

A Taxonomic Study of the Tribe Pinophilini (Coleoptera, Staphylinidae) in Korea

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ABSTRACT

A taxonomic study of the tribe Pinophilini is presented. Three species are recognized, two of which are recorded for the first time in Korea (*Pinophilus lewisius* Sharp and *P. rufipennis* Sharp). The genus *Pinophilus* Gravenhorst is new to Korea.

Key words: taxonomy, Coleoptera, Staphylinidae, Paederinae, Korea

INTRODUCTION

The tribe Pinophilini of subfamily Paederinae is characterized by the fourth maxillary palpomere as long as the third, hatchet-shaped (securiform), and with its apex oblique (fusiform), the basal fourth tarsomere of the protarsi are extremely widened in both sexes (Cameron, 1931; Adachi, 1955). This tribe consists of two subtribe Pinophilina and Procirrina, in which each other is separated by the former's abdomen bordered but the latter not bordered.

In Korea, the only one species, *Oedichirus lewisius* Sharp, was recorded until now (Yuh *et al.*, 1985). Two species, *Pinophilus lewisius* Sharp and *P. rufipennis* Sharp are newly recorded in Korea through this study. A key and drawings of genitalia of them are provided herein.

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RESULTS

Key to the species of the tribe Pinophilini in Korea

1. Abdomen with lateral margin, each segment with 1-2 pairs of lateral sclerites separating tergites and sternum (subtribe Pinophilina) 2
- Abdomen without lateral margin, each segment consisting of a complete ring, without lateral sclerites (subtribe Procirrina) *Oedichirus lewisius*
2. Pronotum clearly longer than width; elytra black *Pinophilus lewisius*
- Pronotum as long as width; elytra red except basal area *Pinophilus rufipennis*

Tribe Pinophilini 수중다리반날개족

Subtribe Pinophilina Nordmann, 1837 수중다리반날개아족 (신칭)

Genus *Pinophilus* Gravenhorst, 1802 수중다리반날개속 (신칭)

1. *Pinophilus lewisius* Sharp, 1874 수중다리반날개 (신칭) (Fig. 1: 1, 2)

Pinophilus lewisius Sharp, 1874, p. 77; Sharp, 1889, p. 324; Adachi, 1955, p. 13; Adachi, 1957, p. 190; Shibata, 1977, p. 17; Watanabe, 1985, p. 281.

Materials examined. 1ex. Chungchongnam-do, Kongju-shi, Mt. Kyeryongsan, Kapsa Temple, VII. 11, 1986, Y. B. Cho coll.; 1ex. Taejon-shi, Mt. Kyejoksan, X. 1, 1995, Y. B. Cho coll.; 1ex. Kyoungsangbuk-do, Mungyong-shi, Mungyongsaejae Provincial Park, Sangcho-ri, V. 29, 1996, Y. B. Cho coll.

Diagnosis. Body length 8.0-8.5 mm, color piceous, maxillary palps, legs, and antenna reddish

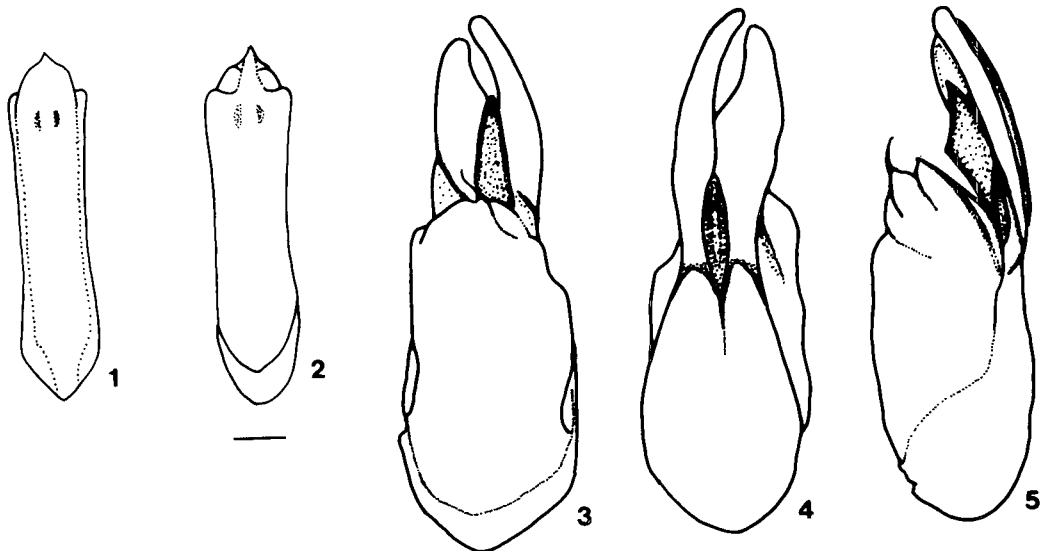


Fig. 1. Median lobe. *Pinophilus lewisius* Sharp: 1, dorsal view; 2, ventral view. *Pinophilus rufipennis* Sharp: 3, dorsal view; 4, ventral view; 5, lateral view. scale: 0.25 mm.

brown. Head much narrower than the pronotum, coarsely but not densely punctured, the frontal area impunctate. Pronotum broader than the elytra, rather broader than length, very convex transversely, coarsely and rather closely punctured, with pubescences fine and short. Elytra somewhat longer than pronotum, with punctuation as coarse as pronotum, pubescences larger and compact than pronotum. Abdomen closely and finely punctured. Femur of pro-legs enlarged.

Male genitalia (Fig. 1: 1, 2): Median lobe elongate, with lateral margin from subapex to basal area, very flat dorsal-ventrally, the tip pointed.

Distribution. Korea, Japan, Taiwan.

2. *Pinophilus rufipennis* Sharp, 1874 홍딱지수중다리반날개 (신칭) (Fig. 1: 3-5)

Pinophilus rufipennis Sharp, 1874, p. 78; Adachi, 1955, p. 13; Adachi, 1957, p. 190; Shibata, 1977, p. 18; Watanabe, 1985, p. 281.

Materials examined. 1ex. Chuju-do, Sogwipo-shi, Donnaeko, III. 27, 1985, K. S. Lee coll.; 4exs. Sogwipo-shi, VII. 10, 1985, K. S. Lee coll.; 1ex. Sogwipo-shi, VI. 15, 1985, K. S. Lee coll.; 1ex. Sogwipo-shi, VII. 27, 1985, K. S. Lee coll.; 1ex. Kyoungsangbuk-do, Andong-shi, Nokjeon-myun, VII. 10, 1986, K. S. Lee coll.

Diagnosis. Body length 10.5–12 mm, color piceous but elytra red (except 1/3 from anterior area), maxillary palps, legs, and antenna reddish brown. Head narrower than pronotum, coarsely punctured. Pronotum as long as width, rather coarsely and closely punctured. Elytra longer than pronotum, closely and deeply punctured as pronotum. Abdomen finely and closely punctured with pubescences, posterior margin of 6th segment, 7th and 8th segments red. Femur of pro-legs enlarged.

Male genitalia (Fig. 1: 3-5): Median lobe well sclerotized and short, the tip of dorsal area with one setae. Paramere broad and with two lobes, each other asymmetrical.

Distribution. Korea, Japan, China.

Subtribe Procirrina Bernhauer and Schubert, 1912 어리게미반날개아족

Genus *Oedichirus* Erichson, 1840 어리게미반날개속

3. *Oedichirus lewisius* Sharp, 1874 어리게미반날개

Oedichirus lewisius Sharp 1874, p. 76; Sharp, 1889, p. 324; Adachi, 1955, p. 14; Adachi, 1957, p. 189; Shibata, 1977, p. 22; Watanabe, 1985, p. 281; Yuh, *et al.*, 1985, p. 235.

Diagnosis. Body length 6.9–7.5 mm, color reddish brown but head, elytra, and 7–8th segments of abdomen piceous. Head as wide as pronotum, with a few coarse punctures. Pronotum narrowing to posterior, each side of middle with irregular longitudinal series of six or seven coarse punctures, and three or four other coarse punctures on each side. Elytra as long as pronotum.

Remark. I did not have any opportunity to examine this species, but cite Yuh *et al.* (1985). The diagnosis of this species is modified from Sharp (1874) and Adachi (1955).

Distribution. Korea, Japan.

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한국산 수중다리반날개족(딱정벌레목, 반날개과)의 분류

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요 약

한국산 수중다리반날개족에 대한 분류학적 재검토를 수행하였다. 본 조사를 통해 *Pinophilus lewisius* Sharp와 *P. rufipennis* Sharp가 한국미기록종으로 밝혀졌다. 한국산 수중다리반날개족은 2속 3종이 된다.