

Lissodema plagiatum Lewis (Coleoptera: Salpingidae) New to Korea, with a Key to Korean Species of the Family Salpingidae Leach

Seung-Gyu Lee and Yoon-Ho Kim^{1*}

Division of Forest Biodiversity, Korea National Arboretum, Pocheon 11186, Korea

¹Department of Biology, Chungnam National University, Daejeon 34134, Korea

네무늬구멍씩덩벌레붙이의 국내 첫 보고

이승규 · 김윤호^{1*}국립수목원 산림생물다양성연구과, ¹다산이생물자원연구소

ABSTRACT: *Lissodema plagiatum* Lewis is newly recorded and *L. laevipennis* Marseul is removed from the Korean fauna. A habitus photograph and taxonomic note of the newly recorded species are provided, with a key to Korea species of the family Salpingidae Leach.

Key words: Coleoptera, Salpingidae, *Lissodema laevipennis*, *Lissodema plagiatum*, Korea

초록: 한국산 미기록 종인 네무늬구멍씩덩벌레붙이(*Lissodema plagiatum* Lewis) (신칭)를 한반도에서 처음으로 보고하고, *Lissodema laevipennis* Marseul의 한국 기록을 삭제한다. 한국산 썩덩벌레붙이과에 대한 종 검색표와 미기록 종에 대한 사진과 분류학적 의견을 제시한다.

검색어: 딱정벌레목, 썩덩벌레붙이과, 네무늬구멍씩덩벌레붙이, 한국

The genus *Lissodema* Curtis, 1833 includes 32 species worldwide with 20 Palearctic species (Pollock and Löbl, 2008; Hallan, 2010; Lee and Lim, 2019). In East Asia, 14 and three species are distributed in Japan and in Russian Far East, respectively (Pollock and Löbl 2008), and *Lissodema dolsandoensis* Lee and Lim, 2019 is the only species recorded in the Korean Peninsula by Lee and Lim (2019).

While working on Korean Salpingidae, we recognized that *Lissodema laevipennis* Marseul, 1876 previously recorded by Kim (2018) was a misidentification of *Lissodema plagiatum* Lewis, 1895 after detailed examination of the specimens. Therefore, *L. laevipennis* is removed from the Korean fauna and *L. plagiatum* is added to the Korean fauna in this study. We

provided a habitus photograph and taxonomic notes of the species, with a key to Korea species of the family Salpingidae Leach.

Material Examined

All specimens of *Lissodema* species used in Kim (2018) were re-examined in this study, and one of them is deposited in the National Institute of Biological Resources (NIBR), Incheon, Korea (specimen number YYSSIN0000015417).

Taxonomic Accounts

Genus *Lissodema* Curtis, 1833 구멍씩덩벌레붙이속 (신칭)

Lissodema Curtis, 1833: 187 (type species: *Lissodema heyana* Curtis, 1833 = *Salpingus cursor* Gyllenhal, 1813)

*Corresponding author: dosirak09@naver.com

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Spinolissodema Pic, 1919: 3 (type species: *Spinolissodema unifasciata* Pic, 1919).

Stenolissodema Desbrochers des Loges, 1900: 6 (type species: *Salpingus lituratus* Costa, 1847).

Chilopeltis Seidlitz, 1916: 424 (type species: *Chilopeltis insculpta* Seidlitz, 1916).

Lissodema plagiatum Lewis, 1895 네무늬구멍씩덩벌레붙이 (산칭) (Fig. 1)

Lissodema plagiatum Lewis, 1895: 255; Pollock and Löbl, 2008: 419; Iablokoff-khnzorian, 2008: 212.

Lissodema (Lissodema) plagiatum: Sasaji, 1988: 31.

Chilopeltis laevipennis: Kim, 2018: 23 (misidentification).

Description. See Iablokoff-khnzorian (2008) and Kim (2018) for detailed redescription and diagnostic characters.

Material examined. 1 ♀, KOREA: Jeongnam Prov., Namwon-si, Ayeong-myeon, Inpung-ri, 19 v 2009, JG Lee, YH Kim, on logs; 4 ♀ ♀, KOREA: Gyeongnam Prov., Hapcheon-gun, Gaya-myeon, Mt. Gayasan, 15 vii-05 viii 2016, JW Lee, wetland.

Distribution. Korea (new record), Japan and Russian Far East.

Remarks. This species is recorded for the first time in Korea. They are omitted here because detailed redescription and illustrations of diagnostic characters of this species were provided in previous studies (Sasaji, 1988; Iablokoff-khnzorian, 2008; Kim, 2018).

Species removed from the Korean fauna

Lissodema laevipennis Marseul, 1876

Lissodema laevipennis Marseul, 1876: 331; Iablokoff-khnzorian, 2008: 212.

Chilopeltis laevipennis: Seidlitz, 1916: 353; Pollock and Löbl 2008: 418.

Platylissodema laevipennis: Blair, 1919: 118.

Lissodema (Chilopeltis) laevipennis: Sasaji, 1988: 31.

Distribution. Japan.

Remarks. This species had been placed as a species of the genus *Chilopeltis* Seidlitz, but the genus was synonymized

under the genus *Lissodema* Curtis by Iablokoff-khnzorian (2008).

The Korean record of this species by Kim (2018) is an incorrect identification of *Lissodema plagiatum* Lewis. *Lissodema laevipennis* can be distinguished from *L. plagiatum* by characters of elytra without punctate-striate and shape of pronotum. The species is currently reported only in Japan, but is most likely to be distributed in Korea because of a widely distributed species in Japanese Archipelago.

Key to Korean species of the family Salpingidae Leach (modified Kim, 2018)

1. Procoxal cavity narrowly open behind; meso- and metacoxal cavities moderately to widely separated; elytra without punctate-striate (genus *Elacatis*) 2
- Procoxal cavity widely open behind; meso- and metacoxal cavities contiguous to narrowly separated; elytra with punctate-striate 3



Fig. 1. Habitus of *Lissodema plagiatum*, female (3.2 mm).

2. Body length 3.5-7.5 mm; antennae distinctly longer than head width; pronotum distinctly wider than head
 *Elacatis kraatzii*
- Body length 2.7-4.8 mm; antennae about as long as head width; pronotum about as wide as head *E. ocularis*
3. Head without distinct rostrum; lateral margins of pronotum with ridge or denticle; elytra with maculation (genus *Lissodema*) 4
- Head with distinct rostrum; lateral margins of pronotum without ridge or denticle; elytra without maculation
 *Salpingus depressifrons*
4. Body length less than 2.0 mm; antennomere 10 slightly transverse; pronotum transverse, with distinct ridge
 *Lissodema dolsandoensis*
- Body length more than 2.5 mm; antennomere 10 distinctly elongate; pronotum about as wide as long, with relatively indistinct ridge *L. plagiatum*

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이승규 : 국립수목원, 박사후연구원; 논문작성

김윤호 : 다산이생물자원연구소, 대표; 실험설계 및 논문 작성

모든 저자는 원고를 읽고 투고에 동의하였음.

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