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A new species of the genus *Phaeopholus* Roelofs, 1873 (Coleoptera, Curculionidae) from North Vietnam

Новый вид рода *Phaeopholus* Roelofs, 1873 (Coleoptera, Curculionidae) из Северного Вьетнама

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Key words: Curculionoidea, Hyperinae, Phloeopholini, new species, Indochina, Yên Bái Province.

Ключевые слова: Curculionoidea, Hyperinae, Phloeopholini, новый вид, Индокитай, Йенбай.

Abstract. A new species, *Phaeopholus vietnamensis* Legalov, **sp.n.**, from Yên Bái Province, Vietnam, is described and illustrated. The new species differs from *Ph. fuscocupreus* Voss, 1958 and *Ph. major* Roelofs, 1879 in having the tubercles on the elytra virtually indistinct, the elytral transverse bands absent, and the pronotum with two broad, dark longitudinal stripes, a narrow strip of pale scales between them, and broad strips of pale scales along their sides. This is the second record of the genus *Phaeopholus* Roelofs, 1873 from Vietnam. *Phaeopholus ponomarenkoi* Legalov, 2012, **syn.n.**, is placed in synonymy with *Ph. major* Roelofs, 1879. The taxonomic rank of Coniatini Legalov, 2007, **stat.n.** and Phaeopholini Legalov, 2011, **stat.n.** are changed. A key to the tribes and subtribes of the subfamily Hyperinae is given.

Резюме. В статье описан новый вид *Phaeopholus vietnamensis* Legalov, **sp.n.** из провинции Йенбай Вьетнама. Новый вид отличается от *Ph. fuscocupreus* Voss, 1958 и *Ph. major* Roelofs, 1879 практически не выраженными бугорками на надкрыльях, отсутствием перевязей, двумя широкими продольными тёмными полосами на переднеспинке, между которыми располагаются узкая полоска их светлых чешуек и по бокам от них широкие полоски из светлых чешуек. Это вторая находка рода *Phaeopholus* Roelofs, 1873 во Вьетнаме. *Phaeopholus ponomarenkoi* Legalov, 2012, **syn.n.** синонимизирован с *Ph. major* Roelofs, 1879. Изменён таксономический ранг Coniatini Legalov, 2007, **stat.n.** и Phaeopholini Legalov, 2011, **stat.n.** Составлен определитель триб и подтриб подсемейства Hyperinae.

Introduction

The genus *Phaeopholus* Roelofs, 1873 is a small genus of the tribe Phaeopholini, subfamily Hyperinae. It is readily distinguished from other Northern Hemisphere Hyperinae by its subglobular body and long, slender rostrum. The genus comprises five species: *Ph. fuscocupreus* Voss, 1958 and *Ph. proximus* Voss, 1958 from China (Fujian); *Ph. ornatus* Roelofs, 1873 from Japan and Taiwan; *Ph. major* Roelofs, 1879 (= *Phaeopholus ponomarenkoi* Legalov, 2012 syn.n.) from East Asia and Vietnam; and a new species from Vietnam [Roelofs, 1873, 1879; Voss, 1958; Kojima, Morimoto, 2004; Kojima, Kaga, 2011; Legalov, 2012a; Tseng, Cheng, 2021; Alonso-Zarazaga et al., 2023]. Representatives of the genus are also known from Malaysia (Sabah) [Sprick, Floren, 2018], Singapore, and New Zealand (https://www.inaturalist.org/taxa/841158-Phaeopholus#map-tab).

This paper describes a new species of the genus *Phaeopholus* discovered in Yên Bái Province, North Vietnam. This is the second record of this genus from Vietnam.

It is also a continuation of the author's previous work on the subfamily Hyperinae [Legalov, 1997, 1999, 2011a–c, 2012a-c, 2013, 2022a, b, 2023a–c, 2024a, b; Legalov, Reshetnikov, 2020, 2022; Legalov, Kozlov, 2023]. This work continues a series of articles on the Oriental Region that have recently been published in the journal [Gorochov, 2024; Háva, Alekseev, 2024; Legalov, 2024c, 2025a–c, 2026a, b; Kazantsev, 2025a–c; Melnitsky, Ivanov, 2025; Grichanov, 2026; Zinchenko, 2026; Zinchenko, Bezborodov, 2026].

Material and methods

The type specimens are deposited in the ISEA = Institute of Systematics and Ecology of Animals, Novosibirsk, Russia; ISNB = Belgian Institute of Natural Science, Brussels, Belgium and ZIN = Zoological Institute RAS, Saint Petersburg, Russia.

The photographs, descriptions and body measurements were made using a Zeiss Stemi 2000-C dissecting stereomicroscope.

The terminology of weevil body structure is based on Lawrence et al. [2010].

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Nomenclatural act introduced in the present work is registered in ZooBank (www.zoobank.org) under urn:lsid:zoobank.org:pub:755A02CF-4173-48B4-9EAA-418BC605AC78

Results

Curculionoidea: **Curculionidae**: Hyperinae: Phaeopholini

Genus ***Phaeopholus*** Roelofs, 1873

Phaeopholus vietnamensis Legalov, **sp.n.**

Figs 1–4, 6.

urn:lsid:zoobank.org:act:5F088283-4672-496E-A9ED-56C90ADCCE50

Material. **Vietnam:** holotype, ♀, Yên Bái Province, Yên Bái, V.2026, local collector; paratype, 1♀, idem.

Description. *Female*. Body dark-brown, covered with brownish scales. Antennae, tibiae, tarsi and bottom brown. Elytral transverse bands absent. Pronotum with two broad, dark longitudinal stripes, narrow strip of pale scales between them, and broad strips of pale scales along their sides. Rostrum long, weakly curved, 1.4 times as long as pronotum, 5.9 times as long as wide at apex, 7.5–7.7 times as long as wide at midlength and 6.3–7.1 times as long as wide at base, finely punctate in apical and middle thirds, densely punctate in basal third, without carina. Forehead quite narrow, 0.5–0.6 times as long as rostrum base width, weakly convex, densely punctate. Eyes large, not protrude beyond contour of head, finely faceted. Temples short. Vertex densely punctate. Antennal strobes lateral, slightly visible dorsally in apical half, directed to eye. Antennae geniculate, inserted laterally in apical third of rostrum. First antennomere long, weakly curved apically, 10.9 times as long as wide at apex, not reaching eyes. Second and third antennomeres long-conical. Second antennomere about 2.9 times as long as wide at apex, about 0.2 times as long as and slightly narrower than first antennomere. Third-sixth antennomers of same width. Third antennomere 3.0 times as long as wide at apex, about 0.7 times as long as and about 0.6 times as narrow as second antennomere. Fourth-eighth antennomers wide-conical. Fourth antennomere 1.6 times as long as wide at apex, about 0.5 times as long as third antennomere. Fifth antennomere 1.5 times as long as wide at apex, slightly shorter than fourth antennomere. Sixth antennomere equal in length and width at apex, about 0.7 times as long as fifth antennomere. Seventh antennomere slightly shorter than width at apex, of same length to and slightly wider than sixth antennomere. Eighth antennomere about 0.8 times as long as wide at apex, about 1.3 times as long as and about 1.3 times as wide as seventh antennomere. Antennal club compact, with fused antennomeres, about 0.6 times as long as second-eighth antennomeres combined. Ninth antennomere about 0.8 times as long as wide at apex, 2.0 times as long as and 2.0 times as wide as eighth antennomere. Tenth antennomere about 0.8 times as long as wide at apex, of same length and slightly wider than ninth antennomere. Eleventh antennomere about 1.1 times as long as wide at base, 1.3 times as long as and about 0.9 times as narrow as ninth antennomere. Pronotum campanulate, constricted apically, 1.4 times as long as width at apex, 0.9 times as long as width at midlength and 0.7–0.8 times as long as width at pronotal base. Pronotal disk convex dorsally, densely punctate. Base curved. Scutellar shield subtriangular, weakly convex, equal in length and width, densely punctate. Elytra suboval, 1.2 times as long as wide in humeri, 1.1 times as long as wide at midlength, 1.5–1.7 times as long as wide at apical fourth, 2.5–2.6 times as long as pronotum, with virtually indistinct tubercles. Humeral calli convex. Elytral striae distinct, with large sparse punctations. Interstriae 2.5–4.0 times as wide as striae, slightly convex, punctate. Pre- and postcoxal portions very short, equal in length. Precoxal portion about 0.2 times as long as length of procoxal cavity. Procoxal cavities continues. Mesocoxal cavities narrowly separated. Metanepisternum quite narrow. Metaventrite short, slightly longer than metacoxal cavity length, convex, densely punctate. Abdomen weakly, densely punctate. First ventrite slightly longer than metacoxal length. Suture between first and second ventrites curved in middle. Second ventrite 0.7–0.9 times as long as first ventrite. Third ventrite 0.4–0.5 times as long as second ventrite. Fourth ventrite of same length to third ventrite. Fifth ventrite 1.7–2.2 times as long as fourth ventrite. Pygidium not exposed. Procoxae conical. Metacoxae transverse. Femora weakly clavate, flattened, unarmed. Tibiae curved, without uncus and mucro. Tarsi quite long. First tarsomere wide-conical, flattened. Second tarsomere wide-conical, flattened, weakly shorter than first tarsomere. Third tarsomere flattened and bilobed. Fifth tarsomere elongated. Tarsal claws free and simple. Total body length (without rostrum) 3.5–3.7 mm. Length of rostrum 1.5–1.6 mm.

Comparison. The new species differs from *Ph. fuscocupreus* Voss, 1958 and *Ph. major* Roelofs, 1879 in having the tubercles on the elytra virtually indistinct, the elytral transverse bands absent, and the pronotum with two broad, dark longitudinal stripes, a narrow strip of pale scales between them, and broad strips of pale scales along their sides.

Etymology. From Vietnam.

Distribution. Vietnam, Yên Bái Province.

Phaeopholus major Roelofs, 1879

Figs 5, 7–10.

= *Phaeopholus ponomarenkoi* Legalov, 2012, **syn.n.**

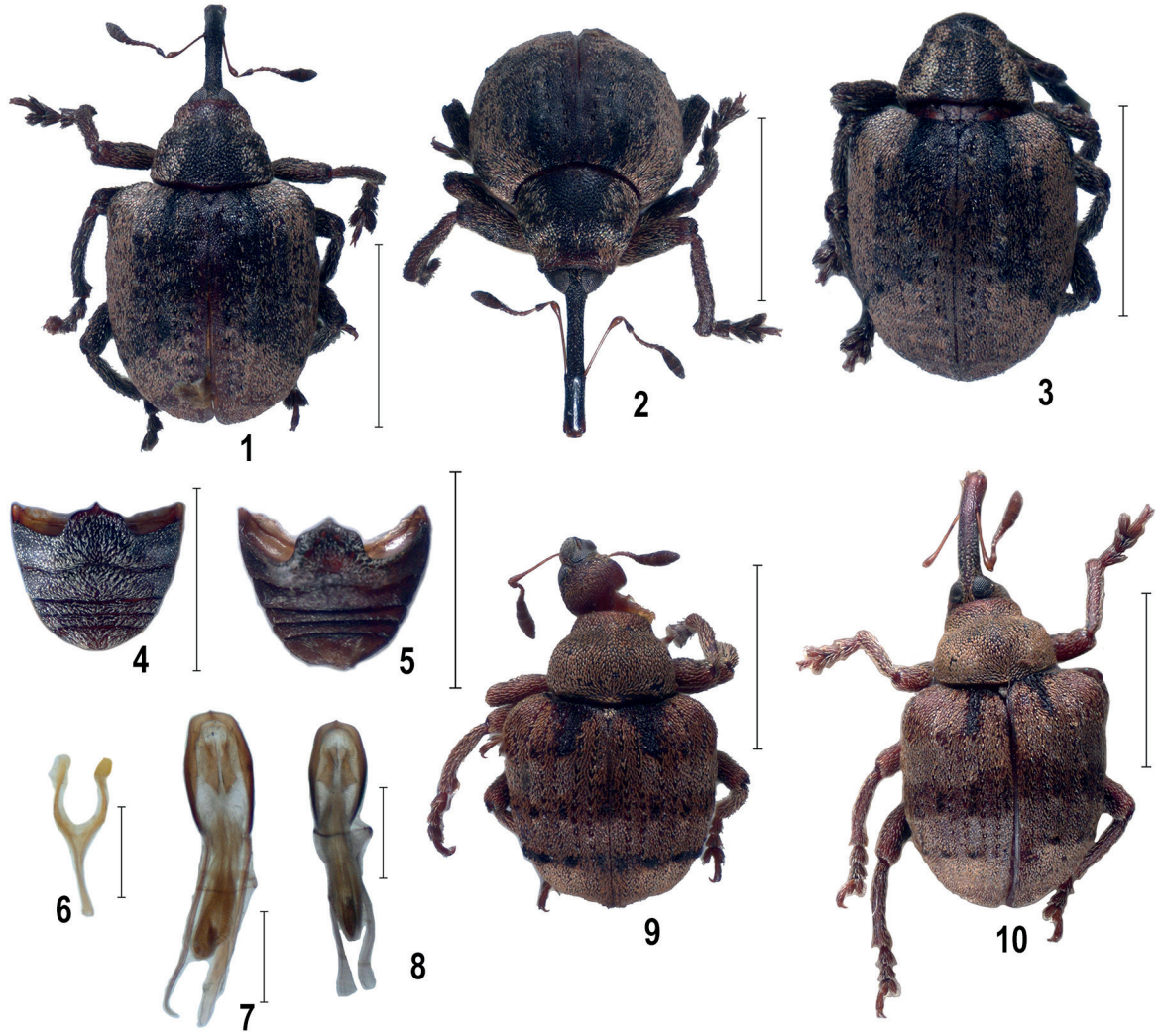
Material. **Japan:** lectotype, female: "type", 'Coll. R. I. Sc. N. B., Japon', 'Coll. Roelofs', '*P. major* R., Tokio, Jap. (Hill)', 'Hiller, Tokio', 'Lectotype *Phaeopholus major* Roelofs, 1879, A. Legalov design. 2008' (ISNB). **Vietnam:** holotype, male: 'Vietnam, Lang Son Prov., Mau Son, 820 m, may 2008, N.L. Orlov', 'Holotype *Phaeopholus ponomarenkoi* Legalov, sp.n.' (ZIN); paratype, female: 'Vietnam, Lang Son Prov., Mau Son, 820 m, may 2008, N.L. Orlov', 'Paratype *Phaeopholus ponomarenkoi* Legalov, sp.n.' (ZIN); paratype, male: 'N Vietnam, Tamdao, 12.VI.1994, Sugonjaev', 'Paratype *Phaeopholus ponomarenkoi* Legalov, sp.n.' (ISEA).

Remarks. The type specimens of *Ph. major* and *Ph. ponomarenkoi* show no significant differences, and their aedeagi are identical; therefore, I synonymize *Ph. ponomarenkoi* Legalov, 2012, syn.n., with *Ph. major* Roelofs, 1879.

Distribution. Japan: Honshu, Shikoku, Kyushu and Tsushima Island, South Korea; China: Taiwan [Roelofs, 1873; Kojima, Morimoto, 2004; Kojima, Kaga, 2011; Tseng, Cheng, 2021; Alonso-Zarazaga et al., 2023], Vietnam: new record.

Discussion

The earliest Hyperinae belonging to the tribe Cepurini have been described from the Late Eocene of Europe [Legalov, 2013, 2020a, c] and the terminal Eocene of the USA [Scudder, 1893; Legalov, 2020b]. Klebs [1920] pointed out a specimen resembling *Phytonomus* Schoenherr, 1823 from his Baltic amber collection. This group is absent from earlier deposits containing Curculionidae [Scudder, 1893; Legalov, 2012a, b, 2014a–b, 2015, 2020c; Legalov et al., 2016, 2019, 2022]. *Hyperites nadezhkini* Zherikhin, 1989 was found in the Early Oligocene of Primorskii Krai, Russia [Zherikhin, 1989; Legalov, 2020c]. However, Hyperinae have not been



Figs 1–10. Details of morphology of *Phaeopholus* species: *Ph. vietnamensis* sp.n., holotype, female (1–4, 6, 7), *Ph. ponomarenkoi*, paratype, male (5, 9) and *Ph. major*, male (8, 10). 1–3, 9, 10 — external appearance; 4, 5 — abdomen; 6 — 8th sternite; 7, 8 — aedeagus; 1, 3–10 — dorsal view; 2 — frontal view. Scale bars 1–5, 9–10 — 2.0 mm, 6–8 — 0.5 mm.

Рис. 1–10. Детали строения видов рода *Phaeopholus*: *Ph. vietnamensis* sp.n., голотип, самка (1–4, 6, 7), *Ph. ponomarenkoi*, паратип, самец (5, 9) и *Ph. major*, самец (8, 10). 1–3, 9, 10 — внешний вид; 4, 5 — брюшко; 6 — 8-й стернит; 7, 8 — эдеагус; 1, 3–10 — сверху; 2 — спереди. Масштаб: 1–5, 9–10 — 2,0 мм, 6–8 — 0,5 мм.

found in Miocene ambers rich in weevils [Legalov, 2012d, 2014a, b, 2015, 2019a; Poinar et al., 2013; Poinar, Legalov, 2014a–c, 2015a–d, 2017, 2019, 2021, 2022; Legalov et al., 2017, 2019, 2022]. It is worth noting that it is very rare in the fossil record. For instance, only two Hyperinae specimens have been recorded in Baltic amber, a deposit known to yield 84 species of Curculionidae [Voss, 1953, 1972; Zherikhin, 1971; Kuschel, 1992; Yunakov, Kirejtshuk, 2011; Legalov, 2012e, 2013, 2015, 2016a, b, 2019b, 2020a,c, 2021, 2023d, e; Legalov, Bukejs, 2015, 2018a, b; Bukejs, Legalov, 2019a, b; Bukejs et al., 2020; Legalov, Poinar, 2020, 2022]. Representatives of the tribe Hyperini have been found only in the Pleistocene [Lomnicki, 1894; Kuzmina, Matthews, 2012; Legalov, 2015; Legalov et al., 2016, 2023; Zinovyev et al., 2016; Gurina et al., 2018, 2019a, b, 2023, 2025; Dudko et al., 2022].

Hyperinae are treated either as a distinct subfamily [Csiki, 1934; Zherikhin, Egorov, 1991; Thompson, 1992; Alonso-Zarazaga, Lyal, 1999; Marvaldi, Lanteri, 2005; Alonso-Zarazaga et al., 2023; Letsch, Riedel, 2025] or as a group of lower rank or uncertain status [Kuschel, 1995; Marvaldi, 1997; Oberprieler et al., 2007; McKenna et al., 2009; Legalov, 2011a, 2015, 2020b; Oberprieler et al., 2014; Gunter et al., 2016]. Nevertheless, Hyperinae constitute a morphologically well-defined group; their larvae lead an exposed lifestyle, similar to that of the tribe Cionini (within Curculioninae). Like certain other groups of short-snouted weevils (Entiminae) — Ectemnorhinini, Ottistirini, Pachyrhynchini, Sitonini, Tanyrhynchini, and Thecesternini — they lack mandibles with a scar of the deciduous process. It is possible that the subfamily Entiminae should be restricted to groups possessing this trait. Hyperinae show the closest affinity to Sitoninae, which are also likely derivatives of Curculioninae. I consider the subfamily Hyperinae to comprise four tribes: Gonipterini Lacordaire, 1863, Cepurini Capiomont, 1867, Hyperini

Lacordaire, 1863, Coniatini Legalov, 2007, **stat.n.**, and Phaeopholini Legalov, 2011, **stat.n.** The tribe Hyperini comprises the subtribes Hyperina Lacordaire, 1863 and Macrotarrhusina Legalov, 2007. Members of most tribes lead an arboreal lifestyle, which is likely the ancestral state for the subfamily; however, the Hyperini have shifted to a terrestrial lifestyle. In addition to the type genus, the tribe Phaeopholini includes several Australian genera.

Key to tribes and subtribes of subfamily Hyperinae

1. Mesepimeron widely trapezoidal. Metepisternum wide, expanded upward and downward. Prementum large, covered with scales of setae 2
— Mesepimeron narrowly triangular. Metepisternum narrow, usually extended upward. Prementum small, glabrous 3
2. Eyes rounded, slightly convex, smaller. Metaventrite tumid. Protibiae with large mucro, often serrate along inner margin. Rostrum short. Body usually granulate ....Gonipterini
— Eyes flattened, transversely oval, barely protrude beyond contour of head, relatively large. Metaventrite conspicuous. Protibiae lacking mucro (or with only small one). Rostrum usually long. Inner margin of tibiae not serrate. Body surface not granulated ..... Cepurini
3. Body round. Rostrum long and thin ..... Phaeopholini
— Body elongated. Rostrum usually short 4
4. Eyes convex, rounded. Sclerites of 8th sternite of females contiguous along entire length. Body covered with thick green scales ..... Coniatini
— Eyes usually flattened, transversely oval. Sclerites of 8th sternite of females contiguous at base or at apex and base. Body without thick green scales, if scales present than deeply dissected. (Hyperini) 5
5. Humeri usually rounded. Sclerites of 8th sternite of females separated or contiguous at base ..... Hyperina
— Humeri usually convex. Sclerites of 8th sternite of females contiguous ..... Macrotarrhusina

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