



A new species of *Elathous* Reitter (Coleoptera: Elateridae) from Turkey

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Abstract

A new click-beetle species, *Elathous serti*, from Denizli and Isparta provinces of Turkey is described. Photographs of the adults, drawings of the aedeagi, a contrasting comparison table, a key to all Turkish *Elathous* species, a distribution map, and a table of collecting months and collecting provinces of all Turkish species are provided.

Key words: click-beetle, *Elathous serti*, key, contrasting comparison, distribution map

Introduction

The genus *Elathous* Reitter is well presented in the Palaearctic region, with 30 species. Thirteen of these Palaearctic species occur in Turkey with the following Old World countries containing a less diverse fauna: Greece (with 7 species), Spain (with 3 species), Azerbaijan, Japan and Syria (with 2 species each), Armenia, Bulgaria, Croatia, Cyprus, France, Italy, Lebanon, Morocco, Portugal, Russia (Southern European Territory) and Ukraine (all with 1 species each). Almost 77% (10 out of 13 spp.) of the species are endemic to Turkey (see Cate 2007; Mertlik & Platia 2008; Platia 2010; Platia *et al.* 2011; Zapata de la Vega & Sánchez Ruiz 2012, Jarzabek-Müller 2013).

Material and methods

The body lengths of the holotype and paratypes were measured along the midline from the anterior margin of the frons to the elytral apex. The widths of the holotype and paratypes were measured across the broadest part of the elytra. The new species was compared with closely related species, *E. pavesii* Platia and Schimmel 1992 and *E. turcicus* Platia and Gudenzi 2005. The distribution map (Fig. 8) was prepared with CFF 2.0 (Carto Fauna-Flora; Barbier and Rasmont 2000) and modified with the Microsoft Paint and Microsoft Office Picture Manager. The aedeagus was extracted by using standard methods, dipped in a drop of Canada balsam, and placed on a celluloid label.

Results

Family Elateridae Leach, 1815

Genus *Elathous*, Reitter, 1890

References cited

- Atay, E., Jansson, N. & Gürkan, T. (2012) Saproxyllic beetles on old hollow oaks (*Quercus* spp.) in a small isolated area in southern Turkey, *Zoology in the Middle East*, 57, 105–114.
<http://dx.doi.org/10.1080/09397140.2012.10648969>
- Barbier, Y. & Rasmont, P. (1996) *Carto Fauna-Flora. Cartographie des données biologiques. Cartography of biological data. Version 1.2 et utilitaires. Version 1.2 and tools*. Université de Mons-Hainaut, Mons, Belgium, 62 pp.
- Barbier, Y. & Rasmont, P. (2000) *Carto Fauna-Flora 2.0. Guide d'utilisation*. Université de Mons-Hainaut, Mons, Belgium, 59 pp.
- Cate, P. (2007) Elateridae Leach, 1815. In: Löbl, I. & Smetana A., (Eds.), *Catalogue of Palaearctic Coleoptera, Vol. 4. Elateroidea, Derodontoidea, Bostrichoidea, Lymexyloidea, Cleroidea, Cucujoidea*. Apollo Books, Stenstrup, Denmark, pp. 89–209.
- Jarzabek-Müller, A. (2013) First records for eight click-beetles (Coleoptera, Elateridae) in Greece. *Elateridarium*, 7, 77–83.
- Kabalak, M. & Sert, O. (2011) Faunistic composition, ecological properties and zoogeographical composition of the family Elateridae (Coleoptera) of the Central Anatolian Region of Turkey. *Journal of Insect Science*, 11, 57.
<http://dx.doi.org/10.1673/031.011.5701>
- Kesdek, M., Platia, G. & Yıldırım, E. (2006) Contribution to the Knowledge of Click-Beetles (Coleoptera: Elateridae) Fauna of Turkey. *Entomofauna*, 27 (35), 417–432.
- Mertlik, J. & Dušánek, V. (2006) Description of five new species of click-beetles (Coleoptera, Elateridae) from the Palaearctic region with remarks about the distributions 22 additional species. *Folia Heyrovskyana*, 13 (4), 145–162.
- Mertlik, J. & Platia, G. (2008) Catalogue of the family Cebrionidae, Elateridae, Lissomidae, Melasidae and Throscidae (Coleoptera) from Turkey. *Elateridarium*, 2, 1–40.
- Platia, G. (1994) *Fauna d'Italia, Coleoptera Elateridae*. Edizioni Calderini, Bologna, 429 pp.
- Platia, G. (2010) New species and chorological notes of click beetles from the Palearctic region, especially from the Middle East (Coleoptera, Elateridae). *Boletín de la Sociedad Entomológica Aragonesa*, 46, 23–49.
- Platia, G. & Gudenzi, I. (2005) Description of eleven new species of click-beetles of the Palearctic region, a case of legs teratology and new records of some species of the Italian fauna (Insecta Coleoptera Elateridae). *Quaderno di Studi e Notizie di Storia Naturale della Romagna*, 21, 109–127.
- Platia, G., Jansson, N., Avcı, M., Sarıkaya, O., Coşkun, M. & Kayış, T. (2011) New species of click beetles from Turkey (Coleoptera, Elateridae). *Boletín de la Sociedad Entomológica Aragonesa*, 48, 207–215.
- Platia, G. & Schimmel, R. (1991) Descrizione di nuove specie di Elateridi di Grecia e Turchia con chiave per due gruppi di specie (Coleoptera, Elateridae). *Lavori Società Veneziana di Scienze Naturali*, 16, 131–142.
- Platia, G. & Schimmel, R. (1992) Descrizione di nuove specie di Elateridi di Grecia e Turchia (Coleoptera, Elateridae). *Lavori Società Veneziana di Scienze Naturali*, 17, 87–95.
- Reitter, E. (1905) Bestimmungstabelle der europäischen Coleopteren. Elateridae, 1. Theil. Elaterini, Subtribus: Athouina, aus der palaearktischen Fauna. *Verhandlungen des Naturforschenden Vereines in Brünn*, 56, 3–122.
- Sert, O. & Kabalak, M. (2011) Faunistic, Ecological and Zoogeographical Evaluations on the Click-Beetles (Coleoptera: Elateridae) of Middle Part of the Blacksea Region of Turkey. *Annales de la Société Entomologique de France*, 47 (3–4), 501–509.
<http://dx.doi.org/10.1080/00379271.2011.10697741>
- Wurst, C. (1994) Neue Schnellkäfer der Unterfamilie Athoinae aus dem Taurusgebirge, Südtürkei (Coleoptera: Elateridae). *Mitteilungen Entomologischer Verein*, 29, 59–66.
- Zapata de La Vega, L.J. & Sánchez-Ruiz, A. (2012) *Elathous maestrei*, nueva especie de elatérico de la Península Ibérica (Coleoptera: Elateridae, Dendrometrinae, Dendrometrini). *Archivos Entomológicos*, 7, 107–110.