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Notes on some new and other rare beetles (Coleoptera) from Madeira Island

With 1 table and 1 plate

By Michael Becker [1] *, A. M. Franquinho Aguiar [2] & Arved Lompe [3]

[1] *Georg-Becker Str. 30, 41472 Neuss, Germany.*
[2] *Laboratório de Qualidade Agrícola, Caminho Municipal dos Caboucos, 61, 9135-372 Camacha, Madeira, Portugal. ORCID 0000-0002-9572-2967*
[3] *Hoher Weg 2, D-31582 Nienburg / Weser, Germany.*
** Corresponding author: m.becker@ijon.de*

ABSTRACT: We list 12 unpublished records of beetle species for the fauna of Madeira. These were collected between 1996 and 2023. New data are given on the recently described *Paradeucalion maderense* (Cerambycidae). An explanation and photos are provided to recognise the two Madeiran species of *Placonotus* MacLeay, 1871 (Laemophloeidae).

Keywords: New records, Anthicidae, Carabidae, Chrysomelidae, Clambidae, Corylophidae, Cryptophagidae, Curculionidae, Nitidulidae, Silvanidae, Staphylinidae, Macaronesia.

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RESUMO: Apresenta-se uma lista de 12 espécies de coleópteros novos para a fauna da Ilha da Madeira. O respetivo material foi colhido entre 1996 e 2023. São fornecidos dados adicionais relativos à espécie recentemente descrita, *Paradeucalion maderense* (Cerambycidae). Disponibilizam-se imagens e descrevem-se características morfológicas para o reconhecimento das duas espécies madeirenses do género *Placonotus* MacLeay, 1871 (Laemophloeidae).

Palavras-chave: Novos registos, Anthicidae, Carabidae, Chrysomelidae, Clambidae, Corylophidae, Cryptophagidae, Curculionidae, Nitidulidae, Silvanidae, Staphylinidae, Macaronesia.

INTRODUCTION

The Madeira archipelago is located in the northeast Atlantic Ocean, about 700 km from the African coast (Morocco). The fauna of the islands, on which numerous endemics are represented, but into which species are repeatedly introduced, is less well studied than that of the Canary Islands.

Two authors (M. Becker and A. Lompe) have made several excursions to the island, while one (A. Aguiar) lives there and collects constantly. In recent years, several species have been discovered that are not yet included in the checklist of Borges *et al*. (2008). In other cases, the literature on individual species is contradictory or insufficient and it seems appropriate to clarify one or the other point.

MATERIAL AND METHODS

Various collection methods were used. In addition to collecting with a beating net or sieving litter, several samples referred to in the studied material were collected with multi-funnel traps or Lindgren traps. These were pheromone traps set up in maritime pine forests (*Pinus pinaster*) for sampling/monitoring *Monochamus galloprovincialis* (Olivier), the main vector of the pine nematode.

The specimens are mainly preserved in the ICLAM – Insect Collection of the Madeira Agricultural Laboratory – or in the private collections of the authors (AGU, BEC, LOM).

RESULTS

New Records

Anthicidae

***Omonadus bifasciatus* (Rossi, 1792)**

Material studied: ICLAM04040 – 1♂, ex cow dung, road to Fanal, 32.822472, -17.155302, 900 m *a.s.l.*, 17 May 2012, José Jesus leg., António Aguiar det.; AGU – 1 sp., ex multi-funnel trap, Pomar Dom João, Ponta do Sol, 32.707349, -17.097805, 668 m, 25 Jul. 2017, Natália Nunes leg.; BEC – 3 sp., 12 Jul. 2022, loc. Levada do Paul, 32.74846, -17.11802, 1343 m, Michael Becker leg. & det.

Carabidae

***Paratachys vandeli* (Mateu & Colas, 1954)**

Material studied: LOM – 1♂, Pico Queimado, 1300 m, N 32° 46′ 31″ W 017° 07′ 25″, 25 Mar. 1996, leg. Lompe / coll. Lompe.

***Tachyura bisbimaculata* (Chevrolat, 1860)**

Material studied: LOM – 2 sp., Rabaçal, Ribeira do Alecrim, 1225 m, N 32° 44′ 58′′ W 017° 07′ 28′′, 27 Mar.1996, leg. Lompe / coll. Lompe.

***Nesorthomus annae* Donabauer, 2008**

Material studied: LOM – 7♂; 2♀, Cabeço da Esmoutada, 900 m, N 32° 49′ 07′′ W 017° 08′ 59′′, 27 Feb. 2003, leg. Lompe / coll. Lompe – 1♀, Cabeço da Esmoutada, 900 m, N 32° 49′ 07′′ W 017° 08′ 59′′, 25 Mar. 1996, leg. Lompe / coll. Lompe.

Chrysomelidae

***Crepidodera aurea* (Geoffroy, 1785)**

Material studied: BEC – 6 sp., 4 Apr. 2023, loc. Levada dos Tornos, beaten from *Salix* sp., probably *Salix canariensis*, Michael Becker leg. & det.

Clambidae

***Clambus hayekae* Endrödy-Younga, 1960**

Material studied: LOM – 1♀, Ribeiro Frio, Cabeço do Pessegueiro, N 32° 43′ 59.697′′ W 016° 52′ 05.013′′, 16 Oct. 1997, leg. Lompe / coll. Lompe.

Corylophidae

***Arthrolips fasciata* (Erichson, 1842)**

Material studied: LOM – 1♂, Larano, Cova das Pedras, N 32° 45′ 16.058′′ W 016° 46′ 57′′, 19 Feb. 2017, leg. Lompe / coll. Lompe – 1♀, Junqueira III, 400 m, N 32° 50′ 33.70′′ W 017° 10′ 23.57′′, 18 Feb. 2017, leg. Lompe / coll. Lompe; ICLAM05003 – 1 sp., ex multi-funnel trap, Caminho Paredes, Santo da Serra, 32.738266, -16.835633, 692 m, 11 Nov. 2014, Florasanto leg.; ICLAM05008 – 1 sp., ex multi-funnel trap, Golf Coarse Road, Santo da Serra, 32.720147, -16.791391, 580 m, 11 Nov. 2014, Florasanto leg.; ICLAM05206 – 1 sp., ex multi-funnel trap, Picos, Prazeres, Calheta, 32.758038, -17.199444, 668 m, 11 May 2015, Florasanto leg.; ICLAM05283 – 1 sp., ex multi-funnel trap, Picos, Prazeres, Calheta, 32.750293, -17.202402, 652 m, 18 May 2015, Florasanto leg.; AGU – 1 sp., ex multi-funnel trap, Curral Velho, Santana, 32.797914, -16.891488, 575 m, Natália Nunes leg.

Cryptophagidae

***Antherophagus silaceus* (Herbst, 1792)**

Material studied: ICLAM02859 – 1♀, ex *Galactites tomentosa* (Asteraceae), Lombada dos Marinheiros, 32.791113, -17.231851, 685 m, 8 Jun. 2004, António Aguiar leg. & det.; ICLAM02860 – 1♂, inside building, Funchal, 32.649164, -16.940560, 225 m, 16 Jul. 2009, José Jesus leg., António Aguiar det.; ICLAM03584 – 1♀, ex *Centranthus ruber* (Valerianaceae), road Paúl da Serra to Prazeres, 32.766867, -17.191945, 808 m, 24 Jun. 2010, Délia Cravo leg., António Aguiar det.; ICLAM03585 – 1♀, ex *Rubus ulmifolius* (Rosaceae), road Paúl da Serra to Prazeres, 32.766660, -17.192215, 800 m, 24 Jun. 2010, Délia Cravo leg., António Aguiar det.; ICLAM05039 – 1♂, ex multi-funnel trap, Quinta Grande, 32.668097, -17.013914, 703 m, 7 Nov. 2014, António Aguiar leg. & det.; ICLAM05616 – 1♀, ex multi-funnel trap, Campanário, 32.684725, -17.032437, 808 m, 30 Apr. 2015, António Aguiar leg. & det.; ICLAM05230 – 1♀, ex multi-funnel trap, Prazeres, 32.758986, -17.197824, 680 m, 11 May 2015, António Aguiar leg. & det.; ICLAM05333 – 1♂; 1♀, ex multi-funnel trap, São Vicente, 32.778353, -17.041396, 544 m, 26 May 2015, António Aguiar leg. & det.; ICLAM05349 – 1♂, ex multi-funnel trap, Picos, Prazeres, 32.750044, -17.201691, 643 m, 1 Jun. 2015, António Aguiar leg. & det.; ICLAM05357 – 1♀, ex multi-funnel trap, Prazeres, 32.761301, -17.193313, 708 m, 1 Jun. 2015, António Aguiar leg. & det.; ICLAM05363, 1♂, ex multi-funnel trap, Prazeres, 32.759171, -17.197551, 679 m, 1 Jun.

2015, António Aguiar leg. & det.; ICLAM05366 – 1♂, ex multi-funnel trap, São Vicente, 32.780794, -17.047676, 522 m, 2 Jun. 2015, António Aguiar leg. & det.; ICLAM05370 – 1♀, ex multi-funnel trap, São Paulo, Campanário, 32.693164, -17.030912, 734 m, 3 Jun. 2015, António Aguiar leg. & det.; ICLAM05660 – 1♀, ex multi-funnel trap, São Paulo, Campanário, 32.693549, -17.030526, 737 m, 3 Jun. 2015, António Aguiar leg. & det.; ICLAM05170 – 1♂, ex multi-funnel trap, São Vicente, 32.780608, -17.048547, 535 m, 7 Jul. 2015, António Aguiar leg. & det.; ICLAM05172 – 1♀, ex multi-funnel trap, Loural, São Vicente, 32.771489, -17.033159, 466 m, 7 Jul. 2015, António Aguiar leg. & det.; ICLAM05539 – 1♀, ex multi-funnel trap, Loural, São Vicente, 32.770917, -17.032292, 459 m, 7 Jul. 2015, António Aguiar leg. & det.; ICLAM05542 – 1♀, ex multi-funnel trap, Coroa, Campanário, 32.684725, -17.032437, 808 m, 27 Aug. 2015, António Aguiar leg. & det.; ICLAM07056 – 1♀, ex undet. plant, Caminho de São Lourenço, 32.783150, -17.217140, 798 m, 7 Jun. 2018, José Jesus leg., António Aguiar det.; ICLAM07058 – 1♀, ex *Pteridium aquilinum* (Hypolepidaceae), Caminho de São Lourenço, 32.784410, -17.216560, 823 m, 7 Jun. 2018, José Jesus leg., António Aguiar det.; ICLAM09005 – 1♀, ex *Rubus* sp. (Rosaceae), Caminho da Boca das Voltas, São Jorge, 32.809079, -16.951535, 630 m, 8 Jul. 2021, José Jesus leg., António Aguiar det.; BEC – 1 sp., 10 Jul. 2022, loc. Near Boaventura, 32.82208, -16.96859, Michael Becker leg. & det.

Curculionidae

***Brachytemnus porcatus* (Germar, 1823)**

Material studied: ICLAM05538 – 1 sp., ex multi-funnel trap, Viúva, Quinta Grande, 32.668718, -16.999896, 625 m, 8 Jul. 2015, António Aguiar leg. & det.; ICLAM05756 – 1 sp., ex multi-funnel trap, Viúva, Quinta Grande, 32.668706, -16.998936, 632 m, 8 Jul. 2015, António Aguiar leg. & det.; ICLAM05772 – 1 sp., ex multi-funnel trap, São Paulo, Campanário, 32.693519, -17.030760, 732 m, 16 Jul. 2015, António Aguiar leg. & det.; ICLAM05547 – 1 sp., ex multi-funnel trap, Viúva, Quinta Grande, 32.669013, -17.000010, 638 m, 27 Aug. 2015, António Aguiar leg. & det.; BEC – 1 sp., 15 Jul. 2022, loc. near Porto da Cruz, Michael Becker leg. & det.

This species is not yet on the checklist by Borges *et al*. (2008), but one of the specimens from above is already listed in Stüben, (2024).

Nitidulidae

***Haptoncus ocularis* (Fairmaire, 1846)**

Material studied: LOM – 1 sp., Folhadal, Levada do Norte, N 32° 44' 56.642'' W 017° 02' 00.195'', 28 Oct. 1997, leg. Lompe / coll. Lompe – 4 sp., Larano, Cova das Pedras, N 32° 45' 16.058'' W 016° 46' 57'', 21 Oct. 1997, leg. Lompe / coll. Lompe; ICLAM02875 – 3 sp., ex *Fragaria* x *ananasse* (Rosaceae), Feiteira de Cima, Santana, 32.787857, -16.873570, 587 m, 19 Oct. 2000, Alexandra Azevedo leg.; ICLAM0952 – 1 sp., ex fallen fruits of *Citrus sinensis* (Rutaceae), Pico, Santana, 32.808629, -16.886371, 404 m, 29 Sep. 2005, António Aguiar *et al*. leg.; ICLAM02529 – 1 sp., ex *Heliconia* sp. (Heliconiaceae), Caminho da Lombada, Funchal, 32.651743, -16.962896, 103 m, 31 Aug. 2009, Maria J. Dragovic leg.; ICLAM03636 – 2 sp., ex fallen fruits of *Actinidia deliciosa* (Actinidiaceae), Ribeira Funda, São Jorge, 32.817842, -16.940028, 575 m, 9 May 2011, António Aguiar leg.; ICLAM03637 – 3 sp., ex fallen fruits of *Prunus persica* (Rosaceae), Boa Nova, Funchal, 27 Jul. 2011, Graça Freitas leg.; ICLAM04019 – 1 sp., ex fruit of *Mangifera indica* (Anacardiaceae), Piquinho, Assomada, Caniço, 12 Oct. 2012, Celestina Brazão leg.; ICLAM04942 – 2 sp., ex fruitfly trap on *Eriobotrya japonica* (Rosaceae), Fajã, Arco da Calheta, 32.712794, -17.154084, 174 m, 9 Mar. 2015, Adriano Maia leg.; ICLAM05605 – 1 sp., ex multi-funnel trap, Ginjas, São Vicente, 32.780683, -17.047834, 525 m, 30 Apr. 2015, Florasanto leg.; ICLAM05221– 1 sp., ex multi-funnel trap, Posto Florestal, Prazeres, Calheta, 32.759171, -17.197551, 679 m, 11 May 2015, Florasanto leg.; ICLAM07144 – 1♀, ex fruitfly trap on *Vitis vinifera* (Vitaceae), 32.733984, -17.187439, 318 m, 26 Jul. 2018, F. Reis leg.

Silvanidae

***Uleiota planata* (Linnaeus, 1761)**

Material studied: ICLAM02712 – 1♂; 1♀, ex *Eucalyptus globulus* (Myrtaceae), under bark, Portela, 32.744957, -16.823776, 575 m, 14 Feb. 2008, António Aguiar leg. & det.; ICLAM02713 – 1♂; 1♀, ex *Eucalyptus globulus* (Myrtaceae),

under bark, Portela, 32.744978, -16.823743, 575 m, 14 Feb. 2008, António Aguiar leg. & det.; ICLAM04465 – 1♀, ex *Pinus pinaster* (Pinaceae), under bark, levada Prazeres to Raposeira, 32.758199, -17.200320, 593 m, 13 Feb. 2014, José Jesus leg., António Aguiar det.; ICLAM04521 – 1♂, ex *Pseudotsuga menziesii* (Pinaceae), trail Poiso to Ribeiro Frio, 32720097, -16.882189, 1279 m, 27 Mar. 2014, José Jesus leg., António Aguiar det.; ICLAM04522 – 2♀, ex *Pseudotsuga menziesii* (Pinaceae), trail Poiso to Ribeiro Frio, 32.720075, -16.882192, 1279 m, 27 Mar. 2014, José Jesus leg., António Aguiar det.; ICLAM05189 – 1♂, ex multi-funnel trap, Pomar Dom João, Ponta do Sol, 32.707358, -17.097784, 668 m, 18 May 2015, António Aguiar leg. & det.; BEC – 1 sp., 11 Jul. 2022, loc. Levada Fajã do Rodrigues, Michael Becker leg. & det.

Nine specimens were collected between 2008 and 2022. Given the range of sites around the island and the lack of previous finds, it seems likely that the species was introduced to Madeira in the early years of the millennium.

Staphylinidae

***Cephennium lompei* Assing & Meybohm, 2021**

Material studied: LOM – 1♂, trail from Pico das Pedras to Queimadas, 900 m, N 32° 46' 56.36'' W 016° 54' 08.13'', 17 Feb. 2017, leg. Lompe / coll. Meybohm.

***Oxypoda flavissima* Assing 2008**

This species, which is distributed in mainland Spain, Italy (Sicily), Morocco and Madeira, is not included in the checklist of Borges *et al*. (2008). The data for the two paratypes from Madeira can be found in Assing (2008).

New data on rare species

Cerambycidae

***Paradeucalion maderense* Kratky & Aguiar, 2019**

This recently described longhorn beetle from Madeira was previously only known from a single location in the northwest of Madeira, where specimens were found at night in winter, beaten from *Rubus vahlii* or under the bark of *Eucalyptus globulus*.

Now four more specimens have been found at a rather distant (~30 km) location in the north of the island. They fit perfectly with the description given by the two authors, except that one female, at 13.5 mm, is slightly larger than the upper limit of 11.5 mm given in the original description.

They were beaten in mid-July during daylight from some intertwined bushes, including *Vitis* and *Argyranthemum pinnatifidum*, on an abandoned cultivated land. No *Rubus* was present, so the question of the host plant remains open, or rather the circumstances suggest that the species is polyphagous.

It is interesting how a species whose distribution is neither temporally nor locally very limited went unnoticed for so long.

Laemophloeidae

***Placonotus donacioides* (Wollaston, 1854)**

Due to the publication of Lefkovitch (1962), there has been some confusion about the *Placonotus* species from the Madeiran archipelago. In it, the two species *P. donacioides* and *P. granulatus*, described extensively by Wollaston (1854), are synonymised under the name *donacioides*, whereas his description is that of *granulatus*. This has already been corrected by Ratti (1972), who also provided a key for the two species, which is herewith clarified and illustrated in Table 1 and Plate 1:

Table 1 – Morphological features used to recognise both *Placonotus* species present in Madeira Island.

Placonotus donacioides (Wollaston 1854) Larger, 3,3-3,5 mm.	***Placonotus granulatus*** (Wollaston 1854) Smaller, 2,5-2,75 mm.
Prothorax distinctly narrowed behind, its hind angles rather rounded, its fore angles hardly prominent, clearly transverse, about 1,2 times broader than long.	Prothorax nearly quadrate, hardly narrowed behind, 1,0-1,1 times broader than long. Its hind angles and its fore angles clearly protruding.
Piceous, the elytrae with a somewhat variable pattern: shoulders and a longitudinal stripe on the second interstria, which can also be divided into two spots, lighter.	Uniformly coloured, lighter or darker brown, without recognizable pattern.
The sides of the elytrae nearly parallel until just before the apex, rather truncate.	Elytrae from the middle on narrowed, its apex, therefore, more rounded.
Last sternit of the male with a shallow groove, its apex only shortly incised (Fig. 1B). Tegmas and aedeagus as in Fig. 1C.	Last sternit of the male without groove, its apex only deeply incised (Fig. 1E). Tegmas and aedeagus as in Fig. 1F.
Known only from Madeira.	Known from Madeira, Canary Islands and Azores.

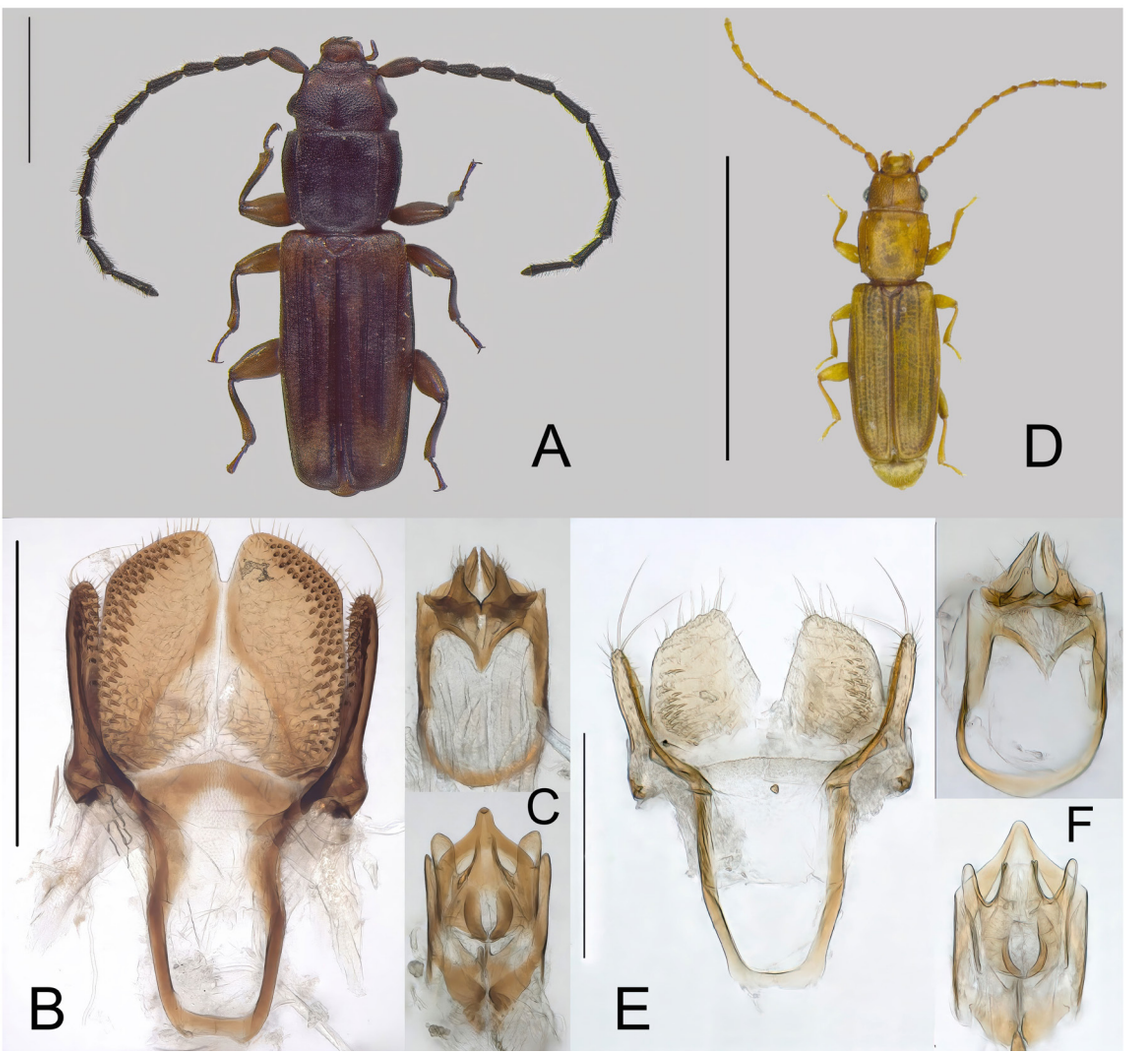

Plate I – (**A-C**), *Placonotus donacioides* (Wollaston) ♂ specimen from Fajã do Rodrigues, Madeira; (**A**) habitus, bar = 1 mm, (**B-C**) last sternit, tegmen and aedeagus, bar = 0.5 mm; (**D-F**): *Placonotus granulatus* (Wollaston) ♂ specimen from Teno Forest, Tenerife; (**C**) habitus, bar = 2.51 mm, (**E-F**) last sternit, tegmen and aedeagus, bar = 0.2 mm.

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