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The Sipalini of French Guiana (Coleoptera, Curculionidae, Rhynchophorinae)⁴

by Patricia VAURIE *

Résumé. — Dix espèces appartenant à trois genres (*Rhinostomus*, *Mesocordylus*, *Orthognathus*) de la tribu des Sipalini sont signalées de la Guyane française. Leur répartition en Guyane, ainsi que leur répartition générale, est donnée. Des clefs sont présentées pour les genres de la tribu dans le Nouveau Monde, ainsi que pour les espèces de la Guyane française.

Abstract. — Ten species belonging to three genera (*Rhinostomus*, *Mesocordylus*, *Orthogna-thus*) of the tribe Sipalini are reported from French Guiana. Their distribution in French Guiana, as well as their general range, is given. Keys are presented to the genera of the tribe in the New World as well as to the species in French Guiana.

The largest collections from French Guiana and in some cases the only specimens from that country are in the Muséum national d'Histoire naturelle, Paris, which recently (1969) sent an expedition there. Ten of the 36 species of the neotropical curculionid tribe, Sipalini, have been found in French Guiana. Previous to my revision (VAURIE, 1970, June, December, 1971) of these little known, dark-colored weevils, only two species (*Mesocordylus rugicollis* and *striatus* of BOHEMAN) had been described from French Guiana, and the catalogues of JUNK and BLACKWELDER listed only these two as occurring there. PRU-DHOMME (1906), however, had already collected *Rhinostomus barbirostris* (Fabricius) in French Guiana and he listed also *Mesocordylus* and *Orthognathus*, but without species. Since 1971 additional records of Sipalini have accumulated, and I present herewith those pertaining to the species of French Guiana.

The tribe is composed of five genera, one (*Sipalinus*) in Africa and Asia, one (*Yuccaborus*) in North America, and three genera found chiefly in South America. (Another genus, *Nudoderes* Hustache, appearing in catalogues under the tribe Sipalini, was synonymized by KUSCHEL in 1955 with *Ithaura* Pascoe, in a different subfamily, the Hylobiinae.)

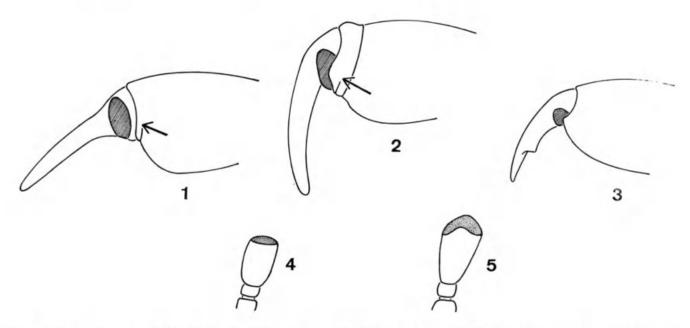
The species of the genera *Rhinostomus*, *Mesocordylus*, and *Orthognathus* in French Guiana can be recognized as follows: They are medium to large (generally from 12 to 50 mm); elongate, oblong, cylindrical in shape; and black or brownish in coloration. In contrast to many Curculionidae they have no scales, but they can have hairs, or, on the elytra, rows of silky or rather tomentose, whitish granular spots; some species have an over-all

^{1.} Contribution à l'étude de la faune entomologique de la Guyane française.

^{*} Department of Entomology, American Museum of Natural History, New York, N. Y., et Laboratoire d'Entomologie, Muséum national d'Histoire naturelle.

shining glaze. The eyes of these nocturnal weevils are very large, meeting under the head; the antennae are elbowed, and composed of a six-segmented funiculus, a scape, and a partially or almost entirely spongy club. The pygidium is mostly covered by the punctatestriate elytra, not truly exposed as in other Rhynchophorinae. The mandibles on their inner surface are convex and smooth, not dentate, forming little ears or "oreillettes". The mesepimeron is proportionally small, ascending angularly; the femora and tibiae are unarmed; the claws divergent.

Probably the only well known species is the large *Rhinostomus barbirostris*, the male of which is instantly recognizable by its very long front legs and long, straight bottle-brush rostrum that bristles with golden-red hairs and dorsal teeth. This species breeds in and causes damage to palm trees, especially coconut palms. At least some of the species of *Mesocordylus* have the same habits, but ecological information is lacking for most species. The sexes are strongly dimorphic in *barbirostris*, as the female lacks the bearded rostrum, hers being more modest and also smooth. In other species of the tribe the sexes are differentiated also by the rostrum.



FIGS. 1-5. — Genera of Sipalini : 1, Rhinostomus ; 2, Mesocordylus ; 3. Orthognathus, male, showing rostral tooth ; 4, Antennal club, Mesocordylus cerinus and striatus ; 5. Antennal club, Mesocordylus eurytrema and scutellaris.

KEY TO THE GENERA OF SIPALINI IN THE NEW WORLD

Metepisternum convex, wide, with from 2 to 4 or 5 rows of punctures and at middle almost twice width of last elytral interval; beak behind apex compressed, flattened laterally, its lower edge margined; hind tibiae at apex twice or more their width at base..... Orthognathus

Genus RHINOSTOMUS Rafinesque, 1815

SYNONYM : Harpacterus Schoenherr, 1845.

The earlier name *Rhina* Latreille, 1802, was found to be preoccupied (International Commission of Zoological Nomenclature, 1955, Opinions and Declarations, vol. 10, pt. 12: 355-388).

Two of the seven species of the genus are found in French Guiana; of the other species, two inhabit the Greater Antilles (*oblitus*, *scrutator*), one (*meldolae*) the Andaman Islands¹, one Africa (*niger*), and one (*thompsoni*), Colombia and Ecuador.

KEY TO THE SPECIES OF Rhinostomus IN FRENCH GUIANA

Rhinostomus barbirostris (Fabricius, 1775)

SYNONYMS : R. affaber, costalis, and ebriosa Fahraeus, 1838; Curculio validus Panzer, 1798; R. verrirostris Illiger, 1806.

Cayenne ; Roches de Kourou ; St Jean du Maroni ; St Laurent du Maroni. 21 specimens. This species, the type of the genus, occurs in western and southern Mexico and ranges south through Central America (excluding the Antilles) to the island of Trinidad and all South America (except Chile).

Rhinostomus quadrisignatus (Boheman, 1845)

SYNONYM : Harpacterus ebeninus Boheman, 1845.

Guatimala ; Rivière de Kourou (new locality) ; St Laurent du Maroni — 3 specimens. When greased this species, viewed at a glance, might be mistaken for small females

1. The type of *Rhina lineata* Desbrochers des Loges, 1890 (type locality, Andaman Islands), a synonym of *meldolae* Pascoe, was not found at the time of my revision, but has now been identified in the Paris Museum — a male in perfect condition with the name and locality in the author' shandwriting and agreeing with his detailed description.

of *barbirostris* although the rostrum and other characters differ (see key above). The known range outside of French Guiana covers Brazil (type locality), Peru, and Ecuador, with the addition herewith of new localities in Venezuela (Rancho Grande, Aragua), and Colombia (Leticia, Amazonas), and Surinam.

Genus MESOCORDYLUS Lacordaire, 1866

Many of the species of this genus are uncommon in collections and they are readily overlooked, being black or brown and rather unattractive. They were previously included in the genus *Sipalinus* (= *Sipalus*) of the Old World before LACORDAIRE removed the New World species. Their geographic range extends from northwestern Mexico south through South America to northern Argentina, including some of the Greater and Lesser Antilles. There are 19 species in addition to the 7 found in French Guiana.

KEY TO THE SPECIES OF Mesocordylus in French Guiana

1.	Elytral intervals either without pale spots or with numerous, dense, flattish spots separated by no more than twice their diameters (20 or more spots from base to apical declivity of elytra).
	Elytral intervals with widely separated (by from 3 to 8 times their diameters), pale, elevated, granular or hairy spots (from 2 to 15 or fewer from base to apical declivity of elytra) 5
2.	Antennal club, viewed from outer side, with pale spongy apex virtually hidden, or visible only as a fine pale line (fig. 4)
3.	Dorsum covered with yellowish, enamel-like, glossy glaze; rostrum arcuate; pronotum with margin behind eye strongly lobed (post-ocular lobe), and dorsally behind apex feebly impressed; aedeagus at apex deeply U-shaped
4	(2). Pronotum distinctly longer than wide; rostrum on sides behind antennal insertion with spongy coating, when viewed from above, not or scarcely visible; aedeagus with apex U-shaped. scutellaris
	Pronotum as wide as, or wider than long; rostrum behind antennal insertion with spongy coating visible from above, covering outer third or fourth of rostrum; aedeagus with apex V-shaped
5	(1). Tarsal soles rather spongy with hairs very short and not visible in dorsal view; elytra generally clearly marked with rows of large whitish spots contrasting with dark surface subulatus
	Tarsal soles more hairy than spongy, hairs sufficiently long to be visible, in dorsal view, from sides or apex; elytra generally with vesicular spots less evident, less contrasting on rather rough or opaque surface
6.	Antennal club with spongy apex subtruncate and so small as to be scarcely visible (fig. 4); elytra with vesicular, tomentose spots narrower than intervals

Mesocordylus cerinus Vaurie, 1970

La Forestière, Haut Maroni (type locality; type in Muséum national d'Histoire naturelle); also Rivière Lunier, new locality. 2 specimens.

So far as known, restricted to French Guiana.

Mesocordylus striatus (Boheman, 1838)

Cayenne (type locality); Roches de Kourou; Environ St Georges, Rivière Oyapock (new locality). 15 specimens.

A widespread species ranging from Central America to South America where it has been collected in Bolivia, Brazil, Guyana, Surinam, Colombia, and Peru.

Mesocordylus scutellaris (Erichson, 1847)

SYNONYM : Mesocordylus glaber Voss, 1947.

St Laurent du Maroni ; Nouveau Chantier, Bas Maroni. 3 specimens.

Further distribution of this species is in Costa Rica, Colombia, Ecuador, and Peru (type locality).

Mesocordylus eurytrema Vaurie, 1970

Cayenne (type locality) ; St Laurent du Maroni. 5 specimens. One specimen has been seen from Peru.

Mesocordylus subulatus (Germar, 1824)

SYNONYM : Sipalus sphacelatus Boheman, 1838.

Maroni ; Nouveau Chantier (new locality). 4 specimens.

This species occurs also in Costa Rica, Nicaragua, and Panama in Central America, and in Bolivia, Brazil (type locality), Colombia, Ecuador, and Peru in South America. The size and spacing of the white spots on the elytra are variable.

Mesocordylus apiciclava Vaurie, 1970

St Laurent du Maroni (type locality; type in Paris Museum). 5 specimens.

At the time of my revision (1970) I had no females, but have now seen three. Previously I thought this species might be the male of *rugicollis* as they are so similar, especially the females. However, as the aedeagus of *apiciclava* is so distinctive (lacking the apical emargination of the majority of the species), it seems best to await males of *rugicollis* before making a change. Outside of French Guiana, *apiciclava* occurs in the Amazon River basin in Brazil.

Mesocordylus rugicollis (Boheman, 1845)

Cayenne (type locality). 3 females. This is the only locality yet recorded for this species.

Genus ORTHOGNATHUS Schoenherr, 1838

The three species of this genus occur from the southwestern part of the United States south to Panama and Venezuela (*subparallelus* Chevrolat, 1880); in South America in the northeast and northwest (*imaginis* Vaurie, 1970); and in southeastern Brazil and western Bolivia (*lividus* Gyllenhal, 1838). Examples have been seen as small as 5 mm (*lividus*) and as large as 17 mm (*subparallelus*). O. *subparallelus* has been collected at lights.

Although only *imaginis* has been found in French Guiana, I give below a key to all 3 species because my former key (1970 : 75) has become inadequate with the examination of additional material.

REVISED KEY TO THE SPECIES OF Orthognathus

Orthognathus imaginis Vaurie, 1970

Maroni. 2 specimens.

Additional localities in South America where *imaginis* occurs are to the south along the Rio Tapajoz in Para, Brazil, and on the western coast in Guayas Province, Ecuador (type locality), also inland in Loreto Province, Peru.

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