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NEW SPECIES OF *NYSSODRYSTERNUM* GILMOUR (COLEOPTERA, CERAMBYCIDAE, LAMIINAE) FROM CENTRAL AND SOUTH AMERICA

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ABSTRACT

New species of Nyssodrysternum Gilmour (Coleoptera, Cerambycidae, Lamiinae) from Central and South America. Fifteen new species are described: Nyssodrysternum analogum sp. nov., N. nitidum sp. nov., N. hovorei sp. nov. and N. flavoguttatum sp. nov. from French Guiana, N. colombianum sp. nov. from Colombia, N. gilvolineatum sp. nov. from Venezuela, French Guiana and Brazil (Amapá, Amazonas, Maranhão), N. multilineatum sp. nov. and N. proximum sp. nov. from French Guiana and Bolivia, N. tucurui sp. nov. from French Guiana and Brazil (Pará, Mato Grosso), N. vanini sp. nov. from Brazil (Pará, Rondônia) and N. capixaba sp. nov. from Brazil (Espírito Santo), N. cotopaxi sp. nov. from Ecuador, N. insulorum sp. nov. and N. lanceolatum sp. nov. from Panama and N. bolivianum sp. nov. from Bolivia.

KEY-WORDS: Acanthocinini; Descriptions; Lamiinae; Taxonomy.

INTRODUCTION

The genus *Nyssodrysternum* was described by Gilmour (1960:59) for *N. fasciatum* from Brazil (Bahia, Rio de Janeiro). The same author (1963:3) proposed *Nyssodrystes* as a new name for *Nyssodrys* Bates, 1864. Monné (1975:248) described *Nyssodrysternum rubiginosum* and *N. spilotum* from Brazil (Paraná), and the same author (1985:536) established the synonymy between *Nyssodrysternum* Gilmour, 1960 and *Nyssodrystes* Gilmour, 1963 and described nine species, mainly from the Amazon basin. Monné (1992:773) described four species from southern and southeastern Brazil, Monné & Machado (2009:67) established

the synonymy between *Nyssodrysternum* and *Pseudoleiopus* Breuning, 1970 and between *Nyssodrysternum lemniscatum* Monné, 1985 and *Pseudoleiopus borneanus* Breuning, 1970, finally Monné (2009:324) described *N. cingillum* from Bolivia. *Nyssodrysternum* had so far included forty five species, here we add fifteen new species.

MATERIAL

Abbreviations cited in the text: **ACMT**, American Coleoptera Museum, San Antonio, Texas, United States. **IRD**, Institut de Recherche pour le

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Développement, Marseille, France. **MNHN**, Muséum National d'Histoire Naturelle, Paris, France. **MNKM**, Museo Noel Kempff Mercado, Santa Cruz, Bolivia. **MNRJ**, Museu Nacional, Universidade Federal do Rio de Janeiro, Rio de Janeiro, Rio de Janeiro, Brazil. **MZSP**, Museu de Zoologia, Universidade de São Paulo, São Paulo, São Paulo, Brazil.

Descriptions and Comments

Nyssodrysternum gilvolineatum sp. nov. (Fig. 1)

Etymology: Latin, *gilvus*, pale-yellow plus *linea*, line.

Male: Integument dark brown. Pubescence predominantly dark brown. Pubescence yellowish as follows: head, two longitudinal stripes each side of the middle, in the elytra a comma-like spot each side of the scutellum and in the basal half four longitudinal stripes, partially grayish and other three similar stripes in the apical half. Three longitudinal grayish stripes in the pronotum, one in the middle and other each side of the middle between the yellow stripes. Underside of the body and legs (except tarsi dark brown), covered with grayish pubescence.

Antennae very long, three times the length of the body, extending beyond apices of the elytra by 6 antennomeres, antennomere XI one third longer than X. Lateral tubercle of the prothorax minute; a single line of punctures near the posterior border of the pronotum. Elytral apices obliquely emarginate, external angle projected in a minute spine. Elytral surface with dense punctures restricted to a line parallel to the suture in the basal half and with scattered punctures in the sides.

Metatarsomere I more than twice II+III. Fifth urotergite triangularly emarginate in the apex; fifth urosternite semicircularly emarginate and densely pilose in the distal extremity.

Female: Antennae attaining the apices of the elytra in the middle of antennomere VI; ovipositor projected 2.0 mm beyond the elytral apices; fifth urotergite subrounded in the apex, fifth urosternite shallowly semicircularly emarginate in the distal extremity.

Measurements (mm), male/female: Total length, 7,7/7,3; prothorax length, 1,6/1,4; prothorax width, 2,2/2,2; elytral length, 5,5/5,1; humeral width, 2,5/2,5.

Type material: Holotype male, FRENCH GUIANA, Petit Saut, 11.XII.1989, Gérard L. Tavakilian col. (MNHN) [obtenu par élevage sur *Protium aracouchini* (Aublet) Marchand (Burseraceae).] Paratypes, same locality and collector, female, 12.XI.1989 (MNHN). Colline de Montabo, male, 26.IV.1986, C. Marschal col. (ex collection IRD, MNHN). Chemin Vidal, 2 males, 01.V.1989, G. Tavakilian col. (MNHN). Piste de Kaw, pk 3, male, 24.VII.1981, G. Tavakilian col. (MNHN), Piste de Kaw, pk 47, male, 29.VIII.1986, J.-M. Vassal col. (MNHN), Piste des Compagnons Réunis [= Piste des eaux Claires], pk 12, male, 08.XII.1982, T. Porion col. (MNHN). Montagne des Singes, pk 7, male, 04.V.1984, G.L. Tavakilian col. (MNHN). Saül (layon Limonade), pk 1,5, female, 06.VIII.1981, G. Tavakilian col. (MNHN). Montagnes Tortue – Approuague, male, 26.VIII.1981, G. Tavakilian col. (MNHN). VENEZUELA, *Bolívar*: 20 km S Tumeremo, 2 males, 12.VII.1987, S. & J. Peck col. (CMNC). BRAZIL, *Amapá*: Serra do Navio (Assentamento), male, X.1996, P.R. Magno col. (MNRJ). *Amazonas*: Tabatinga, female, X.1977, B. Silva col. (MNRJ). *Maranhão*: Imperatriz (Horto Florestal Arara Azul), female, X.2001, L.F. Reys col. (MNRJ).

Comments. The Amazonian species of *Nyssodrysternum* with yellow longitudinal lines of pubescence in the elytra are *N. flavolineatum* Monné, 1985, *N. promeces* (Bates, 1864) *N. taeniatus* Monné, 1985 and *N. gilvolineatum* sp. nov. The three first species differs from *N. gilvolineatum* sp. nov. by the elytra with entire longitudinal yellow lines, from base to apex, in the new species the longitudinal lines are interrupted medially by patches of brown pubescence.

Nyssodrysternum analogum sp. nov. (Fig. 2)

Etymology: Greek, *analogos* similar, like. By the similarity with *N. gilvolineatum*.

Male: Integument predominantly dark brown, femora pale yellow. Pubescence predominantly brownish. Pubescence yellow as follows: a patch surrounding the superior lobes of the eyes, genae, two longitudinal stripes each side of the middle of the pronotum; in each elytron four longitudinal stripes in the basal half the nearest to the suture attaining the base, and three longitudinal stripes in the distal half, the external one reaching the apex. Three longitudinal grayish stripes in the pronotum one in the middle and the others

between the yellow stripes. Ventral part of the body and femora covered with grayish pubescence, tibiae and tarsi with pubescence dark brown.

Antennae very long, at least three times the length of the body, reaching the apices of the elytra in the distal extremity of antennomere V; antennomere XI one third longer than X. Lateral tubercles of the prothorax minute, slightly projected. Pronotum with a single line of punctures near the posterior margin. Elytra with the apices obliquely truncate, the external angle projected in obtuse tooth. Punctures disposed in four longitudinal lines in the basal two thirds of the elytral surface. Metatarsomere I slightly longer than II+III. Fifth urotergite semicircularly emarginate; fifth urosternite rounded and densely pilose in the distal extremity.

Female: Antennae attaining the apices of the elytra in the distal extremity of antennomere V; ovipositor projected 2.0 mm beyond the elytral apices; fifth urotergite acute in the apex; fifth urosternite transversely truncate.

Measurements (mm), male/female: Total length, 6,2/7,0; prothorax length, 1,2/1,3; prothorax width, 1,7/2,0; elytral length, 4,4/4,9; humeral width, 2,1/2,4.

Type material: Holotype male, FRENCH GUIANA, Piste de Kaw, pk 9, 18.III.1998, F. Luquet col. [piégeage lumineux, number 969 ex collection IRD] (MNHN). Paratypes, same locality, male, 02.VIII.1986, F & J.-M. Serais col (MNRJ), female, 29.VIII.1986, J.-M. Vassal col (MNHN), male, 05.IX.1986, J.-M. Vassal col. (MNHN), male, 05.IX.1986, G. Tavakilian col. (MNHN), female, 26.IX.1986, J.-M. Vassal col. (MNHN), Petit Saut, male, 30.III.1989, P. Souka col. (MNHN).

Host plant: *Protium aracouchini* (Aublet) Marchand (Burseraceae). Daniel Sabatier det. 2368.

Comments: Very similar to *N. gilvolineatum* sp. nov., differs mainly by details of the yellow pubescence. In *N. analogum* sp. nov. the basal internal stripe of the elytra is entire and not comma-like each side of the scutellum as in *N. gilvolinbeatum* sp. nov., also the longitudinal stripes in the distal half of the elytra are disposed in other arrangement. Concerning the color of the integument, in *N. gilvolineatum* sp. nov. the femora are of similar color of the tibiae, in *N. analogum* sp. nov. the femora are pale-yellow and the tibiae dark brown.

Nyssodrysternum nitidum sp. nov.

(Fig. 3)

Etymology: Latin, *nitidum* means neat, elegant.

Female: Integument dark brown. Pubescence predominantly pale grayish; pubescence dark brown: distal $\frac{1}{4}$ of the antennomeres III-VI; pronotum with a longitudinal narrow line each side of the middle and two interrupted stripes on the sides. Each elytron with three spots in the basal third, one in the humeri, other "U" form in the middle and another in the lateral margin, in the distal half several longitudinal stripes, three in the anterior part and others near the apex. Ventral surface of the femora, extreme base and distal third of the tibiae and tarsi covered with dark brown pubescence. Ventral surface of the body covered with grayish pubescence.

Antennae at least three times the length of the body, reaching the apex of the elytra in the distal extremity of antennomere VI; antennomere XI two times the length of th X. Prothorax with a prominent lateral acute tubercle in the beginning of the posterior third. Pronotum with a single transverse line of punctures near the posterior margin. Elytral apices obliquely truncate, external angle with an obtuse spine. Surface with three longitudinal lines of minute punctures in the basal half.

Metatarsome I slightly longer than II+III. Ovipositor projected 2,0 mm beyond the elytral apices, urotergite V acute; urosternite V transversely truncate at apex.

Measurements (mm), female: Total length, 8,6; prothorax length, 1,6; prothorax width, 2,5; elytral length, 6,4; humeral width, 3,0.

Type material: Holotype female, FRENCH GUIANA, Piste Coralie, pk 10, 02.VIII.1997, Marc Thouvenot col. (piégeage lumineux, ex collection IRD number 504, MNHN).

Comments: The distinctive pattern of coloration and arrangement of patches allow us to identify the species.

Nyssodrysternum multilineatum sp. nov.

(Fig. 4)

Etymology: Latin, *multus* = many + *lineatus* = lines, by the longitudinal lines in pronotum and elytra.

Female: Integument black. Pubescence predominantly black, very sparse. Pubescence pale-grayish as follows: head with a longitudinal line in the occiput; pronotum with seven entire longitudinal lines one in the middle and three each side, the broader covering the lateral tubercles. A spot in the middle of the scutellum and in each elytron fourth interrupted longitudinal narrow lines from base to apex, some of them enlarged in the middle and in the apical third. Ventral face of the body and legs covered with pale-greyish pubescence.

Antennae very long, three times the length of the body, attaining the apices of the elytra in the distal extremity of antennomere V; antennomere XI longer than X. Lateral tubercles of the prothorax prominent and obtuse. Pronotum with a single transversal line of punctures near the posterior margin. Elytral apices subtruncate; punctures dense and minute in the basal half mainly near the sutural border. Tarsomere I as long as II+III. Urotergite and urosternite V truncate in the apex.

Male: Antennae reaching the apices of the elytra in the middle of antennomere V. Fifth urotergite triangularly emarginate in the middle of the distal extremity; fifth urosternite semicircularly emarginate at apex.

Measurements (mm), male/female: Total length, 8,9/5,6-6,8; prothorax length, 1,6/1,1-1,4; prothorax width, 2,1/1,5-1,9; elytral length, 6,5/4,0-4,9; humeral width, 2,6/1,8-2,3.

Type material: Holotype female, French Guiana, Piste de Kaw, pk 37,5, 25.VIII.1993, Jean-Aimé Cerda [battage, ex collection IRD number 376], (MNHN). Paratype female, Route Nationale 2, pk 30, 08.VIII.1982, G. Tavakilian col. (MNRJ). BOLIVIA, *Santa Cruz*: Florida Prov. 4 km N Bermejo, Refúgio Los Volcanes (1045 m), 2 males. 18-22.I.2007, Lingafelter, Wappes & Prena col (ACMT, MNRJ).

Comments: The black surface ornamented with longitudinal clear-cut lines of pale-grayish pubescence allow us to identify *N. multilineatum* sp. nov.

***Nyssodrysternum tucurui* sp. nov.**
(Fig. 5)

Etymology: Tucurui, a locality in the state of Pará, Brazil, were a large series was collected.

Male: Integument dark brown. Pubescence predominantly pale brown. Pubescence dark brown, in the

pronotum a broad longitudinal belt each side of the middle and a narrow lateral stripe, surrounded by pale brown pubescence. Elytra densely covered with pale brown pubescence, surrounding three irregular larger spots dark brown, one in the base, other in the middle and a third in the apical half, all the surface with many minute spots of dark pubescence. Ventral face of the body and legs covered with grayish-brown pubescence.

Antennae two times the length of the body, attaining the apices of the elytra in the distal extremity of antennomere V; antennomere XI one and a half the length of the X. Prothorax with an acute lateral tubercle in the beginning of the posterior fourth; pronotum with a single line of punctures near the posterior border. Elytral apices obliquely emarginate, external angle projected in an acute spine, internal angle not projected. Metatarsomere I slightly longer than II+III. Urotergite V transversely truncate; urosternite V deeply semicircularly emarginate, the apical angles projected in acute spines and the central part with dense tuft of hairs.

Female: Antennae reaching the apices of the elytra in the middle of antennomere VI; ovipositor projecting 2.0 mm beyond the elytral apices; urotergite V acute; urosternite V transversely truncate in the apex.

Measurements (mm), male/female: Total length, 5,9-8,1/5,7-10,0; prothorax length, 1,2-1,6/1,1-1,9; prothorax width, 1,1-2,1/1,4-2,3; elytral length, 4,0-5,7/3,9-7,0; humeral width, 1,9-2,5/1,8-2,8.

Type material: Holotype male, BRAZIL, *Pará*: Tucurui, I.1980, B. Silva col. (MNRJ). Paratypes same data, 22 males, 11 females (MNRJ). BRAZIL, *Pará*: Jacareacanga, female, X.1959, M. Alvarenga col. (MNRJ). *Mato Grosso*: Sinop, female, IX.1974, Alvarenga & Roppa col. (MNRJ), same locality and collectors, female, X.1975 (MNRJ), 2 males, X.1976 (MNRJ). FRENCH GUIANA, Montagnes Tortue, Approuague, pk 0, male, 26.VIII.1981, G. Tavakilian col. [ex collection IRD number 1393] (MNHN). Crique Longi, female, 28.I.1994, G. Tavakilian col. [obtenu par élevage sur tronc nourricier, *Baubinia guianensis* Aublet (Caesalpiniaceae), Scott Mori 23678 and Scott Mori 23641] (MNHN); same data, male, 30.I.1994 (MNHN), female, 13.II.1994 (MNHN), male, 17.II.1994 (MNHN), 2 males, 13.V.1994. (MNHN).

Comments: The three patches of dark brown pubescence surrounded by pale brown pubescence allow us to identify *N. tucurui* sp. nov.

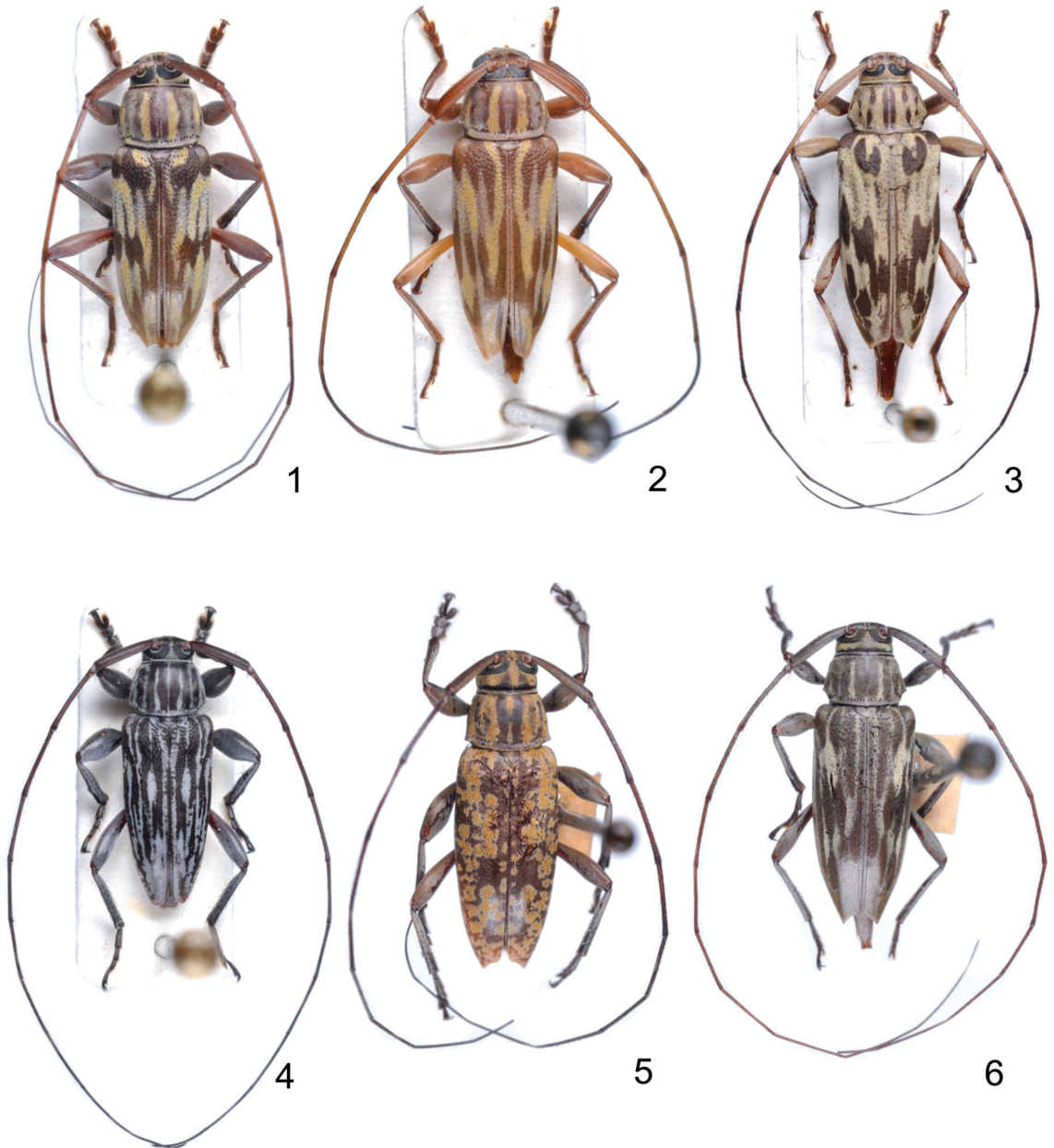
Nyssodrysternum vanini sp. nov.

(Fig. 6)

Etymology: The epithet is an acknowledgment to the colleague Dr. Sergio A. Vanin, (MZSP), who collect one of the specimens.

Male: Integument dark brown. Pubescence predominantly dark brown. Pubescence gray-yellowish: head

with a narrow line surrounding the eyes; pronotum with seven longitudinal stripes, the median one very narrow, the external broader. Elytron with a neat patch in the basal half, and four longitudinal lines, three of them visible from above and the external one in the epipleuron; distal half with five or six longitudinal stripes. Ventral face of the body and femora covered with grayish pubescence. Tibiae and tarsi dark brown.



FIGURES 1-6: 1. *Nyssodrysternum gilvolineatum* sp. nov., holotype male, length 7,7 mm; 2. *N. analogum* sp. nov., paratype female, length 7,0 mm; 3. *N. nitidum* sp. nov., holotype female, length 8,6 mm; 4. *N. multilineatum* sp. nov., holotype female, length 6,8 mm; 5. *N. tucuru* sp. nov., paratype male, length 8,0; 6. *N. vanini* sp. nov., paratype female, length 7,4 mm.

Antennae two times the length of the body; attaining the apices of the elytra in the apex of antennomere V. Prothorax with a subconical lateral tubercle in the beginning of the posterior third. Pronotum with a single line of punctures parallel to the posterior margin. Elytra obliquely truncate, the external angle projected in acute spine. Punctures restricted to a few longitudinal lines in the basal half near the suture. Metatarsomere I slightly longer than II+III. Fifth urotergite subtruncate in the apex; fifth urosternite semicircularly emarginate, angles projected in acute spines.

Female: Antennae reaching the apices of the elytra in the base of antennomere VI. Ovipositor projected 1.0 mm beyond the elytral apices. Fifth urotergite acute in the apex; fifth urosternite subtruncate and densely pilose in the distal extremity.

Measurements (mm), male/female: Total length, 7,2/5,9-7,4; prothorax length, 1,4/1,0-1,5; prothorax width, 2,0/1,7-2,0; elytral length, 4,8/4,4-5,2; humeral width, 2,3/2,0-2,4.

Type material: Holotype male, BRAZIL, *Rondônia*: Ouro Preto do Oeste, X.1986, O. Roppa, P. Magno & J. Becker col. (MNRJ). Paratypes: same data of the holotype, female (MNRJ), female, VIII.1980, B. Silva col., female, XI.1983, O. Roppa, J. Becker & B. Silva col. (MNRJ). Guajará Mirim (36 km da Foz com o Rio Guaporé), female, 16.IV.1976, S.A. Vanin col. (MZSP). *Pará*: Jacareacanga, female, IV.1969, F.R. Barbosa col. (MNRJ).

Comments: *N. vanini* sp. nov. is similar to *N. rodens* (Bates, 1864), by the pattern of the elytral patches, but differs by the seven narrow longitudinal grayish lines in the pronotum and by the elytra acutely spinose in the apices. In *N. rodens* the lines of the pronotum are broadest and most part of them yellow, and the apices of the elytra are less produced in the external angle.

***Nyssodrysternum hovorei* sp. nov.**
(Fig. 7)

Etymology: The species is dedicated to the memory of Franklin T. Hovore, a dearest friend.

Male: Integument dark brown. Pubescence mainly dark brown. Pubescence clear-grayish: head, sides of the prothorax, seven longitudinal lines in the pronotum, the middle one narrow; scutellum; basal half of

the elytra with several longitudinal stripes, the nearest of the middle disposed in a transversal zigzag, distal half with a similar stripe, and a few longitudinal lines near the apices. Ventral face of the body and legs covered with clear-brown pubescence.

Antennae at least two times the length of the body; antennomere XI with same length of the X; attaining the apices of the elytra in the apex of antennomere V. Sides of the prothorax with an acute diminute tubercle in the beginning of the posterior third. Pronotum with a single row of punctures parallel to the posterior margin. Elytral apices obliquely truncate; surface densely punctate in the anterior half, mainly near the suture. Metatarsomere I slightly longer than II+III. Fifth urotergite and urosternite transversely truncate.

Female: Antennae reaching the elytral apices approximately in the distal extremity of antennomere VI, ovipositor projecting 1.5 mm beyond the elytral apices. Urotergite acute in the apex.; urosternite transversely truncate.

Measurements (mm), male/female: Total length, 6,6/7,6-8,5; prothorax length, 1,4/1,5-1,8; prothorax width, 2,0/2,2-2,6; elytral length, 4,7/5,6-6,1; humeral width, 2,3/2,6-3,0.

Type material: Holotype male, FRENCH GUIANA, Piste de Kaw, pk 45, 12.II.1986, Dominique Peugnet col. (MNHN). Paratypes, same locality, female, 20.VII.1985, G. Tavakilian col. (MNHN), male, 30.VIII.1986, F. & J-P. Serais col. (MNRJ). Route forestière de Belizon, pk 1, female, 17.II.1994, F.T. Hovore col. (MNHN).

Comments: *N. hovorei* sp. nov. is similar to *N. cingulum* Monné, 2009 by the presence of seven longitudinal grayish lines in the pronotum, but differs by the pattern of the elytral patches.

***Nyssodrysternum colombianum* sp. nov.**
(Fig. 8)

Etymology: The epithet is allusive to the country where the holotype was collected.

Male: Integument black. Pubescence mainly dark-greyish; pubescence yellowish as follows. occiput and posterior border of the upper lobes of the eyes; two longitudinal recurved lines each side of the middle of the pronotum, the external one shorter; in each elytron

a curved line in the base and interrupted lines in the basal third, surrounding a round black mark, two transversal clearness lines in the posterior half, limiting anterior and posteriorly another black spot and short longitudinal lines near the suture in the apical fifth. Interrupted longitudinal lines of pubescence greyish-blue behind the two black spots. Ventral face of the body and legs covered with clear-brown pubescence.

Antennae reaching the apices of the elytra in the distal extremity of antennomere V (lacking the others). Prothorax with developed lateral tubercles in the beginning of the posterior third. Pronotum with a row of punctures near the anterior and posterior margins. Apices of the elytra semicircularly emarginate, external angle projected in acute spine. Surface of the elytra densely punctate in the basal half, the punctures sparse in the distal half. Fifth urotergite and urosternite truncate in the apex. Metatarsome I as long as II+III.

Measurements (mm), male: Total length, 8,1; prothorax length, 1,5; prothorax width, 2,3; elytral length, 5,8; humeral width, 2,7.

Type material: Holotype male, COLOMBIA, *Cundinamarca:* Guayabetal, 20.VI.1965, J.A. Ramos col. (MNRJ).

Comments: The elytral pattern with two clear-cut black spots limited anterior and posteriorly by lines of yellow pubescence is unique among species of *Nyssodrysternum*.

Nyssodrysternum proximum sp. nov.

(Fig. 9)

Etymology: Latin, *proximus* mean nearest, by the similar pattern of coloration with *N. serpentinum* (Erichson, 1847).

Male: Integument dark brown. Pubescence predominantly clear brown. Pubescence dark brown as follows: a lateral patch each side of the posterior margin of the pronotum; sides of the scutellum; in the elytra, a large oblique stripe from the umeri to the anterior border of a median white patch, a triangular patch in the posterior margin of the same white patch and a minute mark in the apical fourth of the elytra. The white pubescence covers the center of the scutellum, and in the elytra a large median lateral and punctured patch and a minute inverted "u" dot in the anterior margin of the apical brown patch. Ventral face of the body and legs covered with dense clear-brown pubescence.

Antennae reaching the apices of the elytra in the distal extremity of antennomere V. Prothorax with a minute lateral tubercle in the beginning of the posterior third. Pronotum with a line of punctures parallel to the anterior and posterior margins. Apices of the elytra obliquely truncate, each angle with a minute spine. Elytral surface with dense punctures in the basal half, the distal half without punctures. Fifth urotergite and urosternite semicircularly emarginate in the distal extremity. Metatarsome I as long as II+III.

Female: Antennae reaching the apices of the elytra in the apex of antennomere VI; fifth urotergite subrounded in the distal extremity, fifth urosternite transversely truncate at apex.

Measurements (mm), male/female: Total length, 6,5/7,7-8,8; prothorax length, 1,3/1,5-1,9; prothorax width, 1,8/2,1-2,5; elytral length, 4,5/5,5-6,5; humeral width, 2,2/2,6-3,1.

Type material: Holotype male, FRENCH GUIANA, Piste de Kaw, pk 40, 18.IX.1984, G.L. Tavakilian col. (MNHN). Paratypes: same locality and collector of the holotype, female, 30.IX.1986 (MNHN, ex collection IRD), female, 24.XI.1986 (MNHN, ex collection IRD), 2 females, 21.IV.1998 (MNHN, ex collection IRD). Piste de Kaw, pk 33,5, male, 13.II.1983, G. Tavakilian col. (MNHN, ex collection IRD), male, 11.VI.1983, G.L. Tavakilian col. (MNHN, ex collection IRD), male, 16.II.1985, G.L. Tavakilian col. (MNRJ), female, 17.IV.1985, G.L. Tavakilian col. (MNHN, ex collection IRD), female, 06.I.1986, G.L. Tavakilian col. (MNRJ), female, 17.II.1986, C. Scollard col. (MNHN, ex collection IRD), pk 27, female, 17.II.1986, P. Claude-Pierre col. (MNHN), pk 34, male, 13.II.1983 G.L. Tavakilian col. (MNRJ), pk 46, female, 30.VIII.1986, G.L. Tavakilian col. (MNRJ). Camp des Nouragues, male, 07.X.1989, P. Deleporte & P. Grandcolas col. (MNHN, ex collection IRD). Crique Couleuvre, pk 0, male, 30.IX.1989, P. Souka col. (MNHN, ex collection IRD). Piste Coralie, pk 8, male, 27.VI.1987, P. Souka col. (MNHN, ex collection IRD). Piste Changement, pk 7, male, 09.VII.1991, A. Docquin & L. Sénécaux col. (MNHN, ex collection IRD). Montagnes de la Trinité, 2 females, 21.IV.1998, G.L. Tavakilian col. (MNHN, ex collection IRD). BOLIVIA, *Cochabamba:* 1 km E Villa Tunari, female, 08-12.X.1992, E.F. Giesbert col. (ACMT). *Santa Cruz:* Buena Vista, male, 03-05.X.1992, E.F. Giesbert col. (MNRJ), El Cairo, 3.5 km W Buena Vista, female, 21-24.X.2003, Morris, Nearns & Wappes col. (ACMT), Potrerillos del Guenda, 2 females, 05-20.

XI.2004, B. Dozier col. (ACMT, MNRJ), same locality, male, 22.XI-12.XII.2005, B. Dozier col. (ACMT).

Comments: Very similar in pattern of coloration with *N. serpentinum* (Erichson, 1847); differs mainly by the median lateral white patch of the elytra, bordered anterior and posteriorly by dark brown pubescence, also the apex of the fifth urotergite in the female of *N. proximum* sp. nov. is clearly subrounded. In *N. serpentinum* the median lateral white patch of the elytra is not bordered by dark brown pubescence and the distal extremity of the fifth urotergite in the female is acute.

***Nyssodrysternum cotopaxi* sp. nov.**

(Fig. 10)

Etymology: The epithet is a reference to one of the provinces of Ecuador where the holotype was collected.

Male: Integument dark brown to black. Pubescence predominantly yellow, as follows: head with a stripe surrounding the eyes; basal third of the antennomeres III-VI; pronotum with three longitudinal lines each side of the middle, elytra with interrupted longitudinal lines, and subrounded spots in the base. Greyish-yellowish pubescence covering irregular patches in the distal half of the elytra and the basal tarsomeres.

Antennae reaching the apices of the elytra in the apex of the antennomere V. Prothorax with a minute lateral tubercle in the beginning of the posterior third. Pronotum with a single line of punctures near the posterior margin. Apices of the elytra transversely truncate, the external angle slightly projected in acute spine. Apex of the fifth urotergite and urosternite transversely truncate. Metatarsomere I a little longer than II+III.

Female: Antennae attaining the apices of the elytra in the basal third of the antennomere VI. Ovipositor projecting near 1 mm beyond the elytral apices, fifth urosternite subacute, fifth urosternite transversely truncate.

Measurements (mm), male/female: Total length, 5,6/5,6-6,8; prothorax length, 1,0/1,0-1,4; prothorax width, 1,2/1,2-1,7; elytral length, 3,8/4,0-4,8; humeral width, 2,0/1,8-2,2.

Type material: Holotype female. ECUADOR, *Cotopaxi*: San Francisco de las Pampas, (1300 a 1500 m), II. 1993, L. Bertolozzi col. (MNRJ). Paratypes: same data of the holotype, male. ECUADOR, *Loja*: Zamora, male, female, X.1977, L. Peña col. *Esmeraldas*: La

Boca, female, VI.1985, M. Argüello col. *Los Ríos*: Quevedo, (Pichilingue, 100 m), female, VIII.1974, C. Bordón col. *Sucumbios*: Rio Napo – Rio Aguarico, 76-77 W, 2 males, IX.X.1977, L. Peña col. All in MNRJ.

Comments: *N. cotopaxi* sp. nov. has a similar pattern of elytral patches as *N. tucurui* sp. nov., but the pubescence predominantly in the basal half of the elytra is yellow and not pale brown as in *N. tucurui* sp. nov.

***Nyssodrysternum capixaba* sp. nov.**

(Fig. 11)

Etymology: The epithet is allusive to the name that received the inhabitants of the State of Espírito Santo, Brazil.

Male: Integument dark brown to black. Pubescence predominantly clear gray, in the pronotum disposed in seven longitudinal lines, one in the middle and three each side of the middle. Pubescence dark brown as follows: antennae, six longitudinal lines in the pronotum, intercalated with the grayish lines, in the elytra a large rounded patch in juxtaposition with the scutellum, a subquadrate median lateral patch and several rounded spots in the sides in the basal half and in the whole surface of the distal half.

Antennae reaching the apices of the elytra approximately in the apex of the antennomere V. Prothorax with an acute minute lateral tubercle in the beginning of the posterior third. Pronotum with a single row of punctures near the posterior margin. Apices of the elytra slightly obliquely truncate, external angle projected in acute spine.

Fifth urotergite and urosternite semicircularly emarginate at the apex. Metatarsomere I as long as II+III.

Measurements (mm), male: Total length, 6,2; prothorax length, 1,2; prothorax width, 1,8; elytral length, 4,5; humeral width, 2,1.

Type material: Holotype male, BRAZIL, *Espírito Santo*: Linhares, X.1972, B. Silva col. (MNRJ). Paratypes, same data, 3 males. All in MNRJ.

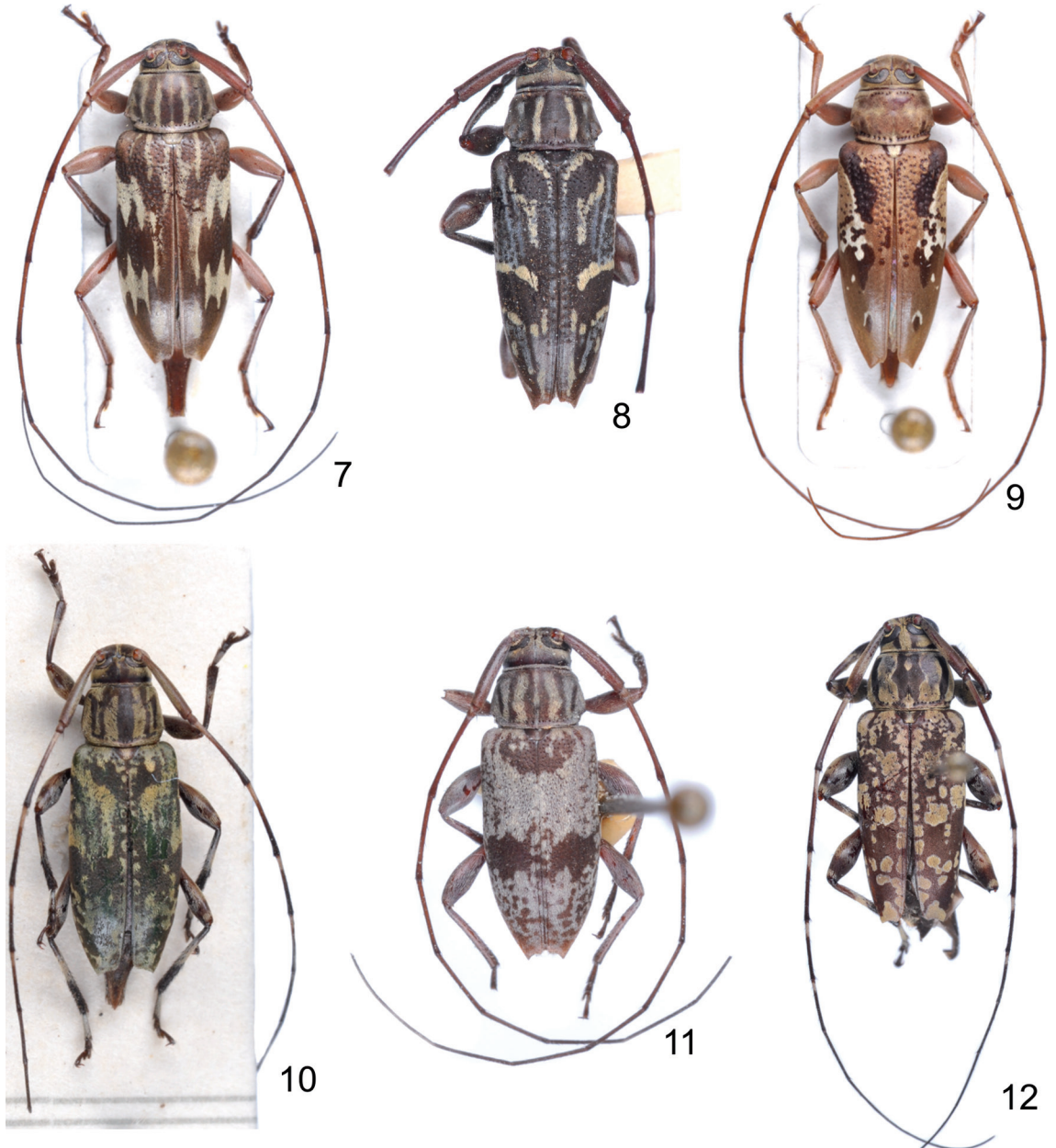
Comments: *N. capixaba* sp. nov. has similar pattern of arrangement of elytral patches of *N. schmithi* (Melzer, 1931), and also the same color of pubescence, differs by the external angle of the elytral apices subrounded in *N. schmithi*. and projected in acute spine in *N. capixaba* sp. nov.

Nyssodrysternum insulorum sp. nov.
(Fig. 12)

Etymology: The epithet is a reference to Barro Colorado Island, where most part of the specimens were collected.

Male: Integument dark brown to black, Pubescence predominantly dark brown. Pubescence grayish-brown: head (except a brown line behind the superior

lobes of the eyes), basal fifth of the antennomeres III-VII. Pronotum with a large patch each side of the middle that encircle a longitudinal dark brown stripe, in the anterior and posterior border of the middle of the pronotum a spot of grayish-brown pubescence. The whole surface of the elytra covered with rounded and subrounded grayish brown spots, more or less disposed in transversal stripes in the base, the middle and the apical fourth.



FIGURES 7-12: 7. *Nyssodrysternum hovorei* sp. nov., paratype female, length 7,6 mm; 8. *N. colombianum* sp. nov., holotype male, length 8,1 mm; 9. *N. proximum* sp. nov., paratype female, length 8,3 mm; 10. *N. cotopaxi* sp. nov., holotype female, length 6,3 mm; 11. *N. capixaba* sp. nov., holotype male, length 6,2 mm; 12. *N. insulorum* sp. nov., paratype female, length 8,5 mm.

Antennae attaining the apices of the elytra in the distal extremity of antennomere V. Prothorax with a subacute lateral tubercle in the beginning of the posterior third. Pronotum with a single row of punctures parallel to the posterior border. Elitral apices semicircularly emarginate, sutural angle projected in obtuse tooth, the marginal angle projected in a short acute spine. Large punctures disposed in a few longitudinal lines in the anterior half of the elytra. Fifth urotergite and urosternite shallowly emarginate in the apex. Procoxae, mesocoxae, metacoxae, center of the mesosternum, metasternum and median region of the urosternites covered with dense appressed golden pubescence. Protarsi with long and dense hairs in the lateral margins. Metatarsomere I a little shorter than II+III.

Female: Ovipositor projected near 1,0 mm beyond the elytral apices; fifth urotergite subtruncate, fifth urosternite acute in the distal extremity, ventral surface without golden pubescence, protarsi without dense lateral hairs.

Measurements (mm), male/female: Total length, 9,0-10,0/8,3-9,0; prothorax length, 1,8-2,1/1,4/1,5; prothorax width, 2,7-2,8/2,3-2,3; elytral length, 6,4-7,0/5,8-6,3; humeral width, 3,1-3,2/2,8-3,0.

Type material: Holotype male, PANAMA, *Canal Zone:* Barro Colorado Island, 28.II.1997, Pickering-Windsor col. (ACMT). Paratypes, same locality and collector of the holotype, male, 16-23.X.1996 (ACMT), female, 27-XII.1996 (ACMT), female, 05.II.1997 (ACMT), female, 12.II.1997 (ACMT), 2 males, 30.IV.1997 (MNRJ), 2 females, 14.V.1997 (MNRJ), female, 21.V.1997 (ACMT), female, 28.V.1997 (ACMT). *Bocas del Toro:* 40 km W Chiriquí Grande, female, 13.V.1999, Wappes & Morris col. (ACMT). *Colón:* 4.5 km El Palenque, male, 25.IV.1992, J. Wappes col. (ACMT).

Comments: *N. insulorum* sp. nov. has a similar pattern of patches as *N. univittis* (Bates, 1885), but the stripes of the pronotum are different, *N. insulorum* has a large patch each side of the middle that encircle a longitudinal dark brown stripe, in *N. univittis* the lateral patch is almost uniformly grayish, with only a minute round spot dark brown.

***Nyssodrysternum bolivianum* sp. nov.**
(Fig. 13)

Etymology: The epithet is a reference to the country where the specimens were collected.

Male: Integument dark brown to black. Pubescence predominantly grayish, in the pronotum disposed in seven longitudinal lines, one in the middle and three each side of the middle. Elytra with interrupted intercalate longitudinal lines of grayish and dark brown pubescence, surrounding a median irregular dark brown patch, near the lateral margin.

Antennae very long, more than twice the length of the body, attaining the apices of the elytra in the distal extremity of antennomere V. Prothorax with the lateral tubercle subconical, situated in the beginning of the posterior third. Pronotum with a row of minute punctures near the anterior and posterior margins. Elytral apices obliquely emarginate, external angle projected in acute spine. Punctuation dense in the basal half, disperse in the apical half.

Fifth urotergite notched in the middle of the distal extremity, fifth urosternite shallowly emarginate in the apex. Metatarsome I as long as II+III.

Female: Antennae attaining the apices of the elytra in the apex of antennomere; ovipositor projecting 0.5 mm beyond the elitral apices, fifth urotergite transversely truncate, fifth urosternite shallowly emarginate.

Measurements (mm), male/female: Total length, 5,7-7,0/6,8; prothorax length, 1,0-1,4/1,3; prothorax width, 1,5-2,0/2,0; elytral length, 3,8-4,8/4,8; humeral width, 1,8-2,3/2,2.

Type material: Holotype male, BOLIVIA, *Santa Cruz:* 4-6 km SSE Buena Vista (Hotel Flora & Fauna), 17-30.IV.2003, R. Clarke col. (MNKM). Paratypes, same locality and collector, male, 01-15.III.2003 (MNRJ), female, 01-16.IV.2003 (MNRJ), male, 01-04.V.2003 (ACMT). 3-7 km SSE Buena Vista (Hotel Flora & Fauna), female, 08.V.2004, A. Cline & J. Wappes col. (ACMT).

Comments: The distribution of the elytral longitudinal lines is similar to that of *N. gilvolineatum*, but the lines are grayish instead of yellowish.

***Nyssodrysternum lanceolatum* sp. nov.**
(Fig. 14)

Etymology: Latin *lancea*, like a spear, allusive to the form of the dark brown sutural stripe in the elytra.

Male: Integument dark brown. Pubescence predominantly grayish brown. Pubescence dark brown as

follows: pronotum with a broad median longitudinal stripe and two narrower each side of the middle, the median one continuous with an elytral sutural stripe spear-form with the acute point directed forward. Sides of the elytra with longitudinal lines formed by more or less agglomerate rounded spots. Ventral surface and legs covered with dense grayish pubescence.

Antennae attaining the apices of the elytra in the apex of the antennomere V. Sides of the prothorax with a subacute tubercle in the beginning of the posterior third. Pronotum with a single row of punctures parallel to the posterior border. Elytral apices obliquely truncate, external angle acute but not projected. Fifth urosternite slightly notched in the middle of the apex; fifth urosternite deeply triangularly emarginate in the distal extremity. Metatarsomere I as long as II+III.

Female: Ovipositor slightly projected beyond the elytral apices. Fifth urotergite acute in the distal extremity; fifth urosternite transversely truncate at apex.

Measurements (mm), male/female: Total length, 7,1/5,7-7,0; prothorax length, 1,4/1,2-1,5; prothorax width, 1,9/1,5-2,0; elytral length, 4,7/3,9-4,6; humeral width, 2,4/1,8-2,4.

Type material: Holotype male, PANAMA, Panama: km 8-13 El Llano-Carti Road, 10-13.V.1996, Wappes, Huether & Morris col. (ACMT). Paratypes: same data, female (ACMT), 2 females, 21-24.V.1996, (ACMT, MNRJ). Km 9 El Llano-Carti Road, female, 18.V.1993, E.G. Riley col. (ACMT).

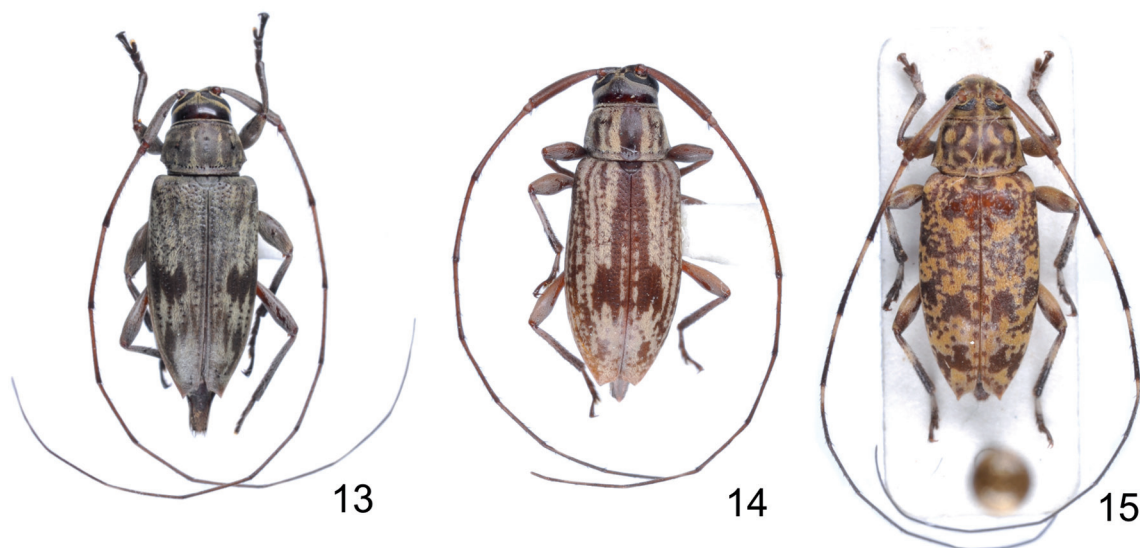
Comments: The pronotum and elytra ornamented with a neat spear-like longitudinal stripe allow us to recognize the species.

***Nyssodrysternum flavoguttatum* sp. nov.**
(Fig. 15)

Etymology: Latin, *flavo* = yellow plus *guttatum* = speckled, spotted, in reference to the dorsal pubescence.

Male: Integument black. Pubescence predominantly dark brown to black. Yellow pubescence as follows: head, pronotum with two longitudinal stripes each side of the middle the inner with irregular borders, a dark brown area with two or four rounded spots, limited by the longitudinal stripes, and scutellum. Elytra densely covered with rounded yellow spots, more or less agglomerate and surrounding irregular dark brown spots. Basal fourth of the antennomeres III-VII, a median ring in the tibiae and the first two tarsomeres covered with grayish white pubescence.

Antennae attaining the apices of the elytra in the distal apex of the antennomere V. Sides of the prothorax with subacute tubercle in the beginning of the posterior fourth. Pronotum with a single row of punctures parallel to the posterior border. Apices of the elytra obliquely truncate, external angle acute, but not projected. Punctures scattered in the basal half. Fifth urotergite and urosternite subrounded in the apex. Metatarsome I one and a half longer than II+III.



FIGURES 13-15: 13. *Nyssodrysternum bolivianum* sp. nov., paratype female, length 6,8 mm; 14. *N. lanceolatum* sp. nov., paratype female, length 7,0 mm; 15. *N. flavoguttatum* sp. nov., paratype male, length 6,0 mm.

Female: Antennae attaining the apices of the elytra in the middle of antennomere VI; fifth urotergite rounded in the apex; fifth urosternite subtruncate in the distal extremity.

Measurements (mm), male/female: Total length, 5,5-6,0/6,7-7,7; prothorax length, 1,0-1,1/1,2-1,5; prothorax width, 1,5-1,6/2,0-2,2; elytral length, 3,8-4,1/4,6-5,5; humeral width, 1,7-1,9/2,3-2,7.

Type material: Holotype male, FRENCH GUIANA, Piste de Kaw, pk 45, 26.XII.1986, O. Baloup col. (piégeage lumineux, ex collection IRD, MNHN). Paratypes: same locality, female, 01.III.1987, J.M. Baloup col. (piégeage lumineux, ex collection IRD, MNRJ). Camp des Nouragues, male, 26.I.1989, D. Loubry col. (ex collection IRD, MNHN). Crique Plomb, male, 11.I.1993, G. Tavakilian col. (obtenuto par élevage sur tronc nourricier, ex collection IRD, MNHN), male, 08.II.1993, G. Tavakilian col. (obtenuto par élevage sur tronc nourricier, ex collection IRD, MNHN), Crique Longi, male, 28.I.1994, G. Tavakilian col. (obtenuto par élevage sur tronc nourricier, ex collection IRD, MNHN), same data, female, 24.II.1994 (MNHN), female, 31.III.1994 (MNHN), male, 19.IV.1994 (MNRJ), male, 02.V.1994 (MNHN), male, 11.V.1994 (MNHN), female, 06.VI.1994 (MNHN), 3 males, 2 females, 11.VII.1994 (MNHN).

Host: *Bauhinia guianensis* Aublet [Caesalpinaceae], Scott Mori 23641

Comments: The almost uniform yellow pubescence of *N. flavoguttatum* sp. nov. is exclusive of the new species, and allow us to identify.

RESUMO

Novas espécies de Nyssodrysternum Gilmour (Coleoptera, Cerambycidae, Lamiinae) de Centro e Sul América. Quinze novas espécies são descritas: Nyssodrysternum analogum sp. nov., N. nitidum sp. nov., N. hovoirei sp. nov., e N. flavoguttatum sp. nov. da Guiana Francesa, N. colombianum sp. nov. da Colômbia,

N. gilvilineatum sp. nov. da Venezuela, Guiana Francesa e Brasil (Amapá, Amazonas, Maranhão), N. multilineatum sp. nov. e N. proximum sp. nov. da Guiana Francesa e Bolívia, N. tucurui sp. nov. da Guiana Francesa e Brasil (Pará, Mato Grosso), N. vanini sp. nov. do Brasil (Pará, Rondônia) e N. capixaba sp. nov. do Brasil (Espírito Santo), N. cotopaxi sp. nov. de Equador, N. insulorum sp. nov. e N. lanceolatum sp. nov. do Panamá, N. bolivianum sp. nov. da Bolívia.

PALAVRAS-CHAVE: Acanthocinini; Descrições; Lamiinae; Taxonomia.

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