

NEW RECORDS OF TIGER BEETLES (COLEOPTERA: CICINDELIDAE)
FROM ASIA WITH THE REMARK ON SYNONYMY

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Summary. The new records of tiger beetles from different Asian regions are presented and discussed, including the first records of *Calochroa octogramma octogramma* (Chaudoir, 1852) and *Calomera durvillei* (Dejean, 1931) in Pakistan and Australia respectively, as well as some new provincial records of other species: five in Pakistani Khyber Pakhtunkhwa (former North West Frontier), three in Pakistani Gilgit-Baltistan (former Northern Territories), and one each in Vietnamese Kon Tum, Quang Nam and Cao Bang; Thai Chiang Mai, Mae Hong Son, Chiang Rai and Phang Nga; Laotian Luang Prabang and Vientiane as well as in Indonesian Islands Biak, Ternate and Waigeo and Australian Island Thursday. Additional data on the distribution of *C. obliquefasciata* in Primorsky Krai, Russia are presented. A synonymy is established: *Therates dimidiatus wallacei* Thomson, 1857 = *Therates dimidiatus punctipennis* Bates, 1878, **syn. n.**

Key words: tiger beetles, new records, new synonym, Russian Far East, Pakistan, Thailand, Laos, Vietnam, Malaysia, Indonesia, New Guinea, Australia.

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Резюме. Обсуждаются новые находки жуков скакунов из различных регионов Азии. *Calochroa octogramma octogramma* (Chaudoir, 1852) и *Calomera durvillei* (Dejean, 1931) впервые отмечены в Пакистана и Австралии, соответственно. Приведены первые находки отдельных видов для ряда провинций: Хайбер-Пахтунхва (Пакистан) – пять видов, Гилгит-Балтистан (Пакистан) – три вида, Контум, Куангнам и Каобанг (Вьетнам), Чиангмай, Мэхонгсон, Чианграй и Пхангнга (Таиланд), Луангпхабанг и Вьентьян (Лаос) – по одному виду, а также для индонезийских островов Биак, Тернате и Вайгео и австралийского острова Терсди – по одному виду. Представлены дополнительные данные о распространении *Cylindera obliquefasciata* в Приморском крае России. Установлена новая синонимия *Therates dimidiatus wallacei* Thomson, 1857 = *Therates dimidiatus punctipennis* Bates, 1878, **syn. n.**

INTRODUCTION

The fauna of Cicindelidae of Asia as a whole is the richest among all others. As of 2021, in Southeast Asia 685 species of tiger beetles were recorded (Pearson & Wiesner, 2022). At the same time in the period since 1992 to 2004 from Oriental Region 178 new species of tiger beetles were described, and this is more than from other regions of the World (Pearson & Cassola, 2005). Moreover, every year different species of tiger beetles are described or firstly recorded in the regions of different scale-level (Matalin, 2022, 2023; Matalin & Fedorenko, 2024). These data are very important to the understanding of the genesis of local and regional faunas, the predicting their changes and the preserving of rare species. In current paper some new data on the distribution of some species of tiger beetles in different Asiatic regions are presented and briefly discussed.

MATERIAL AND METHODS

The studied for this report specimens are kept in the following public and private collections: Moscow State Pedagogical University, Moscow, Russia (MSPU); A.N. Severtsov Institute of Ecology and Evolution of Russian Academy of Sciences, Moscow, Russia (SIEE); Siberian Zoological Museum, Novosibirsk, Russia (SZM); Zoological Institute of Russian Academy of Science, St.-Petersburg, Russia (ZIN); Alexander Napolov, Riga, RigaZoo, Latvia (AN); Artem Rubenyan, Moscow, Russia (AR); Yuri Skrylnik, Kharkov, Ukraine (YS).

Images of the habitus were taken using a Canon EOS 40D camera with a MP-E 65 mm macro lens. 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 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

Therates caligatus Bates, 1872

MATERIAL EXAMINED. **Indonesia:** Western New Guinea, Papua Province, Biak Island, 27.I 1995, 1♂, leg. I. Pljushtch (YS).

NOTES. Until now this species was known only from Waigeo, Misool and Supiori Islands (Brouerius van Nidek, 1959; Cassola, 1987; Wiesner, 1988, 1992, 2020; Matalin, 2013). The Biak Island is located side by side with the Supiori Island and a new record of *T. caligatus* here is not strange.

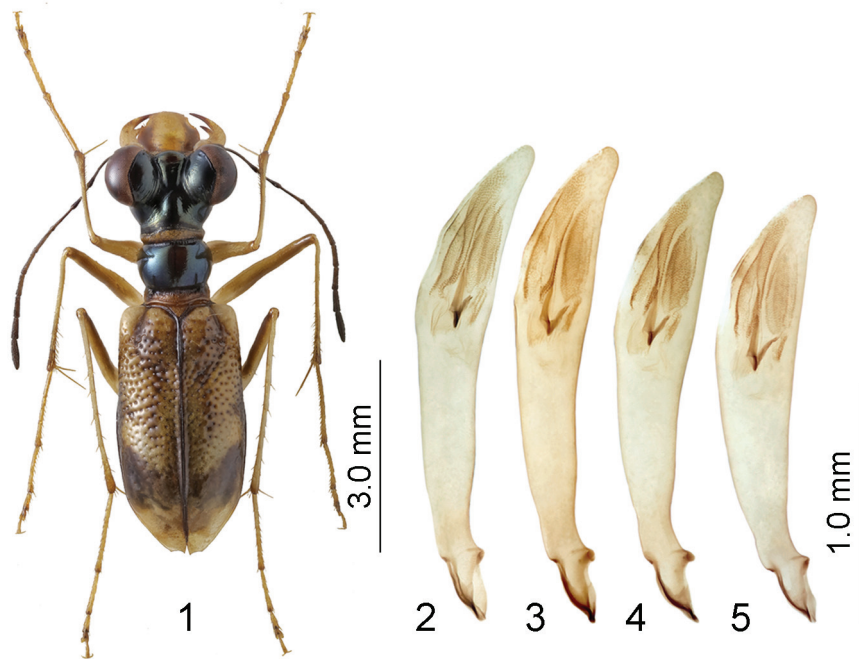
Therates reissmanni Wiesner, 2024

Figs 1–5

MATERIAL EXAMINED. **Vietnam:** Gia Lai Prov., 40 km NEE of Pleiku, Kon Ka Kinh Nat. Park, 14°32'57"N 108°19'19"E, h = 1200 m, 9–21.V 2016, 1♂, leg. D. Fedorenko (MSPU); Gia Lai Prov., ~ 50 km N of An Khe, Kon Chu Rang Nat. Reserve, 14°30'–31'N 108°32'E, h = 1000–1040 m, 24.V–2.VI 2016, 1♂, leg. D. Fedorenko (MPU); Kon Tum Prov., Kon Plong Distr., env. Ngok Boc I Mnt., 14°45'N 108°18'10"E, h = 1100–1200 m,

8–23.IX 2015, 7♂ 3♀, leg. D. Fedorenko (MSPU); Quang Nam Prov., Nam Gian Distr., Song Thanh NP, h = 1050 m, 15°33'48''N 107°23'22''E, at light, 23.IV–11.V 2016, 2♂, leg. D. Fedorenko; *ibid*, 25.IV–10.V.2019, 14♂, 19♀, leg. D. Fedorenko (MSPU, SIEE).

NOTES. This species was described from environs of Ploi Lagri village in Chu Pah District, Gia Lai Province (Wiesner, 2024). From other species of "*chennelli*-group" it's clearly distinguished by the shape of the aedeagus (Figs 2–5). According to additional data the length of the aedeagus is 1.8–2.0 mm. In the Provinces Kon Tum and Quang Nam *T. reissmanni* is recorded for the first time. Based on numerous additionally collected specimens this species is not rare there.



Figs 1–5. *Therates reissmanni*, males (Kon Tum Province, Ngok Boc I Mnt.): 1 – habitus, dorsal view; 2–5 – variability of the aedeagus, left lateral view.

***Therates rugosoangustatus* W. Horn, 1929**

MATERIAL EXAMINED. **Vietnam:** Cao Bang Prov., Phia Oac – Phia Den Nat. Park, E slope of Phia Oac Mt., 40 km E of Cao Bang, 22°38'27''N 105°52'00''E, 1800–1900 m, 28.V–5.VI 2019, 1♀, leg. L.N. Anisyutkin & A.V. Abramov (ZIN).

NOTES. This Vietnamese endemic was described according to a male from Sa Pa, Lao Cai Province (Horn, 1929). Latter a single female was found in Vinh Phuc Province (Wiesner *et al.*, 2017), and a single male was collected in Ha Giang Province (Wiesner *et al.*, 2024). In Cao Bang Province *T. rugosoangustatus* is recorded for the first time.

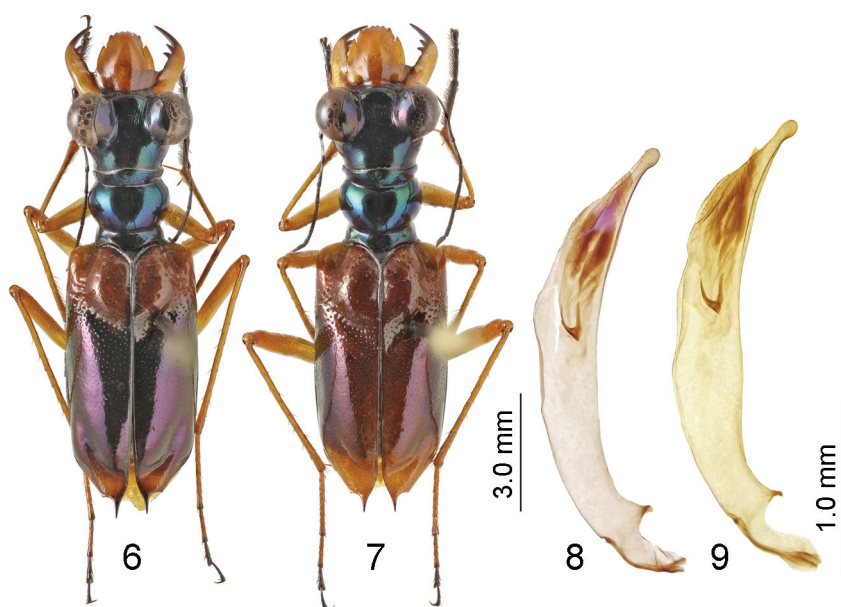
***Therates dimidiatus wallacei* Thomson, 1857**

Figs 6–9

MATERIAL EXAMINED. **Malaysia:** N Borneo, Sabah, Keningau Dist., Trus Madi Mt., h ~ 975 m, 23–29.IV 2006, 3♂ *T. dimidiatus wallacei* (Figs 6, 8), *T. dimidiatus punctipennis* 1♂, 1♀ (Figs 7, 9), leg. P. Udovichenko (MSPU).

REFERENCES. **Malaysia:** Borneo, Kina Balu (= Kinabalu Mt.), 1♂ *T. dimidiatus wallacei*, 1♀ *T. dimidiatus punctipennis* (Wiesner, 1988).

NOTES. Both *T. wallacei* Thomson, 1875 and *T. punctipennis* Bates, 1878 were described from Borneo. Later Horn (1905, 1915, 1926), Cassola (1985) and Wiesner (1988) considered them as the subspecies of *T. dimidiatus* Dejean, 1825 described from Java. It should be noted two these subspecies were recorded in the same localities at least twain (see above). However, two forms of the same species cannot live together. Moreover, the shape of the aedeagus in these taxa is virtually the same (Figs 8, 9). Thus, a new synonymy is established: *Therates dimidiatus wallacei* Thomson, 1857 = *Therates dimidiatus punctipennis* Bates, 1878, **syn. n.**



Figs 6–9. *Therates dimidiatus*, males: 6, 8 – *T. dimidiatus wallacei*; 7, 9 – *T. dimidiatus punctipennis*; 6, 7 – habitus, dorsal view; 8, 9 – aedeagus, left lateral view.

***Calomera pardecemguttata* Moravec, Dheurle, Schüle et Wiesner, 2025**

MATERIAL EXAMINED. **Indonesia:** Ternate Ins., 2♂, 3♀, Dr. Fischer (ZIN).

NOTES. Until now the most records of *C. pardecemguttata* were wrongly treated to related *C. decemguttata* (F.) which really inhabits Ceram, Ambon and Banda Islands, as well

as the Kai Islands and the Aru Islands. The distribution area of *C. pardecemguttata* covers the Sulawesi as well as some smaller Maluku islands as Buton, Selayar, Sangir, Peleng, Talaud, Mangoli, Halmahera, Tidore, Obi, Bacan, Gebe (Moravec et al., 2025). Thus, a new record of *C. pardecemguttata* on Ternate Island neighbouring with Tidore Island is not unexpected.

***Calomera durvillei* (Dejean, 1931)**

MATERIAL EXAMINED. **Indonesia:** Western New Guinea, Southwest Papua Province, Waigeo Island, 3♂, 1♀ (ZIN); **Australia:** Thursday Island, 1902, 1♂ (ZIN).

NOTES. According to recent data *C. durvillei* inhabits western part of Indonesia, spreading through Irian Jaya to Papua New Guinea, to the Bismarck Archipelago: New Britain, New Ireland, Duke of York, Gardner and Nusa Islands (Moravec et al., 2025), as well as to the D'Entrecasteaux Islands: Fergusson Island, and Trobriand Islands: Kiriwina Island (Wiesner, 2020). A record in Waigeo Island is the westernmost while a record in Thursday Island is the southernmost for this species. Moreover, in Australia *C. durvillei* is recorded for the first time.

***Calomera plumigera macrograptina* (Acciavatti et Pearson, 1989)**

MATERIAL EXAMINED. **Pakistan:** Khyber Pakhtunkhwa Province, Zulam Station nv., near Huzifa Masjid, 34°45'42.9''N 71°48'18.7''E, 16.VII .2024, 1♀, leg A. Rubenyan (AR).

NOTES. Until now this subspecies was known in Pakistan only from Punjab Province (Acciavatti & Pearson 1989; Rafi et al., 2010). In Khyber Pakhtunkhwa Province (former North West Frontier Province) *C. plumigera macrograptina* is recorded for the first time.

***Calochroa interruptofasciata lamaoensis* Naviaux, 1991**

MATERIAL EXAMINED. **Thailand:** Chiang Mai Province, 100 km N Chiang Mai, Chiang Dao Hill Resort, 19°33'29''N 99°04'33''E, h = 550 m, 12–14.VI 2017, 2♂, 1♀, leg. A. Napolov (MSPU, AN); Chiang Mai Province, 100 km N Chiang Mai, Chiang Dao Hill Resort, 19°33'29''N 99°04'33''E, h = 494 m, 15.VI 2017, 1♂, leg. A. Prosvirov (MSPU).

NOTES. This subspecies was known as an endemic of Thai Province Tak (Naviaux, 1991; Naviaux & Pinratana, 2004; Matalin, 2015). In Chiang Mai Province bordering with Tak Province *C. interruptofasciata lamaoensis* is recorded for the first time.

***Calochroa octogramma octogramma* (Chaudoir, 1852)**

MATERIAL EXAMINED. **Pakistan:** Khyber Pakhtunkhwa Province, Mansehra Distr., near Shohal Mazullah, at light, 34°29'39.8''N 73°21'33.9''E, 08.VII 2024, 1♀, leg A. Rubenyan (MSPU).

NOTES. This subspecies is distributed in northern Indian States (Himachal Pradesh, Uttarakhand, Bihar, Jharkhand, West Bengal and Assam), Nepal, northern Myanmar and Chinese Province Yunnan (Acciavatti & Pearson, 1989; Pearson et al., 2020; Wiesner, 2020). In Pakistan *C. octogramma* is recorded for the first time.

***Calochroa shozoi* Naviaux et Sawada, 1989**

MATERIAL EXAMINED. Thailand: Chiang Rai Prov., Wiang Pa Pao, 3♂, leg. local collector; Mae Hong Son Prov., Amphoe Pai distr., 85 km NW Chiang Mai, Pai env., Mae Yen Waterfall Hiking Trail, 19°21'41.1"N, 98°27'42.6"E – 19°22'10.7"N, 98°29'44.0"E, h~550 m, 21–22.VI 2017, 1♀, leg. A. Prosvirov (both MSPU).

NOTES. Until now this Thai endemic was known only from Chiang Mai Province (Naviaux, & Sawada, 1989; Naviaux, 1991; Naviaux & Pinratana, 2004). The new records of *C. shozoi* in neighbouring Mae Hong Son and Chiang Rai Provinces really expand its distribution area.

***Lophyra* (s. str.) *cancellata cancellata* (Dejean, 1825)**

MATERIAL EXAMINED. Laos: Loungphrabang [= *Luang Prabang*] Province, env. Of Loungphrabang, h = 262 m, 19°58'30"N 102°08'33"E, 19.IV 2015, 1♂, leg. I. Melnik (MSPU).

NOTES. This widespread subspecies is known in India (Maharashtra, Karnataka, Kerala and Tamil Nadu States), Sri Lanka (North Western and North Central Provinces), Bangladesh, China (Fujian, Hainan, Jiangxi and Yunnan Provinces), Myanmar (Kachin State), Thailand (Mae Hong Son, Chiang Mai, Kamphaeng Phet, Phitsanulok, Nakhon Sawan, Mukdahan, Ubon Ratchathani, Saraburi, Kanchanaburi, Phetchaburi, Prachuap Kiri Khan, Phatthalung and Trang Provinces), Laos, Vietnam (Ha Noi City and Ho Chi Minh City, as well as Nghe An and Kon Tum Provinces), Cambodia (without exact Province) and Malaysia (Malacca Peninsula) (Wiesner, 2020). In Laos it was found in Phongsaly, Vientiane, Khammuane, Bokeo, Xayabury and Savannakhet Provinces (Wiesner & Geiser, 2016). In Luang Prabang Province *L. c. cancellata* is recorded for the first time.

***Cylindera* (s. str.) *obliquefasciata* (Adams, 1817)**

MATERIAL EXAMINED. Russia: Primorsky Krai, Khasansky District, former mining camp Gusevsky, 02.VIII 2011, 2♂, 4♀, leg. A.V. Korshunov (MSPU, SZM); Primorsky Krai, Khasansky District, Land of the Leopard National Park, ~ 12.5 km WNW Barabash vill., cordon Ovchinnikovo, 43°13'56"N 131°21'23"E, h~110, at light, 12.VIII 2020, 1♂, leg. K. Makarov & A. Matalin (MSPU).

NOTES. In Russian Far East this species was found for the first time in 2008 on the south of Primorsky Krai (Bezborodov *et al.*, 2008), and later it was recorded in Sakhalin Island (Matalin, 2013). Until now in Primorsky Krai *C. obliquefasciata* was exclusively known in two localities within Khasansky district: 8 km N of Zarubino vill., 28.VII 2006 (Bezborodov *et al.*, 2008) and Gamova peninsula, Vityaz' vill., 02.VIII 2018 (Komarov, 2018). The new localities are also placed in Khasansky district and are the northernmost for *C. obliquefasciata* within the mainland of the Russian Far East.

***Cylindera* (*Eugrapha*) *bigemina* (Klug, 1834)**

MATERIAL EXAMINED. Pakistan: Gilgit-Baltistan Province, Astor Distr., near Astor, 35°21'42.9"N 74°49'39.7"E, 11.VII 2024, 1♂, 3♀, leg A. Rubenyan (MSPU, AR).

NOTES. Until now this species was known in Pakistan from Sind, Punjab and Northwestern Frontier Provinces (Rafi *et al.*, 2010). In Gilgit-Baltistan Province (former Northern Territories) *C. bigemina* is recorded for the first time.

***Cylindera (Eugrapha) mutata* (Fleutiaux, 1893)**

MATERIAL EXAMINED. **Laos:** Vientiane Prov., 130–140 km NNW of Ban Chiang vill., 400 m, 19.12011°N 102.19188°E, 28.VI 2017, 1♂, leg. A.V. Gorohov (ZIN).

NOTES. This species is distributed from Myanmar through Thailand, Laos and southern China (Yunnan) to Vietnam and Cambodia (Wiesner, 2020). In Laos *C. mutata* was found in Phongsaly, Oudomxay, Luangprabang, Xayabury (= *Sainyabuli*), Houaphanh, Borikhamxay and Khammuane Provinces (Wiesner & Geiser, 2016) while in Vientiane Province it is recorded for the first time.

***Cylindera (Eugrapha) sublacerata sublacerata* (Solsky, 1874)**

MATERIAL EXAMINED. **Pakistan:** Khyber Pakhtunkhwa Prov., near Gahirat Castle, 35°39'53.3"N 71°45'19.4"E, 17.VII 2024, 1♀, leg A. Rubenyan (AR).

NOTES. The nominotypical subspecies is known in Pakistan only from Gilgit-Baltistan Province (former Northern Territories) (Rafi *et al.*, 2010). In Khyber Pakhtunkhwa Province (former North West Frontier Province) it is recorded for the first time.

***Cylindera (Eugrapha) venosa* (Kollar, 1836)**

MATERIAL EXAMINED. **Pakistan:** Khyber Pakhtunkhwa Prov., near Gahirat Castle, 35°39'53.3"N 71°45'19.4"E, 17.VII 2024, 5♂, 3♀, leg A. Rubenyan (AR).

NOTES. This species was recorded in Pakistani States Sind, Punjab and Azad Kashmir (Rafi *et al.*, 2010). In Khyber Pakhtunkhwa Province (former North West Frontier Province) *C. venosa* is recorded for the first time.

***Cylindera (Eriodera) albopunctata* (Chaudoir, 1852)**

MATERIAL EXAMINED. **Pakistan:** Khyber Pakhtunkhwa Province, Mansehra Distr., near Shohal Mazullah, 34°29'39.8"N 73°21'33.9"E, 08.VII 2024, 2♀, leg A. Rubenyan (MSPU).

NOTES. This species was recorded in Pakistani North West Frontier Province (now Khyber Pakhtunkhwa Province) for the first time 15 years ago (Rafi *et al.*, 2010). A new record is the second one within Pakistan.

***Cylindera (Ifasina) subtilesignata* (Mandl, 1970)**

MATERIAL EXAMINED. **Pakistan:** Gilgit-Baltistan Province (former Northern Territories), Astor Distr., near Astor, 35°21'42.9"N 74°49'39.7"E, 11.VII 2024, 1♀, leg A. Rubenyan (MSPU).

NOTES. In Pakistan this species was recorded only in North West Frontier Province (modern Khyber Pakhtunkhwa Province) (Cassola, 2010; Rafi *et al.*, 2010). In Gilgit-Baltistan Province (former Northern Territories) *C. subtilesignata* is recorded for the first time.

***Hypaetha biramosa* (Fabricius, 1781)**

MATERIAL EXAMINED. **Thailand:** Phang Nga Prov., Ko Yao Noi Island, 17.VI–7.VII 2017, 2♂, leg. A. Khaidarov & I. Malykh (MSPU).

NOTES. Until now this widespread species was found only in four southern Thai Provinces: Ranong, Phuket, Krabi and Trang (Naviaux, 1991; Naviaux & Pinratana, 2004). However, in Phang Nga Province *H. biramosa* is recorded for the first time. Both recorded males have reduced white elytral pattern presented by very narrow humeral and apical lunules connected by very thin lateral band as well as by very small central spot.

***Myriochila* (s. str.) *melancholica melancholica* (Fabricius, 1798)**

MATERIAL EXAMINED. **Pakistan:** Gilgit-Baltistan Province, Gilgit Distr., near Jaglot, 35°39'51.2"N 74°37'07.2"E, 11.VII 2024, 3♀, leg A. Rubenyan (AR).

NOTES. This most common species of *Myriochila* is found in Pakistani States Sind and Punjab (Rafi *et al.*, 2010). A new record in Gilgit-Baltistan Province (former Northern Territories) is the northernmost locality within Pakistan.

CONCLUSION

To summarize, one tiger beetle species is first recorded in Pakistan and one tiger beetle species is first recorded in Australia, as well as some other species or subspecies are first recorded on a larger-scale, provincial, level and on separate islands. These new provinces include Pakistani Khyber Pakhtunkhwa, former North West Frontier (five species recorded) and Gilgit-Baltistan, former Northern Territories (3), Vietnamese Kon Tum (1), Quang Nam (1) and Cao Bang (1), Thai Chiang Mai (1), Mae Hong Son (1), Chiang Rai (1) and Phang Nga (1), Laotian Luang Prabang (1) and Vientiane (1). The new islands include Indonesian Biak (1), Ternate (1) and Waigeo (1) as well as Australian Thursday (1). Moreover, additional data on the distribution of *C. obliquefasciata* in Primorsky Krai, Russia are presented. At last, a new synonymy *Therates dimidiatus wallacei* Thomson, 1857 = *Therates dimidiatus punctipennis* Bates, 1878, **syn. n.** is established as well.

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