



***Hemitrichapion gomerense* sp.n.**  
(Coleoptera: Curculionoidea: Apionidae)\*

by

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with 9 figures

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**Abstract**

A new species of the weevil genus *Hemitrichapion* (*Lotapion*) Voss 1959 is described from the Canary Islands (La Gomera). This species is distinguished from the related species *Hemitrichapion* (*Lotapion*) *wollastoni* Chevrolat 1852 from Madeira (a simultaneous designation of a lectotype is given by Morris & Stüben (Morris in press)) and *Hemitrichapion* (*Lotapion*) *wagneri* (Flach 1906) from Spain and Portugal. *Apion rotundipennis* Wollaston 1854 is not a synonym of *Apion wollastoni* Chevrolat 1852; with 9 figures.

**Key words.** Curculionoidea, Apionidae, *Hemitrichapion*, *Holotrichapion*, new species, taxonomy, Spain, Portugal, Madeira, Canary Islands, La Gomera.

**Introduction**

During the last 10 years we have undertaken more than two dozen research excursions to the Makaronesian Islands to search for Cryptorhynchinae. In conjunction with work on the planned „Encyclopedia of the Curculionoidea of the Makaronesian Islands“ in the WWW (Stüben, Behne & Brunner, from 1st December 2010), the non-target captures of weevils are at present being evaluated. It is therefore not surprising, that many new species are thus first coming to our attention. In issues no. 53 and no. 54 of the *Weevil News*, we make a start by presenting the descriptions of a new Apioninae and a new Bagoiinae.

***Hemitrichapion gomerense* sp.n.**

**Type material**

**Holotype.** 1♂, „E: Canary Is., La Gomera, Hermigua to Las Caletas, succulent bush zone, 28°10'28"N 17°10'39"W, 216 m, 25.12.2009, leg. Stüben (33)“; coll. Curculio-Institute, D-Mönchengladbach. / **Paratypes.** 1♂, 1♀, data as for holotype, coll. Stüben, coll. Behne.

**Description (Fig. 1, 2, 6, 7)**

**Length.** 1.9 – 2.5 mm (without rostrum).

**Head & Rostrum.** Eyes in lateral view oblong-oval rounded, with a margin of white scales and with some distant and long hair-shaped scales on the lower side; frons nearly as wide as the rostrum between the insertion of the antennae; rostrum hardly curved, also with fine and white scales above antennal insertion, 5.1x as long as wide (Fig. 6); antennae inserted in the middle (♂) and - like the whole habitus – bronze-coloured; 1<sup>st</sup> segment of the funicle stout, 2<sup>nd</sup> also long, but considerably more slender, 3<sup>rd</sup> – 6<sup>th</sup> shortened, 7<sup>th</sup> as long as wide.

**Pronotum.** As long as wide; base-margin 1.26x longer than the fore-margin, widest at the end of the first third of the pronotum, laterally slightly rounded, with a fine longitudinal hollow on the disk in front of the base (cf. Fig. 6), closely punctuate, the punctures less than 1/3 diameter apart, "hairs" adpressed and dense, the end of each white scale abuts against the following.

**Elytra.** Bronze-coloured, short, slightly egg-shaped rounded, 1.26x as long as wide; in lateral view, contour-line of the elytra, which clearly surpasses the line of the pronotum, forms a constant arc of a circle; 1.66x as long as high; the base of elytra is straight. Elytral striae with long, nearly rectangular punctures, the puncture stripes are clearly more slender than the elytral intervals, these are finely and flatly punctuated and covered with two rows of long, white and adpressed capillary scales placed predominantly in a v-shaped (sometimes forming irregular rows); the end of each white hair-scale abuts against the following; scales in the elytral striae similar to those on the intervals, but are more separated from each other (clearly visible on the elytral slope); scutellum tiny, rounded.

**Legs.** Slender; front femora, weakly swollen, reach the antennal insertion of rostrum, the hind femora ending directly in front of the elytral apex; protarsus 3x as long as wide, tarsomeres trapezoidal, the 1<sup>st</sup> tarsomere 1.5x, the second 1.2x as long as wide; legs covered with shorter scales than on elytra, their distance on the femora is larger.

**Female genital:** See spermatheca (Fig. 7).

**Aedeagus.** Tegminal plate 1.9x as long as wide; median lobe of the aedeagus tapered (Fig. 2).

**Differential diagnosis**

Type material examined: *Apion wollastoni* Chevrolat 1852, designation of a lectotype (♀) by Morris & Stüben (Morris, in press) and 2♂/1♀, Institut Royal des Sciences Naturelles de Belgique, see also (Fig. 3) / *Apion rotundipenne* Wollaston 1854, designation of lectotype (♂) and 3 paralectotypes (1♂/2♀) by Alonso-Zarazaga (only by labelling, cf. Alonso-Zarazaga 1990), Natural History Museum, London, coll. Wollaston, see also (Fig. 8, 9).

The new species is closely related to *Hemitrichapion* (*Lotapion*) *wollastoni* Chevrolat 1852 from Madeira and *Hemitrichapion* (*Lotapion*) *wagneri* (Flach 1906) from Iberian Peninsula:

*Hemitrichapion gomerense*. 1. elytra slightly egg-shaped rounded; 1.26x as long as wide; bronze-coloured (Fig. 1); 2. scales on elytral intervals longer, closely placed and stout; 3. rostrum (♂) longer: nearly 5x as long as wide (Fig. 6); 4. aedeagus wider, apex of median lobe shorter (Fig. 2).

*Hemitrichapion wollastoni*. 1\*. elytra oblong-oval rounded; 1.36x as long as wide; black (Fig. 3); 2\*. scales on elytral intervals shorter and finer; 3\*. rostrum (♂) shorter: nearly 4x as long as wide (Fig. 3); 4\*. aedeagus more slender, apex of median lobe clearly longer (Fig. 3).

*Hemitrichapion wagneri*. 1\*\*. elytra wider, more square-edged, blue (Fig. 4); 3\*\*. rostrum (♂): nearly 4.5x as long as wide; 4\*\*. aedeagus more slender, apex of median lobe clearly longer (Fig. 5).

The three species of *Hemitrichapion* are completely different from *Holotrichapion* (*Nesapion*) *rotundipennis* Wollaston 1854 **resyn.** (cf. Alonso-Zarazaga, 1990: 128) from Madeira (locus typicus) and the Canary Islands: This species has 1. copper-brilliant elytra, 2. these are strongly egg-shaped (Fig. 8), 3. elytral striae are wider with deeper and more strong rectangular punctures (Fig. 8) and 4. the aedeagus is more slender, with parallel sides and a rounded (not tapered) apex in ventral view (Fig. 9).

**Ecology.** *Hemitrichapion gomerense* was discovered by the first author on the north side of La Gomera near Hermigua (Barranquillos los Alamos) at the end of December 2009, and was probably beaten from riparian *Lotus glaucus* Dryand. (or the similar species *Lotus emeroideus* Murr.).

**Etymology.** The species name refers to the type locality in the succulent bush zone (216 m) on La Gomera (Canary Islands).

**Distribution.** *Hemitrichapion gomerense* is so far only known from La Gomera.



Fig. 1 *Hemitrichapion gomerense* sp.n. – HT, habitus (dorsal/lateral)



Fig. 2 *H. gomerense* sp.n. – HT, aedeagus (ven./lat.) / tegmen

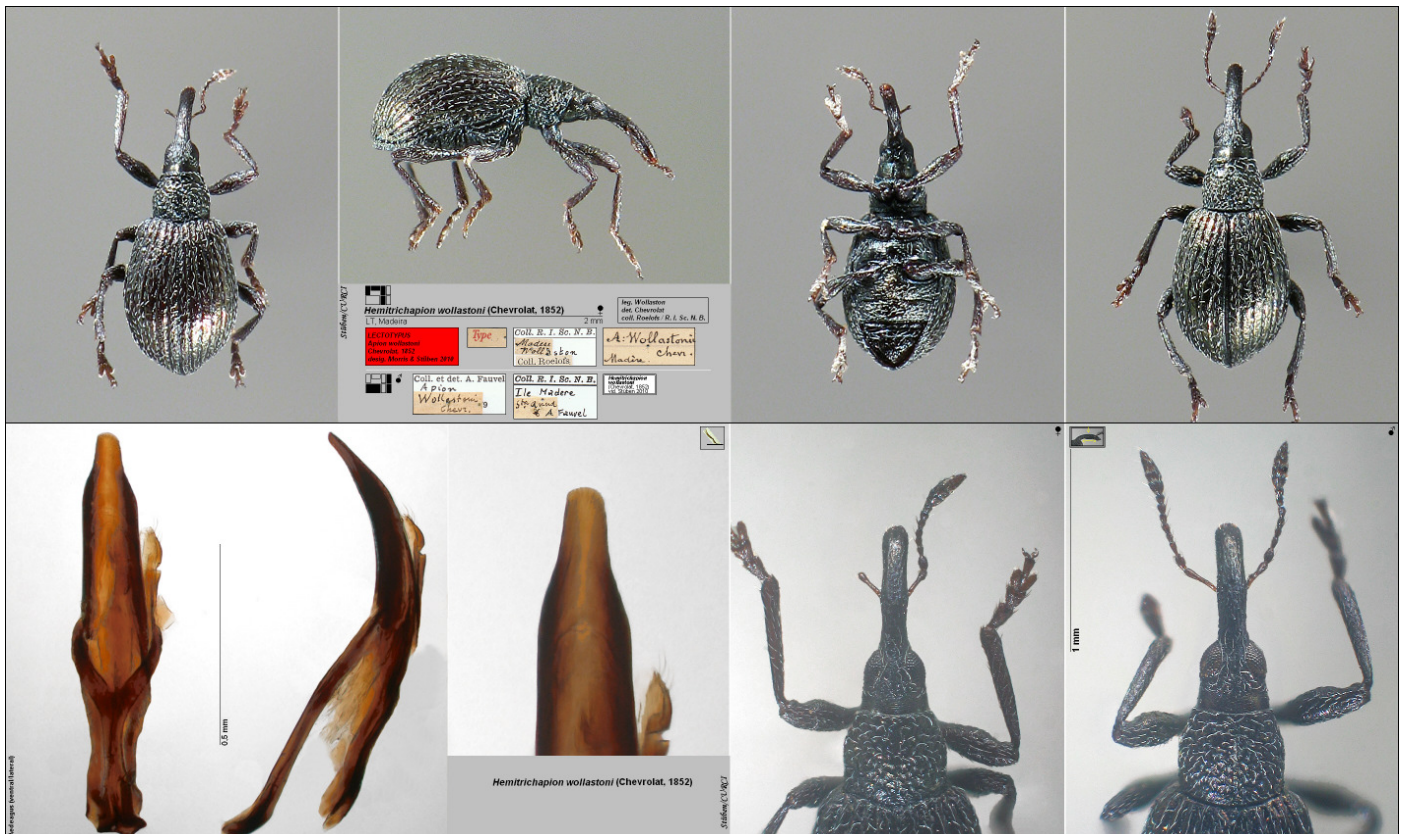


Fig. 3 Table of *Hemitrichapion wollastoni* Chevrolat 1852 from Madeira – female (lectotype) & male (habitus, aedeagus & rostrum)

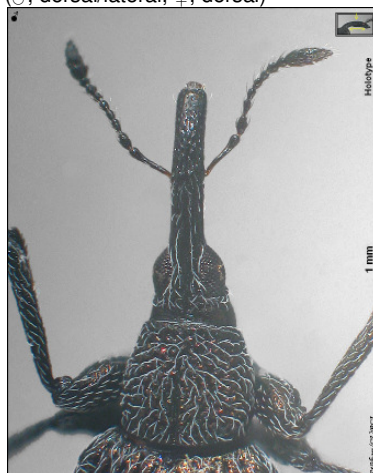




**Fig. 4** *Hemitrichapion wagneri* (Flach 1906) from Spain - habitus (♂, dorsal/lateral; ♀, dorsal)



**Fig. 5** *H. wagneri* (Flach 1906) - aedeagus (ven./lat.) / tegmen



**Fig. 6** *H. gomerense* - HT, rostrum (♂)



**Fig. 7** *H. gomerense* - PT, spermatheca



**Fig. 8** *Holotrichapion rotundipennis* Wollaston 1854 from Madeira – PLT, ♂



**Fig. 9** *H. rotundipennis* – PLT, aedeagus (ven./lat.) / tegmen

## References

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\*\* Printable versions of this article of the **Weevil News: Zool. Record**.



## New publications



The following interactive contributions were published in *SNUDEBILLERonline*:

July 1<sup>st</sup>, 2010

**Stüben, P.E., Behne, L. & Grebennikov, V.V. (2010):** Rüsselkäfer-Gesiebe-Exkursion des CURCULIO-Instituts im Frühjahr 2009 nach Marokko - unter besonderer Berücksichtigung der Cryptorhynchinae-Fauna. (Coleoptera: Curculionoidea) - *SNUDEBILLER* 11, Studies on taxonomy, biology and ecology of Curculionoidea, Mönchengladbach: CURCULIO-Institute, 54-79, **mit 249 Abbildungen, 18 Tafeln und 14 Karten.**

From April 28<sup>th</sup> to May 15<sup>th</sup>, 2009, the ninth sifting excursion of the CURCULIO-Institute took place in the western and central parts of Morocco. Biotopes and finding circumstances of many Curculionoidea, in particular of Cryptorhynchinae, are presented, and habitats are described. Finally a complete species list of all collected weevils is given (148 species). Habitus and aedeagus of many species and of such species, that could not be identified, are pictured; with 249 colour photographs, 18 tables and 14 maps.

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