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Lamellicornia (Coleoptera) from Tunisia *

By

L. ÁDÁM

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Abstract: A list of Lamellicornia (Coleoptera) collected in Tunisia in 1977 is presented. Three species and a subspecies are new to the fauna of the country.

The subsequent list of beetles collected by the research workers of the Hungarian Natural History Museum, Budapest in 1977 comprises the material of the Lamellicornia. This rich material was especially noteworthy in the species of Melolonthidae and Scarabaeidae, yielding a total of seventy species. I was unable to determine one species owing to lack of literature and comparative material.

The great majority of the species was known from Tunisia, which is not surprising since extensive collectings were made there in the past. Nevertheless, three species and a subspecies were found to be new to the fauna of that country.

List of localities **

- No. 1. Sebka Sidi Bou Meftah, 8 km SE from El Kef, 25. March, 1977. Singled mainly from flowers (*Chamomilla* sp.) of vegetation on a saline meadow, the dry marsh bottom of a basin without natural outlet.
- No. 2. Same, 25. March, 1977. Singled from sheep and cattle droppings, or from ground below these.
- No. 4. Same, 25. March, 1977. Singled from below stones and dry cattle droppings.
- No. 5. Same, but about 7 km from El Kef, about 1100 m; 26. March, 1977. Singled from under rocks at feet of seer cliff walls.
- No. 6. El Kef, 26-30. March, 1977. Singled in or on buildings at various places in the town.
- No. 7. Roule Ferme Eddy, Oued Mellegue, 5 km W from El Kef, 26. March, 1977. Singled or dug from hard, packed, drying mud along river shore. Singled from higher sand banks (Cicindelids).

* The collectings of the Hungarian Natural History Museum in Tunisia. No. 15.
** The material was collected by Zs. Debreczy, A. Embey-Isztin, L. Gozmány, S. Mahunka and L. Mahunka-Papp.

- No. 8. 5 km E from El Kef, 26. March, 1977. Singled from under stones un barren slopes of S to SE exposition, or in bottom of enclosed dry wadis.
- No. 11. Same, 27. March, 1977. Singled mostly from flowers of *Ferula* sp., partly from crags (*Ptinidae*).
- No. 14. Essaboum, Cherket, about 25 km S from El Kef, 27. March, 1977. Singled on walls of dry and deep wadis in very eroded area; dug and singled from bases and roots of plants.
- No. 15. Same, but about 30 km S of El Kef, 27. March, 1977. Treading and shore-washing along small stream, also singled from bases of decaying coastal plants.
- No. 17. Ferme Shitta, Djebel Eddy, about 6 km NNE from El Kef, about 1100 m, 28. March 1977. Singled from sward, mosses, from below stones imbedded in grassy soil, in shaded sites between cliff walls.
- No. 28. Same, but about 7 km NE from El Kef, 1000 m, 28. March, 1977. Five ethylenglycol soil traps, baited with putrid meat, between crags, partly in wheat field partly in grass sward; in situ until 3. April, 1977.
- No. 34. Ferme Shitta, Djebel Eddy, about 7 km NE from El Kef, 29. March, 1977. Singled along roads, mainly from bases of *Asphodelus*, or dug from under base leaves.
- No. 35. Nebeur, about 30 km N from El Kef, 30. March, 1977. Singled on ground and under stones on steep banks and in riverbed.
- No. 37. Environs of Ain Draham, 31. March, 1977. Berlese and Tardigrada samples from *Quercus suber* and *Qu. libanotis* forests: 1. litter samples from various places in closed forest; 2. mosses from the ground with the underlying soil; 3. mosses from perpendicular cliff wall; 4. mosses and lichens from *Quercus suber* trunk, with bases of *Polyodium vulgare*.
- No. 38. Same, 31. March, 1977. Singled from under bark of decaying trunk and stones.
- No. 39. Les Chenes, 31. March, 1977. Singled from under trunks in lumberyard, and under stones. Some animals also from barks of trees.
- No. 42. Fernana, 1. April, 1977. Singled from horse dropping and from underlying ground.
- No. 43. Ferme Shitta, Djebel Eddy, about 8 km NE from El Kef, 1. April, 1977. Singled from horse dropping and from underlying ground.
- No. 44. Same, 1. April, 1977. Singled from under stones (Psychid sacs).
- No. 47. Same, 2. April, 1977. Singled from under stones and exposed plant bases.
- No. 48. Le Sers, 3. April, 1977. Netted on wayside meadow and neglected fields with weedy vegetation (many Umbellifers).
- No. 49. About 2 km NW from Maktar, 3. April, 1977. Berlese and Tardigrada samples from barren sites on border of town: 1. litter from base of *Pinus pinsapo* and a pulvinate Composite plant.
- No. 50. Same, 3. April, 1977. Netted from single *Thymus*, *Calycotome* and *Othonopsis* plants on sparsely grown wayside.
- No. 51. Same, about 10 km S from town, 3. April, 1977. Singled from ground and under stones on limestone hill (with *Osterea*).
- No. 52. Same, 3. April, 1977. Berlese sample from litter and decaying bases of *Thymus* sp.
- No. 54. Same, about 5 km S of town, 3. April, 1977. Singled from wet heaps of litter (accumulated by water and wind) or from underlying ground in *Eucalyptus* plantation.
- No. 59. Same, 3. April, 1977. Singled from flowering plants (*Mesembrianthemum* sp., *Elaeagnus* sp., etc.).
- No. 60. Same, 3. April, 1977. Lighting (MV lamp) for nocturnal insects, 1900-2300, 22-16 C°, slight wind, open sky, full moon.
- No. 64. Bougrara: agricultural college, 4. April, 1977. Lighting (MV lamp), 1900-2330, about 20-15 C°, soft wind, partly overcast sky.
- No. 66. Same, near garden reservoir, 4. April, 1977. Fifteen ethylenglycol soil traps, baited with putrid meat, in bamboo plantation and at bases of cypresses. In situ until 12. April, 1977.
- No. 68. Menzel Chaker, about 2 km W of village, 5. April, 1977. Shrubs and pulvinate plants taken from shores of saline marsh, material singled from their bases and roots.

- No. 69. Same, 5. April, 1977. Sifted vegetable debris, extracted in Moczarsky-Winkler apparatus (until 12. April, 1977).
- No. 70. Boughrara, garden of agricultural college, 5. April, 1977. Lighting with MV and camping gas lamps, 1900-2230, about 22-15 C°, overcast sky.
- No. 73. Same, 6. April, 1977. Netted on plants, mimosa shrubs, in cypress, alley (also reservoir and a dung heap in its vicinity!).
- No. 75. Menzel Chaker, Hadj Kacem, 6. April, 1977. Singled by turning stones.
- No. 76. Thyna, 12 km on the Gafsa road, 6. April, 1977. Singled from under decaying trees, plants, stones in seacoast vegetation.
- No. 77. Same, 6. April, 1977. Sifted from dead, decaying snake, also soil underneath it.
- No. 79. Same, 6. April, 1977. Singled by flashlight, on ground surface in garden.
- No. 84. Same, 7. April, 1977. Singled on soil and under bark of palm trees.
- No. 85. Same, 7. April, 1977. Lighting by camping gas lamp, 1900-2130, 24-18 C°, overcast sky, completely windless night (though site immediately on seashore!); a very intense flight of nocturnal insects!
- No. 86. Boughrara, singled in and around agricultural college, 6-10. April, 1977.
- No. 89. Same, on still higher, dry ground, 8. April, 1977. Singled on dry, grassy ground.
- No. 92. Boughrara, agricultural college, 8. April, 1977. Insects taken on lamps of building; 1900-2200, 18-12 C°, stormy night, overcast sky.
- No. 93. 2 km W of La Hencha, 9. April, 1977. Netted from Ferula flowers along road.
- No. 94. Boughrara: saline lake 5 km NW from College. 9. April, 1977. Netted in weedy borders along rows of olive trees, also from Tamarix shrubs, between college and lake; some singled also from ground.
- No. 95. 10 km S from Alchichine, 10. April, 1977. Netted on and beaten from Tamarix bushes in very dry, sandy area.
- No. 98. Same, 10. April, 1977. Singled from ground, sifted and singled from roots of plants.
- No. 102. Degache, agricultural school, 13. April, 1977. Lighting with MV lamp, 1930-2200, 22-14 C°, some wind, no moon.
- No. 106. Same, palm plantation of oasis, 14. April, 1977. Singled from under hay and litter in beds of palm tree rows.
- No. 108. Same, 14. April, 1977. Lighting with MV lamp, 1900-2300, about 22-14 C°, overcast sky, extremely intense flight of insects.
- No. 110. Same, 14. April, 1977. Singled from ground at light of car lamps.
- No. 111. Oued Gouifla, on Degache-Gafsa road, 15. April, 1977. Singled by turning stones in sandy areas along river.
- No. 112. 35 km N from Tozeur, on road G. P. 3., between Tozeur-Gafsa, 15. April, 1977. Singled from under stones in barren rock desert.
- No. 116. Degache, agricultural school, 15. April, 1977. Lighted material, MV lamp, 1900-2130, 25-15 C°, overcast sky, before storm; an extremely intense flight!
- No. 117. Tozeur, in town, 16. April, 1977. Netted from straw, debris, excrement in open cattle barn.
- No. 121. Same, 16. April, 1977. Singled from ground among sand dunes on higher ground, farther from water.
- No. 128. Skanés, Hotel Tanit, 11. September, 1977. Singled among palm trees near seashore.
- No. 136. Same locality, 12. September, 1977. Singled from sand of the shore.
- No. 150. Skanés, Hotel Tanit, 14. September, 1977. Singled from ground of hotel's park and from soil of cultivated land near by.
- No. 151. Same locality, 14. September, 1977. Collected at camping gas lamp and from walls of building. 1900-2130, 25-17 C°. Weak wind, no moon.
- No. 152. Kairouan, city, 15. September, 1977. Singled.
- No. 159. Skanés, 15. September, 1977. Attracted by camping gas lamp. 1900-2120, 24-17 C°. Weak wind, with moon.
- No. 172. Same locality, 18. September, 1977. Netted and singled from the soil.
- No. 181. Same locality, 19. September, 1977. Singled from soil and from roots, latter also sifted.
- No. 186. Khenis, c. 10 km S from Monastir, 20. September, 1977. Netted over the soil and vegetation of seashore.
- No. 195. Same locality, 23. September, 1977. Singled, turning over stones.

List of species
MELOLONTIDAE

- Protaetia (Potosia) opaca (Fabricius, 1787): Nos. 11, 151, 159.
Aethiessa floralis (Fabricius, 1787): Nos. 8, 11, 14, 47.
Oxythyrea pantherina (Gory et Percheron, 1833): Nos. 59, 94, 106, 110, 111, 121.
Tropinota (Tropinota) squalida (Scopoli, 1783): Nos. 7, 17, 47, 51, 59, 93, 106.
Amphicoma (Eulasia) bombylius (Fabricius, 1787): Nos. 6, 11, 48, 50, 51.
Pentodon algerinum algerinum (Herbst, 1789): Nos. 95, 98, 112, 116, 152.
Phylloognathus excavatus (Forster, 1771): Nos. 128, 136, 172, 181, 186.
Tribopertha quedenfeldti (Reitter, 1890): Nos. 59, 94.
Hoplia susiana Escalera, 1913: Nos. 106, 121. - The species was known to occur in Morocco and Algeria, apparently it is reported here for the first time from Tunisia.
Rhizotrogus (Pseudoapterogyna) elegans Brenske, 1889: Nos. 11, 44, 47, 51.
Rhizotrogus (Pseudoapterogyna) euphytus Buquet, 1840: Nos. 11, 14, 35, 44.
Rhizotrogus (Geotrogus) rectibasis (Reitter, 1902): No. 5.
Pachydemra xanthochroa Fairmaire, 1879: Nos. 54, 59, 64, 70, 76, 86, 92, 98.
Pachydemra carthaginensis (Rambur, 1843): Nos. 68, 84, 89, 94, 121.
Paratriodonta cinctipennis (Lucas, 1849): Nos. 59, 64, 66, 75.

SCARABAEIDAE

- Geotrupes (Geotrupes) niger Marsham, 1802: Nos. 4, 38.
Geotrupes (Thorectes) demoflysi Barraud, 1965: No. 181.
Geotrupes (Thorectes) brullei africanus Barraud, 1965: No. 39.
Geotrupes (Thorectes) rugatulus Jekel, 1865: Nos. 4, 17, 28, 35, 44.
Bolbelasmus bocchus vaulogeri (Abeille, 1898)
Trox barbarus Harold, 1872: Nos. 59, 79.
Trox granulipennis Fairmaire, 1852: No. 17.
Glaresis carthagensis Petrovitz, 1968: Nos. 102, 108, 116.
Ochodaeus sp.: No. 66.
Hybalus bigibber Reitter, 1892: No. 44. - It was described from Sicily. The species is new to the fauna of Tunisia.
Eremazus unistrigatus Mulsant, 1851: Nos. 70, 116.
Colobopterus (Colobopterus) erraticus (Linné, 1758): Nos. 1, 2.
Aphodius (Aphodius) fimetarius (Linné, 1758): No. 4, 38.
Aphodius (Aphodius) foetidus (Herbst, 1783): Nos. 4, 38.
Aphodius (Bodilus) ghardimaouensis Balthasar, 1929: Nos. 43, 79.
Aphodius (Bodilus) ictericus (Laicharting, 1781): No. 116.
Aphodius (Bodilus) lugens Creutzer, 1799: No. 4.
Aphodius (Mendidaphodius) sitiphoides d'Orbigny, 1896: No. 116.
Aphodius (Erytus) klugi A. Schmidt, 1910: Nos. 60, 64, 70, 77, 79.
Aphodius (Erytus) opacior D. Koshantschikov, 1894: No. 108.
Aphodius (Calamosternus) granarius (Linné, 1767): Nos. 2, 4.
Aphodius (Liothorax) lividus (Olivier, 1789): Nos. 60, 64, 70, 73, 77, 85.
Aphodius (Mendidius) palmenticola Karsch, 1881: Nos. 102, 116.
Aphodius (Phalacronothus) diecki Harold, 1870: Nos. 42, 44.
Aphodius (Phalacronothus) quadriguttatus (Herbst, 1783): Nos. 2, 42.
Aphodius (Amidorus) cribricollis Lucas, 1846: Nos. 2, 15.
Aphodius (Chilothonax) exclamationis Motschulsky, 1849: No. 70.
Aphodius (Chilothonax) hieroglyphicus Klug, 1845: Nos. 60, 70, 77, 102.
Aphodius (Chilothonax) lineolatus Illiger, 1803: Nos. 2, 4, 38.
Aphodius (Biralus) satellitus (Herbst, 1789): No. 4.
Aphodius (Mecynodes) leucopterus Klug, 1845: Nos. 60, 70, 77, 102, 116, 117.
Sugrames (Pseudosugrames) brevitarsis (Reitter, 1894): No. 102.
Diastictus tibialis (Fabricius, 1798): Nos. 37, 49, 52.
Pleurophorus caesus (Panzer, 1796): Nos. 69, 70, 116.

Psammodius sefrensis (Petrovitz, 1961): No. 159. - The species was described from Algeria (Ain Sefra). One specimen was found in Tunisia, being new to the fauna.

Rhyssenus germanus (Linné, 1767): No. 116.

Onthophagus (Euonthophagus) crocatus Mulsant, 1873: Nos. 1, 2, 4, 11, 39, 51.

Onthophagus (Onthophagus) andalusiacus Waltl, 1835: Nos. 4, 43, 51.

Onthophagus (Onthophagus) maki Illiger, 1803: Nos. 43, 44, 64.

Onthophagus (Onthophagus) nebulosus Reiche, 1864: No. 66.

Onthophagus (Onthophagus) opacicollis Reitter, 1893: No. 4.

Onthophagus (Onthophagus) taurus (Schreber, 1759): Nos. 2, 38, 112, 195.

Onthophagus (Onthophagus) transcaspicus Koenig, 1888: No. 116.

Onthophagus (Onthophagus) trigibber Reitter, 1893: No. 4.

Copris hispanus hispanus (Linné, 1764): Nos. 4, 34, 79, 85, 92, 95, 98.

Onitis alexis septentrionalis Balthasar, 1942: No. 150.

Onitis ion (Olivier, 1789): Nos. 2, 4.

Onitis numida Castelnau, 1840: No. 4.

Bubas bison (Linné, 1767): Nos. 2, 4.

Bubas bubaloides Janssens, 1938: Nos. 59, 64.

Gymnopleurus flagellatus (Fabricius, 1787): Nos. 11, 70, 79, 92, 95.

Scarabaeus (Ateuchetus) variolosus (Fabricius, 1787): No. 17, 43, 44, 51.

Scarabaeus (Scarabaeus) sacer Linné, 1758: Nos. 59, 64, 70, 79, 92, 95, 98, 116.

Scarabaeus (Scarabaeus) sacer acuticollis Motschulsky, 1849: No. 92. - The species is new to the beetle fauna of Tunisia.

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Author's address: L. ÁDÁM
Zoological Department
Hungarian Natural History Museum
H-1088 Budapest
Baross utca 13.
Hungary