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NEW ADDITIONS TO THE FAUNA OF TIGER BEETLES (COLEOPTERA: CICINDELIDAE) OF VIETNAM

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Summary. Some new records of tiger beetle species from Vietnam are briefly discussed, including the first record of *Neocollyris (Leptocollyris) restricta* Naviaux, 2008 in the country and some new provincial records of the other species: eight in Thanh Hoa, three in Ha Tinh, two each in Quang Binh and Nghe An, and one each in Bac Giang, Quang Nam and Cao Bang. Measurements of second recently collected female of *Neocollyris (Paracollyris) brevipronotalis* (W. Horn, 1929) and the basic ratios of female *Pronyssa ingridae* Sawada et Wiesner, 1999 are given.

Key words: tiger beetles, fauna, new records, Southeast Asia.

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Резюме. Обсуждаются новые находки жуков скакунов фауны Вьетнама. *Neocollyris (Leptocollyris) restricta* Naviaux, 2008 впервые отмечен во Вьетнаме. Приведены первые находки отдельных видов для ряда провинций: Тханьхоа – восемь видов, Хатинь – три вида, Куангбинь и Нгеан – по два вида, Бакзян, Куангнам и Каобанг – по одному виду. Даны линейные размеры второй известной к настоящему времени самки *Neocollyris (Paracollyris) brevipronotalis* (W. Horn, 1929), а также основные пропорции тела самки *Pronyssa ingridae* Sawada et Wiesner, 1999.

INTRODUCTION

According to Wiesner *et al.* (2017), the fauna of tiger beetles (Coleoptera: Cicindelidae) of Vietnam currently includes 177 species. Further researches contributed 13 new species (Wiesner & Anichtchenko, 2018; Matalin, 2019, 2021, 2022a–b; Anichtchenko & Wiesner, 2022, 2023; Wiesner & Lien, 2023) and one new subspecies (Matalin & Wiesner, 2023) to the fauna, complemented by some new data obtained for distribution patterns of some species

(Matalin, 2020; Klichá & Wiesner, 2021; Dheurle, 2022; Wiesner, 2022; Matalin & Wiesner, 2023). Here we provide some new data on the geographic distribution of some species from Vietnam, taken just recently.

MATERIAL AND METHODS

The specimens used for this study are housed in the following public collections: the A.N. Severtsov Institute of Ecology and Evolution of Russian Academy of Sciences, Moscow, Russia (SIEE); the Moscow State Pedagogical University, Moscow, Russia (MSPU); the Siberian Zoological Museum, Novosibirsk, Russia (SZM).

All measurements were made using stereoscopic microscope Leica M165c (Carl Zeiss) with an ocular-micrometre: TL – total body length (from anterior margin of clypeus to elytral apices along the suture), HW – width of head (in widest place across the eyes), LL_T – length of labrum along midline, including apical teeth, $LL_{(T)}$ – length of labrum along midline without apical teeth, LW – maximum width of labrum, PL – length of pronotum along midline, PW – maximum width of pronotum at middle, PWb – maximum width of pronotal base; EL – length of elytra along suture (from base of scutellum to elytral apices), EW – maximum width of elytra.

For preparing slides the aedeagus was consistently stand in 10% KOH for 24 h., then in 4% acetic acid for 5 min., and afterwards in cold water for 5 min., followed by its preservation with Euparal (D~1.05) media.

Images of the habitus or its details were taken using a Canon EOS 40D camera with a MP-E 65 mm macro lens. Images of the aedeagus were taken with a Canon EOS 6D camera attached to a Carl Zeiss AXIO Scope.A1 microscope. All the images were processed using Zerene Stacker software.

LIST OF SPECIES

Neocollyris (Paracollyris) brevipronotalis (W. Horn, 1929)

Figs 1, 2

MATERIAL EXAMINED. **Vietnam:** Lao Cai Prov., 8 km NE of Sa Pa, road on Lao Cai, 22.37055°N 103.87350°E, 09.05.2013, 1♀, leg. A. Prosvirov (MSPU).

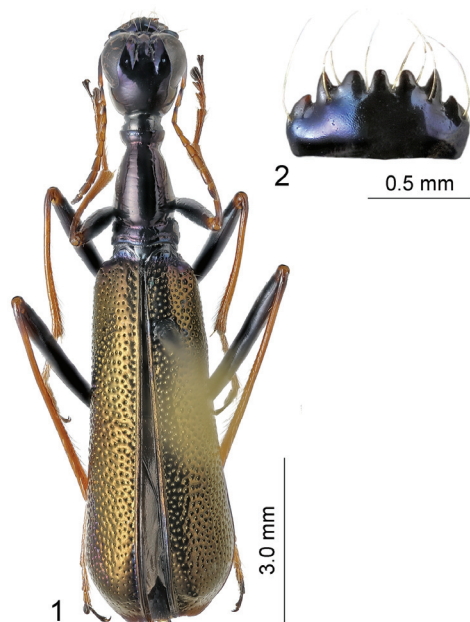
NOTES. Until now this species was known only on the type-specimen – female from Tonkin, Chapa (= *Sa Pa*) (Horn, 1929; Naviaux, 1994; Wiesner *et al.*, 2017). The main measurements of recently collected female are TL = 10.6 mm (11.0 mm in the holotype), HW = 1.5 mm, LL_T = 0.35, $LL_{(T)}$ = 0.25 mm, LW = 0.9 mm, PL = 2.1 mm, PW = 1.0 mm, PWb = 1.2 mm, EL = 6.8 mm, EW = 2.1 mm. Male still unknown. Naviaux (1994: 235) noted that *N. (P.) brevipronotalis* shared many characters with members of the subgenera *Neocollyris* W. Horn, 1901 and *Isocollyris* Naviaux, 1994, so that only its distinctive aedeagus allowed reliable identification.

Neocollyris (Leptocollyris) restricta Naviaux, 2008

Figs 5, 10, 15, 20

MATERIAL EXAMINED. **Vietnam:** Lao Cai Prov., forest near Sa Pa, h = 1358 m, 22.33286°N 103.84096°E, 22.04.2019, 1♂, leg. A. Prosvirov; Lao Cai Prov., 1 km W Tram Ton Mnt Pass, 22.37055°N 103.87350°E, 04.05.2019, 1♀, leg. A. Prosvirov; Lao Cai Prov., near Sa Pa, Cat Cat River, h = 1323 m, 22.33395°N 103.82281°E, 20.04.2019, 1♀, leg. A. Prosvirov; *ibid*, h = 1236 m, 22.333°N 103.84577°E, 08.05.2019, 1♀, leg. A. Prosvirov (all MSPU).

NOTES. This species was described based on a few specimens from Shan State in Myanmar and Chinese Province Yunnan (Naviaux, 2008). Among its allies from Vietnam that share a bicoloured labrum (Figs 8–12), *N. restricta* is recognizable well by the pronotum conical, with subrectilinear sides (Figs 5, 15 vs. Figs 3, 4, 6, 7, 13, 14, 16, 17), the aedeagus slender at base, with very short and straight endophallic flagellum (Fig. 20 vs. Figs 18, 19, 21, 22). This is the first record of the species in Vietnam.



Figs 1–2. *Neocollyris (Paracollyris) brevipronotalis*, female: 1 – habitus, dorsal view; 2 – labrum.

***Neocollyris (Leptocollyris) rogeri* Shook et Wu, 2006**

Figs 3, 8, 13, 18

MATERIAL EXAMINED. **Vietnam:** Nghe An Prov., Que Phong Distr., Pu Hoat National Park, 19°45'19''N 104°47'47''E, h = 840 m, 15–27.V.2019, 1♂, leg. D. Fedorenko (SIEE); same locality except 19°46'13''N 104°47'08''E, h = 1030 m; Quang Nam Prov., Nam Gian Distr., Song Thanh NP, h = 1050 m, 15°33'48''N 107°23'22''E, at light, 2♂, 23.IV–11.V.2019, leg. D. Fedorenko (SIEE, MSPU).

NOTES. This species was described from Chinese Province Yunnan (Shook & Wu, 2006) and then recorded in some provinces of northern Vietnam, as well as in Thua Thien-Hue Province, based on single female (Wiesner *et al.*, 2017). Here it is first recorded in the provinces Nghe An and Quang Nam.

***Neocollyris (s. str.) fuscitarsis* (Schmidt-Goebel, 1846)**

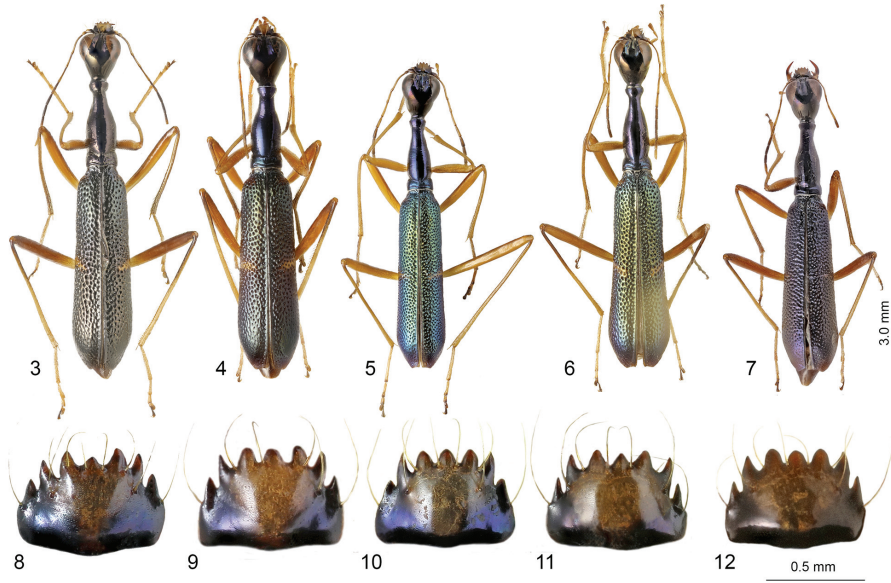
MATERIAL EXAMINED. **Vietnam:** Ha Tinh Prov., Kim Quang env., Vu Quang Natn. Park, h ~ 440 m, 18°16'26''N 105°21'41''E, 24.V–1.VI.2022, 1♂, leg. D. Fedorenko (SIEE).

NOTES. This is one of the most common and widespread species of the genus (Wiesner, 2020), known from the northernmost and in three southern Vietnamese provinces (Wiesner *et al.*, 2017). This is the first record of the species in central Vietnam.

***Neocollyris* (s. str.) *impressifrons* (Chaudoir, 1864)**

MATERIAL EXAMINED. **Vietnam:** Quang Binh Prov., Phong Nha-Ke Bang N.P., Bo Trach, h ~ 555 m, 17°26'24''N 106°13'59''E, 12–21.V.2022, 1♂, leg. D. Fedorenko (SIEE).

NOTES. This species was recorded in Cambodia without exact locality (Wiesner, 2022) and Vietnamese provinces, such as Dak Lak, Binh Phuoc and Kon Tum (Wiesner *et al.*, 2017; Wiesner, 2022). The new record extends the species range far northward.



Figs 3–12. *Neocollyris* (*Leptocollyris*) spp., males: 3–7 – habitus, dorsal view; 8–12 – labrum; 3, 8 – *N. (L.) rogeri*; 4, 9 – *N. (L.) discretegrossesculpta*; 5, 10 – *N. (L.) restricta*; 6, 11 – *N. (L.) linearis linearis*; 7, 12 – *N. (L.) gomii*, holotype.

***Neocollyris* (*Pachycollyris*) *strangulata* Naviaux, 1991**

MATERIAL EXAMINED. **Vietnam:** Ha Tinh Prov., Kim Quang env., Vu Quang Natn. Park, h ~ 440 m, 18°16'26''N 105°21'41''E, 24.V–1.VI.2022, 1♂, leg. D. Fedorenko (SIEE).

NOTES. This species has hitherto been known from nine northern (Ha Giang, Lao Cai, Vinh Phuc, Ha Noi City, Ninh Binh, Tuyen Quang, Thai Nguyen, Phu To, Hoa Binh) and one central (Quang Tri) provinces in Vietnam (Wiesner *et al.*, 2017). The record in Ha Tinh Province somewhat fills the gap between the northern and southern records with itself.

***Therates vietnamensis* Wiesner, 1988**

MATERIAL EXAMINED. **Vietnam:** Thanh Hoa Prov., Ban Vin env., Xuan Lien Natn. Park, h ~ 900 m, 19°58'45''N 104°58'13''E, 2–11.VI.2022, 4♂, 3♀, leg. D. Fedorenko

(SIEE); Ha Tinh Prov., Kim Quang env., Vu Quang Natn. Park, h ~ 440 m, 18°16'26''N 105°21'41''E, 24.V–1.VI.2022, 1♂, leg. D. Fedorenko (SIEE)

NOTES. The new two records are between that in Quang Binh and the others in the northern parts of the country (Wiesner *et al.*, 2017).



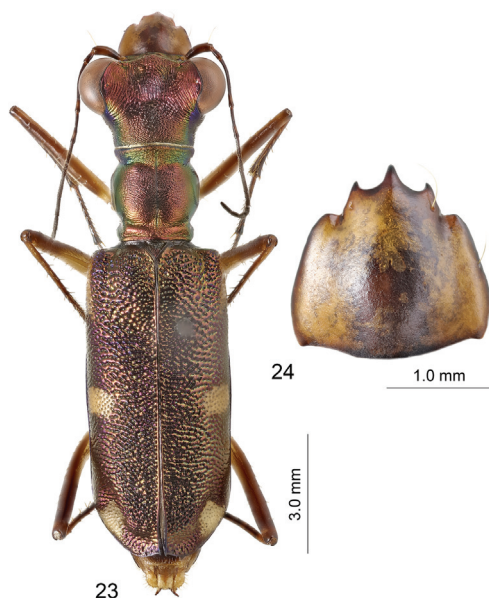
Figs 13–22. *Neocollyris (Leptocollyris)* spp., males: 13–17 – pronotum, dorsal view; 18–22 – aedeagus, left lateral view; 13, 18 – *N. (L.) rogeri*; 14, 19 – *N. (L.) discretegrossesculpta*; 15, 20 – *N. (L.) restricta*; 16, 21 – *N. (L.) linearis linearis*; 17, 22 – *N. (L.) gomii*, holotype.

***Pronyssa ingridae* Sawada et Wiesner, 1999**

Figs 23, 24

MATERIAL EXAMINED. **Vietnam:** Nghe An Prov., Que Phong Distr., Pu Hoat National Park, h = 1030 m, 19°45'13''N 104°47'08''E, 15–27.V.2019, 1♀, leg. D. Fedorenko (SIEE).

NOTES. This new record is the next to those in Ha Tinh Province, Vietnam (<https://carabidae.org/taxa/ingridae-sawada-wiesner-1999>), and Province Bolikhamxay, Laos (Sawada & Wiesner, 1999; 2002; Wiesner & Geiser, 2016; Wiesner, 2020). The following measurements and ratios of the female specimen made for the first time appear to be useful: TL = 12.7 mm, HW/PW = 1.65, $LL_T/LW = 0.98$, $LL_{(T)}/LW = 0.85$, PL/PW = 1.07, EL/EW = 2.22.



Figs 23–24. *Pronyssa ingridae*, female: 1 – habitus, dorsal view; 2 – labrum.

***Heptodonta pulchella* (Hope, 1831)**

MATERIAL EXAMINED. **Vietnam:** Thanh Hoa Prov., Ban Vin env., Xuan Lien Natn. Park, h ~ 900 m, 19°58'45''N 104°58'13''E, 2–11.VI.2022, 5♀, leg. D. Fedorenko (SIEE, MSPU); same locality except h ~ 750 m, 19°59'20''N 104°58'33''E, 2♂, 1♀ (SIEE).

NOTES. This widespread species ranges throughout Vietnam but Southeast and Mekong Delta (Wiesner *et al.*, 2017; Gorn, 2020; Matalin, 2020; Wiesner, 2020). In the Thanh Hoa Province *H. pulchella* is recorded for the first time.

***Cosmodela duponti* (Dejean, 1826)**

MATERIAL EXAMINED. **Vietnam:** Cao Bang Prov., Phia Oac Nat. Park, 22°37'N 105°54'E, 5–15.06.2019, 1♂, leg. A. Barkalov (SZM).

NOTES. This is one of the most common tiger beetle species in Vietnam but Mekong Delta (Wiesner *et al.*, 2017; Matalin, 2020; Wiesner, 2020; Klich & Wiesner, 2021), yet recorded in Cao Bang Province for the first time.

***Cosmodela juxtata* (Acciavatti et Pearson, 1989)**

MATERIAL EXAMINED. **Vietnam:** Thanh Hoa Prov., Ban Vin env., Xuan Lien Natn. Park, h ~ 900 m, 19°58'45''N 104°58'13''E, 2–11.VI.2022, 1♂, leg. D. Fedorenko (SIEE).

NOTES. This species is widespread in Southeast Asia. In Vietnam it is known chiefly from northern provinces, such as Bac Kan, Cao Bang, Hoa Binh, Lai Chau, Lang Son, Lao Cai, Thai Nguyen, Tuyen Quang and Vinh Phuc (Wiesner *et al.*, 2017; Wiesner, 2020), the only record from the southeasternmost Province Kien Giang (Horn, 1929) being not confirmed subsequently (Wiesner *et al.*, 2017). In Thanh Hoa Province, *C. juxtata* is recorded for the first time.

***Cosmodela horii* Wiesner et Lien, 2023**

MATERIAL EXAMINED. **Vietnam:** Bac Giang Prov., Song Dong distr., Thanh Son vill., 21°12'N 106°46'E, 21.V.2019, 1♀, leg. A. Barkalov (MSPU).

NOTES. This species was recorded under the name *Cosmodela separata* (Fleutiaux, 1896) in Vietnamese provinces Bac Kan, Lao Cai and Ha Giang (Wiesner *et al.*, 2017), and this latter species is currently known to be confined to eastern China only (Wiesner & Lien, 2023). *Cosmodela horii* was mentioned in the original description to occur also in Cao Bang Province (Wiesner & Lien, 2023) while in Bac Giang Province it is recorded for the first time.

***Cosmodela virgula* (Fleutiaux, 1893)**

MATERIAL EXAMINED. **Vietnam:** Thanh Hoa Prov., Ban Vin env., Xuan Lien Natn. Park, h ~ 900 m, 19°58'45''N 104°58'13''E, 2–11.VI.2022, 1♂, leg. D. Fedorenko (SIEE).

NOTES. Until now this species was known from all Northern Vietnamese Regions (Wiesner *et al.*, 2017; Matalin, 2020; Wiesner, 2020). Nevertheless, in Thanh Hoa Province *C. virgula* is recorded for the first time.

***Probstia triumphalis* (Horn, 1902)**

MATERIAL EXAMINED. **Vietnam:** Thanh Hoa Prov., Ban Vin env., Xuan Lien Natn. Park, h ~ 900 m, 19°58'45''N 104°58'13''E, 2–11.VI.2022, 6♂, 5♀, leg. D. Fedorenko (SIEE, MSPU).

NOTES. This species is known from northern Vietnamese Provinces Bac Giang, Hoa Binh, Lang Son, Lao Cai, Ninh Binh, Phu Tho and Vinh Phuc (Wiesner *et al.*, 2017). The record in Thanh Hoa Province is the first one for North Central Coast Region.

***Cylindera (Ifasina) decempunctata* (Dejean, 1825)**

MATERIAL EXAMINED. **Vietnam:** Thanh Hoa Prov.: Ban Vin env., Xuan Lien Natn. Park, h ~ 900 m, 19°58'45''N 104°58'13''E, 2–11.VI.2022, 3♀, leg. D. Fedorenko (SIEE).

NOTES. This species is predominantly northern in distribution, ranging from Pakistan to Vietnam. Its records in Vietnam are within northern provinces, such as Cao Bang and Phu Tho, and southern Province Lam Dong (Wiesner *et al.*, 2017; Wiesner, 2020); Thanh Hoa Province is a new provincial record for *C. decempunctata*.

***Cylindera (Ifasina) kaleea kaleea* (Bates, 1866)**

MATERIAL EXAMINED. **Vietnam:** Thanh Hoa Prov., Ban Vin env., Xuan Lien Natn. Park, h ~ 900 m, 19°58'45''N 104°58'13''E, 2–11.VI.2022, 5♂, 5♀, leg. D. Fedorenko; same locality except h ~ 750 m, 19°59'20''N 104°58'33''E, 5♂, 5♀ (all SIEE).

NOTES. This, widespread, Asiatic species occurs throughout northern Vietnam, including its regions: Northwest (Son La, Hoa Binh), Northeast (Bac Giang, Bac Kan, Cao Bang, Phu

Tho, Quang Ninh, Thai Nguyen, Tuyen Quang), Red River Delta (Vinh Phuc, Ha Noi City, Ninh Binh), and North Central Coast (Ha Tinh, Quang Binh) (Wiesner *et al.*, 2017; Wiesner, 2020). The record in Thanh Hoa Province is thus expectable.

***Lophyra (Spilodia) striolata striolata* (Illiger, 1800)**

MATERIAL EXAMINED. **Vietnam:** Quang Binh Prov., Phong Nha-Ke Bang N.P., Bo Trach, h ~ 400 m, 17°25'45''N 106°14'04''E, 12–21.V.2022, 1♂, leg. D. Fedorenko (SIEE).

NOTES. This subspecies has hitherto been known from six northern and four southern Vietnamese Provinces (Wiesner *et al.*, 2017; Wiesner, 2020). In the Central Coast Regions, *L. s. striolata* is recorded for the first time.

***Lophyra (Spilodia) striolata dorsolineolata* (Chevrolat, 1845)**

MATERIAL EXAMINED. **Vietnam:** Thanh Hoa Prov., Ban Vin env., Xuan Lien Natn. Park, h ~ 900 m, 19°58'45''N 104°58'13''E, 2–11.VI.2022, 2♂, leg. D. Fedorenko (SIEE).

NOTES. This subspecies is known from Northeast (Bac Kan, Bac Giang, Tuyen Quang, Thai Nguyen, Quang Ninh), Red River Delta (Vinh Phuc, Ninh Binh) and North Central Coast (Ha Tinh, Quang Binh, Thua Thien-Hue) Regions of Vietnam (Wiesner *et al.*, 2017; Wiesner, 2020). In the Province Thanh Hoa (North Central Coast Region), *L. s. dorsolineolata* is recorded for the first time.

CONCLUSION

To summarize, one tiger beetle species is first recorded in Vietnam and some other taxa, species or subspecies, are first recorded on a larger-scale, provincial, level. These new provinces include Thanh Hoa (eight species recorded), Ha Tinh (3), Quang Binh (2), Nghe An (2), Bac Giang (1), Quang Nam (1), and Cao Bang (1). Besides, *Neocollyris (Paracollyris) brevipronotalis* and *Pronyssa ingridae* are here provided with significant characteristics of female, these being main linear dimensions or basic proportions, respectively.

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