

New species and new records of water scavenger beetles (Coleoptera: Hydrophilidae) from Asia

Новый вид и новые находки водолюбов (Coleoptera: Hydrophilidae) из Азии

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КЛЮЧЕВЫЕ СЛОВА: водолюбы, Coleoptera, Hydrophilidae, таксономия, фауна, Азия.

ABSTRACT. *Asiacyon derunkovi* **sp.n.** was described from Vietnam. The new species is closest to *Asiacyon pax* Mai, Jia, Ryndevich et Fikáček, 2024 from Guangdong, Hong Kong and Hunan (China) and *A. vicincretus* Mai, Jia, Ryndevich et Fikáček, 2024 from Guangdong and Guangxi (China). It differs from similar species by the very narrow mesoventral plate (ca. 12.8–13.0× as long as wide) and structure of male genitalia. *Helochaeres* (*Hydrobaticus*) *anchoralis* Sharp, 1890, *Thysanarthria trifida* Fikáček et Liu, 2019, *Amphiops mirabilis* Sharp, 1890, *Asiacyon incretus* (d'Orchymont, 1941), *Asiacyon paraequalis* Mai, Jia, Ryndevich et Fikáček, 2024, *Cercyon* (*Paracycreon*) *laminatus* Sharp, 1873 are reported for the first time for the fauna of Vietnam, *Hydrophilus acuminatus* Motschulsky, 1854 — for Laos, *Cryptopleurum coomani* d'Orchymont, 1926 — for India, *Ametor rudesculptus* A. Semenov, 1900 — for Afghanistan.

РЕЗЮМЕ. *Asiacyon derunkovi* **sp.n.** описан из Вьетнама. Новый вид наиболее близок *Asiacyon pax* Mai, Jia, Ryndevich et Fikáček, 2024 из Гуандуна, Гонконга и Хунаня (Китай) и *A. vicincretus* Mai, Jia, Ryndevich et Fikáček, 2024 из Гуандуна и Гуанси (Ки-

тай). Он отличается от близких видов очень узким отростком среднегруди и структурой гениталий самца. *Helochaeres* (*Hydrobaticus*) *anchoralis* Sharp, 1890, *Thysanarthria trifida* Fikáček et Liu, 2019, *Amphiops mirabilis* Sharp, 1890, *Asiacyon incretus* (d'Orchymont, 1941), *Asiacyon paraequalis* Mai, Jia, Ryndevich et Fikáček, 2024, *Cercyon* (*Paracycreon*) *laminatus* Sharp, 1873 впервые приводятся для фауны Вьетнама, *Hydrophilus acuminatus* Motschulsky, 1854 — для Лаоса, *Cryptopleurum coomani* d'Orchymont, 1926 — для Индии, *Ametor rudesculptus* A. Semenov, 1900 — для Афганистана.

Introduction

Faunistic and taxonomic studies in the last ten years in the Asian region have significantly expanded knowledge about the water scavenger beetles (Hydrophilidae) [Jia *et al.*, 2016, 2019, 2020; Jia, Zhang, 2017; Nasserzadeh, Komarek, 2017; Ryndevich, Prokin, 2017; Ryndevich *et al.*, 2017; Jia, Tang, 2018; Fikáček, Liu, 2019; Minoshima, 2019; Litovkin *et al.*, 2021; Ryndevich *et al.*, 2021; Shatrovskiy, 2021; Mai *et al.*, 2022, 2024, 2025;

Minoshima *et al.*, 2023; Mai, Jia, 2024; Jia, Mai, 2024]. These papers have made it possible to describe a number of new species and obtain new data on the distribution of species in addition to the catalogs [Hansen, 1999, 2004; Fikáček *et al.*, 2015].

The work of Jia *et al.* [2024] made a significant contribution to the generalization of information not only on Chinese, but also on many species of Hydrophilidae from other Asian regions.

The authors' research in various regions of Asia (India, Vietnam, etc.) allowed them to obtain significant new data on the distribution of water scavenger beetles and to find a new species from a recently described genus *Asiacyon* Mai, Jia, Ryndevich et Fikáček, 2024.

Material and Methods

The material for this article was based on the authors' collections, as well as loan material kindly provided by colleagues.

Water hydrophilids were collected using a Balfour-Browne hydrobiological net. The terrestrial scavenger beetles were collected in the excrement of gaur, horse, buffalo and humans. Beetles were also collected using flight interception traps (FIT) and a light trap.

Examined specimens are deposited in the following state and private collections: CAK — A. G. Koval collection, St. Petersburg, Pushkin, Russia; CSR — S.K. Ryndevich collection, Baranavichy, Belarus; SYSU — Sun Yat-sen University, Guangzhou, China; ZCMB — Zoological collection and genetic bank of wild fauna, Scientific-practical Centre of the National Academy of Sciences of Belarus for Biological Resources, Minsk, Belarus; ZISP — Zoological Institute of the Russian Academy of Sciences, St. Petersburg, Russia.

Beetles were examined using Nikon SMZ-745T and Nikon SMZ-800 stereomicroscopes.

Habitus, dorsal and ventral side photographs were taken with Nikon D5100 digital camera with attached Nikon 60 mm 1:2.8G macro lens and Meike Macro Extension Tube Set. Photographs of genitalia were taken with a Nikon Eclipse 50i stereomicroscope with camera from glass slides in glycerol.

Measurements were taken using an ocular micrometer. Total body length was measured from the anterior margins of eyes to the apices of elytra; body width was taken as the maximum linear distance between the outer margins of elytra. Body length was measured in specimens with a deflexed head and a non-inflexed prothorax (i.e., in the natural position).

The photographs were edited subsequently in Adobe Photoshop CS5®.

Taxonomy

Family Hydrophilidae Latreille, 1802
subfamily Sphaeridiinae Latreille, 1802
tribe Megasternini Mulsant, 1844

Asiacyon derunkovi Ryndevich1,
Mai, Jia, Truong, Saluk, **sp.n.**
Figs 1–11.

MATERIAL. Type material. Holotype, male Vietnam, Tây Yên Tử Nature Reserve, Bắc Giang Province, 9.v.–11.v.2019. h=380 m, N 21°09'53.3" E 106°49'16.0", FIT#2, A. Derunkov

leg. (ZCMB) Paratypes: 3 female, same data as holotype (ZCMB, CSR).

DIFFERENTIAL DIAGNOSIS. Body broadly oval, length 2.0–2.3 mm. Ground colour yellowish brown, sides of head brown, clypeus pale. Base of pronotum very narrowly darkened. Sides of elytra widely darkened, brown, centre brownish. Elytral suture yellowish brown. Antennae yellow except for darker club. Maxillary palpomeres yellow. Legs yellow, femora and tibia brownish-yellow. Prosternal process pointed apically. Antennal groove clear, largely exceeding hypomeron, with lateral margin strongly convex. Mesoventral plate elongate, very narrow, especially narrowed in posterior half, widest at least in anterior half near middle, ca. 12.8–13.0× as long as wide. Femoral lines absent. Phallobase slightly shorter than parameres. Median lobe widest in the middle, parallel sided, pointed apically. Apical part of median lobe is slightly curved ventrally.

DESCRIPTION. *Form and colour* (Figs 1–3, 6). Total length 2.0–2.4 mm; maximum width 1.2–1.4 mm. Body broadly oval, dorsal side convex. Ground colour yellowish brown, sides of head brown, clypeus pale. Base of pronotum very narrowly darkened. Sides of elytra widely darkened, brown, centre brownish. Elytral suture yellowish brown. Ventral side same colour as dorsal side, except brown meso- and metaventricle. Antennae yellow except for darker club. Maxillary palpomeres yellow. Legs yellow, femora and tibiae brownish-yellow.

Head. Dorsal surface without microsculpture; with moderately dense and coarse punctures; each puncture crescent-shaped. Anterior margin of clypeus with a marginal bead. Frontoclypeal suture undetectable. Eyes small, somewhat protruding, interocular distance ca. 6.2–6.4× the width of one eye in dorsal view. Mentum subtrapezoid, glabrous, ca. 2.1× as wide as long, moderately depressed anteriorly; anterior margin of mentum slightly concave, with fine punctures. Antennae with 9 antennomeres; antennal club (antennomeres 7–9) compact and densely pubescent. Scapus ca. 1.2× as long as antennomeres 2–5 combined, Maxillary palpomere 2 strongly swollen in apical half, longer than palpomere 3; palpomere 4 almost symmetrical, ca. as long as palpomere 3. Each maxilla with a sucking-disc shaped appendage in male.

Thorax. Elytra and pronotum without hairs. Pronotum widest posteriorly, gradually narrowed anteriorly, ca. 2.7× as wide as long. Pronotal punctation similar to that on head. Lateral margins of pronotum with narrow bead, the bead overlapping anterior and posterior corners, anterior and central part of posterior margin of without bead. Prosternum strongly tectiform medially, with sharp median carina. Prosternal process pointed apically. Prosternum with sparse and fine pubescence from both sides of the median carina to the depressed lateral portions. Antennal groove clear, largely extending hypomeron, with lateral margin strongly convex (Fig. 4). Mesoventral plate elongate, very narrow, especially narrowed in posterior half, widest at least in anterior half near middle, ca. 12.8–13.0× as long as wide; posterior apex of mesosternal plate obtusely pointed, overlapping the anterior ridge of metaventricle (Fig. 5). Metaventricle with raised, glabrous, sparsely punctate median pentagonal area; femoral lines absent. Lateral parts of metaventricle densely pubescent. Anterior ridge of metaventricle slightly bend at anterolateral corner. Elytra with 10 punctate striae, striae 1–9 impressed, reaching base, stria 10 very short; intervals flat; ground punctures on intervals very fine, slightly sparser than the punctation of head and pronotum. Humeral bulge not distinct. Epipleuron wedge-shaped and strongly oblique at anterior half of elytron, distinctly wider than metepisterna at the level of anterolateral corner of metaventricle.

Legs. Profemora glabrous ventrally, with very fine punctures and weak microsculpture; meso- and metafemora with

sparse setiferous punctures, interstices with indecipherable microsculpture. Tibiae with small lateral spines. Tarsi with sparse ventral setae, first metatarsomere about as long as metatarsomeres 2–3 combined.

Abdomen. Abdominal ventrites densely pubescent. Abdomen with five exposed ventrites, first ventrite longer than other ventrites, ca. 2× as long as second ventrite, bearing distinct median longitudinal carina; fifth ventrite arcuate, not emarginate apically.

Male genitalia. Paramere almost the same width from base to apical part, slightly curved inward, and roundly truncate apically, with apical seta (Figs 7, 10). The inner side of the paramere has numerous very short setae. Phallobase ca. almost 1× as long as parameres, nearly parallel sided, manubrium asymmetrical and short. Median lobe widest in the middle, parallel sided, smoothly narrowed in apical part and pointed apically,

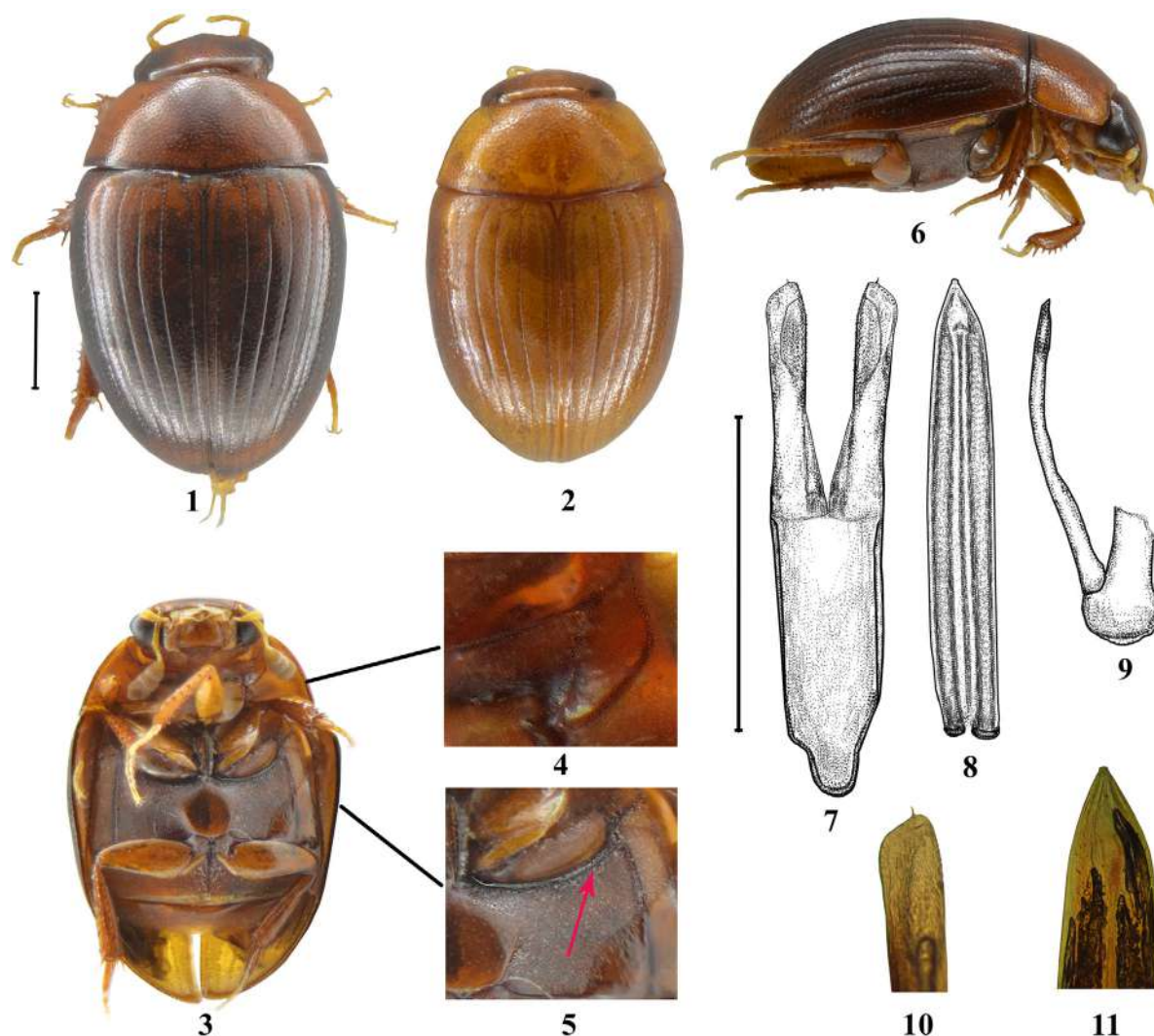
roundly narrowed to apex (Figs 8, 11). Apical part of median lobe is slightly curved ventrally. Gonopore moderately large, situated subapically. Median projection of sternite 9 gradually narrowed anteriorly; lateral struts slightly longer than median portion (Fig. 9).

VARIATION. In two females, the coloration is almost completely brownish-yellow, without significant darkening (Fig. 2). More likely these specimens are not fully pigmented.

ETYMOLOGY. This species is named after the entomologist Dr Alexandr Derunkov, who collected the type specimens.

DISTRIBUTION. Vietnam (Bac Giang).

BIONOMICS. All specimens collected with flight interception trap (FIT) in deciduous secondary tropical forest with bamboo (*Bambusa*) and figs (*Ficus*) on the bank of a stream (Figs 12, 13).



Figs 1–11. *Asiacyon derunkovi* sp.n., habitus: 1 — female, dorsal view; 2 — juvenile female, dorsal view; 3 — male, ventral view; 4 — antennal groove; 5 — meso- and metaventricle, arcuate ridge (arrow); 6 — lateral view; 7 — tegmen; 8 — median lobe; 9 — sternite 9; 10 — paramera apex; 11 — apex of median lobe; 1, 2 — paratypes, 3–11 — holotype. Scale bar: 0.5 mm.

Рис. 1–11. *Asiacyon derunkovi* sp.n. габитус: 1 — самка, вид сверху; 2 — ювенильная самка, вид сверху; 3 — самец, вид снизу; 4 — усиковая впадина; 5 — средне- и заднегрудь, дугообразный гребень (показан стрелкой); 6 — вид сбоку; 7 — тегмен; 8 — срединная доля; 9 — девятый стернит; 10 — вершина параметры; 11 — вершина срединной доли; 1, 2 — паратипы, 3–11 — голотип. Масштаб: 0,5 мм.



Figs 12–14. Habitats of Hydrophilidae: 12–13 — *Asiacyon derunkovi* sp.n.; 14 — *Thysanarthria trifida* Fikáček et Liu, *Amphiops mater* Sharp and *Amphiops mirabilis* Sharp.

Рис. 12–14. Местообитания Hydrophilidae: 12–13 — *Asiacyon derunkovi* sp.n.; 14 — *Thysanarthria trifida* Fikáček et Liu, *Amphiops mater* Sharp и *Amphiops mirabilis* Sharp.

Discussion

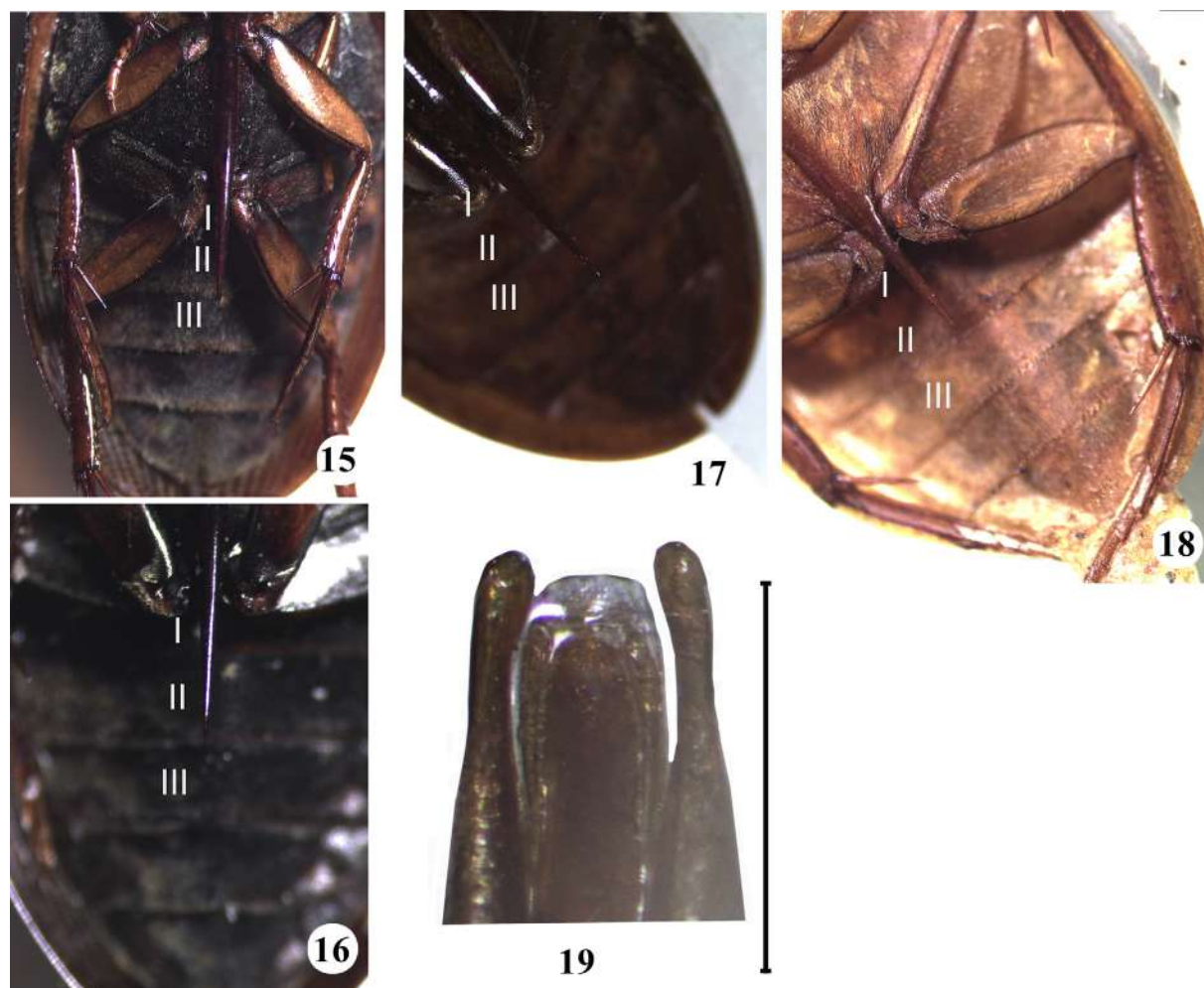
The new species belongs to the *Asiacyon incretus* (d'Orchymont, 1941) species group, being closest to *Asiacyon pax* Mai, Jia, Ryndevich et Fikáček, 2024 from Guangdong, Hong Kong and Hunan (China) and *A. vicincretus* Mai, Jia, Ryndevich et Fikáček, 2024 from Guangdong and Guangxi (China) (see Mai *et al.* [2024, figs 18, 29]). The body of these two species is wider than that of *A. derunkovi* **sp.n.**

A. pax is bigger, length 2.2–2.7 mm. Its mesoventral plate very narrowly elongate, widest at least in anterior half, ~ 7.0 – $7.6\times$ as long as wide; posterior apex of mesoventral plate obtusely pointed, paramere without apical seta. *A. derunkovi* **sp.n.** has length 2.0–2.4 mm, mesoventral plate very narrow, ca. 12.8 – $13.0\times$ as long as wide; especially narrowed in posterior half, widest at least in anterior half near middle, posterior apex of

mesoventral plate obtusely pointed, paramere with apical seta.

A. vicincretus is most similar to *A. derunkovi* **sp.n.** in colour and structure of male genitalia. But the new species has a completely pale clypeus, significantly narrower mesosternal plate (ca. 12.8 – $13.0\times$ as long as wide), the outer edge of the parameres slightly curved inward, inner side of the parameres with numerous very short setae and the apices of the parameres are clearly rounded. *A. vicincretus* has the clypeus dark brown medially, mesoventral plate ~ 9.0 – $9.5\times$ as long as wide, parameres obliquely truncate apically, phallobase ~ 1.3 – $1.5\times$ as long as parameres.

A. derunkovi **sp.n.** differs significantly from other species of the *A. incretus* group (*A. conjiciens* (Walker, 1858), *A. dilutus* (Régimbart, 1903), *A. huilanae* Mai, Jia, Ryndevich et Fikáček, 2024, *A. incretus*, *A. indicus* (d'Orchymont, 1926), *A. primoricus* (Ryn-



Figs 15–19. *Sternolophus rufipes*: 15–18 — metaventre and abdomen; 19 — apex of aedeagus; 15, 16 — specimens from Pu Hoat, Nghe An Province, Vietnam; 17, 19 — specimen from Me Linh Station for Biodiversity, Vĩnh Phúc Province, Vietnam; 18 — specimen from Manapakkam, Tamil Nadu, India. Scale bar: 0.5 mm.

Рис. 15–19. *Sternolophus rufipes*: 15–18 — заднегрудь и брюшко; 19 — вершина эдеагуса; 15, 16 — особи из Пу Хоат, провинция Нге Ан, Вьетнам; 17, 19 — особь из станции биоразнообразия Ме Линь, провинция Виньфук, Вьетнам; 18 — особь из Манапаккэм, Тамил Наду, Индия. Масштаб: 0,5 мм.

devich et Prokin, 2017), *A. pseudodilutus* (Satô, 1979), *A. pseudincretus* Mai, Jia, Ryndevich et Fikáček, 2024, *A. retius* (Ryndevich et Prokin, 2017), *A. zhengyucheni* Mai, Jia, Ryndevich et Fikáček, 2024) in colour, smaller size and structure of the male genitalia [Mai *et al.*, 2024].

Using the key for the *Asiacyon* species by Mai *et al.* [2024], it is possible identify the new species using the following correction:

- 5 Dorsum yellowish brown, head with clypeus pale medially (see Mai *et al.*, 2024, fig. 18a). Paramere roundly truncate apically (see Mai *et al.*, 2024, fig. 18f) 5a
- Dorsum reddish brown, head with clypeus dark brown medially (see Mai *et al.*, 2024, fig. 25a). Mesoventral plate $\sim 9.0\text{--}9.5\times$ as long as wide (see Mai *et al.*, 2024, fig. 26d). Paramere obliquely truncate apically, with apical seta (see Mai *et al.*, 2024, fig. 25f); median lobe widest in the middle, abruptly narrowed in apical sixth, apex pointed (see Mai *et al.*, 2024, fig. 25e) *A. vicincretus*.
- 5a Mesoventral plate $\sim 7.0\text{--}7.5\times$ as long as wide (see Mai *et al.*, 2024, fig. 19c). Paramere without apical seta (see Mai *et al.*, 2024, fig. 18f); median lobe widest slightly above the middle, roundly narrowed to apex and obtusely pointed apically (see Mai *et al.*, 2024, fig. 18e) *A. pax*.
- Mesoventral plate $\sim 12.8\text{--}13.0\times$ as long as wide (Fig. 5). Paramere roundly truncate apically, with apical seta (Figs 7, 10), median lobe widest in the middle, parallel sided, smoothly narrowed in apical part and pointed apically, roundly narrowed to apex (Figs 8, 11) *A. derunkovi* **sp.n.**

New faunistic records

Family Hydrophilidae Latreille, 1802
Subfamily Acidocerinae Zaitzev, 1908

Helochares (Hydrobaticus) anchoralis Sharp, 1890

MATERIAL. **Vietnam.** Sev. Vietnam [Northern Vietnam], Khanoy [Ha Noi], 22.X.1961, [leg.] Kabakov, 1 specimen; (CSR); C Vietnam, Nghe An Province, Que Phong District, Pu Hoat Nature Reserve, Dong Van Commune, N 19°48'31.0" E 105°05'40.7", h=240 m, at light, 3.V.2025, leg. Ryndevich S., Saluk S., Lukasuk A., Derunkov A., 4 specimens (CSR).

New for Vietnam.

Subfamily Chaetarthriinae Bedel, 1881
tribe Anacaenini M. Hansen, 1991

Crenitis (Crenitis) convexa Ji et Komarek, 2003

MATERIAL. **China:** CH, Sichuan, SW Hunzi village, left tr. Of Lianhegou River, 2800–2900 m, 24.6.2000, leg. Belousov, Kabak, Davidian, 7 specimens; CH, Yunnan, NE Wexi City, r.trib.Lapugou R., 2.7 km ENE Jizong, 27°27'28" N / 99°22'21" E, 4.VI.2015, h=2870 m, leg. Belousov, Kabak, Davidian, 2 specimens (CSR).

First record for Yunnan.

tribe Chaetarthriini Bedel, 1881

Thysanarthria trifida Fikáček et Liu, 2019

MATERIAL. **Vietnam.** C Vietnam, Nghe An Province, Que Phong District, Pu Hoat Nature Reserve, Dong Van Commune, river, N 19°48'31.0" E 105°05'40.7", h=240 m, 7.V.2025, leg. Ryndevich S., 1 specimen (CSR).

New to Vietnamese fauna. Habitat (Fig. 14).

subfamily Hydrophilinae Latreille, 1802
tribe Amphiopini Kuwert, 1890

Amphiops mater Sharp, 1873

MATERIAL. **Vietnam.** N Vietnam, Na Khau Nature Reserve, Van Yen, Yen Bai prov., pond, puddle in the forest 21°71'21" N, 104° 58'52" E, h=850 m, 29.VI.2021, Y3, leg. X.L. Truong, 5 specimens (CSR); same data but Y3.6, 1 specimen (CSR), C Vietnam, Nghe An Province, Que Phong District, Pu Hoat Nature Reserve, Dong Van Commune, N 19°48'31.0" E 105°05'40.7", h=240 m, at light, 5.V.2025, leg. Ryndevich S., 1 specimen (CSR).

First record for Yen Bai Province. Habitat (Fig. 14).

Amphiops mirabilis Sharp, 1890

MATERIAL. **Vietnam.** C Vietnam, Nghe An Province, Que Phong District, Pu Hoat Nature Reserve, Dong Van Commune, N 19°48'31.0" E 105°05'40.7", h=240 m, at light, 5.V.2025, leg. Ryndevich S., 1 specimen (CSR).

New to Vietnamese fauna. Habitat (Fig. 14).

tribe Berosini Mulsant, 1844

Berosus elongatulus elongatulus Jordan, 1894

MATERIAL. **Vietnam.** N Vietnam, Na Khau Nature Reserve, Van Yen, Yen Bai prov., pond, puddle in the forest 21°71'21" N, 104° 58' 52" E, h= 850 m, 29.VI.2021, Y3, leg. X.L. Truong, 2 specimens (CSR).

First record for Yen Bai Province.

tribe Hydrobiusini Mulsant, 1844

Ametor elongatus Ji et Schödl, 1998

MATERIAL. **China:** CH, Sichuan, N Wenchuan, NE Longxixiang, Ershili, 31°37'46" N / 103°36'39" E, 8.VII.2015, h=2610 m, leg. Belousov, Kabak, Davidian, 1 specimen (CSR).

Second record of this rare species.

Ametor rudesculptus A. Semenov, 1900

MATERIAL. **China:** CH, Sichuan, right bank of Niuzhine Riv., E E of Pusun Village, 2200–2800 m, 15–16.VI.2000, leg. Belousov, Kabak, Davidian, 2 specimens (ZISP, CSR); CH, Yunnan, NE Lanping City, 2.9 km E Xuebangshan Mt., 26°28'42" N / 99°31'36" E, H=3045 m, 30.V.2015, leg. Belousov, Kabak, Davidian, 1 specimen (CSR). **Afghanistan:** Afgan., Nuristan, Kamdeš, 1400 m, 24.IX.1971, [leg.] Kabakov, 1 specimen (CAK).

New for Afghanistan.

tribe Hydrophilini Latreille, 1802

Hydrochara libera (Sharp, 1884)

MATERIAL. **Russia.** Bass. Ussuri [Ussuri river basin], yuzh. Bikina [south of Bikin], 20.8.1985 [leg.] Kovalev [in Russian], 1 specimen (CSR).

New for Khabarovsk Krai.

Hydrophilus acuminatus Motschulsky, 1854

MATERIAL. **Laos.** Vientian, 16.X.1984, [leg.] Kabakov, 1 specimen (CSR). **Vietnam.** Cao Bang prov. Hoai Khao, Quang Thanh, Nguyen Binh, Phia Wac, h=879 m, 22°36'39" N, 105°54'40"E, 10.V.2021, streams in forest, leg. X.L. Truong, 2 specimens (CSR).

New for Laos and Cao Bang Province (Vietnam), second record for Vietnam

Hydrophilus bilineatus caschmirensis Kollar et L. Redtenbacher 1844

MATERIAL. **Vietnam.** Thanh Hoa Province, Xuan Lien Nature Reserve, 28.V.2023, at light, S.V. Saluk leg. 1 specimen (CSR); Thua Thien Hue Province, Sao La Nature Reserve, near river, 23–24.V.2023, leg. S.V. Saluk, 14 specimens (CSR); C Vietnam, Nghe An Province, Pù Mát National Park, N 18°57'56.6" E 104°50'05.11", h=201, at light, 30.IV.2025, leg. Ryndevich S., Saluk S., Lukasuk A., Derunkov A., 6 specimens (CSR); C Vietnam, Nghe An Province, Que Phong District, Pu Hoat Nature Reserve, Dong Van Commune, at light, N 19°48'31.0" E 105°05'40.7", h=240 m, 7.V.2025, leg. Ryndevich S., 1 specimen (CSR).

New for Thanh Hoa and Thua Thien Hue Provinces, second records for Vietnam.

Sternolophus acutipenis Nasserzadeh et Komarek, 2017

MATERIAL. **China.** Yunnan Province, Yingjiang County, Nabang Town, 24.75°N 97.56°E, 139 m, 2016.VI.27, Yudan Tang & Ruijuan Zhang leg., 2 specimens (SYSU); Guangdong Province, Yangxi County, Dongshuishan Mountain Forest Park, 240 m □ 21.7974°N 111.4419°E, 2022.II.7, Zuqi Mai leg. 2 specimens (SYSU). Guangdong Province, Foshan City, Gaoming District, Lutian, Cyatheaaceae Nature Reserve, 193.8 m □ 22.7557°N 112.3924°E, 2022.III.7, Zuqi Mai & Zhuoyin Jiang leg., 11 specimens (SYSU). **Vietnam.** Thua Thien Hue Province, Sao La Nature Reserve, near river, 23–24.V.2023, leg. S.V. Saluk, 1 specimen (CSR); C Vietnam, Nghe An Province, Pù Mát National Park, N 18°57'56.6" E 104°50'05.11", h=201, at light, 1.V.2025, leg. Ryndevich S., 1 specimen (CSR).

New for Guangdong and Yunnan Provinces (China), Thua Thien Hue and Nghe An Provinces (Vietnam), second record for Vietnam.

Sternolophus rufipes (Fabricius, 1792)

MATERIAL. **Vietnam.** N. Vietnam, Ha Noi Province, Ha Noi district, Ha Noi, N 21°00'10.71" E 105°50'56.17", 29.03.2021, Coll. Dzhus M.A., 1 specimen (CSR); Vietnam, Vietnam, Vinh Phuc Province, the Me Linh Station for Biodiversity at the border of Tam Dao National Park, 2.V.2016, at light, S.V. Saluk leg., 1 specimen (CSR); Ninh Binh Province, Cúc Phương National Park, 23.IV.2016, at light, S.V. Saluk leg., 15 specimens (CSR); same data by 25.IV. 2016, 10 specimens (CSR); Vinh Phuc Prov., W Hanoi, Me Linh Station for Biodiversity, 1.V.2016, at light, S.V. Saluk leg., 4 specimens (CSR); Ba Be, Bac Kan Prov., Puong cave next to Nang river, 22° 46' 52" N, 105° 65'35" E. =172 m, B 3.5, 1 specimen (CSR); C Vietnam, Nghe An Province, Pù Mát National Park, N 18°58'16.1" E 104°50'05.7", h=208 m, at light, 29.IV.2025, leg. Ryndevich S., Saluk S., Lukasuk A., Derunkov A., 11 specimens (CSR); same data but 30.IV.2025, 3 specimens (CSR); C Vietnam, Nghe An Province, Pù Mát National Park, N 18°57'56.6"E 104°50'05.11", h=201 m, at light, 1.V.2025, leg. Ryndevich S., 1 specimen (CSR); C Vietnam, Nghe An

Province, Que Phong District, Pu Hoat Nature Reserve, Dong Van Commune, N 19°48'31.0" E 105°05'40.7", h=240 m, at light, 3.V.2025, leg. Ryndevich S., Saluk S., Lukasuk A., Derunkov A., 34 specimens (CSR); same data but 5.V.2025, , leg. Ryndevich S., 138 specimens (CSR); same data but 7.V.2025, 26 specimens (CSR).

New for Nghe An, Vinh Phuc and Bac Kan Provinces.

REMARKS. The species exhibits high variation. Spine on metaventrete very long, reaching or weakly exceeding anterior margin of ventrite 3 [Nasserzadeh, Komarek, 2017]. Some Indian specimens have shorter spine not reaching the anterior margin of ventrite 3 (Fig. 18). This characteristic generally corresponds to the features of specimens from Central Vietnam. Spine on metaventrete reaching (Fig. 16) or weakly exceeding anterior margin of ventrite 3 (Fig. 15). Specimens from Northern Vietnam (Ha Noi district) have longer spine than specimens from other regions. It goes beyond the middle of ventrite 3 and even reaches anterior margin of ventrite 4 (Fig. 17). But the structure of the male's genitalia does not have any clear differences from typical specimens (Fig. 19). In Indonesia and the Philippines specimens have longer spine [Nasserzadeh, Komarek, 2017].

subfamily Sphaeridiinae Latreille, 1802
tribe Coelostomatini L. Heyden, 1891

Coelostoma (Lachnocoelostoma) horni (Régimbart, 1902)

MATERIAL. **India:** India, Madras [Chennai], Manapakkam, IV.1997, leg. S.V. Saluk, 1 specimen; same data, at light, 15.4.1998, 3 specimens (CSR).

New for Madras State.

tribe Megasternini Mulsant, 1844

Asiacyon incretus (d'Orchymont, 1941)

MATERIAL. **Vietnam,** Tam Dao National Park, 12.V.-15.V.2019. h=1001 m, N 21°27'10.1" E 105°38'53.3", FIT#2, A. Derunkov leg., 15 specimens; Ninh Binh Province, Cúc Phương National Park, 17–19.V.2019, h=380 m, N 20°20'55.3" E 105°45'38.7", FIT#1, A. Derunkov leg., 1 specimen.

New for Vietnam.

Asiacyon paraequalis Mai, Jia, Ryndevich et Fikáček, 2024

MATERIAL. **Vietnam,** Thua Thien Hue Province, Hue Sao La Nature Reserve, h=236 m, FIT#2, N 16°04'17.8", E 107°35'56.2", 23–25.V.2023, A. Derunkov leg., 1 specimen.

New for Vietnam.

Cercyon (Cercyon) quisquilius (Linnaeus, 1760)

MATERIAL. **Kazakhstan.** Almaty [region], Trans-Ili Alatau Range, Talgar River Canyon, at 43.2325° N 77.275° E, 1500 m, in horse dung, 13 Jun 2921, [leg.] S.V. Saluk, 4 specimens (CSR).

New for Almaty region and Trans-Ili Alatau.

Cercyon (Cercyon) tatricus Endrödy-Younga, 1967

MATERIAL. **Russia.** Kamchatka, near Esso, horse excrement, 14.VI.2014, leg. M.A. Dzhus, 1 specimen (CSR).

Second record to Kamchatka.

Cercyon (Paracycreon) laminatus Sharp, 1873

MATERIAL. **Vietnam.** C Vietnam, Nghe An Province, Que Phong District, Pu Hoat Nature Reserve, Dong Van Commune, N 19°48'31.0" E 105°05'40.7", h=240 m, at light, 5.V.2025. leg. Ryndevich S., 1 specimen (CSR).

New for Vietnam and Indochina.

Cryptopleurum coomani d'Orchymont, 1926

MATERIAL. **India:** S. India, Tamil Nadu, Nilgiris, Ghats Mts., 3369± ft, old plantation of coffee, excrement of goar [gaur (*Bos gaurus*)] 22.V.11, S. Saluk lgt, 3 specimens (CSR).

New for India.

Cryptopleurum crenatum Kugelann, 1794

MATERIAL. **Kazakhstan.** Almaty [region], Trans-Ili Alatau Range, Talgar River Canyon, at 43.2325° N 77.275° E, 1500 m, in horse excrement, 13 June 2021, [leg.] S.V. Saluk, 2 specimens (CSR).

New for Almaty region and Trans-Ili Alatau.

Cryptopleurum sulcatum Motschulsky, 1863

MATERIAL. **Vietnam.** N. Vietnam, Nin Binh province, Nho Quynh district, □ 10 km to SSW from Nin Binh town, foothills of the northern Annamite Mountains, SE part of Cuc Phuong National Park, near the park Headquarters at light, N 20°14'37.37", E 105°42'54.57", 13.IV.2012. leg. Dzhus M.A. 1 specimen (CSR).

First record for Nin Binh Province, second find for Vietnam.

Nippocercyon sichuanicus (Ryndevich, 2005)

MATERIAL. **China:** CH, Yunnan, NE Wexi City, 4.4 km ESE Rilidi, 27°18'15" N / 99°24'00" E, 10.VI.2015, h=3665 m, leg. Belousov, Kabak, Davidian, 1 specimen (CSR).

New for Yunnan.

Pachysternum apicatum Motschulsky, 1863.

MATERIAL. **Vietnam.** Vinh Phuc Province, Tam Dao National Park, 12.V.-15.V.2019, h=1001 m, N 21°27'10.1" E 105°38'53.3", FIT#2, A. Derunkov leg., 1 specimen (CSR). Thua Thien Hue Province, Sao La Nature Reserve, N 16°04'20.2", E 107°36'02.2", h=271 m, human excrement, 24.V.2023A. Derunkov leg., 18 specimens (CSR).

New for Vinh Phuc Province.

Pachysternum nigrovittatum Motschulsky, 1863

MATERIAL. **Vietnam.** Sev. V'etnam [Northern Vietnam], Khoan'o [Hoành Bồ, Quảng Ninh Province], 200 m, 22.I.1962, [leg.] Kabakov, 1 specimen (CSR); North Vietnam, Vinh Phuc Province, the Me Linh Station for Biodiversity at the border of Tam Dao National Park, 2.V.2016, at light, S.V. Saluk leg., 3 specimens (CSR). C Vietnam, Nghe An Province, near Con Cuong, Pu Mat National Park, excrement of *Bubalus bubalis bubalis*, 2.V.2025., leg. Ryndevich S., 1 specimen (CSR); V'etnam, Nghe An Province, Que Phong District, Pu Hoat Nature Reserve, Dong Van Commune, N 19°48'31.0" E 105°05'40.7", cow excrement, 7.V.2025. leg. Ryndevich S., 1 specimen (CSR).

New for Quảng Ninh and Vĩnh Phúc Provinces, and Pu Hoat Nature Reserve.

Peltocercyon lunulatus (Gemminger et Harold, 1868).

MATERIAL. **Vietnam.** C Vietnam, Nghe An Province, Que Phong District, Pu Hoat Nature Reserve, Dong Van

Commune, N 19°48'31.0" E 105°05'40.7", h=240 m, at light, 5.V.2025. leg. Ryndevich S., 4 specimens (CSR); same data but 7.V.2025, 3 specimens (CSR).

New for Nghe An Province.

tribe Sphaeridiini Latreille, 1802

Sphaeridium quinque maculatum Fabricius, 1798

MATERIAL. **India.** Madras, Manapakkam, in dung, 25.3.1992, leg. Saluk S.V., 1 specimen (CSR); SE India, Madras, Manapakkam, in dung, 1-15.VI.1998, leg. Saluk S.V., 3 specimens (CSR); Madras env., Manapakkam, 15.3.2000, leg. Saluk S.V., 2 specimens (CSR).

New for Madras state.

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