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Second contribution to knowledge of Dermestidae (Coleoptera) from Senegal

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Keywords:

Coleoptera; new status;
Dermestidae; new combination;
taxonomy; faunistics;
new species; Senegal.

Abstract. – Twelve species are mentioned from Senegal and recorded from the Senegal. A list of species known from Senegal is presented. *Dermalius* Háva, 2001 **stat. nov.** is removed from the genus *Dermestes* Linnaeus, 1758 and newly treated as an independent genus with type species *Dermalius maximus* (Pic, 1915) **comb. nov.** A new species, *Phradonoma coachei* **sp. nov.** from Senegal is described, illustrated and compared with similar species.

Háva J., 2021. – Second contribution to knowledge of Dermestidae (Coleoptera) from Senegal. *Faunitaxys*, 9(43) : 1 – 5.

ZooBank: <http://zoobank.org/636D1E94-04A9-444E-B76C-6A86BF812692>

Introduction

The beetle family Dermestidae recently contains about 1700 known species and subspecies worldwide (Háva 2015, 2021). Dermestidae from Senegal were recently treated by Gueye-Ndiaye (1991), Háva (2015, 2016), Herrmann & Háva (2009) and Háva & Coache (2020).

The present paper summarizes results of studying material collected by French entomologist Alain Coache in 2007, 2008, 2009, 2010 and 2018 in the course of Senegal expeditions.

Material and methods

The size of the beetles or of their body parts can be useful in species recognition and thus, the following measurements were made:

- **TL total length:** linear distance from anterior margin of pronotum to apex of elytra.

- **EW elytral width:** maximum linear transverse distance.

Species are arranged in alphabetical order, the nomenclature and zoogeography follow the catalogue by Háva (2015).

All given label data are in original spelling.

Mentioned material are deposited in the following collections:

- **AC:** Private collection of Alain Coache, La Brillanne, France.

- **JHAC:** Private Entomological Laboratory & Collection, Jiří Háva, Únětice u Prahy, Prague-west, Czech Republic.

- **MHNL:** Musée d'Histoire Naturelle de Lyon, Lyon, France.

Specimen of the presently described species are provided with red, printed label with the text as follows: « HOLOTYPE *Phradonoma coachei* sp. nov. Jiří Háva det. 2021 ».

Results

Subfamily Dermestinae

Dermalius Háva, 2001 **stat. nov.**

Dermestes subgenus *Dermalius* Háva, 2001: 147.

Dermalius maximus (Pic, 1915) **comb. nov.**

Dermestes maximus Pic, 1915: 45.

Dermestes (Dermalius) maximus Pic, 1915: Háva, 2001: 147; Háva & Coache, 2020: 16.

Material examined

– « Sénégal, Petite Cote, Nianing, 12.XI.2007, lumière, Alain Coache leg., 1 spec. (AC) »;

– « Sénégal, Petite Cote, Mbour Ird, ultra violet, 01.XI.2010, Alain Coache leg., 5 spec. (4 AC, 1 JHAC) »;

idem, « 08.XI.2010, 4 spec. (AC) ».

Remarks. – According to study of the recently collected material the species is newly combined as *Dermalius maximus* (Pic, 1915) **comb. nov.** and the subgenus *Dermalius* Háva 2001 is raised to an independent genus *Dermalius* **stat. nov.**

A species known from Benin, Burkina Faso, Cameroon, Congo, Gambia, Ghana, Ivory Coast, Mauretania, Senegal and Chad (Háva 2015, Háva & Coache 2020).

Dermestes (Dermestes) ater DeGeer, 1774

Material examined

– « Sénégal, Nianing, 14.II.2008, piège poisson, savane, Alain Coache leg., 1 spec. (AC) »;

– « Sénégal, Petite Cote, Nianing, ultra violet, 14.XI.2018, Alain Coache leg., 1 spec. (AC) ».

Remarks. – A cosmopolitan species.

Dermestes (Dermestes) leechi Kalík, 1952

Material examined. – « Sénégal, Petite Cote, Nianing, 17.I.2008, piège poisson, Alain Coache leg., 4 spec. (2 AC, 2 JHAC) ».

Remarks. – A species known from Azerbaijan, England (introduced), Scotland (introduced), Spain, Egypt, Eritrea, Mali, Morocco, Sebil Is., Senegal (Háva & Coache 2020), Sudan, Tunisia, Afghanistan, India, Iran, Nepal, Pakistan, SW Russia, Tajikistan, Turkmenistan and Uzbekistan.

Dermestes (Dermestinus) frischii Kugelann, 1792**Material examined**

- « Sénégal, Nianing, 14.II.2008, piège poisson, savane, Alain Coache leg., 3 spec. (AC) »;
- « Sénégal, Petite Cote, Nianing, 17.I.2008, piège poisson, Alain Coache leg., 11 spec. (10 AC, 1 JHAC) »;
- « Sénégal, Dakar, Parc National des Iles de la Madeleine au Sol, 21.III.2008, Alain Coache leg., 1 spec. (AC) ».

Remarks. – A cosmopolitan species.

Dermestes (Dermestinus) maculatus DeGeer, 1774**Material examined**

- « Sénégal, Nianing, 14.II.2008, piège poisson, savane, Alain Coache leg., 3 spec. (AC) »;
- « Sénégal, Petite Cote, Nianing, 17.I.2008, piège poisson, Alain Coache leg., 47 spec. (44 AC, 3 JHAC) »;
- « Sénégal, Petite Cote, Nianing, 26.I.2008, plage, poisson mort, Alain Coache leg., 4 spec. (AC) »;
- « Sénégal, Parc National du Sine Saloum, Réserve de Fathala, cadavre chacal, 29.IV.2009, Alain Coache leg., 1 spec. (AC) »;
- « Sénégal, Dakar, Parc National des Iles de la Madeleine au Sol, 21.III.2008, Alain Coache leg., 61 spec. (60 AC, 1 JHAC) ».

Remarks. – A cosmopolitan species.



Fig. 1. *Dermestes maculatus*, « Parc national des Iles de la Madeleine ».

Subfamily **Attageninae***Attagenus (Attagenus) fasciatus* (Thunberg, 1795)**Material examined**

- « Sénégal, Nianing, lumière, 12.VI.2010, Alain Coache leg., 1 spec. (AC) »;
- « Sénégal, Petite Cote, Nianing, 26.II.2008, à la lumière, Alain Coache leg., 4 spec. (AC) »;
- idem*, « 13.VI.2009, 2 spec. (AC, JHAC) »;
- idem*, « 14.VIII.2009, 5 spec. (AC) »;
- idem*, « 26.II.2008, 2 spec. (AC, JHAC) »;
- idem*, « 15.VIII.2009, 2 spec. (AC) »;
- idem*, « 19.IV.2009, 2 spec. (AC) »;
- idem*, « 28.VI.2008, 1 spec. (AC) »;
- idem*, « 24.V.2008, 1 spec. (AC) »;
- idem*, « 13.VI.2008, ultra violet, 2 spec. (AC) »;
- « Sénégal Parc National du Delta Saloum, Réserve de Fathala, ultra violet, 19.VI.2008, Alain Coache leg., 1 spec. (AC) »;

- « Sénégal, Petite Cote, Nianing, 23.VII.2010, Alain Coache leg., 3 spec. (AC) »;
- idem*, « 31.XI.2008, fauchage brousse, 4 spec. (3 AC, 1 JHAC) ».

Remarks. – A cosmopolitan species.

Attagenus (Attagenus) madoni Pic, 1942**Material examined**

- « Sénégal, Petite Cote, Nianing, fauchage savane, 25.X.2010, Alain Coache leg., 38 spec. (34 AC, 4 JHAC) »;
- « Sénégal, Petite Cote, Mbour Ird, fauchage, 01.XI.2010, Alain Coache leg., 25 spec., (21 AC, 4 JHAC) »;
- « Sénégal, Petite Cote, Mbour Ird, ultra violet, 05.X.2010, Alain Coache leg., 4 spec. (2 AC, 1 JHAC) »;
- « Sénégal, Petite Cote, Nianing, battage brousse, 11.VIII.2008, Alain Coache leg., 6 spec. (AC) »;
- idem*, « 14.XI.2007, fauchage et battage brousse, Alain Coache leg., 1 spec. (AC) ».

Remarks. – A species known from Gambia and Senegal.

Attagenus (Attagenus) postfasciatus (Pic, 1951)**Material examined**

- « Sénégal, Petite Cote, Nianing, battage en brousse, 11.VIII.2008, Alain Coache leg., 6 spec. (AC) »;
- « Sénégal, Petite Cote, Nianing, 14.II.2008, fauchage et battage en brousse, Alain Coache leg., 2 spec. (AC) ».

Remarks. – A species known from Senegal and Chad.

Attagenus (Attagenus) posticalis Fairmaire, 1878**Material examined**

- « Sénégal, Petite Cote, Nianing, dans la piscine, 05.II.2008, Alain Coache leg., 3 spec. (AC) »;
- « Sénégal, Petite Cote, Mbour Ird, fauchage, 01.XI.2010, Alain Coache leg., 10 spec. (AC) ».

Remarks. – A species known from Spain, Algeria, Egypt, Eritrea, Ethiopia, Mauretania, Morocco, Niger, Senegal, Sudan, Tunisia, Israel, Jordania, Kuwait, Oman, Qatar, Saudi Arabia, Syria, United Arab Emirates and Yemen.

Subfamily **Megatominae***Anthrenus (s. str.) senegalensis* Pic, 1927**Material examined**

- « Sénégal, Petite Cote, Nianing, battage en brousse, 11.VIII.2008, Alain Coache leg., 5 spec., J. Háva det. (AC) »;
- « Sénégal, Nianing, battage Acacia en fleur, 16.I.2007, Alain Coache leg., 1 spec. (AC) »;
- « Sénégal, Forêt de Ngazobil, fauchage, 27.X.2010, Alain Coache leg., 19 spec., J. Háva det. (14 AC, 5 JHAC) »;
- « Sénégal, Petite Cote, Forêt de Ngazobil Joal, fauchage, 17.X.2010, Alain Coache leg., 6 spec., J. Háva det. (4 AC, 2 JHAC) ».

Remarks. – A species known from Gambia, Guinea Bissau, Sierra Leone and Senegal.

Phradonoma cercyonoides (Reitter, 1887)

Material examined. – « Sénégal, Petite Cote, Nianing, fauchage brousse, 31.XI.2008, Alain Coache leg., 2 spec. (1 AC, 1 JHAC) ».

Remarks. – A species known from Egypt, Libya, Morocco, Nigeria, Senegal, Sudan, Western Sahara, Israel and Syria.

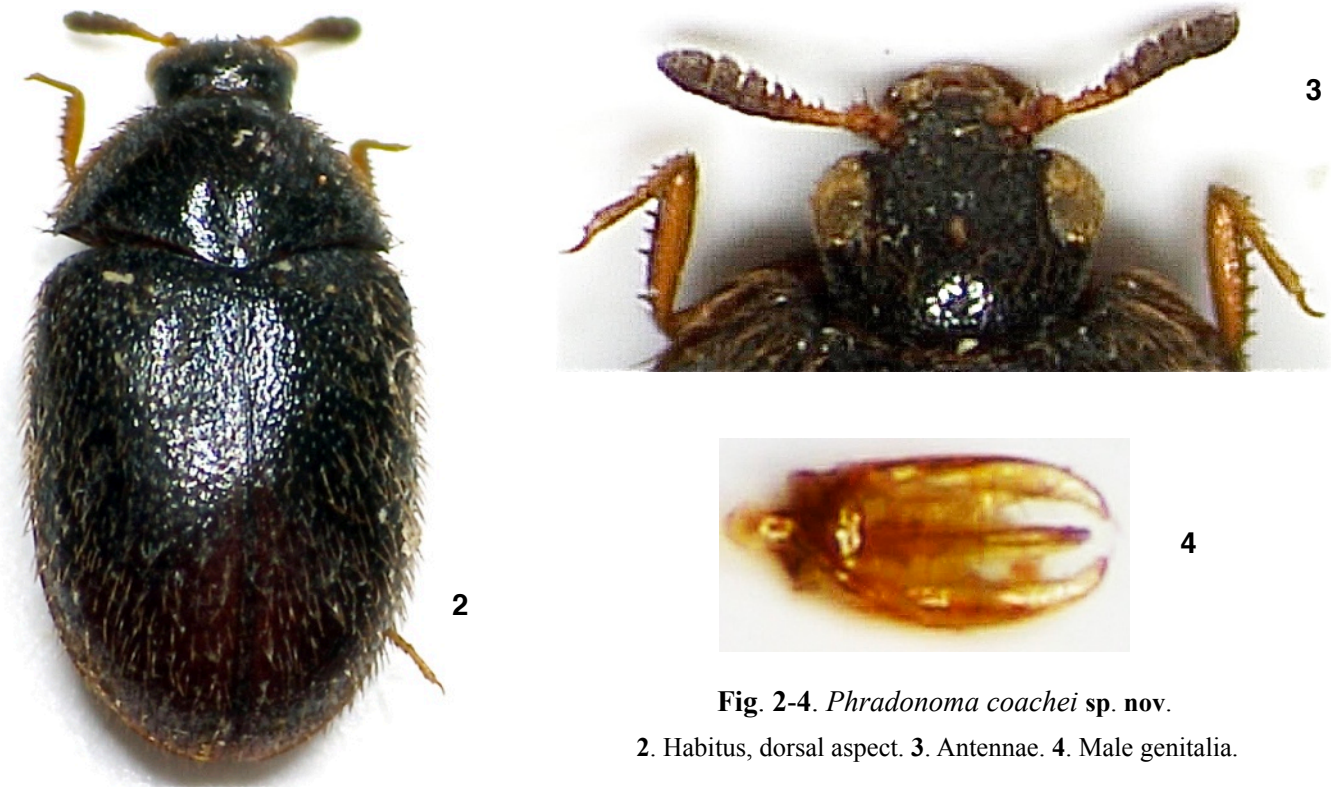


Fig. 2-4. *Phradonoma coachei* sp. nov.

2. Habitus, dorsal aspect. 3. Antennae. 4. Male genitalia.

***Phradonoma coachei* sp. nov.**

(Fig. 2-4)

ZooBank: <http://zoobank.org/2EA36998-50B2-4CCA-B088-3997AF96BFB9>

Holotype, ♂: « Sénégal, Petite Cote, Mbour Ird [14°23'38.01''N 16°57'21.29''W], ultra violet, 05.X.2010, Alain Coache leg. (MHNL) ».

Description of the holotype

Body. – Black and brown, oval. Measurements (mm): TL 2.2 EW 1.4.

Head. – Finely punctuate, with short more or less decumbent light brown setae, maxillary palpi darkish brown, eyes large with microsetae, antennae with 11 antennomeres with five-antennomered club. Antennomeres II-VI brown, antennomeres I, VIII-XI dark brown (Fig. 3). Forehead with ocellus.

Pronotum. – Entirely black, shiny, sparsely and not very coarsely punctate, with light brown erect setae. Lateral margins slightly visible from above.

Scutellum. – Small, black, triangular, without setation or punctures.

Elytra. – Elytra black with brown apical part, sparsely and coarsely punctate, sparsely covered by slightly erect light brown setation.

Underside. – Coarsely and (especially the visible ventrite) more densely punctate than elytra and pronotum, covered with straight and decumbent brown setation.

Legs. – Tibiae and tarsi brown, femora anteriorly darkened and sparsely covered with fine brown hairs, anterior tibiae with dark brown thorns.

Male genitalia. – As in Fig. 4.

Differential diagnosis. – The new species similar to *P. uninotatum* (Pic, 1942) and *P. babaulti* (Pic, 1921) but differs from them by the antennae with 5-antennomered club, structure of male genitalia and form of body; from other species, it differs by the absence of white setation.

Etymology. – Patronymic, dedicated to the collector of the new species and my friend Alain Coache (France).



Fig. 5. Type locality of *Phradonoma coachei* sp. nov.



Fig. 6. Ground light trap, Fathala reserve.

List of Dermestidae recorded from Senegal

DERMESTINAE Latreille, 1804

Dermalius Háva, 2001 **stat. nov.**

- *D. maximus* (Pic, 1915) **comb. nov.**

Dermestes Linnaeus, 1758

Dermestes (s. str.)

- *D. ater* Degeer, 1774

- *D. lardarius* Linnaeus, 1758

- *D. leechi* Kalík, 1952 (new record)

Dermestinus Zhantiev, 1967

- *D. carnivorus* Fabricius, 1775

- *D. frischii* Kugelann, 1792

- *D. maculatus* Degeer, 1774

THORICTINAE Agassiz, 1846

Thorictodes Reitter, 1875

- *T. heydeni* Reitter, 1875

Thorictus Germar, 1834

- *T. senegalensis* Háva, 2014

TRINODINAE Casey, 1900

Evorinea Beal, 1961

- *E. rufotestacea* (Pic, 1952)

Trinodes Dejean, 1821

- *T. senegalensis* Pic, 1915

ATTAGENINAE Laporte de Castelnau, 1840

Attagenus Latreille, 1802

Attagenus (s. str.)

- *A. cyphonoides* Reitter, 1881 (= *Telopes senegalensis* Pic, 1915)

- *A. ensicornis* Wollaston, 1867

- *A. fasciatus* (Thunberg, 1795)

- *A. hromadkai* Háva, 2016

- *A. kratochvili* Kalík, 1955

- *A. madoni* Pic, 1942

- *A. pellio* (Linnaeus, 1758)

- *A. postfasciatus* (Pic, 1951)

- *A. posticalis* Fairmaire, 1878

- *A. robustior* (Pic, 1951)

- *A. unicolor* (Brahm, 1790)

MEGATOMINAE Leach, 1815

Anthrenus Geoffroy, 1762

Anthrenus (s. str.)

- *A. flavipes* LeConte, 1854

- *A. senegalensis* Pic, 1927

Anthrenodes Chobaut, 1898

- *A. guineaensis* Háva, 2004

Anthrenops Reitter, 1881

- *A. coloratus* Reitter, 1881

Florilinus Mulsant & Rey, 1868

- *A. museorum* (Linnaeus, 1761)

Nathrenus Casey, 1900

- *A. verbasci* (Linnaeus, 1767)

Ctesias Stephens, 1830

Tiresiomorpha Pic, 1954

- *C. dakariensis* Herrmann & Háva, 2009

Orphinus Motschulsky, 1858

Orphinus (s. str.)

- *O. fulvipes* (Guérin-Méneville, 1838)

Phradonoma Jacquelin du Val, 1859

- *P. cercyonoides* (Reitter, 1887)

- *P. cochei* **sp. nov.**

- *P. fouqueti* Pic, 1937

Thaumaglossa Redtenbacher, 1867

- *T. rufiventris* Pic, 1927

- *T. rufofasciata* (Pic, 1915)

Trogoderma Dejean, 1821

- *T. granarium* Everts, 1892

- *T. granarium* Everts, 1898

(= *T. khapra* Arrow, 1917; = *T. afrum* Priesner, 1951)

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Fig. 7. Petite Côte, Nianing.



Fig. 8. Joal, N'Gazobil forest, Petite Côte.



Fig. 9. Eastern Senegal, Kédougou.



Fig. 10. Petite Côte, Nianing, lagunnah, fish trap.

Résumé

Háva J., 2021. – Seconde contribution à l'étude des Dermestidae du Sénégal (Coleoptera). *Faunitaxys*, 9(43) : 1 – 5.

Douze espèces sont mentionnées et enregistrées du Sénégal. Une liste des espèces connues du Sénégal est présentée. Le genre *Dermalius* Háva, 2001 **stat. nov.** est séparé du genre *Dermestes* Linnaeus, 1758 et nouvellement déclaré comme genre indépendant avec l'espèce type *Dermalius maximus* (Pic, 1915) **comb. nov.** *Phradonoma coachei* **sp. nov.** est décrite du Sénégal, illustrée et comparée aux espèces voisines.

Mots-clés. – Coleoptera, Dermestidae, taxonomie, nouvelle espèce, nouveau statut, nouvelle combinaison, faunistique, Sénégal.

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