

NEW DATA (FOR 2020) ON THE DISTRIBUTION OF SPECIES FROM THE GENUS *CARPELIMUS* LEACH, 1819 (COLEOPTERA: STAPHYLINIDAE: OXYTELINAE) IN THE ORIENTAL REGION

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Gildenkov M. Yu.

Smolensk State University (Smolensk, Russian Federation)

Abstract. New data on the distribution of species from the genus *Carpelimus* Leach, 1819 in the Oriental Region for 2020 are presented. *Carpelimus* (s. str.) *politus politus* (Kiesenwetter, 1850) is recorded for the first time from the Oriental Region, the Jiangxi province in China. *Carpelimus* (s. str.) *raptius* Gildenkov, 2019 is recorded for the first time from Vietnam. *Carpelimus* (s. str.) *papuensis* (Fauvel, 1879), *Carpelimus* (*Trogophloeus*) *pseudosimplex* Gildenkov, 2013 and *Carpelimus* (*Trogophloeus*) *simplex* (Motschulsky, 1857) are recorded for the first time from Cambodia. *Carpelimus* (s. str.) *praelongus* (Bernhauer, 1938) is recorded for the first time from Thailand. *Carpelimus* (*Trogophloeus*) *plenus* Gildenkov, 2019 is recorded for the first time from Malaysia (Borneo) and Indonesia (Sulawesi). *Carpelimus* (*Trogophloeus*) *geminus* Gildenkov, 2018 is recorded for the first time from India, the province of W Bengal. *Carpelimus* (*Trogophloeus*) *coriaceus* (Cameron, 1930) is recorded for the first time from the south of India, the province of Tamil Nadu. *Carpelimus* (*Trogophloeus*) *magnicollis* Gildenkov, 2014, *Carpelimus* (*Trogophloeus*) *taprobanae* (Walker, 1859) and *Carpelimus* (*Trogophloeus*) *vagans* (Cameron, 1930) are recorded for the first time for the central part of India, the province of Madhya Pradesh. *Carpelimus* (s. str.) *communius* Gildenkov, 2019 is recorded for the first time from China, the Yunnan province. *Carpelimus* (s. str.) *angusticollis* (Bernhauer, 1907), *Carpelimus* (s. str.) *indicus indicus* (Kraatz, 1859) and *Carpelimus* (*Troginus*) *atomus* (Saulcy, 1864) are recorded for the first time from the Chinese province of Jiangxi; *Carpelimus* (*Trogophloeus*) *paripalitans* Gildenkov, 2013 is recorded for the first time from the provinces of Jiangxi and Guangdong; *Carpelimus* (*Bucephalinus*) *formosae* (Cameron, 1940) is recorded for the first time from for the province of Hainan. *Carpelimus* (*Troginus*) *exiguus* (Erichson, 1839) is reliably recorded for the Oriental Region from China, the Yunnan province.

Keywords: Coleoptera; Staphylinidae; Oxytelinae; *Carpelimus* Leach, 1819; the Oriental Region; distribution; first records of species in certain areas.

НОВЫЕ ДАННЫЕ (НА 2020 ГОД) О РАСПРОСТРАНЕНИИ ПРЕДСТАВИТЕЛЕЙ РОДА *CARPELIMUS* LEACH, 1819 (COLEOPTERA: STAPHYLINIDAE: OXYTELINAE) В ВОСТОЧНОЙ БИОГЕОГРАФИЧЕСКОЙ ОБЛАСТИ

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Гильденков М.Ю.

Смоленский государственный университет (г. Смоленск, Российская Федерация)

Аннотация. Приводятся новые данные о распространении представителей рода *Carpelimus* Leach, 1819 в Восточной области на 2020 год. Впервые для Восточной области, из провинции Jiangxi в Китае, указывается *Carpelimus* (s. str.) *politus politus* (Kiesenwetter, 1850). Впервые для Вьетнама указывается *Carpelimus* (s. str.) *raptius* Gildenkov, 2019. Впервые для Камбоджи указываются *Carpelimus* (s. str.) *papuensis* (Fauvel, 1879), *Carpelimus* (*Trogophloeus*) *pseudosimplex* Gildenkov, 2013 и *Carpelimus* (*Trogophloeus*) *simplex* (Motschulsky, 1857). Впервые для Таиланда указывается *Carpelimus* (s. str.) *praelongus* (Bernhauer, 1938). Впервые для Малайзии (Борнео) и Индонезии (Сулавеси) указывается *Carpelimus* (*Trogophloeus*) *plenus* Gildenkov, 2019. Впервые для Индии, из провинции W Bengal, указывается *Carpelimus* (*Trogophloeus*) *geminus* Gildenkov, 2018. Впервые для юга Индии, из провинции Tamil Nadu, указывается *Carpelimus* (*Trogophloeus*) *coriaceus* (Cameron, 1930). Впервые для центральной части Индии, из провинции Madhya Pradesh, указываются *Carpelimus* (*Trogophloeus*) *magnicollis* Gildenkov, 2014, *Carpelimus* (*Trogophloeus*) *taprobanae* (Walker, 1859) и *Carpelimus* (*Trogophloeus*) *vagans* (Cameron, 1930). Впервые для Китая, из провинции Yunnan, указывается *Carpelimus* (s. str.) *communius* Gildenkov, 2019. В Китае, для провинции Jiangxi, впервые указываются *Carpelimus* (s. str.) *angusticollis* (Bernhauer, 1907), *Carpelimus* (s. str.) *indicus indicus* (Kraatz, 1859) и *Carpelimus* (*Troginus*) *atomus* (Saulcy, 1864); для провинций Jiangxi и Guangdong впервые указывается *Carpelimus* (*Trogophloeus*) *paripalitans* Gildenkov, 2013; для провинции Hainan впервые указывается *Carpelimus* (*Bucephalinus*) *formosae* (Cameron, 1940). Из Китая, провинции Yunnan, для Восточной области достоверно указывается *Carpelimus* (*Troginus*) *exiguus* (Erichson, 1839).

Ключевые слова: Coleoptera; Staphylinidae; Oxytelinae; *Carpelimus* Leach, 1819; Oriental Region; распространение; первые указания видов для определенных территорий.

Introduction

Beetles of the genus *Carpelimus* are numerous inhabitants of the shores of various water bodies that play a significant role in ecosystems. The faunas of *Carpelimus*

of the Palaearctic and Tropical Africa have been sufficiently studied [1], recently only a few species have been described [2–5]. The fauna of *Carpelimus* in the Oriental Region has been studied somewhat less [1], but signifi-

cant efforts made in recent years to understand it [6–14] have significantly improved the situation. The vast material studied by us allowed at one time [1] to analyze and most adequately reflect the distribution of *Carpelimus* throughout the Old World, and then, on the basis of new material, to replenish this information [15–21]. However, it is natural that data on the distribution of *Carpelimus*, including Oriental Region, remain incomplete to this day. The paper presents the results of the study of materials from 3 museums and 2 private collections, which make it possible to expand knowledge about the distribution of 17 species and 2 nominative subspecies of *Carpelimus* in the Oriental Region.

Material and methods

This paper is based on the specimens deposited in the following collections: cMG – private collection of Mikhail Gildenkov (Smolensk, Russia); cMSch – private collection of Michael Schülke (Berlin, Germany); HNHM – Hungarian Natural History Museum (Budapest, Hungary); MHNG – Muséum d'Histoire Naturelle Geneva (Switzerland); NMPC – National Museum of Natural History (Prague, Czech Republic). The labels using the Latin alphabet are cited verbatim, with vertical bars “|” marking the ends of lines. In the present study, standard methods were used for the taxonomic research of insects; the preparations were made on an MBS-10 binocular microscope. The genital preparations were processed using 10% KOH and then fixed in euparal.

Results and discussion

Carpelimus (s. str.) *angusticollis* (Bernhauer, 1907)

= *Trogophloeus* (*Boopinus*) *sharpianus* Cameron, 1933.

Material. 3♂♂, 1♀, 1 ex. “CHINA: Jiangxi prov. [MF08] Jinggangshan Mts., Xiangzhou (forested valley S of the village) 26°35.5'N, 114°16.0'E, 374 m 26.iv.2011; Fikáček & Hájek” “at light on the bridge above the slowly flowing stony river” (NMPC); 1♂ – cMG); 1♀ “CHINA: Jiangxi prov., 25+27.iv.2011 Jinggang Shan Mts. Luofu vill. (at light) 26°39.7'N, 114°135'E, 310 m | M. Fikáček & J. Hájek leg.” (NMPC).

Remarks. The species is described [22, p. 373] from Japan (Honchu). In addition to Japan, it is known to us [1, p. 65; 15, p. 28, 30] from China, the Guizhou and Hong Kong provinces. The species was recently recorded for South Korea [23, p. 205]. It is recorded for the first time from Jiangxi Province in China.

Carpelimus (s. str.) *communius* Gildenkov, 2019

Material. 1♀ “CHINA, Yunnan, Mengla, Bubang, around field station of XTBG, at light (400W)” “695 m, 21°36'05.0"N 101°34'50.0"E, 26.VII.2017, leg. D. Rédei & J.F. Tsai” (HNHM).

Remarks. A little-known species close to *Carpelimus* (s. str.) *planicollis* (Bernhauer, 1902). Described [9, p. 22] from northern Vietnam (Nordosten region, Tuyén Quang province), southern Thailand (northern Chumphon province), and Malaysia (Perak state, Malacca peninsula). The species is recorded for the first time from China (Yunnan).

Carpelimus (s. str.) *indicus indicus* (Kraatz, 1859)

= *Xerophygyus flavipes* Motschulsky, 1861
= *Trogophloeus ceylonicus* Bernhauer, 1902
= *Trogophloeus kreyenbergi* Bernhauer, 1928

Material. 1 ex. “CHINA: Jiangxi prov. [MF08] Jinggangshan Mts., Xiangzhou (forested valley S of the village) 26°35.5'N, 114°16.0'E, 374 m 26.iv.2011; Fikáček & Hájek” “at light on the bridge above the slowly flowing stony river” (NMPC).

Remarks. The species is described from India (lectotype) and Sri Lanka [24, p. 179]. It is known to us [1, p. 91; 15, p. 28, 30; 25, p. 370] from the Palaearctic (Pakistan, Japan, China) and the Australian Region. However, this species is most widespread in the Oriental Region and known to us [1, p. 91] from: Andaman Islands, Vietnam, India, Indonesia (Lombok, Molucca isl., Borneo, Sumatra, Java, Bali, Sulawesi, Sumba, Sumbawa), Cambodia, Laos, Malaysia (Selangor, Pahang, Sabah, Sarawak), Myanmar, Nepal, Thailand, Taiwan, Philippines (Boracay, Leyte, Luzon, Mindanao, Mindoro, Negros, Palawan, Panay, Samar), Sri Lanka, Japan (Okinawa). For China, including the Palaearctic part, It is known to us [1, p. 96; 15, p. 28, 30] from the following provinces: Sichuan, Shaanxi, Shandong, Chongqing, Fujian, Guangdong, Guizhou, Guangxi, Hainan, Hong Kong, Hunan, Jiangsu, Yunnan, Zhejiang. In the Palaearctic catalog [26, p. 781], it is also recorded from the Beijing province. The species is recorded for the first time from Jiangxi province.

Carpelimus (s. str.) *papuensis* (Fauvel, 1879)

Material. 1♂ “CAMBODIA, Mondolkiri Pr., Seima Biodiv. Cons. Area, road between Seima and O'Rang,” “300 m, at light, 12°12'12N, 107°01'09E, 30.I.2006, G. Csorba, L. Duval & G. Ronkay” (HNHM).

Remarks. Little known, but quite widespread species, described from the island of New Guinea, from Indonesia [27, p. 81] and also known to us from Papua New Guinea [25, p. 373]. In the Oriental Region it was known [1, p. 127] from Indonesia (Borneo, Java, Bali, Sumbawa, Lombok), India, Laos, Malaysia (Pahang), Philippines (Palawan), Singapore, Thailand, Vietnam and China (Guangdong, Hong Kong). The last record for the Oriental Region was from China, Yunnan province [19, p. 32]. The species is recorded for the first time from Cambodia.

Carpelimus (s. str.) *politus politus* (Kiesenwetter, 1850)

Material. 1♂ “CHINA: Jiangxi prov. [MF08] Jinggangshan Mts., Xiangzhou (forested valley S of the village) 26°35.5'N, 114°16.0'E, 374 m 26.iv.2011; Fikáček & Hájek” “at light on the bridge above the slowly flowing stony river” (NMPC).

Remarks. The species is described [28, p. 221] from northeastern Spain (Gerona) and was known only from the Palaearctic [1, p. 139; 18, p. 56; 29, p. 184], including China [1, p. 139; 15, p. 31], from Liaoning, Sichuan and Shandong provinces. In the Palaearctic catalog [26, p. 782], for China, it is also recorded from the Qinghai province. The species is recorded for the first time from Oriental Region, Jiangxi Province in China.

Carpelimus (s. str.) *praelongus*

(Bernhauer, 1938)

Material. 1♂ “24.VI 1995 Thai Chiang Rai: Ban Tha Don” “leg. et coll. W.G. Ullrich MNHG-1996” (MHNG).

Remarks. The species is described from China, Fujian province [30, p. 20]. Until now, it was known in China [1, p. 142; 15, p. 28, 31] not only from the Oriental Region (Chongqing, Fujian, Hong Kong, Jiangsu, Yunnan, Zhejiang), but also from the Palaearctic part (Shaanxi, Sichuan). It is also known [1, p. 143] from Taiwan, from Vietnam and Indonesia (Sumatra, Bali). The species is recorded for the first time from Thailand (the northernmost province of Chiang Rai).

Carpelimus (s. str.) *raptius*

Gildenkov, 2019

Material. 1♂ “Vietnam, Na Hang District, env. of Na Hang 09.06.2008, leg. O. Blinov” (cMG).

Remarks. A little-known species close to *Carpelimus* (s. str.) *planicollis* (Bernhauer, 1902), described [9, p. 23] from Nepal (Narayani and Koshi). The species is recorded for the first time from Vietnam (Nordosten region, Tuyên Quang province).

Carpelimus (*Bucephalinus*) *formosae*

(Cameron, 1940)

Material. 1 ex. “CHINA: Hainan isl. [MF18] Limumshan Mts., 5.v.2011 19°9.1–9.2'N 109°45–46'E 550–750 m; along the road | Fikáček & Zhao lgt.” “sifting of moist to wet leaf litter along the streams in the secondary forests with bamboo” (NMPC); 1♂, 1 ex. “CHINA: Hainan isl. [MF23] Bawangling Nat. Forest Park 12.3 km SEE of Baotie 19°5.20'N 109°11.80'E 1050 m, 8.v.2011; Fikáček” “sifting: moist accumulations of leaf litter along a stream in a primary forest” (NMPC).

Remarks. Little known species, described from Taiwan [31, p. 249]. Apart from Taiwan, it was known to us from Japan (Ryukyu isl.), China (Hong Kong) [1, p. 171; 15, p. 27, 30] as well as from the northern Thailand [19, p. 33]. The record in the Palaearctic catalog for the Hebei province [26, p. 781] requires confirmation. The species is recorded for the first time from the Hainan province.

Carpelimus (*Troginus*) *atomus*

(Saulcy, 1864)

= *Trogophloeus discolor* Baudi di Selve, 1870
= *Trogophloeus* (*Troginus*) *formosanus* Cameron, 1940
= *Trogophloeus variegatus* Cameron, 1944
= *Trogophloeus ruandanus* Cameron, 1956
= *Trogophloeus* (*Paraboopinus*) *travei* Coiffait, 1982
= *Trogophloeus atomarius* Coiffait, 1983
= *Carpelimus maroccanus* Gildenkov, 2004

Material. 4 ex. “CHINA: Jiangxi prov. [MF08] Jinggangshan Mts., Xiangzhou (forested valley S of the village) 26°35.5'N, 114°16.0'E, 374 m 26.iv.2011; Fikáček & Hájek” “at light on the bridge above the slowly flowing stony river” (NMPC).

Remarks. The most widespread species in the genus *Carpelimus*, described from Egypt [32, p. 658]. It is known to us from numerous regions of Tropical Africa and the Oriental Region [1, p. 206]. The species is well known for the Palaearctic from North Africa [1, p. 206]; for other regions of the Palaearctic and the Australian Region, it is less known [1, p. 206; 15, p. 29, 31; 18, Samara Journal of Science. 2021. Vol. 10, iss. 1

p. 57; 25, p. 375]. For China, including the Palaearctic part, it is known to us [1, p. 207; 15, p. 29, 31] from the following provinces: Beijing, Hebei, Sichuan, Shaanxi, Shandong, Chongqing, Guangdong, Guizhou, Hong Kong, Hubei, Hunan, Jiangsu, Yunnan, Zhejiang... In the Palaearctic catalog [26, p. 784], it is also recorded from the Fujian province. The species is recorded for the first time from Jiangxi Province.

Carpelimus (*Troginus*) *exiguus*

(Erichson, 1839)

= *Trogophloeus aberrans* Rosenhauer, 1856
= *Trogophloeus glabricollis* Motschulsky, 1860
= *Trogophloeus* (*Troginus*) *luteicornis* Mulsant & Rey, 1878

Material. 1♂ “CHINA: Yunnan, Dali Bai Aut Pref., Mǎo Jiao Shan, W pass, 56 km NE Dali, 25°55'12" N, 100°39'18" E, 2362 m, creek valley, washed from gravel bank, under stones, 4.IX.2009, leg. M. Schülke [CH09–27]” (cMSch).

Remarks. The species is described from Germany [33, p. 604], widespread in Europe, that is noted in the Palaearctic catalog [26, p. 784]. From Europe [1, p. 228; 18, p. 57; 20, p. 61; 21, p. 16] it is well known to us (Austria, Albania, Armenia, Belarus, Bulgaria, Germany, Greece, Georgia, Spain, Italy, Moldova, Russia (northern, central and southern territories of the European part), Romania, Ukraine, France, Czech Republic). We also know it [1, p. 228] from Turkey, Central Asia (Kazakhstan, Kyrgyzstan, Tajikistan), Siberia (Krasnoyarsk Territory, Irkutsk Region), the Far East of Russia (Primorsky province, Sakhalin Island) and from Mongolia [34, p. 285]. Confirmation requires the record of this species in the Palaearctic catalog [26, p. 784] for the northeastern provinces of China (Heilongjiang, Jilin, Liaoning) and Japan, since they may refer to *C. atomus*, well known to us [1, p. 207] from Japan, North Korea, and other northeastern provinces of China (Beijing, Hebei, Shaanxi, Shandong); also known from South Korea [23, p. 209]. We believe that the records in the Palaearctic catalog [26, p. 784] of *C. exiguus* for North Africa, India, Nepal, and Pakistan are erroneous, which is confirmed by numerous identifying labels “*exiguus*” for *C. atomus* specimens in old collections [1, p. 206]. The species is reliably indicated for the Oriental Region (China, Yunnan). The studied male has a much denser shagreening of the elytra than the specimens from Europe and Asia known to us.

Carpelimus (*Trogophloeus*) *coriaceus*

(Cameron, 1930)

Material. 1♀ “INDIA 45 Madras Coimbatore 440 m. 22-XI-72 | Besuchet Löbl Mussard” (MHNG).

Remarks. A little-known species difficult to identify [1, p. 265], described from northern India, from the state of Uttarakhand [35, p. 190]. It was known to us from the type material from the central part of India, the state of Madhya Pradesh [1, p. 265]. The species is recorded for the first time from southern India (Tamil Nadu).

Carpelimus (*Trogophloeus*) *geminus*

Gildenkov, 2018

Material. 1♂ “INDIA W Bengal Darjeeling distr. Teesta-Rangpo 350m 12.X.78 | Besuchet Löbl” (MHNG); 3♀♀, 1 ex. “INDIA W Bengal Darjeeling distr. Sevoke 200m 7.X. | Besuchet–Löbl 78” (MHNG);

1 ex. – cMG); 1♀ “INDIA W Bengal Darjeeling distr. Teesta-Rangpo 350m | Besuchet–Löbl 12.X.78” (MHNG).

Remarks. It is described from the eastern part of Nepal [6, p. 137], from India (W Bengal) the species is recorded for the first time.

Carpelimus (Trogophloeus) magnicollis

Gildenkova, 2014

Material. 1♂, 2♀♀ “INDIA: Madhya Pradesh #1a Mahadeo Hills, 4,5km SW Pachmarhi, Vanshree Vihar 22°26'34"N; 78°23'25"E 950m, 16.x.2000, Cuccodoro” “sifting #1a flood debris stream” (MHNG; 1♀ – cMG).

Remarks. It is described from India [36, p. 303], it was known from the east (Orissa), south (Kerala, Tamil Nadu), and southwest (Karnataka, Goa). The species is recorded from central India (Madhya Pradesh) for the first time.

Carpelimus (Trogophloeus) paripalitanus

Gildenkova, 2013

Material. 1♂ “CHINA: Jiangxi prov., 28.iv.2011 Jिंगgang Shan Mts. Huyangta (fen, stream) 26°29.9'N, 114°07.3'E, 1490 m | M. Fikáček & J. Hájek leg.” (NMPC); 2♀♀ “CHINA, Guangdong prov. Danxia Shan NP, 23.iv.2013 (garden: atlight) 25°02.4'N, 113°45.0'E, 100 m | J. Hájek & J. Růžička leg.” (NMPC).

Remarks. The species is described [37, p. 180] from Vietnam (holotype), China (Guizhou and Hong Kong), Cambodia, Thailand, Malaysia (Pahang), and Indonesia (Borneo). It is also known to us [1, p. 325] from Nepal, Taiwan and Japan (Ryukyu isl.). It was first recorded for the Palaearctic, from South Korea [23, p. 209]. The species is recorded from Chinese provinces Jiangxi and Guangdong for the first time.

Carpelimus (Trogophloeus) plenus

Gildenkova, 2019

Material. 1♂, Borneo “SARAWAK R. Skrang 18.IV.81 / Rougemont” (cMG); 1♂ “N-SULAWESI 1992 W Bitauana, Kotamobagu-Gorontalo (18), leg. Schödl 23.IV.” (cMG).

Remarks. The species is described [8, p. 33] from the Philippines (Luzon). It is recorded from Malaysia (Borneo) and Indonesia (Sulawesi) for the first time.

Carpelimus (Trogophloeus) pseudosimplex

Gildenkova, 2013

Material. 1♀ “CAMBODIA Sihanoukville, 5 m 1-13.I.2009 Leg. S & M. Murzin” “Museum für Naturkunde Berlin | Sammlung M. Schülke” (cMSch).

Remarks. It is described [38, p. 233] from Malaysia (Pahang, holotype), Vietnam, India, Indonesia (Java, Sulawesi), China (Hong Kong), Thailand, Taiwan, Philippines (Luzon), Sri Lanka, and New Caledonia. The species is recorded for the first time [1, p. 334] from Myanmar and Japan (Ryukyu isl.) and also from Cambodia.

Carpelimus (Trogophloeus) simplex

(Motschulsky, 1857)

Material. 1♀ “CAMBODIA Sihanoukville, 5 m 1-13.I.2009 Leg. S & M. Murzin” “Museum für Naturkunde Berlin | Sammlung M. Schülke” (cMSch).

Remarks. A little-known species difficult to identify [1, p. 346], described from the eastern India [39, p. 505]. It was known to us [1, p. 346] from the eastern India (W Bengal) and Myanmar. The species is recorded from the first time from Cambodia.

Carpelimus (Trogophloeus) taprobanae

(Walker, 1859)

= *Trogophloeus ruficornis* Cameron, 1930

Material. 31 ex. “INDIA: Madhya Pradesh #1a Mahadeo Hills, 4,5km SW Pachmarhi, Vanshree Vihar 22°26'34"N; 78°23'25"E 950m, 16.x.2000, Cuccodoro” “sifting #1a flood debris stream” (MHNG).

Remarks. Little known species difficult to identify, described from Sri Lanka [40, p. 52]. It is known [1, p. 355] from Sri Lanka and India. It was known from the northeastern (W. Bengal, Meghalaya), eastern (Orissa), southern (Kerala, Tamil Nadu) and southwestern (Goa) India. The species is recorded for the first time from central India (Madhya Pradesh).

Carpelimus (Trogophloeus) vagans

(Cameron, 1930)

Material. 1♂ “INDIA: Madhya Pradesh #1a Mahadeo Hills, 4,5km SW Pachmarhi, Vanshree Vihar 22°26'34"N; 78°23'25"E 950m, 16.x.2000, Cuccodoro” “sifting #1a flood debris stream” (MHNG).

Remarks. Little known species difficult to identify, described from the northern India [35, p. 198], Uttarakhand state. In the Palaearctic catalog [26, p. 787] it is also recorded for Nepal. The record for West Pakistan [41, p. 123] requires confirmation. It was known to us by the type material from the state of Uttar Pradesh [1, p. 363]. The species is recorded for the first time from central India (Madhya Pradesh).

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Information about the author(-s):	Информация об авторе(-ах):
Gildenkov Mikhail Yurievich , doctor of biological sciences, professor, head of Ecology and Chemistry Department; Smolensk State University (Smolensk, Russian Federation). E-mail: mgildenkov@mail.ru.	Гильденков Михаил Юрьевич , доктор биологических наук, профессор, заведующий кафедрой экологии и химии; Смоленский государственный университет (г. Смоленск, Российская Федерация). E-mail: mgildenkov@mail.ru.

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