

Distributional notes on some Nosodendridae (Coleoptera). X. Descriptions of three new species from Sabah, Malaysia

Замечания по распространению Nosodendridae (Coleoptera). X. Описание трёх новых видов из Сабаха в Малайзии

J. Háva
И. Хава

Department of Forest Protection and Entomology, Faculty of Forestry and Wood Sciences, Czech University of Life Sciences, Kamýcká 1176, CZ-165 21, Prague 6 - Suchbát, Czech Republic.

Отдел защиты леса, факультет лесного хозяйства и лесоведения, Чешский университет наук о жизни, Прага, Чехия.

Key words: Coleoptera, Nosodendridae, *Nosodendron*, taxonomy, descriptions, new species, Malaysia, Sabah.

Ключевые слова: Coleoptera, Nosodendridae, *Nosodendron*, таксономия, описания, новые виды, Малайзия, Сабах.

Abstract. The following three new species from Malaysia, Sabah are described, illustrated and compared with related species: *Nosodendron sabahense* sp.n., *N. debilis* sp.n. and *N. nordnedoson* sp.n. *N. sabahense* sp.n. is habitually similar to *N. hispidum* Champion, 1923, but differs by the metasternum with small punctures and by shape of aedeagus. *N. debilis* sp.n. is very similar to *N. sabahense* sp.n. and differs by the mentum lacking impression and by another shape of aedeagus. *N. nordnedoson* sp.n. is very similar to *N. sabahense* sp.n. but differs by the metasternum with very small punctures on lateral parts and visible abdominal sternite V with long longitudinal striation and by shape of aedeagus.

Резюме. В статье описаны 3 новых вида нозодендрид из Сабаха (Малайзия): *Nosodendron sabahense* sp.n., *N. debilis* sp.n. и *N. nordnedoson* sp.n. *N. sabahense* sp.n. внешне сходен с *N. hispidum* Champion, 1923 и отличается мелкой пунктировкой заднегруди и формой эдеагуса. *N. debilis* sp.n. очень близок к *N. sabahense* sp.n. и отличается подбородком без вдавления и формой эдеагуса. *N. nordnedoson* sp.n. очень близок к *N. sabahense* sp.n. и отличается очень мелко пунктированной заднегрудью с боков и видимым 5 вентритом с длинной продольной штриховкой и формой эдеагуса.

Introduction

The small family Nosodendridae contains 76 recent species and 4 fossil species worldwide [Háva 2005, 2012]. The classification of the family Nosodendridae is considered in accordance to Bouchard et al. [2011]. A World Catalogue of all the known species was recently published by Háva [2005].

All the species described here belong to the nominotypical subgenus according to the characters mentioned by Háva [2003].

Material and Methods

Locality labels of the specimens discussed below are presented in the original transcription. Separate lines are indicated by slashes (\). Remarks of the author are found in square brackets. Specimens of the described species are provided with red printed labels with texts as follows: «HOLOTYPE [or PARATYPE respectively] *name of species* sp.n. Jiří Háva det., year».

The following abbreviations refer to the collections, in which the examined material is deposited: JHAC — Jiří Háva, Private Entomological Laboratory and Collection, Prague-west, Czech Republic; MHNG — Muséum d'Histoire naturelle, Genève (G. Cuccodoro), Switzerland; NHMW — Naturhistorisches Museum, Wien (M. Jäch), Austria.

Descriptions

Nosodendron (Nosodendron) sabahense Háva, sp.n.

Figs 1, 2.

Material. Holotype, ♂, Malaysia: Sabah, Crocker Ra., h-1550–1650 m, 16.V.1987, Burckhardt-Löbl (MHNG). Paratypes: **the same region:** 1♂; 1♀, Mt. Kinabalu, h-1750 m, 27.IV.1987, Burckhardt-Löbl (MHNG, JHAC); 1♀, Crocker Ra., h-1350 m, 60 Kota Kinabalu-Tambunan, 17.V.1987, Burckhardt-Löbl (MHNG); 1♀, Borneo, Kinabalu N.P. Summit Trail, h-1890 m, V.1987, A. Smetana (MHNG); 1♀, Borneo, Kinabalu N.P., HQ at Liwagu, h-1500 m, 21.V.1987, A. Smetana (MHNG); 6♂♂, 2♀♀, Banjaran Crocker Mts., Gunung Alab peak, h-1650–1800 m, 30.IV–27.V.1996, M. Štrba, R. Hergovits (6 NHMW, 2 JHAC); 1♀, Crocker Range, Gunung Emas, h-1500–1700 m, around km 52 of road Kota Kinabalu Tambunan, 6–18.VI.1996, M. Štrba, R. Hergovits (NHMW); 1♀, Crocker Mt., Gunung Emas env., 15–27.IV.1993, J. J. Štrba (NHMW).

Description. Measurements (in mm): TL 4.3–4.5; EW 1.1–1.3. Cuticle black. Head very finely, but clearly punctate, pubescent. Eyes small, partially visible from above. Antennae brownish-yellow, consisting of eleven antenno-

meres, antennal club consisting of three last antennomeres with yellow setae. Mentum punctate, pubescent, with longitudinal impression (Fig. 1). Pronotum more punctate than head; pubescent. Anterior angle without groove. Scutellum triangular, finely punctate. Elytra shortly pubescent; along suture, in anterior part and around apex finely irregularly punctate, remaining surface of elytra with large irregular punctures intermixed with small setigerous punctures. Mesosternum finely and regularly punctate. Metasternum with longitudinal carina, with small punctures. Legs black, tibiae and femur finely punctate, with short brown setae. Longitudinal striation of base of abdominal sternites very short. Male genitalia schematic dorsal view as in Fig. 2.

Female habitually similar to male.

Differential diagnosis. *N. sabahense* sp.n. is habitually similar to *N. hispidum* Champion, 1923, but differs in the following characters: *N. sabahense* sp.n. — the metasternum with small punctures; for the mentum see Fig. 1; the male genitalia as in Fig. 2; *N. hispidum* Champion — the metasternum with very large punctures; (for the mentum and male genitalia see Háva [2000: figs 1, 8]).

Etymology. The species is named after Sabah, where the holotype was collected.

Nosodendron (Nosodendron) debilis

Háva, sp.n.

Figs 3, 4.

Material. Holotype, ♂, Malaysia: Sabah, Batu, Punggul Resort env., vegetation debris and forest floor litter accumulated around large trees near river, 24.VI–1.VII.1996 (NHMW). Paratypes: 13 spm., same data as holotype (10 NHMW, 3 JHAC); same region: 1♀, Borneo, Crocker Mt., h-500–1900 m, Gunong Emas, 6–21.V.1995, I. Jeniš (JHAC); 1♀, Banjaran Crocker Mts., Gunung Alab peak, h-1650–1800 m, 30.IV–27.V.1996, M. Štrba, R. Hergovits (NHMW).

Description. Measurements (in mm): TL 5.0–6.1; EW 1.5–2.1. Cuticle black, shiny. Head finely, but clearly punctate, finely pubescent. Eyes large, visible from above. Antennae brown, consisting of eleven antennomeres, antennal club formed by three last antennomeres bearing yellow setae. Mentum punctate, pubescent, with longitudinal impression (Fig. 3). Pronotum punctate as head; finely pubescent. Anterior angle with groove. Scutellum triangular, finely punctate. Elytra finely pubescent; each elytron with 1 stria with large punctures, near scutellum intermixed with small setigerous punctures. Mesosternum finely and regularly punctate. Metasternum without longitudinal carina, punctures very small on all margins. Legs black, tibiae and femora finely punctate, with short brown pubescence. Longitudinal striation of base of abdominal sternites very short. Male genitalia schematic dorsal view as in Fig. 4.

Female habitually similar to male.

Differential diagnosis. *N. debilis* sp.n. is very similar to *N. sabahense* sp.n. but differs in the following characters: *N. sabahense* sp.n. — the metasternum with small punctures; the mentum without impression (Fig. 1); the male genitalia as in Fig. 2; *N. debilis* sp.n. — the metasternum with small punctures; the mentum with a longitudinal impression (Fig. 3); the male genitalia as in Fig. 4.

Etymology. The species name is derived from Latin word debilis (= stupid).

Nosodendron (Nosodendron) nordnedoson

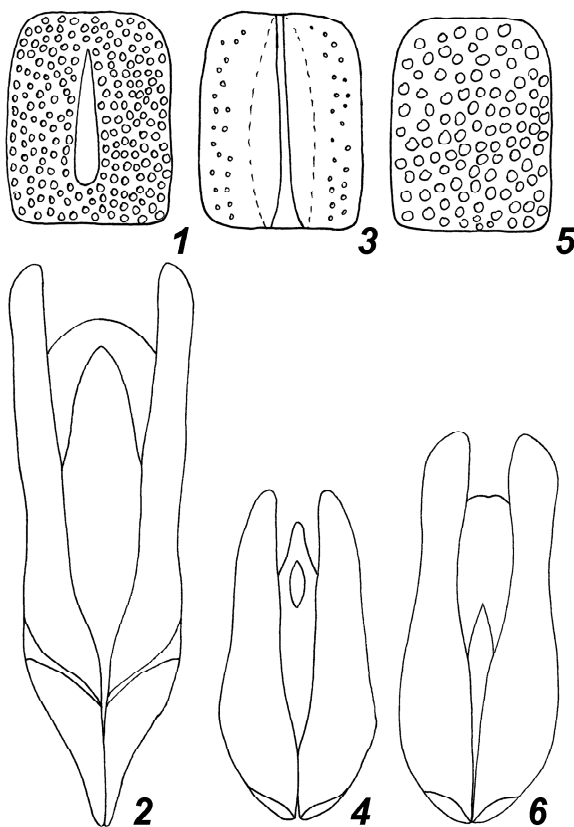
Háva, sp.n.

Figs 5, 6.

Material. Holotype, ♂, Malaysia: Sabah, Banjaran Crocker Mts., Gunung Alab peak, h-1650–1800 m, 30.IV–27.V.1996, M. Štrba, R. Hergovits (NHMW).

Description. Measurements (in mm): TL 4.8; EW 1.4. Cuticle black, shiny. Head very finely, but clearly punctate, finely pubescent. Eyes small, not visible from above. Antennae brown, consisting of eleven antennomeres, antennal club formed by three last antennomeres bearing yellow setae. Mentum punctate, pubescent, without impression (Fig. 5). Pronotum punctate as head; finely pubescent. Anterior angle without groove. Scutellum triangular, finely punctate. Elytra finely pubescent; each elytron with 1 stria, near scutellum with large punctures intermixed with small setigerous punctures. Mesosternum coarsely and regularly punctate. Metasternum with longitudinal carina, punctures very small on the disc and large on lateral margins. Legs black, tibiae and femora finely punctate, with short brown pubescence. Longitudinal striation of base of abdominal sternites I–IV very short. Longitudinal striation on abdominal sternite V very long. Male genitalia schematic dorsal view as in Fig. 6. Female unknown.

Differential diagnosis. *N. nordnedoson* sp.n. is very similar to *N. sabahense* sp. n. but differs in the following characters: *N. sabahense* sp.n. — the metasternum with small punctures; the mentum as in Fig. 1; visible abdominal



Figs 1–6. Details of *Nosodendron* spp.: 1–2 — *N. sabahense* sp.n.; 3–4 — *N. debilis* sp.n.; 5–6 — *N. nordnedoson* sp.n. 1, 3, 5 — mentum; 2, 4, 6 — aedeagus. All figures schematic, lacking pubescence.

Рис. 1–6. Детали строения видов *Nosodendron*: 1–2 — *N. sabahense* sp.n.; 3–4 — *N. debilis* sp.n.; 5–6 — *N. nordnedoson* sp.n. 1, 3, 5 — ментум; 2, 4, 6 — эдеагус. Рисунки выполнены схематично, без опушения.

sternite V with very short longitudinal striation; the male genitalia as in Fig. 2; *N. nordnedoson* sp.n. — the metasternum with very small punctures on lateral parts; the mentum as in Fig. 5; visible abdominal sternite V with long longitudinal striation; the male genitalia as in Fig. 6.

Etymology. The specific name *nordnedoson* is the generic name *Nosodendron* written backwards.

Acknowledgements

I am obliged very much to M. Rakovič (Prague, Czech Republic) for corrections to the English manuscript. This research was supported by the Internal Grant Agency (IGA n.20124364), Faculty of Forestry and Wood Sciences, Czech University of Life Sciences Prague.

References

- Bouchard P., Bousquet Y., Davies A.E., Alonso-Zarazaga M.A., Lawrence J.F., Lyal Ch.H.C., Newton A.F., Reid Ch.A.M., Schmitt M., Slipinski S.A., Smith A.B.T. 2011. Family-group names in Coleoptera (Insecta) // ZooKeys. Vol.88. P.1–972.
- Háva J. 2000. Distributional notes on some Oriental Nosodendridae (Coleoptera), with descriptions of five new species // Acta Musei Moraviae, Scientiae biologicae (Brno). Vol.85. P.57–65.
- Háva J. 2003. Distributional notes on some Nosodendridae (Insecta: Coleoptera) — III. Descriptions of a new subgenus and two new species from Nepal and China // Hartmann M., Baumbach H. (Eds): Biodiversity and Natural Heritage in the Himalaya. Verein der Freunde und Förderer des Naturkundemuseums Erfurt e. V. P.247–249.
- Háva J. 2005. World Catalogue of the Nosodendridae (Coleoptera), with new faunistic records and descriptions of three new species // Entomological Problems. Vol.35. P.75–83.
- Háva J. 2012. Distributional notes on some Nosodendridae (Coleoptera) — IX. Third contribution to the *Nosodendron* species of the Himalaya // Hartmann M., Weipert J. (Eds): Biodiversity and Natural Heritage in the Himalaya IV. Verein der Freunde und Förderer des Naturkundemuseums Erfurt e. V. P.353–355.

Поступила в редакцию 27.03.2013