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Description of a new species of *Nyssodrysis* Gilmour, 1962 (Cerambycidae: Lamiinae: Acanthocinini) from Brazil and new record, host plant, and parasitoid of *Heterachthes sablensis* Blatchley, 1920 (Cerambycinae: Tropidini: Compsina) in Panama.

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Description of a new species of *Nyssodrysis* Gilmour, 1962 (Cerambycidae: Lamiinae: Acanthocinini) from Brazil and new record, host plant, and parasitoid of *Heterachthes sablensis* Blatchley, 1920 (Cerambycinae: Tropicini: Compsina) in Panama

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Acanthocinini; taxonomy;
Longhorned beetles; Neotropic;
Nyssodrysis; Brazil.
esperanzae;
Heterachthes;
sablensis;
Biological interactions;

Abstract. – *Nyssodrysis esperanzae* sp. nov. (Lamiinae: Acanthocinini), a new species of long-horned beetle, is described from Brazil. Additionally, an association of braconid wasp *Cenocoelius* sp. (Braconidae: Cenocoeliinae) parasiting *Heterachthes sablensis* Blatchley, 1920 and a new host plant is reported.

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Introduction

Nyssodrysis Gilmour, 1962 is a small genus of American Acanthocinini including four species: *N. humeralis* Bezark & Santos Silva, 2023; *N. irrorata* (Melzer, 1927); *N. lineata* Gilmour, 1962, and *N. vittata* (Melzer, 1934). These species are distributed from northern to southern South America (Bezark & Santos Silva, 2023; Monné, 2023). Herein, we described a new species from Brazil, stored in the Smithsonian Tropical Research Institute Insect Collection in Panama. Additionally, the study of some specimens identified as *Heterachthes sablensis* Blatchley, 1920 (Cerambycinae, Tropicini) collected by the third author's research team in a mangrove forest around the community of El Libano, Chame, Panama, allowed us to report a new host plant and a parasitoid for first time.

Material and methods

Photographs of *Nyssodrysis esperanzae* sp. nov. were taken at the Insect Collection of Smithsonian Tropical Research Institute by the second author, with a Visionary camera system, equipped with a Canon

EOS6D camera, equipped with Canon 65mm f/4 Max aperture: 3 horizontal/vertical resolutions: 300 dpi and edited by Adobe Photoshop photo editor software. New species confirmation was made through the revision of original descriptions and identification keys (Gilmour, 1962, Bezark & Santos-Silva, 2023), photographs (Bezark, 2023), and comparison with specimens deposited in collections.

Identification of *H. sablensis* was made through original description (Blatchley 1920), photographs (Bezark, 2023) and identification key from Santos-Silva & Botero (2017). Its parasitoid was identified by key from Achterberg (1993, 1997). Classification and distributional data are based on Monné (2023). Both, beetle and parasitoid are deposited at the Museo de Invertebrados G. B. Fairchild de la Universidad de Panamá (MIUP). Photographs were taken in the MIUP with a Sony a6000 camera, equipped with AMSCOP 4x close-up lens and Nikkor Z MC 105mm f/2.8 VR S aperture for angular frames and edited by the “tracking” technique using Photoshop software.

Measurements (mm) were taken using Leica M165 C stereomicroscope with measuring ocular, also used in the study of the specimens. The new species are described by the first and second author, while identification of *H. sablensis* and its parasitoid are made only by the first and third author.

The collection acronyms used in the text are as follows:

STRI: Smithsonian Tropical Research Institute Insect Collection, PANAMA.

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Results

Acanthocinini Blanchard, 1845

Nyssodrysis Gilmour, 1962

Nyssodrysis esperanzae sp. nov.

(Fig. 1-5)

ZooBank: <https://zoobank.org/950006BE-DA48-4A46-8508-437BC8B2AF41>

Holotype, ♀, BRAZIL, Mato Grosso: Aripuanã, Humboldt, 18.iii.1977, H.P. Stockwell leg. (STRI_ENT_0063-018).

Description of the holotype

Coloration. – Integument mostly dark brown; ventral mouthparts dark brown, except yellowish apex of maxillary palpomere IV and apex of labial palpomere III; yellowish-brown clypeus; labrum brown on posterior 2/3, yellowish brown on anterior third. Scape dark brown, remaining antennomeres reddish brown. Pronotum with a longitudinal orangish-yellow band on each side. Ventral surface of body reddish brown, except reddish-brown coxae.

Head. – Frons densely, finely punctate; with abundant yellowish-white pubescence not obscuring integument. Vertex and area behind upper eye lobes with abundant yellowish-white pubescence almost obscuring integument, except glabrous area close to prothorax and small central area between antennal tubercles and upper eye lobes. Area behind lower eye lobes with abundant yellowish-white pubescence close to eye, pubescence denser from superior third, glabrous close to prothorax. Genae with somewhat abundant yellowish-white pubescence not obscuring integument. Antennal tubercles with pubescence as on frons frontally, pubescence slightly sparser posteriorly. Clypeus covered with abundant yellowish-white pubescence partially obscuring integument. Labrum with yellowish-white pubescence not obscuring integument on posterior 2/3, with long, erect yellowish setae interspersed; anterior third glabrous, except fringe of yellowish-white setae on anterior margin. Gulamentum glabrous except moderately abundant grayish-white pubescence anteriorly. Distance between upper eye lobes 0.31 times distance between outer margins of eyes; in frontal view, distance between lower eye lobes 0.69 times distance between outer margins of eyes. Antennae 2.4 times elytral length, reaching elytral apex at basal quarter of antennomere VI. Scape with sparse grayish-white pubescence not obscuring integument; with a few long, erect blackish setae near apex of ventral surface. Pedicel with grayish-white pubescence not obscuring integument; ventral surface with a few long, erect, thick blackish setae. Antennomeres III–XI with sparse grayish-white pubescence not obscuring integument; with short, erect, thick black setae interspersed ventrally on III–VI, short, thick black setae interspersed dorsally on V–IX, setae distinctly sparser on IX.

Antennal formula based on length of antennomere III:

– Scape = 0.78. – Pedicel = 0.07. – IV = 0.84. – V = 0.63. – VI = 0.68. – VII = 0.68. – VIII = 0.71. – IX = 0.68. – X = 0.66. – XI = 0.67.

Thorax. – Prothorax 0.51 times wider than long. Well-marked anterior constriction; sides gradually divergent from anterolateral angles to lateral tubercles, then convergent toward posterolateral angles; lateral tubercles located after the base of the posterior quarter, slightly acute. Pronotum densely, finely punctate; with transverse row of coarse punctures posteriorly; with dense, longitudinal orangish pubescence obscuring the integument on each side; central area with sparse yellowish pubescence not obscuring the integument. Prosternum covered with yellowish-white pubescence not obscuring integument; prosternal process narrowed centrally, 0.12 times procoxal width; mesanepisternum and mesepimeron with dense yellowish-white pubescence, partially obscuring integument; mesoventral process not laminiform, 0.51 times mesocoxal width, with sparse yellowish-white pubescence; metanepisternum with dense yellowish-white pubescence partially obscuring integument; metaventrite with sparse yellowish-white pubescence. Metathoracic discrimen complete. Scutellum covered with yellowish-white pubescence not obscuring integument.

Elytra. – Sides slightly widened centrally; apex obliquely truncate with outer angle slightly projected; somewhat abundantly, coarsely punctate on anterior quarter, punctures gradually finer and sparser toward apex on remaining surface; with abundant yellowish-white pubescence partially obscuring integument.

Legs. – Covered with yellowish-white pubescence not obscuring integument; meso- and metatibiae with short, erect, thick black setae interspersed. Metatarsomere I longer than II–III together.

Abdomen. – Ventrites with sparse pale-yellow pubescence. Ventrite 5 about as long as 3–4 together; sides strongly convergent on anterior 2/3, parallel-sided on posterior third; apex widely emarginate; with long dark-brown setae directed backward on apex. Last tergite rounded apically and slightly surpassing apex of ventrite 5.

Dimensions (mm) (Holotype)

- Total length, 4.90;
- Prothoracic length, 0.85;
- Anterior prothoracic width, 1.00;
- Posterior prothoracic width, 1.15;
- Maximum prothoracic width, 1.40;
- Humeral width, 1.55;
- Elytral length, 3.30.

Nyssodrysis esperanzae sp. nov. can be included in the Key from Bezark & Santos Silva (2023) (modified) as follows:

1. Elytra marbled with small pale-yellow maculae, not vittate. Brazil (Bahia, Minas Gerais, Espírito Santo, Rio de Janeiro, São Paulo, Paraná, Santa Catarina, Rio Grande do Sul), Paraguay *N. irrorata* (Melzer, 1927) 2
- Elytra not marbled, with or without longitudinal pubescent bands 2
- 2(1). Elytra lacking longitudinal pubescent bands; with subtriangular yellow pubescent macula on sides of anterior third. Paraguay *N. humeralis* Bezark and Santos-Silva, 2023 3
- Elytra with or without longitudinal pubescent bands; without subtriangular yellow pubescent macula on sides of anterior third 3
- 3(2). Pronotum with longitudinal orangish pubescent band on each side, without pubescent bands centrally. Brazil (Mato Grosso) *N. esperanzae* sp. nov. 4
- Pronotum more than two longitudinal pale-yellow pubescent bands 4
- 4(3). Elytra with abundant, longitudinal pale-yellow pubescent bands, without large, subelliptical brownish pubescent macula on sides of anterior half. Brazil (Rio de Janeiro, São Paulo, Paraná, Santa Catarina, Rio Grande do Sul) *N. vittata* (Melzer, 1934) 4
- Elytra with a few pale-yellow pubescent bands and with subelliptical brown pubescent macula on sides of anterior half. Peru, French Guiana, Bolivia (Pando) *N. lineata* Gilmour, 1962 4

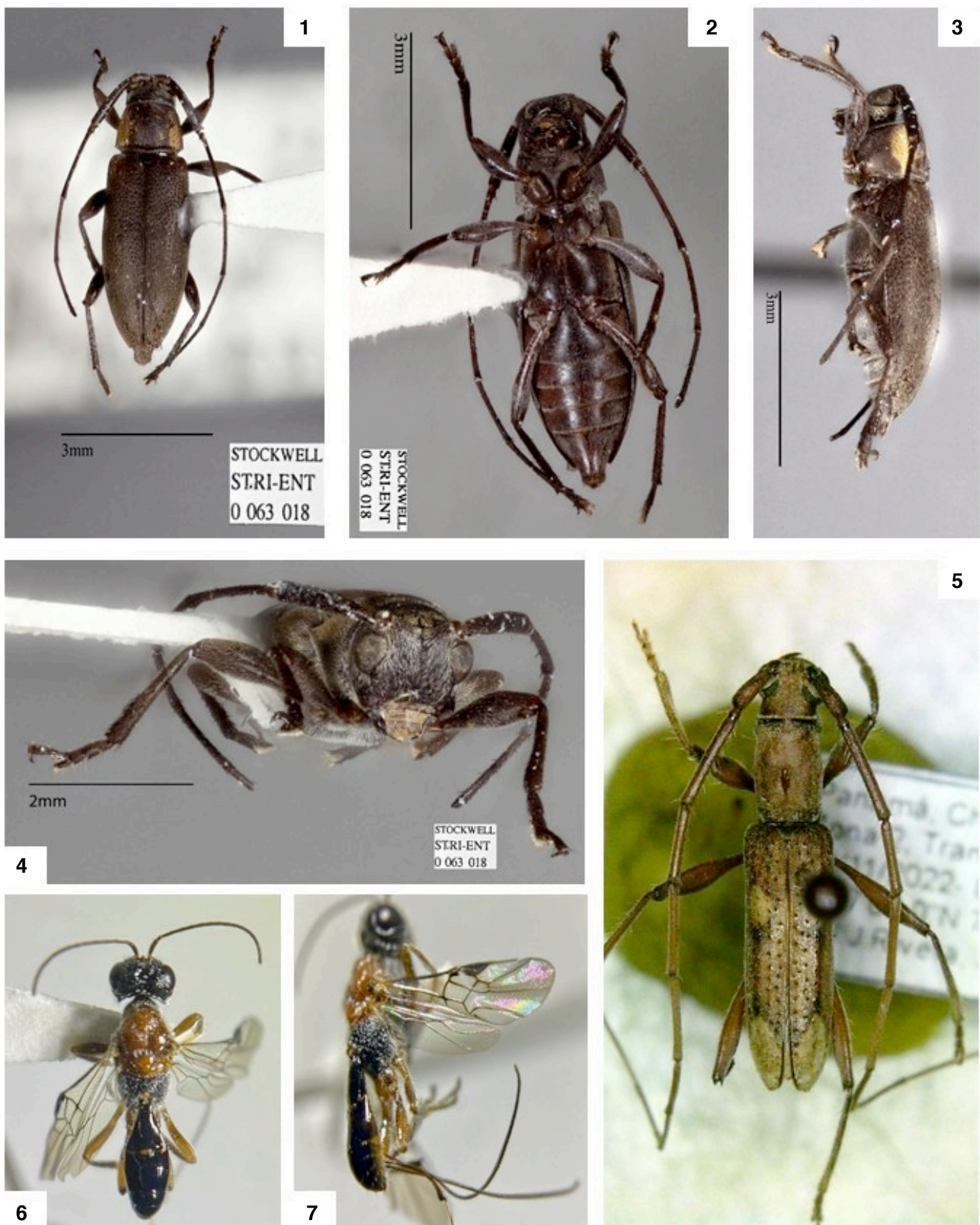


Fig. 1-7.

1-4. *Nyssodryssilla esperanzae* sp. nov., ♀ holotype. 1. Dorsal habitus. 2. Ventral habitus showing prosternal and mesoventral process. 3. Lateral habitus. 4. Head, frontal view. 5. *Heterachthes sablensis* Blatchey, 1920, dorsal habitus. 6-7. *Cenocoelius* sp. 6. Dorsal habitus. 7. Lateral habitus.

Etymology. – Named in honor of the grandmother of the second author, Ruby Esperanza Centeno Muñoz.

Remarks. – *Nyssodryssilla esperanzae* sp. nov. is similar to *N. humeralis* (Bezark & Santos Silva, 2023). However, the main differences between them are the longitudinal orangish pubescent bands on sides of the pronotum (absent in *N. humeralis*), the absence of subtriangular pubescent maculae in *N. esperanzae* (present in *N. humeralis*), and abundance and distribution of integumental pubescence.

New record

Cerambycinae Latreille, 1802

Tropidini Martins & Galileo, 2007

Compsina Martins & Galileo, 2007

Heterachthes Newman, 1840

Heterachthes sablensis Blatchley, 1920

(Fig. 5)

Previous distribution. – United States of America (Florida), Bahamas (Andros Island), Aruba, Honduras, Guatemala, Belize, Colombia, Ecuador (Galapagos) (Monné *et al.*, 2023).

Examined material

– 2 ♂, PANAMA (new country record), Panama Province, Chame, Comunidad el Libano, 28.xi.2022-9. i.2023, C. Rivera & J. Abrego leg. (MIUP).
– 1 ♀, PANAMA, Panama Province, Chame, Comunidad el Libano, 28.xi.2022-9. i.2023, C. Rivera & J. Abrego leg. (MIUP).

Remarks. – Two male and one female emerged from red mangrove (*Rhizophora mangle* Linnaeus, 1753) fresh baits; three parasitoid wasps of the genus *Cenocoelius* Westwood, 1840 (Braconidae: Cenocoeliinae) emerged from the three specimens of *H. sablensis*. The wasps of this genus have been previously mentioned by Borgmeier (1931) and Kirch (1983) as parasitoids of larvae of *Oncideres dejeani* Thomson 1868 and *Oncideres impluviata* (Germar, 1842). Regarding its host plant, Monné (2023) indicates that *H. sablensis* is associated with *Avicennia germinans* Linnaeus, 1764 and *A. officinalis* Linnaeus, 1753 (Verbenaceae).

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Résumé

Lanuza-Garay A., Rivera M. & Santos Murgas A., 2024. – Description d'une nouvelle espèce du genre *Nyssodryssilla* Gilmour, 1962 (Cerambycidae : Lamiinae : Acanthocinini) du Brésil et nouveau signalement, plante hôte et parasite d'*Heterachthes sablensis* Blatchley, 1920 (Cerambycinae : Tropidini : Compsina) au Panama. *Faunitaxys*, 12(01): 1 – 4.

Nyssodryssilla esperanzae sp. nov. (Lamiinae : Acanthocinini), une nouvelle espèce de longicorne, est décrite au Brésil. De plus, une association de guêpes braconides *Cenocoelius* sp. (Braconidae : Cenocoeliinae) parasitant *Heterachthes sablensis* Blatchley, 1920 et une nouvelle plante hôte sont signalées.

Mots-clés. – Cerambycidae, Lamiinae, Acanthocinini, longicornes, *Nyssodryssilla*, *esperanzae*, *Heterachthes*, *sablensis*, interactions biologiques, description, nouvelle espèce, taxonomie, Région néotropicale, Brésil.

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Publisher Correspondence. – LG

Writing the article. – LG

Description. – LG, RM

Article proofreading. – LG

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Author of the figures. – LG, RM, SM

¹ LG = Lanuza-Garay – RM = Rivera – SM = Santos Murgas

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Illustration de la couverture :

The nerve center of the Smithsonian Tropical Research Institute stands in Panama City, Panama. Named for benefactor Earl S. Tupper, the center has modern laboratories, a tropical sciences library, a herbarium, an insect collection, a conference center, and the institute's administrative headquarters. Their insect collection stores 132,000 insects from Panama and other countries worldwide.

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Marleny Rivera: Fig. 1-4

Alfredo Lanuza-Garay: Fig. 5

Alonso Santos Murgas: Fig. 6-7

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