



HAL
open science

An annotated list of the Blattodea (Insecta) described by Henri de Saussure. Part 2: the Anaplectidae

John Hollier, Judith Marshall, Frédéric Legendre

► To cite this version:

John Hollier, Judith Marshall, Frédéric Legendre. An annotated list of the Blattodea (Insecta) described by Henri de Saussure. Part 2: the Anaplectidae. *Revue Suisse de Zoologie*, 2022, 129 (2), pp.303-308. 10.35929/rsz.0077 . mnhn-03887491

HAL Id: mnhn-03887491

<https://mnhn.hal.science/mnhn-03887491>

Submitted on 6 Dec 2022

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.



An annotated list of the Blattodea (Insecta) described by Henri de Saussure. Part 2: the Anaplectidae

Authors: Hollier, John, Marshall, Judith, and Legendre, Frédéric

Source: Revue suisse de Zoologie, 129(2) : 303-308

Published By: Muséum d'histoire naturelle, Genève

URL: <https://doi.org/10.35929/RSZ.0077>

BioOne Complete (complete.BioOne.org) is a full-text database of 200 subscribed and open-access titles in the biological, ecological, and environmental sciences published by nonprofit societies, associations, museums, institutions, and presses.

Your use of this PDF, the BioOne Complete website, and all posted and associated content indicates your acceptance of BioOne's Terms of Use, available at www.bioone.org/terms-of-use.

Usage of BioOne Complete content is strictly limited to personal, educational, and non - commercial use. Commercial inquiries or rights and permissions requests should be directed to the individual publisher as copyright holder.

BioOne sees sustainable scholarly publishing as an inherently collaborative enterprise connecting authors, nonprofit publishers, academic institutions, research libraries, and research funders in the common goal of maximizing access to critical research.

An annotated list of the Blattodea (Insecta) described by Henri de Saussure. Part 2: the Anaplectidae

John Hollier^{1*}, Judith Marshall² & Frédéric Legendre³

¹ *Muséum d'histoire naturelle de Genève, C.P. 6434, CH-1211 Genève 6, Switzerland*

² *Natural History Museum, Cromwell Road, London SW7 5BD, UK*

³ *Institut de Systématique, Evolution, Biodiversité (ISYEB), Muséum national d'Histoire naturelle, CNRS, Sorbonne Université, EPHE, Université des Antilles, C.P. 50, 57 rue Cuvier, F-75005 Paris, France*

* *Corresponding author: john.hollier@ville-ge.ch*

Abstract: Henri de Saussure described 20 species currently placed in the family Anaplectidae, some of them in collaboration with Leo Zehntner. These species are listed alphabetically with an account of the type specimens in the Muséum d'histoire naturelle de Genève. The location of type specimens in other museums is given where known. The current binominal combination for each species is provided.

Keywords: Cockroaches - Geneva - London - Mexico.

INTRODUCTION

Henri de Saussure (1829-1905) was a prolific Genevan naturalist who described over three thousand species and many higher taxa (Hollier & Hollier, 2013). His interest in cockroaches began with his expedition to the Antilles and Mexico in 1854-1856 (Hollier & Hollier, 2012), and his first publications on the group were descriptions of species he had captured during his trip, or specimens sent to him by François Sumichrast, a Swiss naturalist who had accompanied Saussure on his exhibition but remained in Mexico when Saussure returned to Geneva. He returned to this insect group in the 1890s, partly working with the young Swiss entomologist Leo Zehntner (1864-1961) who acted as Saussure's assistant before going on to a distinguished career as a tropical applied entomologist (Hollier & Hollier, 2018). Saussure (alone and with Zehntner) is the author of 578 species level names in the Blattodea. The early descriptions are generally rudimentary and in most of his descriptions Saussure did not designate holotypes or even enumerate the number of specimens he had studied. He did not always state where the specimens were deposited. Nomenclature follows Beccaloni (2014).

Saussure described 20 species currently placed in the family Anaplectidae. These are listed in the following.

ARRANGEMENT AND FORMAT

The species are listed alphabetically following the format used in Hollier *et al.* (2020).

The following abbreviations are used:

CSF	Cockroach Species Files Online (Beccaloni, 2014)
MCSN	Museo Civico di Storia Naturale "Giacomo Doria", Genoa
MHNG	Muséum d'histoire naturelle de Genève
MIZW	Museum and Institute of Zoology, Warsaw
MNHN	Muséum national d'histoire naturelle, Paris
NHMUK	Natural History Museum, London

CATALOGUE

africana Saussure, 1895: 70-71 [*Anaplecta*]

Africa equatorialis; Ladò (E. Dabbene). Unspecified number of ♀.

No specimens found in the MHNG collection. There is a ♀ specimen in the MCSN labelled as the holotype (Poggi, 2021).

Anaplecta cincta africana Saussure, 1895

alaris Saussure & Zehntner, 1893: 19, 27 [*Anaplecta*]

Peru (Mus. Genavense). Unspecified series.

The MHNG collection contains 2 specimens. A ♀ specimen (MHNG-ARTO-0020348) with labels: "♀

Perou, Mr C. Jelsky" [handwritten on ruled white card]; "Anaplecta alaris Sauss." [handwritten on green paper]; "Syntypus" [printed on red paper]. The specimen is glued to a small card mount, with the right front wing roughly spread. The right hind wing is glued to a separate card mount on the same pin. The head and the anterior of the thorax are missing, and the front legs are hidden by the mount. The left hind wing, the tarsi of the right middle leg and the tibia and tarsi of both hind legs are lost. There is insect feeding damage to the end of the abdomen. A damaged specimen (MHNG-ARTO-0020347) with labels: "Monte-Rico, 1870, Pérou C. Jelski" [handwritten on white paper]; "Perou M. C Jelsky" [handwritten on ruled white card]; "Anaplecta alaris Sauss." [handwritten on green paper]; "Syntypus" [printed on red paper]. The specimen is glued to a small card mount, with the wings folded. Most of the right antenna and most of the left antenna, the ends of the femur, tibia and tarsi of all legs and the abdomen are lost. Box Blattodea 27.

Anaplecta alaris Saussure & Zehntner, 1893

albomarginata Saussure & Zehntner, 1893: 20, 26 [*Anaplecta*]

Mexico, Tabasco (H. H. Smith). Unspecified number of ♀. No specimens found in the MHNG collection. There is a ♀ specimen in the NHMUK (NHMUK014422956) with the printed label "Tabasco, Teapa, March, H.H. Smith", labelled as the holotype.

Anaplecta albomarginata Saussure & Zehntner, 1893

azteca Saussure, 1868: 97 [*Anaplecta*]

Mexico. Unspecified number of ♂ and ♀.

Saussure (1870) stated that he had five ♂ and three ♀ collected by Sumichrast in Orizaba.

The MHNG collection contains six specimens. A ♂ specimen (MHNG-ARTO-0020328) with labels: "♂ R. Blanco, Mexique, Sumichrast" [handwritten on ruled white card]; "Anaplecta Azteca Sss. ♂" [handwritten on green paper]; "Syntypus" [printed on red paper]. The specimen is directly pinned, with the wings folded. Most of both antennae, both front legs, the left middle leg and the tarsi of the right hind leg are lost. A ♂ specimen (MHNG-ARTO-0020329) with labels: "♂ R. Blanco, Mexique, env. Sumichrast" [handwritten on ruled white card]; "Anaplecta Azteca Sss. ♂" [handwritten on green paper]; "Syntypus" [printed on red paper]. The specimen is directly pinned, with the wings folded. Both front legs, the tarsi of the left middle leg, the tarsi of the right hind leg and the entire left hind leg are missing, and the abdomen is also lost. A ♀ specimen (MHNG-ARTO-0020330) with labels: "♀ R. Blanco, Mexique, Sumichrast" [handwritten on ruled white card]; "Anaplecta Azteca Sss. ♀" [handwritten on green paper]; "Syntypus" [printed on red paper]. The specimen is directly pinned, with the wings folded. Most of the right antenna, the left front leg, both middle legs and both hind legs are missing. The abdomen is detached and glued to

a card mount secured on the original pin. A ♀ specimen (MHNG-ARTO-0020331) with labels: "♀ R. Blanco, Mexique, Sumichrast" [handwritten on ruled white card]; "Anaplecta Azteca Sss. ♀" [handwritten on green paper]; "Syntypus" [printed on red paper]. The specimen is directly pinned, with the wings folded. The left middle leg, the left hind leg, and the tarsi of the right hind leg are missing. The left hind wing is detached and glued to a card mount secured on the original pin. A ♂ specimen (MHNG-ARTO-0020332) with labels: "♂ R. Blanco, Mexique, Sumichrast" [handwritten on ruled white card]; "Anaplecta Azteca Sss. ♂" [handwritten on green paper]; "Syntypus" [printed on red paper]. The specimen is directly pinned, with the wings folded. The antennae, front legs, middle legs and much of the abdomen are missing, and the specimen has been repaired with glue so that the hind legs are stuck to the rest of the abdomen. A ♂ specimen (MHNG-ARTO-0020333) with labels; "Anaplecta Azteca Sss. ♂" [handwritten on green paper]; "Syntypus" [printed on red paper]. The specimen is represented by fragments glued to a card mount: the left front wing, both hind wings, the abdomen and parts of two legs are present. Box Blattodea 27. The whereabouts of the other syntypes is unknown. Maes *et al.* (2020) mention a ♂ lectotype in the MHNG but do not explicitly designate one or indicate which specimen is referred to; this cannot be accepted as a valid lectotype designation. *Anaplecta azteca* Saussure, 1868

decipiens Saussure & Zehntner, 1893: 19, 27, pl. 3 fig. 5, pl. 4 figs 10-11 [*Anaplecta*]

Mexico, Vera Cruz and Tabasco (H. H. Smith). Unspecified number of ♂ and ♀.

No specimens found in the MHNG collection. There are two specimens in the NHMUK. A ♂ (NHMUK014422957) and a ♀ (NHMUK014422958) are mounted together, with the printed data label "Vera Paz, El Jicaro, Champion". Although the locality does not match that in the description these specimens may well be syntypes (Saussure may have confused Vera Paz and Vera Cruz in his notes).

A junior synonym of *Anaplecta fallax* Saussure, 1862

dohrniana Saussure & Zehntner, 1893: 19, 28, pl. 3 fig. 3, pl. 4 fig. 15 [*Anaplecta*]

Guatemala (coll. Dohrn). Unspecified number of ♂ and ♀. The MHNG collection contains one ♀ specimen (MHNG-ARTO-0020352) with labels: "Guatemala" [handwritten on a strip of white card]; "Anaplecta Dohrniana ♀ Sauss." [handwritten on green paper]; "Syntypus" [printed on red paper]. The specimen is directly pinned, with the right front wing roughly spread. The left front wing and right hind wing are glued to a card mount on the original pin. The right antenna is lost. Box Blattodea 27. Much of Dohrn's collection is currently in the MIZW, but no specimens of this species were found there.

Anaplecta dohnrniana Saussure & Zehntner, 1893

domestica Saussure & Zehntner, 1893: 19, 26-27 [*Anaplecta*]

Guatemala, in the city (Champion). Unspecified number of ♀.

The MHNG collection contains two specimens. A ♀ specimen (MHNG-ARTO-0020349) with labels: "Guatemala City, Champion" [printed on white card]; "Anaplecta domestica Sauss." [handwritten on green paper]; "Syntypus" [printed on red paper]. The specimen is glued to a card mount, with the wings folded, and some of the legs are hidden by the mount. Most of both antennae and the tarsi of the right hind leg are lost. A specimen labelled as ♂ (MHNG-ARTO-0020350) with labels: "♂" [printed on white card]; "Guatemala City, Champion" [printed on white card]; "Anaplecta domestica Sauss." [handwritten on green paper]; "Syntypus" [printed on red paper]. The specimen is glued to a card mount, with the left front wing roughly spread. The head and front of the thorax, the left hind wing, both front legs and the left middle and hind legs are missing. Although the original description does not mention ♂ characters, the locality label indicates that this specimen is a syntype. Box Blattodea 27. There are four ♀ specimens in the NHMUK (NHMUK014422959-NHMUK014422962), each with the printed data label "Guatemala City, Champion" and labelled as syntypes.

Anaplecta domestica Saussure & Zehntner, 1893

elliptica Saussure & Zehntner, 1893: 19, 27-28, pl. 3 fig. 2, pl. 4 fig. 8 [*Anaplecta*]

Guatemala (coll. Dohrn). Unspecified number of ♀.

No specimens found in the MHNG collection. Much of Dohrn's collection is currently in the MIZW, but no specimens of this species were found there and the type material is apparently lost.

Anaplecta elliptica Saussure & Zehntner, 1893

fallax Saussure, 1862: 163-164 [*Anaplecta*]

Guatemala. Unspecified series.

The MHNG collection contains two specimens under this name, but one of them (MHNG-ARTO-0020343) is from Mexico and cannot be part of the type series. The other specimen (MHNG-ARTO-0020341) has the labels: "Guatemala, coll. Guérin" [handwritten on ruled white card]; "Anaplecta fallax Sauss. ♀" [handwritten on green paper]; "Syntypus" [printed on red paper]. The specimen is directly pinned, with the wings folded. The left antenna and all of the legs are lost. The type series was not defined and so this specimen must be considered a syntype. Box Blattodea 27.

Anaplecta fallax Saussure, 1862

grandipennis Saussure & Zehntner, 1893: 20, 25, pl. 4 fig. 5 [*Anaplecta*]

Brazil, Pernambuco. Unspecified number of ♂ and ♀.

The MHNG collection contains four specimens. A ♀ specimen (MHNG-ARTO-0020336) with labels:

"Pernambouc, Brésil, M H de Saussure" [handwritten on ruled white card]; "Anaplecta grandipennis Sauss. ♀" [handwritten on green paper]; "Syntypus" [printed on red paper]. The specimen is glued to a card mount, with the wings roughly folded. Most of both antennae, the tarsi of the right front and middle legs and all of both hind legs are lost. A ♀ specimen (MHNG-ARTO-0020337) with labels: "Pernambouc, Brésil, M H de Saussure" [handwritten on ruled white card]; "Anaplecta grandipennis Sauss. ♀" [handwritten on green paper]; "Syntypus" [printed on red paper]. The specimen is glued to a card mount, with the wings roughly folded. Most of both antennae and the left middle and hind legs are lost. A specimen (MHNG-ARTO-0020338) with labels: "Pernambouc, Brésil, M H de Saussure" [handwritten on ruled white card]; "Anaplecta grandipennis Sauss. ♀" [handwritten on green paper]; "Syntypus" [printed on red paper]. The specimen is glued to a card mount, with the wings folded. The left front leg, both middle legs and both hind legs are missing. The end of the abdomen is not visible and the sex of the specimen is not identifiable. A specimen (MHNG-ARTO-0020339) with labels: "Pernambouc, Brésil, M H de Saussure" [handwritten on ruled white card]; "Anaplecta grandipennis Sauss. ♀" [handwritten on green paper]; "Syntypus" [printed on red paper]. The specimen is glued to a card mount. There is insect feeding damage to the specimen and all appendages and much of the abdomen is lost. Box Blattodea 27.

Anaplecta grandipennis Saussure & Zehntner, 1893

javanica Saussure, 1895: 71 [*Anaplecta*]

Java; Batavia. Unspecified series.

The MHNG collection contains three specimens. A specimen (MHNG-ARTO-0020355) with labels: "Batavie, été 85" [handwritten on white card]; "Anaplecta javanica Sss." [handwritten on yellow paper]; "Syntypus" [printed on red paper]. The specimen is pinned to a card mount, with the wings roughly folded. Only the left front and middle legs and right middle and hind legs are visible, and it was not possible to identify the sex of the specimen. A specimen (MHNG-ARTO-0020356) with labels: "Batavie, été 85" [handwritten on white card]; "Anaplecta javanica Sss." [handwritten on yellow paper]; "Syntypus" [printed on red paper]. The specimen is glued to a card mount; the left front and hind wings are detached and glued to a second card mount secured on the original pin. A piece of detached antenna and parts of two detached legs are glued next to the specimen; the left legs are in place, the hind leg having lost the tarsi, but the right legs are hidden by the mount and it was not possible to identify the sex of the specimen. A specimen (MHNG-ARTO-0020357) with labels: "Batavie, été 85" [handwritten on white card]; "Anaplecta javanica Sss." [handwritten on yellow paper]; "Syntypus" [printed on red paper]. The specimen is glued to a card mount, with the left wings roughly spread. The antennae and the right wings are missing. The legs of the left side are hidden by

the mount. There is insect feeding damage to the end of the abdomen and it was not possible to identify the sex of the specimen.

Box Blattodea 27.

Anaplecta javanica Saussure, 1895

major Saussure & Zehntner, 1893: 20, 24, pl. 4 fig. 6 [*Anaplecta*]

Peru, Tarma. Unspecified number of ♀.

The MHNG collection contains one hind wing glued to a card mount (MHNG-ARTO-0020351). The mount has “*Anaplecta peruviana* Sss ♀ major Sss” handwritten on it, and the pin holding the mount has the labels “*Anaplecta major* Sauss. ♀” [handwritten on green paper] and “Syntypus” [printed on red paper]. The type series was not defined and so this specimen must be considered part of a syntype. Box Blattodea 27.

Anaplecta major Saussure & Zehntner, 1893

mexicana Saussure, 1868: 97 [*Anaplecta*]

Mexico. Unspecified number of ♂ and ♀.

Saussure (1870) stated that he had fourteen ♂ and fifteen ♀ collected by Sumichrast in Orizaba.

The MHNG collection contains eleven specimens. A ♂ specimen (MHNG-ARTO-0020310) with labels: “♂ R. Blanco, Mexique, Sumichrast” [handwritten on ruled white card]; “*Anaplecta mexicana* Sauss.” [handwritten on green paper]; “Syntypus” [printed on red paper]. The specimen is directly pinned, with the wings folded. The left antenna and the right legs are missing. A ♂ specimen (MHNG-ARTO-0020311) with labels: “♂ R. Blanco, Mexique, Sumichrast” [handwritten on ruled white card]; “*Anaplecta mexicana* Sauss. ♂” [handwritten on green paper]; “Syntypus” [printed on red paper]. The specimen is directly pinned, with the wings folded. The right front leg, the tarsi of the left middle leg and the right hind leg are missing. A ♂ specimen (MHNG-ARTO-0020312) with labels: “♂ R. Blanco, Mexique, Sumichrast” [handwritten on ruled white card]; “*Anaplecta mexicana* Sauss.” [handwritten on green paper]; “Syntypus” [printed on red paper]. The specimen is directly pinned, with the wings folded. The right front leg, right middle leg and both hind legs are missing. There is insect feeding damage to the abdomen, and the terminalia are lost. A ♂ specimen (MHNG-ARTO-0020313) with labels: “♂ R. Blanco, Mexique, Sumichrast” [handwritten on ruled white card]; “*Anaplecta mexicana* Sauss. ♂” [handwritten on green paper]; “Syntypus” [printed on red paper]. The specimen is directly pinned, with the wings folded. The ends of both antennae, the tibia and tarsi of the left front leg and both hind legs are missing. A ♀ specimen (MHNG-ARTO-0020314) with labels: “♀ R. Blanco, Mexique” [handwritten on ruled white card]; “*Anaplecta mexicana* Sauss.” [handwritten on green paper]; “Syntypus” [printed on red paper]. The specimen is directly pinned, with the wings folded. Both antennae and both hind legs are lost. The left hind wing

is detached and glued to a card mount on the original pin. A ♂ specimen (MHNG-ARTO-0020315) with labels: “♂ R. Blanco, Mexique, Sumichrast” [handwritten on ruled white card]; “*Anaplecta mexicana*” [handwritten on green paper]; “Syntypus” [printed on red paper]. The specimen is directly pinned, with the wings roughly folded. Both antennae, the left front leg, the tarsi of the right front leg, the left middle leg, both hind legs and the left front wing are missing. The left hind wing is detached and glued to a card mount on the original pin. A ♀ specimen (MHNG-ARTO-0020316) with labels: “*Anaplecta Mexicana* Sauss.” [handwritten on green paper]; “Syntypus” [printed on red paper]. The specimen consists of fragments: the wings, the prothoracic tergite and the end of the abdomen are glued to a card mount. A ♀ specimen (MHNG-ARTO-0020317) with labels: “♀ R. Blanco, Mexique, Sumichrast” [handwritten on ruled white card]; “*Anaplecta mexicana* Sauss. ♀” [handwritten on green paper]; “Syntypus” [printed on red paper]. The specimen is directly pinned, with the wings folded. The left antenna, the left front leg, the tarsi of the right middle leg and both hind legs are lost. The specimen is broken where the pin was inserted and the rest of the thorax and the abdomen have been glued to a card mount on the original pin. A ♀ specimen (MHNG-ARTO-0020318) with labels: “♀ R. Blanco, Mexique, Sumichrast” [handwritten on ruled white card]; “*Anaplecta mexicana* Sauss. ♀” [handwritten on green paper]; “Syntypus” [printed on red paper]. The specimen is directly pinned, with the wings folded. Most of both antennae, the left front leg, right middle leg and the tarsi of the left hind leg are missing. A ♀ specimen (MHNG-ARTO-0020319) with labels: “♀ R. Blanco, Mexique, Sumichrast” [handwritten on ruled white card]; “*Anaplecta mexicana* Sss.” [handwritten on green paper]; “Syntypus” [printed on red paper]. The specimen was directly pinned, with the wings folded, but only the wings and part of the thorax remain. A ♀ specimen (MHNG-ARTO-0020320) with labels: “♀ R. Blanco, Mexique, Sumichrast” [handwritten on ruled white card]; “*Anaplecta mexicana* Sauss.” [handwritten on green paper]; “Syntypus” [printed on red paper]. The specimen was directly pinned, with the wings folded, but only the wings and part of the thorax remain directly on the pin. Part of the abdomen is glued to a card mount on the original pin. Box Blattodea 27.

There are two specimens labelled as syntypes in the MNHN. MNHN-EP-EP1396 with handwritten labels: “Mexique” and “6056” and MNHN-EP-EP1397 with a handwritten label: “♀ R. Blanco, Mexique”. The whereabouts of the other syntypes is unknown. Maes *et al.* (2020) mention a ♂ lectotype in the MHNG but do not explicitly designate one or indicate which specimen is referred to; this cannot be accepted as a valid lectotype designation.

Anaplecta mexicana Saussure, 1868

moxa Saussure & Zehntner, 1893: 19, 23, pl. 4 figs 3-4 [*Anaplecta*]

Peru, Tarma (Mus. Genavense). Unspecified number of ♀. The MHNG collection contains one ♀ specimen (MHNG-ARTO-0020326) with labels: “Tarma, Pérou, M H de Saussure” [handwritten on ruled white card]; *Anaplecta moxa* Sauss. ♀ [handwritten on green paper]; “Syntypus” [printed on red paper]. The specimen is directly pinned, with the wings roughly spread. The left hind wing is glued to a card mount on a separate pin (MHNG-ARTO-0020327) with the label “Pérou, M H. de Saussure” [handwritten on ruled card], and “*Anaplecta moxa* Ss. Pérou” is handwritten on the mount. The left front leg and the tarsi of both middle and both hind legs are missing, and the abdomen appears to have been strengthened or re-attached with glue. The type series was not defined and so this specimen is considered a syntype. Box Blattodea 27.

Anaplecta moxa Saussure & Zehntner, 1893

nahua Saussure, 1868: 354 [*Anaplecta*]

Mexico. Unspecified series.

The MHNG collection contains one damaged specimen (MHNG-ARTO-0020325) with labels: “Mexique” [handwritten on ruled white card]; “*Anaplecta nahua* Sauss.” [handwritten on green paper]; “Syntypus” [printed on red paper]. The specimen is directly pinned, with the wings roughly spread. The left hind wing is glued to a card mount on a separate pin (MHNG-ARTO-0020324) with the label “*Anaplecta nahua* Sauss” [handwritten on green paper]. Most of both antennae, both middle legs, the tarsi of the left hind leg, the entire right hind leg and the abdomen are missing. The type series was not defined and so this specimen is considered a syntype. Box Blattodea 27.

Anaplecta nahua Saussure, 1868

otomia Saussure, 1869: 238, fig. 18 [*Anaplecta*]

Mexico. Unspecified number of ♀.

The MHNG collection contains one ♀ specimen (MHNG-ARTO-0020335) with labels: “♀ Mexique, M H. de Saussure” [handwritten on ruled white card]; “*Anaplecta otomia* Sauss. ♀” [handwritten on green paper]; “Syntypus” [printed on red paper]. The specimen is directly pinned, with the wings roughly spread. The left hind wing is glued to a card mount on a separate pin (MHNG-ARTO-0020334) with labels: “♀ Mexique, M H. de Saussure” [handwritten on ruled white card]; “*Anaplecta otomia* Sauss. ♀” [handwritten on green paper]. The right front leg, the tarsi of the left front leg and the entire left hind leg are lost and the abdomen is partly detached. The type series was not defined and so this specimen is considered a syntype. Box Blattodea 27.

Anaplecta otomia Saussure, 1869

parvipennis Saussure & Zehntner, 1893: 19, 26 [*Anaplecta*]

Mexico, Tabasco (H. H. Smith). Unspecified series (variation mentioned).

The MHNG collection contains one ♂ specimen (MHNG-ARTO-0020340) with labels: “Teapa, Tabasco, H.H.S.” [printed on white card]; “*Anaplecta parvipennis* Sauss. ♂” [handwritten on green paper]; “Syntypus” [printed on red paper]. The specimen is directly pinned, with the front wings spread. The left hind wing and the left middle leg are glued to a card mount on the original pin. The right antenna, the claw of the left hind leg and the tarsi of the right hind leg are missing. Box Blattodea 27. There are three specimens in the NHMUK labelled as syntypes. Two ♂ (NHMUK014422963 and NHMUK014422964) and one ♀ (NHMUK014422965), all with printed data labels “Tabasco, Teapa, H.H. S.”.

A junior synonym of *Anaplecta fallax* Saussure, 1862

peruviana Saussure & Zehntner, 1893: 18, 23 [*Anaplecta*]

Peru. Unspecified series.

The MHNG collection contains one ♂ specimen (MHNG-ARTO-0020321) with labels: “♂ Tarma, Pérou, M H de Saussure” [handwritten on ruled white card]; “*Anaplecta peruviana* Sauss. ♂” [handwritten on green paper]; “Syntypus” [printed on red paper]. The specimen is directly pinned, with the wings roughly folded. The abdomen is detached and glued to a card mount secured on the original pin, the right hind wing is glued to a card mount on a separate pin (MHNG-ARTO-0020322) with the label “*Anaplecta peruviana* Sauss. ♂” [handwritten on green paper]. The right antenna, the tibia and tarsi of the right middle leg and the tarsi of the right hind leg are missing. The type series was not defined and so this specimen is considered a syntype. Box Blattodea 27.

Anaplecta peruviana Saussure & Zehntner, 1893

replicata Saussure & Zehntner, 1893: 20, 25, pl. 4 fig. 12 [*Anaplecta*]

Brazil, Pernambuco. Unspecified number of ♂ and ♀.

The MHNG collection contains three specimens. A ♀ specimen (MHNG-ARTO-0020346) with labels: “Pernambuc, Brésil, M H. de Saussure” [handwritten on ruled white card]; “*Anaplecta replicata* Sauss. ♀” [handwritten on green paper]; “Syntypus” [printed on red paper]. The specimen is glued to a card point, with the wings roughly spread. The right wings are glued to a transparent mount secured on the original pin. The left hind wing is glued to a card mount on a separate pin (MHNG-ARTO-0020342), with “*Anaplecta replicata* Sss ♀” handwritten on the mount. The antennae are lost and apart from the femorae the legs are hidden by the mount. A ♀ specimen (MHNG-ARTO-0020345) with labels: “Pernambuc, Brésil, M H. de Saussure” [handwritten on ruled white card]; “*Anaplecta replicata* Sauss. ♀” [handwritten on green paper]; “Syntypus” [printed on red paper]. The specimen is glued to a card point, with

the wings folded. Most of the left antenna is missing and the legs are largely hidden by the mount. A damaged specimen (MHNG-ARTO-0020344) with labels: “Pernambuc, Brésil, M H. de Saussure” [handwritten on ruled white card]; “*Anaplecta replicata* Sauss. ♂?” [handwritten on green paper]; “Syntypus” [printed on red paper]. The specimen is glued to a card point, with the wings roughly folded. The antennae, the right front leg, the right middle leg, both hind legs and the abdomen are missing. Box Blattodea 27.

Anaplecta replicata Saussure & Zehntner, 1893

tolteca Saussure, 1868: 354 [*Anaplecta*]

Mexico. Unspecified number of ♀.

The MHNG collection contains one ♀ specimen (MHNG-ARTO-0020323) with labels: “♀ Mexique env. Sumichrast” [handwritten on ruled white card]; “*Anaplecta tolteca* Sauss. ♀” [handwritten on green paper]; “Syntypus” [printed on red paper]. The specimen is pinned on a fine pin that is supported by a strip of cork on a larger one. The head and the left hind wing are glued to a card mount on the fine pin. Most of both antennae, both right wings, the claw of the left middle leg, the entire right middle and hind legs and the tibia and tarsi of the left hind leg are missing. Box Blattodea 27.

Anaplecta tolteca Saussure, 1868

In addition, the MHNG collection contains a syntype of *Anaplecta dahomensis* Shelford, 1906 (MHNG-ARTO-0020358) that was donated by Malcolm Burr (see Hollier, 2008) and a paratype of *A. falcifer* Hebard, 1925 (MHNG-ARTO-0020353) and two paratypes of *A. hemiscotia* Hebard, 1920 (MHNG-ARTO-0020359 and MHNG-ARTO-0020360) that were probably exchanged for Saussure syntypes by Hebard (see Hollier & Heads, 2014).

ACKNOWLEDGEMENTS

Thanks are due to Anita Hollier and Peter Schwendinger for comments on the manuscript. Special thanks are due to Emmanuelle Werlen for entering the MHNG specimen information into the MHNG database. We are grateful to Ben Price for exporting data from the NHMUK database to facilitate searching, to Roberto Poggi for information about the holdings of the MCSN and to David Szymroszczyk for information about the holdings of the MIZW.

REFERENCES

- Beccaloni G.W. 2014. Cockroach Species File Online. Version 5.0/5.0. Available at <http://Cockroach.SpeciesFile.org> (accessed 14.i.2020).
- Hebard M. 1920. The Blattidae of Panama. *American Entomological Society Memoirs* 4: 1-148, pl. 1-6.
- Hebard M. 1925. Studies in the Dermaptera and Orthoptera of Ecuador. *Proceedings of the Academy of Natural Sciences of Philadelphia* 76: 109-248.
- Hollier A., Hollier J. 2012. Henri de Saussure’s expedition to Mexico and the West Indies (1854-56). *Antenna* 36(4): 231-238.
- Hollier A., Hollier J. 2013. A re-evaluation of the nineteenth-century naturalist Henri de Saussure. *Archives of Natural History* 40(2): 302-319.
- Hollier J.A. 2008. An annotated list of Malcolm Burr’s Blattodea, Dermaptera and Orthoptera (Insecta) types in the collections of the Muséum d’histoire naturelle in Geneva. *Entomologist’s monthly Magazine* 144: 157-162.
- Hollier J., Heads S.W. 2014. The type specimens of Orthoptera described by American entomologists in the collection of the Muséum d’histoire naturelle de Genève. *Revue suisse de Zoologie* 121: 63-76.
- Hollier J., Hollier A. 2018. Leo Zehntner, Swiss pioneer of tropical applied entomology. *Antenna* 42(2): 56-60.
- Hollier J., Marshall J., Legendre F. 2020. An annotated list of the Blattodea (Insecta) described by Henri de Saussure. Part 1: the Corydiidae. *Revue suisse de Zoologie* 127(2): 341-248.
- Maes J.-M., Estrada-Álvarez J., Sormani C.G. 2020. Catalogo ilustrado de las cucarachas (Blattodea) de Nicaragua. *Revista Nicaragüense de Entomología* 213: 3-108.
- Poggi R. 2021. Catalogo dei tipi di Blattodei del Museo Civico di Storia Naturale “G. Doria” di Genova. *Annali del Museo Civico di Storia Naturale “G. Doria”* 114: 123-161.
- Saussure H. de 1862. Orthoptera nova Americana (Diagnoses praeliminares). *Revue et Magasin de Zoologie Pure et Appliquée* 14: 163-171, 227-234.
- Saussure H. de 1868. Orthoptera species novae aliquot. *Revue et Magasin de Zoologie Pure et Appliquée* 20: 97-101, 354-357.
- Saussure H. de 1869. Mélanges Orthoptérologiques. Fascicule II. Blattides et Phasmides. *Mémoires de la Société de Physique et de l’histoire naturelle de Genève* 20: 227-328.
- Saussure H. de 1870. Famille des Blattides (pp. 1-123, plates 1-2). In: Milne Edwards H. (ed.). Mission Scientifique au Mexique et dans l’Amérique Centrale. Recherches Zoologiques 6 (section 1). *Imprimerie Imperial, Paris*, 533 pp., 8 pls.
- Saussure H. de 1895. Esplorazione del Giuba e dei suoi affluenti, compiuta dal Cap. V. Bottego durante gli anni 1892-93 sotto gli auspicii della Societa Geographica Italiana. Risultati Zoologici V. Ortoteri. *Annali del Museo Civico di Storia Naturale di Genova* 35: 67-93.
- Saussure H. de, Zehntner L. 1893. Blattidae (part) (pp. 13-104). In: Godman F.D., Salvin O. (eds). *Biologia Centrali-Americana. Insecta Orthoptera (Orthoptera Genuina) Volume 1. Porter, London*, 458 pp, 22 pls.
- Shelford R.W.C. 1906. Studies of the Blattidae. I. Remarks on the sub-families Ectobiinae and Phyllodrominae. *Transactions of the Entomological Society of London* 2: 231-248.