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On the Nearctic *Cryptophilus* REITTER, 1874 (Coleoptera: Erotylidae)

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A b s t r a c t : The nearctic *Cryptophilus* REITTER, 1874 are revised. There are three species; all are introduced from the Palaearctic Region. The species described from the Nearctic Region by CASEY (1924) are junior synonyms.

K e y w o r d s : Erotylidae, *Cryptophilus*, Nearctic Region, new synonymy.

Introduction

There is different information about the number of species of *Cryptophilus* REITTER, 1874 in the Nearctic Region. LAWRENCE & VAURIE (1983) and ARNETT et al. (2002) mentioned three species for the United States and Canada: *Cryptophilus fluminalis* CASEY, 1924, *C. integer* (HEER, 1841) and *C. seriatus* CASEY, 1924. BOUSQUET et al. (2013) mentioned only *C. integer* (HEER, 1841) for Alaska and Canada.

Studying the types of *Cryptophilus fluminalis* CASEY, 1924 and *C. seriatus* CASEY, 1924 and the revision of *C. integer* (HEER, 1841) (ESSER 2016) shows that the Nearctic is inhabited by three species: *C. obliteratus* REITTER, 1874 (= *C. seriatus* CASEY, 1924), *C. propinquus* REITTER, 1874 (= *C. fluminalis* CASEY, 1924, *C. integer* sensu auct.) and *C. angustus* (ROSENHAUER, 1856) (= *C. integer* sensu auct.).

The name "*integer* HEER, 1841" is a junior synonym of *Micrambe abietis* (PAYKULL, 1798) (ESSER 2016). As in the Palaearctic Region are in the United States and Canada two different species named "integer": *C. propinquus* REITTER, 1874 and *C. angustus* (ROSENHAUER, 1856).

Material and methods

The material examined is deposited in the following collections:

MNHM .....Hungarian National Museum, Budapest

UMSP .....University of Minnesota Insect Collection, St. Paul, MN, USA

USNM .....National Museum of Natural History, Smithsonian Institution, Washington D. C.

WIRC.....Wisconsin Insect Research Collection, Madison, WI, USA

cES.....author´s private collection, Berlin, Germany

The morphological studies were conducted using a Euromex DZ 1605 and Euromex BB.1153.PLI. Photographs were created with a ToupCam 14MP (ToupTek).

Results

The study of the types of *Cryptophilus fluminalis* CASEY, 1924 and *C. seriatus* CASEY, 1924 results the following synonymy:

Cryptophilus obliteratus REITTER, 1874

Cryptophilus seriatus CASEY, 1924

Cryptophilus propinquus REITTER, 1874

Cryptophilus fluminalis CASEY, 1924
Cryptophilus integer sensu auct. nec HEER, 1841 part.

Among material from different institutes and private collections were found also *Cryptophilus angustus* (ROSENHAUER, 1856) (= *simplex* (WOLLASTON, 1857) = *Cryptophilus integer* sensu auct. nec HEER, 1841 part). For details, see ESSER 2016 and ESSER 2017.

Material examined

The following material was examined:

Cryptophilus angustus (ROSENHAUER, 1856)

FL: Monroe Co. (USNM), TX: Travis Co. (cES).

Cryptophilus propinquus REITTER, 1874

MS: Vicksburg Co. (type of *fluminalis* CASEY, 1924), MD: Prince George Co. (USNM), MI: Jackson Co., WI: Dane Co., Ozaukee Co., Sauk Co. (WIRC).

Cryptophilus obliteratus REITTER, 1874

AR: Faulkner Co. (WIRC), MA: Framingham Co., (type of *seriatus* CASEY, 1924), MD: Prince George Co. (USNM), MN: Rock Co. (UMSP), WI: Dane Co. , Door Co., Green Co., Iowa Co., Jefferson Co., Milwaukee Co., Ozaukee Co., Sauk Co. (WIRC).

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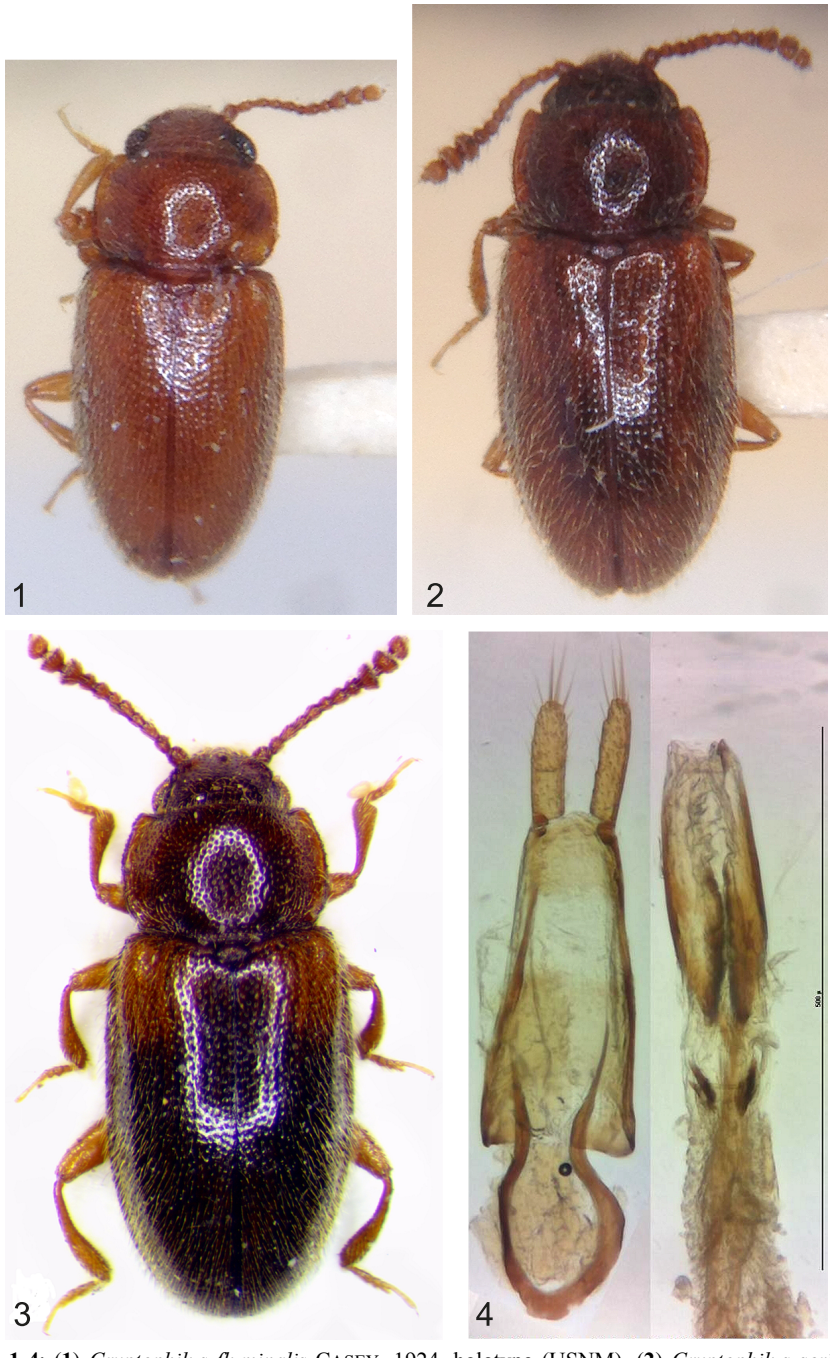

Fig. 1-4: (**1**) *Cryptophilus fluminalis* CASEY, 1924, holotype (USNM), (**2**) *Cryptophilus seriatus* CASEY, 1924, holotype (USNM); (**3**) *Cryptophilus obliteratus* REITTER, 1874, male, (**4**) aedoeagus.

Fig. 5-8: (**5**) *Cryptophilus propinquus* REITTER, 1874, male, (**6**), aedoeagus; (**7**) *Cryptophilus angustus* (ROSENHAUER, 1856), male, (**8**) aedoeagus.

Zusammenfassung

Die Arten der Gattung *Cryptophilus* REITTER, 1874 aus der Nearktis werden revidiert. Es sind drei Arten in der Region bekannt, alle aus der Paläarktis eingeschleppt. Die beiden von CASEY (1924) aus der Nearktis beschriebenen Arten sind jüngere Synonyme.

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