

## The *Atomaria* Species (Col., Cryptophagidae) of Madeira and the Canary Islands: a Supplement

by

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### ABSTRACT

A supplement to the writer's previous work on Madeiran and Canarian *Atomaria* is presented. New localities are given for several species, including new island records for *apicalis* Erichs. (Tenerife, Grand Canary) and *bulbosa* Woll. (Tenerife). *A. (Anchicera) palmi* sp. n. from Tenerife and Grand Canary is described and figured, and a revised section of the 1970 key is given to include it. Reference is also made to a previous paper showing that *unifasciata* Erichs. does not occur in the islands, the species in question being *fasciata* ssp. *pilosula* Woll.

### RESUMEN

Las especies de *Atomaria* (Col., Cryptophagidae) de Madeira y las Islas Canarias: Suplemento.

Se presenta un suplemento a un trabajo previo del autor sobre las *Atomaria* de Madeira y Canarias. Se dan nuevas localidades para algunas especies, incluyendo nuevas citas para islas de *apicalis* Erichs. (Tenerife, Gran Canaria) y *bulbosa* Woll. (Tenerife). Se describe e ilustra *A. (Anchicera) palmi* sp. n. de Tenerife y Gran Canaria, presentándose asimismo la sección revisada para ser incluida en las claves de 1970. También se hace referencia a un trabajo previo indicándose que *unifasciata* Erichs. no se encuentra en las islas, la especie en cuestión es *fasciata* ssp. *pilosula* Woll.

Since the publication of our work on the Madeiran and Canarian species of *Atomaria* (JOHNSON 1970), new data has come to hand which

advances our knowledge of this genus, and which prompts the present supplement.

For the loan of material, the writer's thanks are due to the following colleagues: Prof. H. Franz, Vienna; Dr. G. A. Lohse, Hamburg; Dr. T. Palm, Uppsala; H. Silfverberg, Zoological Museum of the University, Helsinki; S. A. Williams, Dartford.

*Atomaria (s. str.) prolixa* Erichson

TENERIFE: near Erjos (H. Franz).

*Atomaria (Anchicera) marginicollis* Reitter

TENERIFE: near Erjos (H. Franz).

*Atomaria (Anchicera) apicalis* Erichson

GRAND CANARY: Bar. d. Azuaje (T. Palm). — TENERIFE: Puerto de la Cruz, - v. 1971 (S. A. Williams).

*Atomaria (Anchicera) fasciata ssp. pilosula* Wollaston

The writer (JOHNSON 1971) has shown that *A. unifasciata* Erichson actually consists of two species, the second being the mediterranean *fasciata* Kolenati. The latter is the one represented in the Canaries, by the endemic ssp. *pilosula*, differing from the nominotypical form in its longer and more outstanding elytral pubescence, and brachypterous nature. The true *unifasciata* seems confined to central and eastern Europe where it is distributed along the course of the Danube.

TENERIFE: Cumbre, 1600 - 1800 m (H. Franz); Cañadas (Meybohm & Fülcher).

*Atomaria (Anchicera) scutellaris* Motschulsky

GRAND CANARY: near Valleseco (H. Franz). — HIERRO: (H. Franz). — TENERIFE: Ruigomez (H. Franz); Ladera de Güimar (Panelius); Aguamansa (Benson); Icod (T. Palm).

*Atomaria (Anchicera) laticollis* Wollaston

TENERIFE: Barranco S. Antonio (Lindberg); Aguamansa, c. 1.000 m, 4. i. 1972 (T. Palm).

*Atomaria (Anchicera) bulbosa* Wollaston

TENERIFE: Bajamar, 27. ii. 1973, 1 ♂ (T. Palm)

*Atomaria (Anchicera) alternans* Wollaston

MADEIRA: Faja de Nogueira (H. Franz).

*Atomaria (Anchicera) palmi* sp. n.

(Figs. 1 - 3)

Length 1.34 - 1.55 mm, more-or-less ovate, moderately arched, covered with decumbent pale pubescence, the hairs c. 0.032 - 0.04 mm on the elytra. Uppersurface more-or-less unicolorous, dark brown to black, legs and antennae yellowish-brown.

Antennae somewhat slender, length 0.51 - 0.59 mm, as in fig. 1; segment 1 barely longer than broad, subequal in length to segment 2; antennal club abrupt, broad, segments 9 and 10 strongly transverse.

Pronotum transverse, breadth 0.50 - 0.59 mm, broadest a little in front of the middle; sides usually straight although very slightly narrowed behind, more narrowed in front; 1.27 - 1.37 times as broad as long; side borders single, only visible behind the middle from directly above; pronotal surface weakly shining, somewhat finely but very closely punctured, the punctures about a quarter to half a diameter apart from their nearest neighbours, the interstices often ridge-like; surface shagreened; hind angles slightly obtuse; pronotal disc convex; base without or with a weak impression; hind margin finely bordered, not produced rearwards medially.

Elytra moderately arched, rounded at the sides, broadest generally within the basal half, breadth 0.62 - 0.75 mm, 2.15 - 2.37 times as long as the pronotum and 1.30 - 1.39 times as long as together broad; surface rather shining, not or feebly shagreened; punctures on the basal half of the elytra similar in size to the pronotal ones, but about two diameters apart on an average. Apterous species.

Aedeagus fig. 2. Spermatheca fig. 3.

Holotype ♂. TENERIFE: Icod, 400 - 500 m, 19. i. 1972, leg. T. Palm (in coll. T. Palm, Uppsala).

Paratypes. TENERIFE: Icod, 400 - 500 m, 19-I-1972 2 ♂, 20-II-1973 1 ♀ (T. Palm); Aguamansa, c. 1.000 m, 4-I-1972 1 ♂ 1 ♀, 25-II-1973 2 ex. (T. Palm); Pico del Inglés, 27-III-1972, 2 ex (H. Meybohm & H. Fülcher).

GRAND CANARY: Los Tilos, 25-VI-1971 1♂, 7-IV-1973 2 ex. (T. Palm).

DEDICATION. It is a pleasure to dedicate this new species to my esteemed colleague Dr. Thure Palm.

NOTES. The nearest relative to this species seems be the rare north European *soedermani* Sjöberg. *A. palmi* differs as follows: pronotum less narrowed basally, without or with a weak basal impression; pronotal puncturation much denser; pronotum longer in proportion to breadth; elytra more arched, broadest more towards the base; antennae a little more slender. Other distinctions are to be found in the genitalia. In our key

to the Madeiran and Canarian species (JOHNSON 1970: 147-149), *palmi* runs down to couplet 7, which may be modified as follows to include it:

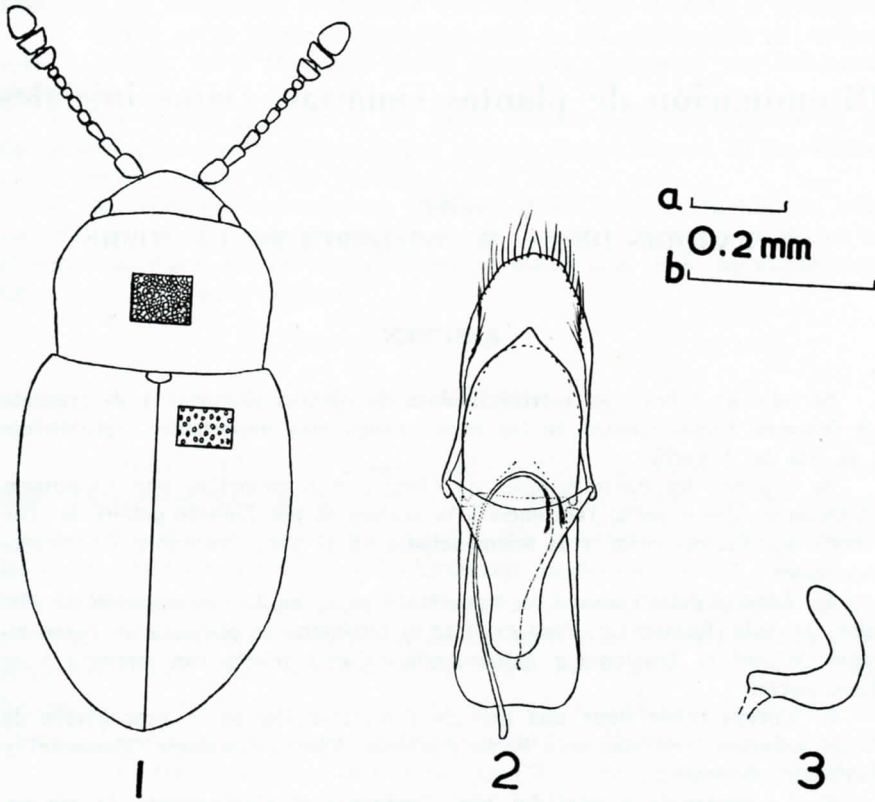
- 7 Side border of the pronotum (viewed laterally) single, only visible from directly above in the basal half at the most; base of the pronotum without or with a feeble impression; unicolorous dark brown to blackish species; antennae rather slender . . . . . 7 A
- Side border of the pronotum (viewed laterally) double, the inner border visible in its entirety from directly above; base of the pronotum with a transverse impression in the middle; head and pronotum reddish, elytra predominantly black, often with the shoulders and apex reddish; antennae rather thick . . . . . 8
- 7 A Pronotum broadest about the middle, the sides curved, the side border only visible from directly above close to the hind angles; front margin of the pronotum much narrower than the basal; pronotal puncturation very fine and sparse; elytra very short, globose and rather strongly arched; base of the pronotum without an impression. Length 1,38 - 1,47 mm. Gomera; Tenerife . . . . . *bulbosa* Wollaston
- Pronotum broadest a little in front of the middle, the sides usually straight although slightly narrowed basally; the side border visible from directly above along the basal half; front margin of the pronotum only slightly narrower than the basal margin; pronotum more coarsely and densely punctured; elytra longer, not globose, not so convex; base of the pronotum without or (more usually) with a feeble impression. Length 1,34 - 1,55 mm. Tenerife; Grand Canary. (Fig. 1) . . . . . *palmi* sp. n.

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*Figs. 1-3.*—*Atomaria (Anchicera) palmi* sp. n.: 1, male; 2, aedeagus; 3, spermatheca. (Scale a: fig. 1; scale b: figs. 2-3)