

## Scientific Note

**First record of *Plectris fassli* Moser, 1919 and *Pseudothyridium solisi* Soula, 2002 (Coleoptera: Scarabaeidae) for Panama**

Primer registro de *Plectris fassli* Moser, 1919 y *Pseudothyridium solisi* Soula, 2002 (Coleoptera: Scarabaeidae) para Panamá

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**Abstract.** The species *Plectris fassli* Moser (Melolonthinae: Macroductylini) and *Pseudothyridium solisi* Soula (Rutelinae: Rutelini: Anticheirina) are recorded for the first time for Panama. Photographs of adults and male genitalia, as well as the distribution map of the new reports are presented.

**Key words:** Anticheirina; Macroductylini; Neotropical.

**Resumen.** Se registra por primera vez para Panamá a las especies *Plectris fassli* Moser (Melolonthinae: Macroductylini) y *Pseudothyridium solisi* Soula (Rutelinae: Rutelini: Anticheirina). Se presentan fotografías de los adultos y de los órganos genitales masculinos, así como un mapa de distribución con los nuevos reportes en el país.

**Palabras clave:** Anticheirina; Macroductylini; neotropical.

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During the first semester and beginning of the second semester of the year 2021, we conducted field trips in various areas of Panama to collect scarab beetles. Among the collected specimens, we found two species belonging to the genus *Plectris* LePeletier & Serville, 1828 (Melolonthinae: Macroductylini) and *Pseudothyridium* Soula, 2002 (Rutelinae: Rutelini: Anticheirina) that are new reports for the country. Specimens were collected with mercury vapor and ultraviolet light traps placed in a premontane-cloud forest at 914 meters in the locality of Santiago Apostol (Sora, District of Chame), Province of Panama Oeste. The genus *Plectris* LePeletier & Serville is represented only by 3 species in the country (*Plectris integrata* (Bates, 1887), *Plectris micans* (Kirsch, 1885) and *Plectris panamaensis* Frey, 1967 (Frey 1967; Ratcliffe 2002; Evans & Smith 2003). *Plectris fassli* Moser, 1919 is a species with records only in Colombia (Frey 1967; Evans & Smith 2003; Pardo-Locarno *et al.* 2005; Pardo-Locarno & Yepes 2018), this new record brings the total number of *Plectris* species for Panama to four and broadens to the north the distribution of the species. The genus *Pseudothyridium* Soula is represented in the country by *Pseudothyridium semicinctum* (Bates, 1888), species reported for the province of

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Chiriquí by Soula (2002). The species *Pseudothyridium solisi* (Soula, 2002) has previously been recorded further south, in Costa Rica (Soula 2002). This new record raises to two the number of species of the genus present in the country.

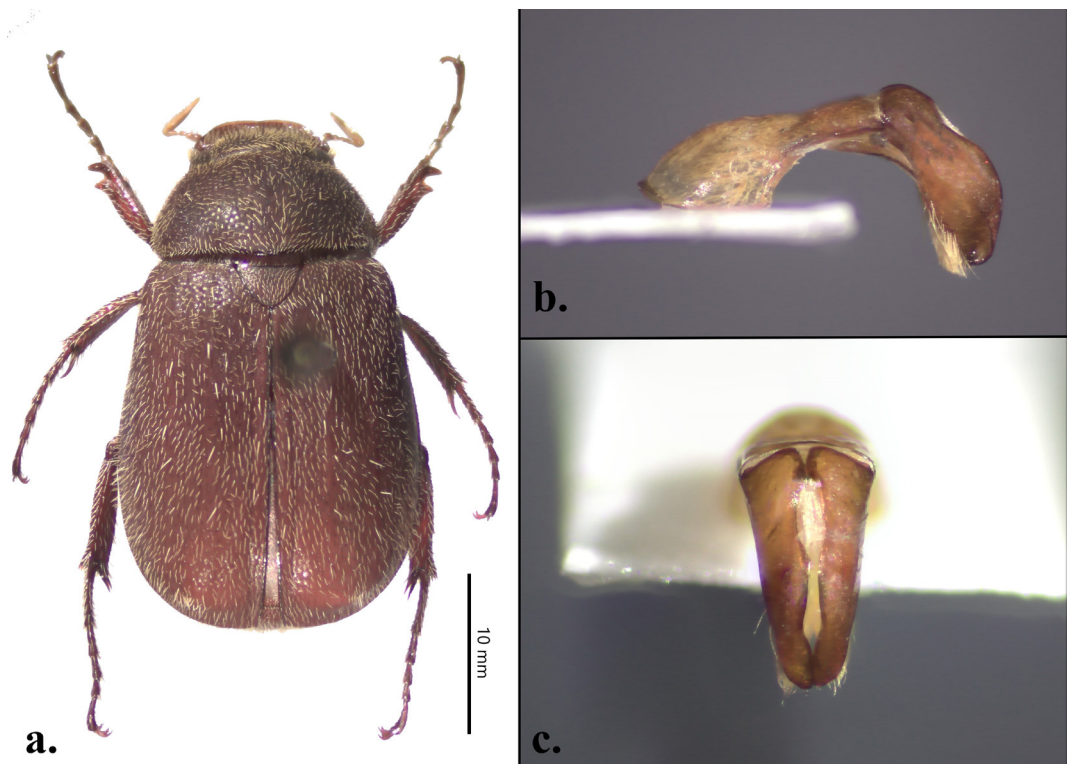
The collected adults of *Plectris* were identified by the taxonomic key and male genitalia illustrations provided by Frey (1967), while the specimen of *Pseudothyridium* was identified based on the illustrations and descriptions provided by Soula (2002).

*Plectris fassli* Moser, 1919  
(Figs. 1a-c)

**Material examined.** 9 specimens (3 males, 6 females) from: PANAMÁ: Prov. Panamá Oeste, Sorá, Altos del María, Santiago Apóstol, 914 m, 18-IV-2021, col. M. D. Barria & V. Rios-Almanza, Hg light trap (2 males, 5 females); PANAMÁ; Prov. Panamá Oeste, Sorá, Altos del María, Santiago Apóstol, 914 m, 15-V-2021, col. M. D. Barria & D. C. Robacker, Hg-UV light trap (1 male, 1 female).

Adult as Fig. 1a. Length: 9.0-10.2 mm; humeral width: 6 mm. Male genitalia as in Figs. 1b, c.

**Distribution.** Colombia and Panama (Fig. 3).

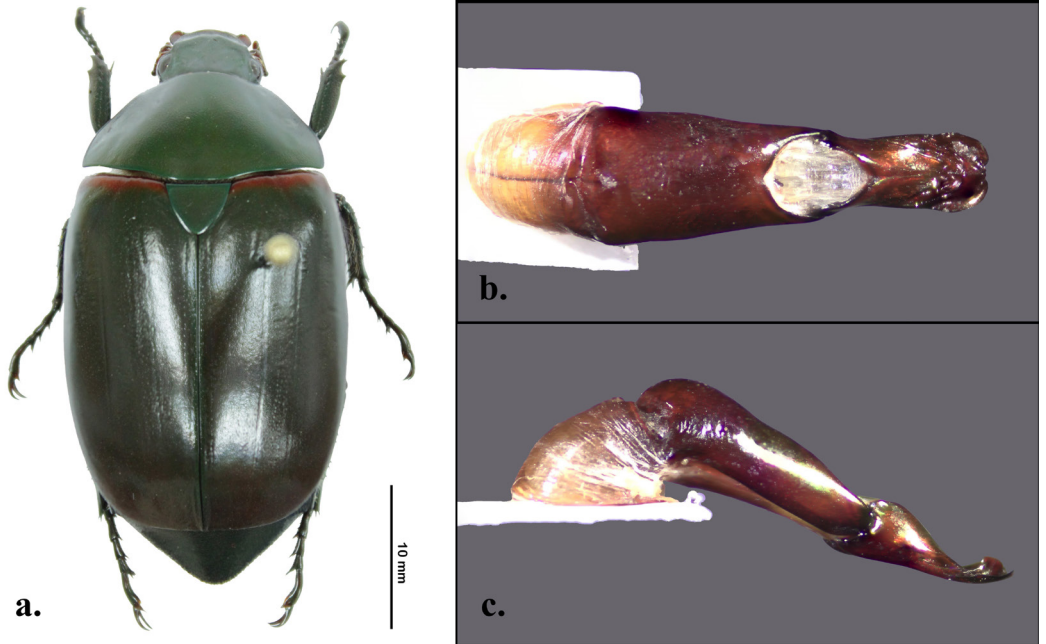


**Figure 1.** *Plectris fassli* Moser, 1919. **a.** Male, dorsal view. **b-c.** Male genitalia, lateral and caudal views. Scale bar: 3 mm. / **a.** Macho, vista dorsal. **b-c.** Edeago del macho, vistas lateral y caudal. Escala: 3 mm.

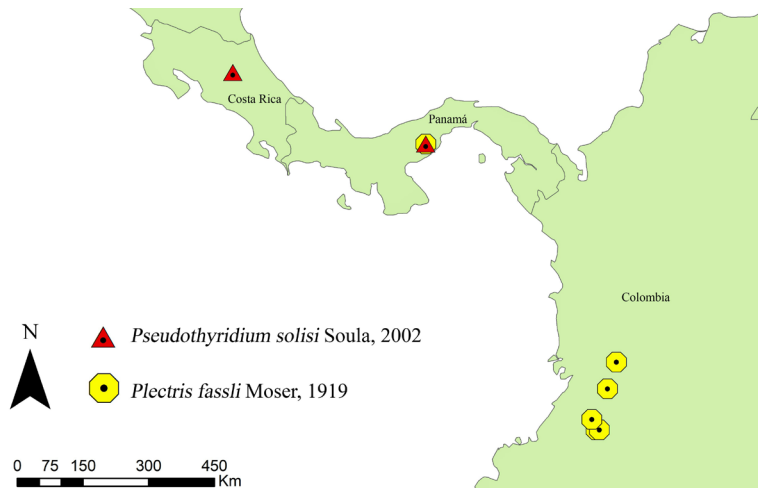
*Pseudothyridium solisi* Soula, 2002

(Figs. 2a-c)

**Material examined.** 1 male from: PANAMÁ, Prov. Panamá Oeste, Sorá, Altos del María, Santiago Apóstol, 914 m, 31 VIII 2021, M. D. Barria & D. C. Robacker col. Hg-UV light trap. Adult as Fig. 2a. Length: 36 mm; humeral width: 16 mm. Male genitalia as in Figs. 2b, c.



**Figure 2.** *Pseudothyridium solisi* Soula, 2002. a. Male, dorsal view. b. Male genitalia, dorsal and lateral views. Scale bar: 10 mm. / a. Macho, vista dorsal. b. Edeago del macho, vistas dorsal y lateral. Escala: 10 mm.



**Figure 3.** Distribution of *Plectris fassli* Moser, 1919 and *Pseudothyridium solisi* Soula, 2002 in Central and South America. \*Species information based on records published by Soula (2002), Pardo-Locarno *et al.* (2005), Pardo-Locarno & Yepes (2018) and this paper. /Distribución de *Plectris fassli* Moser, 1919 y *Pseudothyridium solisi* Soula, 2002 en centro y Sudamérica. \*Información de especies basada en los registros publicados por Soula (2002), Pardo-Locarno *et al.* (2005), Pardo-Locarno y Yepes (2018) y en este trabajo.

**Remarks.** The holotype of *Pseudothyridium solisi* is dark violet, with dark reddish tinge on the upper edge of the elytra; however, most specimens are dark olive green, with dark reddish tinge on the upper edge of the elytra. For its part *Pseudothyridium semicinctum* is a much lighter green color and the tinge on the upper edge of the elytra is yellowish.

**Distribution.** Costa Rica and Panama (Fig. 3).

All specimens are deposited in the collection of the first author housed at the Laboratorio de Estudios Biológicos de Artrópodos de la Universidad de Panamá (LEBA-UP), Panamá.

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