, Fellicarolo, Modena, 1400 m, Zappi 20.VII.1984, 1 ex. (cB).



Figs 1-6. Tergite and sternite of the male genital segment and aedeagus of *Stenistoderus subangulatus* (Reitter) (1-3) and *Xantholinus translucidus* (Scriba) (4-6) (scale bar: 0.1 mm).

Vulda gracilipes Jaquelin du Val, 1853

EXAMINED MATERIAL: Italy, Piemonte, Cissone, Cuneo, 550 m, Delmastro 15.VIII.1992, 1 ex. (cB).

Vulda italica (Sharp, 1873)

EXAMINED MATERIAL: Italy, Romagna, Mt Mauro, A. Mingazzini 16.IV.1983, 1 ex.; Zattaglia, Ravenna, A. Mingazzini 28.IX.1983, 2 exx.; Toscana, Alpe della Luna, Arezzo, A. Andreini VI.1921, 1 ex.; Sintigiano, Pieve S. Stefano, Arezzo, A. Andreini 15.XI.1932, 1 ex.; Umbria, Mt Martano, Perugia, 900 m, F. Cirocchi, P. Magrini & A. Pennisi 19.IX.2006, 2 exx.; same data, P. Magrini 19.XI.2006, 3 exx.; Mt Martano, Massa Martana, 1090 m, A. Degiovanni 15.VII.2006, 1 ex., same data, 1000 m, 5.VI.2010, 1 ex.; Marche, Gola del Furlo, Pesaro, A. Andreini IX.1928, 1 ex. (cB).

NOTES: New record for Romagna and Umbria (previously quoted only from alluvial deposits of Tevere river and Lippiano in the Tuscan-Umbrian Apennines, along the border with Tuscany).

Vulda lepinensis Pace, 1977

EXAMINED MATERIAL: Italy, Lazio, Mt Semprevisa, 1000 m, Degiovanni 25.IV.2010, 1 ex.; Lazio, Prato di Campoli, Veroli (FR), 1000 m, Degiovanni 26.IV.2010, 1 ex. (cM); Mt Lepini, Mt Semprevisa, P. Magrini 14.V.1990, 1 ex. (cB).

Vulda mihoki (Bernhauer, 1914)

EXAMINED MATERIAL: Slovenia, Divala (KP), Dolina Radvanj, A. Colla 7.VII.2000, 1 ex. (cC); Italy, Friuli-Venezia Giulia, Basovizza, Trieste, grotta 28, C. Stolfa 10.X.1932, 1 ex. (cB).

NOTES: New record for Slovenia.

Vulda myops (Fauvel, 1873)

EXAMINED MATERIAL: Italy, Piemonte, Clavesana, Cuneo, S. Martino, 420 m, Delmastro 11.VI.1992, 1 ex. (cB).

NOTES: New record for Piedmont.

Vulda tenuipes (Baudi, 1870)

EXAMINED MATERIAL: Italy, Liguria, Ruta, A. Dodero 4.X.1917, 1 ex.; same data, 2.XII.1912, 1 ex.; Toscana, Torrita, Siena, Marchi XII.1912, 2 exx.; Toscana, Alpi Apuane, Foce di Mosqueta, A. Andreini VII.1929, 1 ex.; Appennino Pistoiese, Maresca, G. Castellini 23.XI.1967, 1 ex. (cB) [ssp. *fallaciosa* (Gridelli, 1947)].

Megalinus flavocinctus (Hochhuth, 1849)

EXAMINED MATERIAL: Austria, Marchfeld, 2 exx.; Hietzing, 1 ex.; Wien, 2 exx.; Croatia, Oila, leg. ? VI.1934, 1 ex.; Umaga, Müller VI.1912, 1 ex.; Velika Paklenica, Velebit, Pretner VI.1925, 1 ex.; Dalmazia, Ragusa, Henhaus IV.1912, 1 ex.; Zara, Müller, 1 ex.; Macedonia, Keretschkoi, Schatzmayr, 1 ex.; Italy, Veneto, Cortina d'Ampezzo, A. Colla IX.1978, 1 ex. (cC); Friuli-Venezia Giulia, Basovizza, Trieste, leg. ? VIII.1902, 1 ex.; Servola, Trieste, leg. ? X.1910, 1 ex.; Barcola, Trieste, leg. ? X.1904, 2 exx.; Gorizia, leg. ? VI.1910, 1 ex.; Greece, Kos, Dodekan, Woheb. V.1938, 12 exx.; Kreta, Paganetti, 1 ex. (MCSNT); Israel, Ya'ar Odem Resi, Sforzi & Bartolozzi 23.V.1998, 1 ex. (cB); Syria, 1 ex. (MZF).

NOTES: New record for Veneto.

Megalinus hesperius (Erichson, 1839)

EXAMINED MATERIAL: Algeria, Algeri, Marcuzzi X.1944, 1 ex.; Morocco, Tangeri, Novak 24.XI.1933, 1 ex.; Spain, Catalogna, Tiana, nr., Barcelona, Palau XI.1885, 1 ex.; Catalogna, Guilleries, Villarubia 12.III.1930, 1 ex.; Valencia, 1 ex.; Portugal, Lisbona, Schatzmayr, 1 ex. (MCSNT).

Megalinus pseudohesperius (Reitter, 1908)

EXAMINED MATERIAL: Malta, Wiewa Qannotta, S. Schembri 21.XII.1977, 1 ex.; B'kara, S. Schembri, 22.XII.1970, 1 ex.; same data 20.II.1977, 1 ex. (MCSNT); M'Xiokle, S. Schembri 25.II.1977, 1 ex. (cB).

NOTES: New record for Malta.

Megalinus glabratus (Gravenhorst, 1802)

EXAMINED MATERIAL: Algeria, Orano, B. Saf, H. Tondu, 1 ex.; Freneda, H. Tondu, 4 exx.; Tlemcen, H. Tondu, 27 exx. (MKB), 3 exx. (cB); Batna, H. Tondu, 1 ex.; Maafa, H. Tondu, 1 ex.; Ain Teuta, H. Tondu, 9 exx. (MKB); Ouled Sidi, Ben, H. Tondu, 4 exx. (cB); Beni Messous, Marcuzzi IV.1945, 3 exx.; Tunisie, Tunisi, Doria 1.II.1882, 1 ex.; Morocco, Tanger, Novak XI.1933, 1 ex.; Morocco, Melilla, 2 exx.; Great Britain, Cambridge, Tottenham X.1944, 3 exx.; Portugal, Evora, Schatzmayr, 3 exx.; Spain, Rio Besos, Mateu V.1946, 1 ex.; Palma del Mallorca, 1 ex.; Italy, Liguria, Savona, Naldi XI.1932, 1 ex.; Toscana, Isola del Giglio, G. Doria V.1900, 1 ex.; Calabria, Crotona, Novak XII.1938, 1 ex.; Sardegna, Oristano, S. Giusto, Burlini, 1 ex.; Gairo, Nuoro, Stolfi IX.1941, 1 ex.; Sassari, leg. ? 1956, 1 ex.; Sicilia, Agrigento, Lona XI.1948, 1 ex.; Mt Pellegrino, Lona V.1937, 3 exx. (MCSNT).

Hypnogyra angularis (Ganglbauer, 1895)

EXAMINED MATERIAL: Austria, Neusiedler See, 1 ex.; Wien, Lakenburg, 1 ex.; Hungary, Debrecen, Rosthowicz III.1924, 2 exx.; Tihany, Szekessy IV.1939, 2 exx.; Romania, Gizellafalva (Ghizela), Timis, Banat, Csiki, 1 ex.; Croatia, Ludbreg, Apfelbeck, 2 exx.; Istria, M. Tafano, 1 ex.; Slovenia, Lipizza, 1 ex.; Italy, Friuli-Venezia Giulia, Trieste, Boschetto, leg. ? VII.1920, 1 ex.; Veneto, Legnago, 1 ex. (MCSNT).

NOTES: New record for Slovenia.

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References

- BORDONI A., 1982. Coleoptera Staphylinidae. Generalità- Xantholininae. Fauna d'Italia. XIX. *Calderini Ed.*, Bologna, 434 pp.
- BORDONI A., 2010. Male genitalia of palaeartic species of the genus *Nudobius* (Coleoptera Staphylinidae). *Bollettino della Società entomologica italiana*, 142, 1: 19-26.
- GRIDELLI E., 1947a. La sistematica degli Xantholinini. Primo contributo. Alcuni dati sulla morfologia dell'addome e degli organi genitali e descrizione di alcune specie affini allo *Xantholinus linearis* Ol. (Coleopt. Staphyl.). *Atti del Museo civico di Storia naturale, Trieste*, 16: 65-80.
- GRIDELLI E., 1947b. La sistematica degli Xantholinini. Secondo contributo. Specie italiane a me note riferibili ai sottogeneri *Vulda* Jacq. Duval e *Typhlodes* Sharp (Coleopt. Staphyl.). *Atti del Museo civico di Storia naturale, Trieste*, 16: 97-130.

- GRIDELLI E., 1950. La sistematica degli Xantholinini. Terzo contributo. Le specie affini allo *Xantholinus tricolor*. Fabr. (Coleopt. Staphyl.). *Atti del Museo civico di Storia naturale, Trieste*, 18: 1-12.
- SMETANA A., 2004. Staphylinidae (pp. 237-698). In: LÖBL I. & SMETANA A. (eds.). Catalogue of Palaearctic Coleoptera. Vol. 2. Hydrophiloidea-Histeroidea-Staphylinoidea. *Apollo Books, Stenstrup*, 942 pp.

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