

First record of the comb clawed beetle *Mycetochara quadrimaculata* (LATREILLE, 1804) for the fauna of Germany (Coleoptera, Tenebrionidae, Alleculinae)

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Introduction

The subfamily Alleculinae (formerly family Alleculidae) was represented with 17 species of this family in Germany until the year 1998 (KÖHLER & KLAUSNITZER 1998). Currently 21 species of this family are familiar (BLEICH ET AL. 2017). Within the most southern province Baden-Württemberg 15 species of this family could be recorded (BLEICH ET AL. 2017). From the genus *Mycetochara* of this group six species are known for Germany (BLEICH ET AL. 2017), but only 4 species of this genus are recorded for Baden-Württemberg (BENSE 2002). All species within this genus known from Europe have an association to dead wood structures. Now the species *Mycetochara quadrimaculata* (LATREILLE, 1804) can be contributed to the fauna of Baden-Württemberg and Germany.

Investigation area, materials and methods

During the growing season of the years 2016 and 2017 investigations about saproxylic beetles were conducted on behalf of the "Regierungspräsidium Freiburg, Referat 56, Naturschutz und Landschaftspflege" in a protected landscape in the southern Black Forest. In a sparse oak forest (Luzulo-Quercetum) several methods were used for the inventory of the dead wood beetle fauna. Besides other methods the glue ring method was implemented. On a very sunny scree slope with an exposition to the South was a solitary dead oak stump without bark. On this oak a glue ring with a surface of one meter to a half meter was implemented, where in the summer of 2017, on the 26th of June, one specimen of *M. quadrimaculata* could be detected. The trap was emptied in a run of three weeks. So, the imaginal state of the collected specimen was active between 06/05/2017 and 06/26/2017.

Distribution

M. quadrimaculata is a species of the Southern and South-Eastern central European fauna with a main contribution in the Pannonian region (KASZAB 1969) and is in the neighboring countries of Germany known for France (TRONQUET 2015), Slovakia (BENEDIKT 2014), Czech Republic (FARKAČ ET AL. 2005) and Italy (ALIQUO ET AL. 2006).

In the year 2001 *M. quadrimaculata* was recorded for Austria (HOLZER 2002). The species is also known for Switzerland (CHITTARO 2014 & SANCHEZ ET AL. 2016).

Notes to the habitat and the ecology

M. quadrimaculata is a rare species with an apparently (strict?) dependence to sparse oak forests or solitary oaks. HOLZER (2002) recorded one specimen with a bait trap filled with fruits in the canopy of an oak. It seems solitary oaks with rotten areas and sap of trees are needed for the development. SCHUH ET AL. (2006) found four specimens crawling at night on a trunk of an oak.

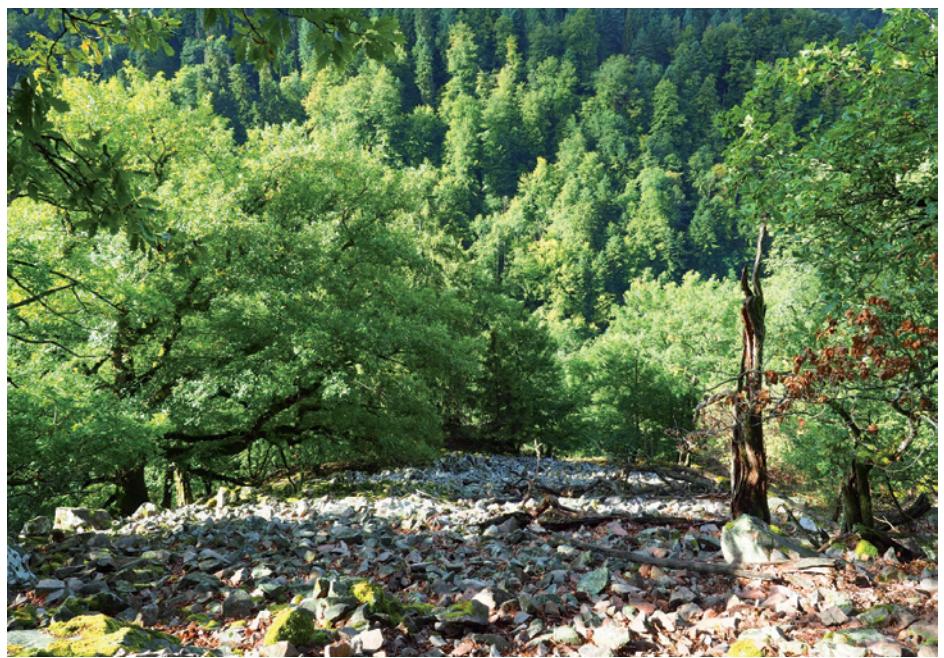
In Southern Turkey *M. quadrimaculata* was also recorded in oak forests with different *Quercus* species (NOVAK ET AL. 2013).

Discussion

M. quadrimaculata has specific ecological requirements and seems to be very rare in the whole central European region of its appearance. It is not certain whether the species spreads in



Abb. 1–3: Specimen of *Mycetochara quadrimaculata* (LATREILLE, 1804) (top left), the dead oak stump with glue ring, where the specimen was found (top right) and the habitat (below) in a protected landscape in the Southern Black Forest (pictures were taken in 2017 by the author).



Central Europe or if *M. quadrimaculata* just needs the specific requirements of the investigation area, which is unique for the Southern Black Forest in its characteristics.

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Zusammenfassung

Am 26.06.2017 wurde in einem Naturschutzgebiet im südlichen Schwarzwald ein Exemplar des Pflanzenkäfers (Alleculidae) *Mycetochara quadrimaculata* (LATREILLE, 1804) für die Käferfauna Deutschlands neu entdeckt. Das Tier wurde auf einer Hangschutthalde in einem stark besonnten Eichenwald an einem Leimring, der an einer toten, unberindeten Eiche befestigt war, erfasst.

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[92-94](#)