Stefano Zoia*

The *Macrocoma* Chapuis from the Canary Islands, with description of a new species (Coleoptera Chrysomelidae Eumolpinae)

**Introduction**

I recently received from Jan Pelikan (Hradec Králové - Czech Republic) an interesting material of *Macrocoma* collected in Gran Canaria. Up to now nine taxa have been ascribed to the genus *Macrocoma* from the Canary Islands. Eight of them were treated by Palm (1976) who also figured the aedeagi and provided a key to species. Subsequently Daccordi (1978) described *M. oromiana* from Alegranza and Salvajes Islands. More recently Warchalowsky (2001, 2003 and 2010) provided keys to the Palaearctic species of the genus *Macrocoma*, including the ones object of the present contribution. Thanks to the kindness of the curators of different Museums and some friends, I had the opportunity to examine type specimens of eight of these taxa, together with other material of *Macrocoma* from the Canary Islands. I did not have the chance to examine any specimen of *M. franzi palmaensis* Palm, 1977, so this taxon is here treated on the basis of literature data only. Based on the above I here describe a new taxon and I revise the other species providing a new key to species and Figures of specimens and aedeagi.

The following acronyms are used:

- AMcoll - Antonio Machado Carrillo collection (Santa Cruz de Tenerife)
- FMNH - Finnish Museum of Natural History, Helsinki
- JPcoll - Jan Pelikán collection (Hradec Králové, Czech Republic)
- MDcoll - Mauro Daccordi collection (Verona, Italy)
- MMcoll - Marion Mantič collection (Hlučín-Bohuníky, Czech Republic)
- MNHT - Museo de la Naturaleza y el Hombre, Museos de Tenerife
- NHML - The Natural History Museum, London
- NHMW - Naturhistorisches Museum Wien
- OUMNH - Oxford University Museum of Natural History
- SZcoll - Stefano Zoia collection (Milan, Italy)

**Results**

*Macrocoma* species from the Canary and Salvajes Islands are all endemic of these islands; these species are strictly related each other and not easy to discriminate, sharing important characters, *i.e.* small differences in body size, kind of pubescence of the elytra (in most cases with 9 longitudinal stripes of adpressed setae, separated by partially erected ones, all setae being flattened and more or less hyaline), relative oblong legs and moderately short antennae, sameness about spermathecal morphology, aedeagi with the apex divided by a short cut or a saddle-like impression. All these features suggest the complex

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could be monophyletic, being the result of a single colonization event.

Nevertheless, aedeagic morphology allows to discriminate three groups of taxa:
- a group *M. divisa/oromiana/dubia/latifrons* with the aedeagus characterized by a more rounded apex, with a short saddle-like notch (Figs. 3, 5, 11, 15, 17, 21, 23, 25). These taxa are morphologically more differentiated each other than the ones in the other groups. They have reduced mesothoracic wings, with the exception of *M. latifrons* which is normally winged. A less sclerified dorsal side of abdomen is frequently, but not exclusively, linked to reduction of mesothoracic wings in the Eumolpinae and here is the case. The brachypterous species are present in the Eastern Islands (Fuerteventura, Lanzarote, Graciosa, Alegranza) and in Salvajes I., while *M. latifrons* is known from Tenerife (Fig. 70);
- *M. obscuripes* and *M. pelikani* n. sp. are similar in edeagic characteristics, with a short V-shaped cut at the apex (Figs. 28, 37, 38); both are winged and inhabit Gran Canaria (Fig. 70). Similar aedeagic features are shown by *M. splendens* (Tenerife and La Palma, Fig. 65), with a characteristic short distal production of the apex at both sides of the incision (Figs. 42, 45);
- a complex *M. splendidula/franzi/palmaensis*, which inhabits the Central-Eastern part of the archipelago (Gran Canaria, Tenerife, La Palma, El Hierro) (Fig. 71), characterized by a longer distal part of the aedeagus, from the opening of the os tum to the apex, and a more or less deep, but narrow cut at the apex (Figs. 49, 51, 53, 56, 60). These taxa are winged, they are very similar each other in exoskeletal morphology and hardly distinguishable.

I had the opportunity to study and compare type specimens of *M. splendidula* and *M. franzifrangi*, together with other specimens of both taxa collected in different localities as reported below. Differential characteristics mentioned by Palm (1976) (punctuation and brilliance of head, pronotum and elytra, color of antennae and legs) are subject to a variability inside each population. In my opinion, that overcomes any possibility to distinguish specimens from different Islands, except for some differences in the average body size and frequency of more or less dark coloration of the dorsum. As already arguable from Figures provided by Palm (1976: figs 4d, 4g/i), the aedeagi show no significant differences (Figs. 49-53, 56-57, 60-61), with a feeble variation in the depth of the incision at the apex, which is usually a little less deep in the typical *M. splendidula*, although not so evident as drawn by Palm, 1976.

I did not get a chance to study any specimen of *M. franzipalmaensis*, neither to find any type specimen in the OUMNH collection nor elsewhere. Palm (1976) described this taxon with the name *M. occidentalis* and subsequently renamed it as *M. palmaensis* Palm, 1977 to correct the homonymy with *M. henoni occidentalis* (Escalera, 1914). In my opinion, the original description and illustration of aedeagus (Fig. 4f in Palm, 1976, here reproduced in Figs. 60 and 61) do not highlight any significant difference from ssp. *franzi*.

Based on these facts, and considering a possibility that more accurate studies, particularly the examination of *M. f. palmaensis*, might prove some differences between the populations from different Islands, I prefer to maintain here these names with a status of subspecies and I propose the following nomenclatural changes:

*Macrocoma splendidula* ssp. *franzi* Palm, 1976 n. stat. pro *M. franzifrangi* Palm, 1976

*Macrocoma splendidula* ssp. *palmaensis* Palm, 1977 n. stat. pro *M. franzifrangi* Palm, 1976.

To my knowledge, no *Macrocoma* has ever been reported for La Gomera and I have not seen specimens from this Island until now, which is for sure due to lack in researches.

**KEY TO SPECIES**

As it frequently happens in the genus *Macrocoma*, very few exoskeletal characters are so reliable to give unambiguous choices in a key to species when close taxa are involved; body size, habitus, colour pattern, punctuation and microreticulation of integuments always show inconstancy and an incautious use can lead to incorrect attributions. This reflects on the uncertain status of the taxonomy of the genus and it could affect the reliability of identifications based on exoskeletal characteristics only.

Referring to the *Macrocoma* of the Canary Islands, an accurate examination of the aedeagi, in par-
The *Macrocoma* Chapuis from the Canary Islands, with description of a new species

ticular of the outline of the apex, is really helpful and sometimes necessary to discriminate species. Examined spermathecae are quite uniform (Figs. 62-64, 66-69), showing some differences mainly in the length of the spermathecal gland: the shortest in *M. obscuripes* and *M. pelikani* n. sp. confirming the closeness of these species; longer, but not exceeding the spermathecal body length in *M. divisa* and *M. splendidens*; as long as the spermathecal body or longer in *M. latifrons*, *M. s. splendidula* and *M. s. franzii*.

A molecular approach to the taxonomy of the group could give in the future its contribution.

The following key is intended for the *Macrocoma* of the Canary Islands only. The length of body includes the head, with the proximal edge of eyes close to the distal edge of pronotum.

1 Elytra relatively short and more regularly convex at sides and along the suture; humeral calli poorly developed, scutellum semicircular.........................2

1’ Elytra proportionally longer, usually more or less flattened at base near the suture and usually transversally impressed on the basal third; elytral sides feebly convex or subparallel in the basal third (not in males of *M. dubia*, which can be separated for the brown color of the dorsum with the distal margin of pronotum paler)........................................3

2 Smaller species, length 2.6-3.5 mm; antennae nearly uniformly reddish-brown, sometimes with antennomeres 7-11 somewhat darker, brachypterous (wings reaching the elytral apex in females, nearly half so long in males); aedeagus as in Figs. 3-4, habitus as in Figs 1-2, 7-8 (Fuerteventura, Lanzarote, Graciosa)...........*M. divisa* (Wollaston, 1864)

2’ Body length 3.8-4.4 mm, antennal segments 7-11 darker than 1-6, brachypterous; aedeagus as in Figs. 11-12, habitus as in Figs. 9-10 (I. Alegranza, I. Salvajes)..............*M. oromiana* Daccordi, 1978

3 Antennae and legs blackish with metallic reflections, antennomeres 2-5 sometimes partially reddish; length 2.8-4.2 mm; aedeagus as in Figs. 28-29, habitus as in Figs. 26-28 and 30 (Gran Canaria).......................*obscuripes* (Wollaston, 1864)

3’ Antennae and legs in part or entirely reddish....4

4 Antennomeres 2-6 reddish at base, blackish distally; femora black with metallic reflections, tibiae reddish, tarsi brown to black; punctuation of pronotum relatively strong and partially confluent, stronger than on elytra; length 2.6-3.4 mm; aedeagus as in Figs. 37 and 38, habitus as in Figs. 31 and 32-33 (Gran Canaria)...........*pelikani* n.sp.

4’ Not as above; antennae and legs in large part or entirely reddish ................................................5

5 General aspect less elongated with elytra more convex both dorsally and on the elytral sides, humeral calli less prominent and poorly separated from the adjacent elytral surface; dorsum brown without metallic hue, the distal edge of pronotum paler; length 3.0-4.3 mm; aedeagus as in Figs. 15-17, habitus as in Figs. 13-14 (Fuerteventura, Lanzarote)..............*dubia* (Wollaston, 1864)

5’ General aspect more elongated with elytra nearly flat or feebly convex on discus and sides subparallel on the basal third; humeral calli more prominent and separated by the adjacent elytral surface by a more evident impression; dorsum metallic...............6

6 Antennae and legs reddish; elytra oblong with sides almost parallel up to mid-length; coloration of pronotum and elytra metallic green to bronze; length 3.1-4 mm; aedeagus as in Figs. 42-43 and 45-46, habitus as in Figs. 40-41 and 44 (La Palma, Tenerife)......................*splendens*

6’ Antennomeres 7-11 and femora usually more or less darkened.......................................................7

7 Maximum width of pronotum in males at level of the basal third or in the basal half; coloration usually darker, metallic, bronze to piceous, rarely lighter and greenish; length 33-44 mm; aedeagus as in Figs. 21-25, with a wide impression at its apex, habitus as in Figs. 19 and 20 (Tenerife).....................*latifrons*

7’ Maximum width of pronotum at about midlength, sides more regularly bent throughout; coloration usually lighter, metallic green to bronze; aedeagus with a thin split at its apex ...........................................8

8 On average body size somewhat bigger, length 3.5-4.4 mm; aedeagus as in Figs. 49-53, habitus as in Figs. 47 and 48 (Gran Canaria, Tenerife)......................*splendidula ssp. splendidula*

8’ On average body size smaller, length 3.2-4.1 mm; aedeagus as in Figs. 56-57, habitus as in Figs. 54, 55 and 58-59 (El Hierro)........*splendidula ssp. franzii*

8” [Halsschild und Flügeldecken kürzer und breiter (compared to splendidus!). Halsschild feiner und weitläufig. Flügeldecken viel feiner punktiert. Flügeldecken mit gedämpftem Glanz, ihre Behaarung etwas kürzer. Länge 3.9-4.0 mm (Palm, 1976)] aedeagus Figs. 60 and 61 (La Palma) *splendidula ssp. palmaensis*
CATALOGUE AND NOTES

A large part of mentioned material has been
seen by the author, a few data are reported from liter-
ature as indicated.

Macrocoma Chapuis, 1874

Macrocoma divisa (Wollaston, 1864) (Figs. 1-8, 62)

Pseudocolaspis divisa Wollaston, 1864: 394

TYPE SPECIMENS. 1♀ Syntypes OUNHM (examined)
labelled: standing over: Pseudocolaspis divisa Wollas-
ton, 1864 Cat. Col. Ins. Can. Coll. B.M.: 394-95 / Wollaston Canary Colln. Lanzerote OUMNH-2006-009; 1♀ Syntype NHML (examined) labelled: Syn-
type / Type / Pseudocolaspis divisa, Woll. Type.

DISTRIBUTION AND GEONOMIC DATA. Lanzarote: [“Lan-
zarotam borealem, sub lapidibus in aridis, rarissima”
(Wollaston, 1864)]; Lanzarote lg. H.Franz / Ca-
narische Inseln leg. H. Franz (1♀ NHMW).

Fuerteventura: Fuerteventura Canarias Jandia: Valle
de los Mosquitos, 50 m, 9-3-2011, leg. Antonio
Machado (2♂♂ AMcoll; 1♂ MDColl). Graciosa:

Macrocoma dubia (Wollaston, 1864) (Figs. 13-18)

Pseudocolaspis dubia Wollaston, 1864: 395

TYPE SPECIMENS. 2♀♀ OUNHM Syntypes (examined)
labelled: R.P / standing over: Pseudocolaspis dubia
Wollaston, 1864 Cat. Col. Ins. Can. Coll. B.M.: 395 / Wollaston Canary Colln. Fuerteventura OUMNH-
2006-009; 1♀ Syntype NHML (examined) labelled: R.T / Type / Pseudocolaspis dubia, Woll. type.

DISTRIBUTION AND GEONOMIC DATA. Fuerteventura:

[Fuerteventuram, Aprili ineunte A.D. 1859 in Rio Pal-
mas capta (Wollaston, 1864)]. Lanzarote: Los An-
cones 9-5-86, 50 m leg. A. Machado (2♂♂ MDColl;
1♂, 2♀♀ AMcoll); Lanzarote, Los Ancones 9-V-86
Machado (3♂♂, 7♀♀ MNHT)

NOTE. The aedeagus of the male Syntype is drawn in
Figs. 3 and 4. A population from Fuerteventura some-
what differs in the morphology of the aedeagus (Figs.
5 and 6), having a wider incision at the apex and
lightly bent sides in dorsal view. Examined male spec-
imens do not allow me to decide for a separation
among the populations of different islands.

Macrocoma latifrons (Lindberg, 1953 (Figs. 19-25, 69)

Macrocoma latifrons Lindberg, 1953: 10

M. vicina Lindberg i.l.

TYPE SPECIMENS. ♂ Holotype FMNH (examined) la-
belled: Tenerife Puerto de S. Juan 23.2.50 Lindberg /
Macrocoma latifrons m. Harald Lindb. det. / Mus. Zool.
H:fors Spec. typ. No 2606 Macrocoma latifrons Har.
Lindb. / Photographed 2016 Pekka Malinen / http://id.luomus.fi/GAC.21681 / http://id.luomus.fi/
GAC.21681 Macrocoma latifrons Lindberg 1953 H. Lind-
berg det.; 3 paratypes FMNH (not examined):
Tenerife, Puerto de S. Juan, 23.2.50, H. Lindberg; 5
paratypes FMNH (2♂♂, 1♀ examined): Tenerife, J.M.
Fernández, Las Galletas, 24.2.1951; 1♂ paratype
FMNH (examined): Dr. C. O. V. Regteten Altena, Los
Cristianos, Tenerife, 19-IV-1947.

DISTRIBUTION AND GEONOMIC DATA. Tenerife:

(Islas Canarias) Playa S. Juan - Guía, km 6, 27.4.94, en
Schyzogine s., leg. A. Machado, 250 m (2♂♂, 1♀ AM-
coll); Tenerife, El Médano, 5-5-1968, J. M. Fernández
(1♂ MDColl); Canarie, Tenerife, El Medano 28-II-92
leg. Osella, Biondi, Altea (1♂ MDColl); Tenerife, Gal-
letas 26-2-949 J. M. Fernández (1♂ MDColl); Tenerife
Malpais de Güímar, El Socorro, Bastazo Y Vela leg.,
25/02/2016, 50 m, 28°19.565’N 16°22.208’W (1♂,
5♀♀ MDColl); Tenerife, Herjos [= Erjos] 22.V.954 A.Glez.Padrón (1♂ MDColl); Tener-
ife, Los Gigantes III-V-76 A. Machado (1♂, 1♀ AM-
coll); Canary Islands, Tenerife, 50 m, Playa de las
Americas, leg. M. Mařík, 17.4.2011 (1♂ JPColl); Isole
Canarie, Tenerife, Lower zone, IV.1991 leg. Beretta
(1♂, 1♀ MDColl); Canarie Tenerife, Tamaimo dint.,
V.89 lg. P. Dioli (1♂ SZcoll); Tenerife, Pio de Santi-
ago (2♀♀ SZcoll); South Tenerife, Adeje 1-8.03.2001,
L. Medvedev leg. (1♂ SZcoll); Los Menores, 300 m
(Palm, 1976); Puerto de S. Juan (Palm, 1976); Los
Cristianos (Palm, 1976); Las Galletas (on Hypericum
canariense) (Palm, 1976).

NOTE. A ♀ in NHML (examined) is labelled: Paratype
/ Tenerife, Puerto de S. Juan, 23.2.50 Lindberg / 
Macrocoma vicina n. sp. Harald Lindb. det. This is,
without any doubt, a M. latifrons, possibly even col-
lected together with the type specimens of the latter.
The name vicina must be regarded as a not published
perhaps provisional name, successively changed by
Lindberg in latifrons.
The macrocoma in this species is characterized by the wide saddle-like incision of the apex and by the sides clearly sinuate in dorsal view. Variability in the morphology of the aedeagus is shown in Figs. 21-25.

**Macrocoma obscuripes** (Wollaston, 1862) (Figs. 26-30, 64)

*Pseudocolaspis obscuripes* Wollaston, 1862: 441

Type specimens. 1♂ Syntype NHML (examined) labelled: Syntype / Type / Pseudocolaspis obscuripes type Woll.; 1♂ Syntype NHML (examined) labelled: Syntype / Type / standing as *Pseudcolaspis obscuripes* Woll. (further 9 Syntypes in NHML, not examined)

Distribution and Geonomic data. Gran Canaria: ["in montibus excelsis Canariae Grandis, ad flores Cistorum (sc. C. monspeliensis et vagantis) capta" (Wollaston, 1862)]; Gran Canaria, Artenara, 360 m, I-1988, leg. A. Machado (1♂, 4♀♀ aMcoll; 2♂♂ Mdcoll); E Gran Canaria Isl., San Bartolomé 1,5 km S 18.2.2015 lgt. Jan Pelikán, 27°55′34.2″N 15°27′45.4″W, 382 m, sukul. buš, oklep [succulent bush, beating] Lavandula multifida canariensis [white printed label]; Holotypus *Macrocoma pelikani* n.sp. S. Zoia det. 2016 [printed red label].

Paratypes (13♂♂, 8♀♀): E - Gran Canaria Isl., Ingenio, 35 km W Bco. de Guayadeque, 2.2.2016 lgt. J. Pelikán / 27°55′34.2″N 15°27′45.4″W, 382 m, sukul. buš, oklep [succulent bush, beating] (4♂♂, 2♀♀ SZ-coll; 1♂ Mdcoll; 6♂♂, 4♀♀ JPcoll; 1♂ aMcoll); Spain, Gran canaria ins., Barranco de Guayadeque, 2.5 km WNW of Ingenio / 27°55′34″N 15°27′45″W 400 m Mántic lg 25.03.2016, beeting *Lavandula multifida* (1♂, 1♂ MMcoll); E-Gran Canaria, Ingenio, B.co de Guayadeque, 382 m, 27°55′34.2″N 15°27′45.4″W lgt. J. Krátký (1♂ JPcoll).

Diagnosis. A *Macrocoma* species close to *M. obscuripes* (Wollaston, 1864) from which mainly differs in the smaller body size, shape of scutellum, color of antennae and legs, morphology of the aedeagus.

Description. Habitus as in Figs. 31-33; body length of the holotype 3.0 mm, of the paratypes 2.7-3.4 (♂♂), 2.6-3.2 (♀♀).

Body, head, pronotum and elytra dark, with metallic bronze reflections; labrum black, mandibles brown, palpi brown with darker distal segment; 1st antennomere dorsally dark, usually with some metallic hue, 2nd to 6th antennomeres reddish at base and blackish distally, sometimes 5th and 6th nearly completely black, 7th to 11th black (Fig. 35); femora black with bronze metallic reflections, tibiae reddish, tarsi from brown to black, usually with base of the 1st and last tarsomere paler.

Frons moderately and regularly convex; pubescence of frons and clypeus relatively long, thin, silvery; punctuation moderately strong, partially confluent on the vertex, sparse; surface between punctures smooth; clypeus not separated from frons, its distal border concave. Penultimate article of maxillary palp nearly so long as wide, the ultimate conical, nearly 1.7 times longer than the penultimate. First antennomere nearly twice longer than wide, as long as the 2nd and nearly 1.5 times in diameter, feebly bent on the outer side; 2nd twice longer than wide; 3rd 0.6 times as long as the 2nd, 1.5 times longer than wide;
4th and 5th subequal to the 3th; 6th a little wider and shorter than the 5th; 7th to 10th widened, the 7th the longer, 8th to 10th a little wider than long; 11th 1.5 times longer than wide. Relative lengths of antennomeres in the left antenna of holotype: 1.8-1.6-1.2-1.1-1.4-1.3-1.3-1.3-2 (Fig. 35).

Pronotum 1.1-1.2 times wider than long (1.1×1.0 mm in the holotype), maximum width nearly at 1/3 of the length; base a little wider than distal edge, the latter finely bordered; lateral margin obsolete; proximal angles marked by the insertion of a seta, not produced outwards; surface closely punctured, transversely rugose at sides; pubescence relatively long and thin, adpressed, sparse, hyalin (Fig. 34).

Scutellum vaguely pentagonal, apex somewhat rounded, shiny, with a few punctures and some hairs.

Hypomeron closely punctured and densely hairy, separated from the prosternum by an elevated carina; distal margin of hypomera and pro sternum concave, regularly bent; prosternum wide, 1.2 times longer than wide between the coxae, moderately transversally elevated in the middle, strongly punctate, with sparse silvery pubescence.

Mesoventrite a little wider than pro sternum between the coxae, its distal edge feebly bent, surface punctured, with fine sparse pubescence; mesoepimera punctured, pubescent.

Metaventrite punctured, finely transversally rugose, pubescent, distal border incised in middle; metaco xen a little more spaced than mesocoxae; metaepip terma tapering to rear, nearly 2.8 times longer than wide, punctured and densely pubescent.

Elytra convex, oblong, a little longer than wide (in the holotype: elytral length in dorsal view 1.7 mm, distance from the base of scutellum to elytral apex 2.0 mm; maximum width 1.6 mm, width at base 1.5 mm), on the basal half somewhat flattened near suture and with transversal posthumeral impressions; humeri protruded, covering the elitr al sides in dorsal view; elytral sides nearly straight and feebly widened to rear from the base up to nearly half their length; apices in a right angle; punctuation (Fig. 34) moderately strong, a little stronger than on pronotum, close, sparse; surface smooth between the punctures; each elytron with nine longitudinal rows of adpressed hyalin/whitish setae, each row with a single seta on its width, separated by wider strips of moderately elevated hyalin hairs which reflect the color of the elytral surface. Epipleura moderately wide, gradually tapering to rear, smooth, with a line of fine hairs. Wings fully developed.

Legs relatively long; femora unarmed, moderately swollen; tibiae nearly straight, with a fine silvery pubescence. Protarsi a little widened in males (Fig. 36), the mesotarsi less so. Claws bifid, with the inner tooth a little shorter, the division starting at the basal third of the claw (meso- and metatarsi) or in the distal half (protarsi in males).

Dorsal side of abdomen sclerotized; abdominal ventrites punctured, with a very fine microreticulation and hyalin pubescence.

Aedeagus as in Figs. 37-39, the apex with a short but relatively wide incision in the middle.

Spermatheca as in Fig. 66, with a small pre chamber at the insertion of the ductus; styli short, conical, poorly sclerotized (Fig. 65); spiculum gastrale moderately long (Fig. 65).

DERIVATIO NOMINIS. The new species is dedicated to Jan Pelikán who collected and gave me for study the related material.

NOTE. M. pelikani n. sp. was collected on shrubs of Lavandula multifida canariensis (L.) Mill. (Lamiaceae).

M. pelikani n. sp. (Figs. 31-33) strictly resembles M. obscuripes (Wollaston, 1862) (Figs. 26, 27 and 30), with elytral sides feebly widened from the base to their mid-length and restricted to rear in a regular arch, yet its habitus is in general somewhat stouter; the pubescence of elytra is of the same type in both species, made of erected hyalin scale-like setae, with nine nearly regular longitudinal stripes of adpressed scale-like hyalin-whitish setae (Fig. 34). M. pelikani n. sp. differs in the average smaller body size (2.6-3.4 mm vs. 2.8-4.2 mm), tibae and base of 2nd to 5th antennomeres reddish (black in M. obscuripes), aedeagus smaller with different shape of the apex (Figs. 28, 29 and 37-39).

Macrocuma splendens Lindberg, 1950 (Figs. 40-46, 68)

Macrocuma splendens, Lindberg, 1950: 13

TYPE SPECIMENS. ♂ Holotype FMNH: Tenerife, supra Icod, 9.V.47, H. Lindberg / Mus. Zool. H.fors Spec. typ. No 2514 Macrocoma splendens Har. Lindb. / Photographed 2016 Pekka Malinen / http://id.luomus.fi/GAC.21688 / http://id.luomus.fi/GAC.21688 Macrocoma splendens Lindberg 1950 H. Lindberg det.; 18 Paratypes FMNH (♀♀, examined); Tenerife, Agua Mansa, 15.V. 47, H. Lindberg; 1 Paratype NHML (not examined): same data.
**Macrocoma splendidula** ssp. *splendidula* (Wollaston, 1862) (Figs 47-53, 63)

**Pseudocolaspis splendidula,** Wollaston, 1862: 442

**Type specimens.** ♂ Lectotype NHML (examined) labelled: Syntype / Type / Lectotypus Th. Palm design. 1975 / Pseudocolaspis splendidulum type Woll.; 1♂ 4♀♀ NHML Paralectotypes T. Palm des. (not examined); further 4 Syntypes NHML (Wollaston’s syntypes) (not examined)

**Distribution and geonomic data.** Gran Canaria: [Gran Canaria “ad flores Cistorum in locis inferioribus et subinferioribus degens” (Wollaston, 1862)]; Gran Canaria, Canarias, Telde: Mña El Goro 28-1-2016 Sobre Malva, leg. Antonio Machado / aMC (1♀ aMcoll); Gran Canaria, España, Tufia, 21-3-2010, arenal Schizogyne sericea, leg. Antonio Machado (1♀ aMcoll); E - Gran Canaria Isl., Tufia (Atlantic coast) 28.1.2016 lgt. Jan Pelikán, 27°57’25.6”N 15°23’06.8”W, 40 m, ruderal noční osmyk [ruderal vegetation, night sweeping] Patellifolia patellaris (1♂, 2♀♀ JPcoll); Maspalomas 13.5.959 (1♂ MDColl); Gran Canaria, 2-6-1963 Maspalomas J.M. Fernández (2♂♂ MNHT); Gran Canaria, Maspalomas; Arguineguín (on Schizogyne sericea) (Palm, 1976); Gran Canaria, Playa de Arinaga (on Bassia tomentosa) (Jan Pelikan in verbis). Tenerife: Islas Canarias, Malpaís de Güímar, 30 m, 26-2-2000, Plocam. Euph., leg. Antonio Machado (1♂, 3♀♀ AMcoll); Tenerife 10.3.1963 S. Andrés J.M. Fernández (5♂♂, 6♀♀ MNH); Tenerife, Herjos [= Erjos] 22.V.954 A. Glez. Padrón (1♂ MNHT); Tenerife 24-2-951 Las Galletas J.M. Fernández (3♂♂ MNHT); Tenerife, El Médano 16-4-1976 J.M. Fernández (1♂ MNHT); Tenerife, Tamaimo 27-5-54 A. Gonzalez (1♂ MNHT); Tenerife 3-4-1960 B.co Santos J.M. Fernández (1♂ MNHT).

**Macrocoma splendidula** ssp. *franzi* Palm, 1976 n. stat. (Figs. 54-59, 67)

**M. occidentalis franzi,** Palm, 1976: 102

**Type specimens.** ♂ Holotype NHMW (examined): Isla del Hierro, Restinga / Sp 1181 / Kanarische Inseln leg. H. Franz / M. occidentalis franzi Palm Det. Th. Palm / Holotypus [Palm, 1976 added the following data: (nahe Küste) 23-25.3.68]; ♀ Allotype NHMW (examined): Isla del Hierro, Restinga / Kanarische Inseln leg. H. Franz / Allotypus; 1♂, 4♀♀ Paratypes NHMW (1♂ examined): Isla del Hierro, Las Playas, lg. Franz / Sp 1324 / Paratypus; 1♂, 4♀♀ Paratypes NHMW (not examined): Isla del Hierro, Restinga / Kanarische Inseln leg. H. Franz; 1♂ Paratype NHMW (not examined): El Brezal, etwa 800 m, 22.3.68.

**Distribution and geonomic data.** Hierro: Isla del Hierro, Restinga, Kanarische Inseln, leg. H. Franz (1♂ MDcoll; 1♂, 1♀SZcoll); Isla del Hierro, El Golfo Lorbeerwald, Kanarische Inseln leg. H. Franz (2♀♀ NHMW); Isl. Can. Hierro, Ung. Parador 27°42.931 N 17°57.648W, 20 m, 3-5.VII.2011 E. Heiss (SZcoll); El Brezal, 800 m (Palm, 1976)

**Macrocoma splendidula** ssp. *palmaensis* Palm, 1977, n. stat. (Figs. 60 and 61)

**M. occidentalis** Palm, 1976: 102 (nec Escalera, 1914)

**Type specimens.** Holotype and Allotype OUNHM (not examined): no locality data [La Palma (Palm, 1976)].

**Distribution and geonomic data.** La Palma.

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The *Macrocoma* Chapuis from the Canary Islands, with description of a new species

Figs. 1-8. *Macrocoma divisa*: 1 - ♂ Syntype, dorsal view (Lanzarote; OUMNH); 2 - idem, lateral view; 3 - idem, aedeagus, dorsal view; 4 - idem, lateral view; 5 - aedeagus, dorsal view (Fuerteventura, Jandia, Valle de los Mosquitos); 6 - idem, lateral view; 7 - ♀ Syntype (Lanzarote; OUMNH), dorsal view; 8 - idem, lateral view.
Figs. 9-18. *Macrocoma oromiana*: 9 - ♀ Holotype, dorsal view (Alegranza; MNHT); 10 - idem, lateral view; 11 - idem, aedeagus dorsal view; 12 - idem, lateral view. Figs. 13-18. *Macrocoma dubia*: 13 - ♀ Syntype (Fuerteventura; OUMNH), dorsal view; 14 - idem, lateral view; 15 - aedeagus, dorsal view (Lanzarote, Los Ancones); 16 - idem, lateral view; 17 - aedeagus, dorsal view (same locality as Figs 15-16); 18 - idem, lateral view.
Figs. 19-25. *Macrocoma latifrons*: 19 - ♂ Holotype, dorsal view (Tenerife, Puerto de S. Juan; FMNH); 20 - idem, lateral view; 21 - idem, aedeagus, dorsal view; 22 - idem, lateral view; 23 - aedeagus, dorsal view (Tenerife, Playa S. Juan, Guía); 24 - idem, lateral view; 25 - aedeagus, dorsal view (Tenerife, Los Gigantes).
Figs. 26-31. *Macrocoma obscuripes*: 26 - ♂ Syntype, dorsal view (Gran Canaria; NHML); 27 - idem, lateral view; 28 - aedeagus, dorsal view (Gran Canaria, Artenara); 29 - idem, lateral view; 30 - ♀, dorsal view (Gran Canaria, Artenara). *Macrocoma pelikani* n. sp., ♀ Paratype, dorsal view (Gran Canaria, Ingenio, Bco. de Guayadeque; JPColl).
The *Macrocoma* Chapuis from the Canary Islands, with description of a new species

Figs. 32-39. *Macrocoma pelikani* n. sp.: 32 - ♂ Holotype, dorsal view (Gran Canaria, Ingenio, Bco. de Guayadeque; MNHT); 33 - idem, lateral view; 34 - idem, surface of pronotum and elytra; 35 - left antenna; 36 - left protarsus; 37 - aedeagus, dorsal view; 38 - Paratype, aedeagus, dorsal view (same locality); 39 - idem, lateral view.
Figs 40-46. *Macrocoma splendens*: 40 - ♂ Holotype, dorsal view (Tenerife, supra Icod; FMNH); 41 - idem, lateral view; 42 - idem, aedeagus, dorsal view; 43 - idem, lateral view; 44 - ♂, dorsal view (La Palma, Santa Cruz); 45 - aedeagus, dorsal view (La Palma, Santa Cruz); 46 - idem, lateral view.
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Figs. 47-53. *Macrocoma splendidula splendidula*: 47 - ♂ Lectotype, dorsal view (Gran Canaria; NHML); 48 - idem, lateral view; 49 - aedeagus, dorsal view (Gran Canaria, Tufía); 50 - idem, lateral view; 51 - aedeagus, dorsal view (Tenerife, Malpais de Güímar); 52 - idem, lateral view; 53 - idem, aedeagus, dorsal view (Gran Canaria, Maspalomas).
Figs. 54-61. *Macrocoma splendidula franzi*: 54 - ♂ Holotype, dorsal view (Isla del Hierro, Restinga; NHMW); 55 - idem, lateral view; 56 - idem, aedeagus, dorsal view; 57 - idem, lateral view; 58 - ♀ Allotype, dorsal view (Isla del Hierro, Restinga; NHMW); 59 - idem, lateral view. *M. splendidula palmaensis*: 60 - aedeagus, ventral view; 61 - idem, lateral view (re-drawn from Palm, 1976, not in scale).
The *Macrocoma* Chapuis from the Canary Islands, with description of a new species

Figs. 62-69. 62 - *Macrocoma divisa*, spermatheca (Lanzarote, Los Ancones); 63 - *M. splendidula splendidula*, spermatheca (Gran Canaria, Tufia); 64 - *M. obscuripes*, spermatheca (Gran Canaria, Artenara); 65 - *M. pelikani* n. sp., styli and spiculum gastrale (Paratype - Gran Canaria, Ingenio, 35 km W Bco. de Guayadeque); 66 - idem, spermatheca; 67 - *M. splendidula franzi*, spermatheca (Isla del Hierro, Restinga); 68 - *M. splendens*, spermatheca (Paratype - Tenerife, Aqua Mansa); 69 - *M. latifrons*, spermatheca (Tenerife, Malpais de Güímar).
Figs. 70-71. 70 - distribution of *Macrocoma divisa*, *M. oromiana*, *M. dubia*, *M. pelikani* n. sp., *M. obscuripes*, *M. latifrons* and *M. splendens*; 71 - distribution of *M. s. splendidula*, *M. s. franzi*, *M. s. palmaensis*. 