

New Records of Six Staphylinid Species (Coleoptera: Staphylinidae) from Coastal Habitats in Northeastern Russia¹

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Abstract Examination of staphylinid specimens (Coleoptera: Staphylinidae) deposited in the Chungnam National University Insect Collection (Daejeon, Republic of Korea) yielded 6 species previously unreported from northeastern Russia. All 6 were collected from coastal environs and included *Adota magnipennis* (Bernhauer), *Atheta ririkoae* Sawada, *A. tokiokai* (Sawada), *Cafius histrio* (Sharp), *Halorhadinus inaequalis* Sawada, and *Medon prolixus* (Sharp). A taxonomic key to the 16 genera found in that area of Russia is offered along with a preliminary checklist of 21 species in these 16 genera.

Key Words rove beetles, coastal Staphylinidae, Russia, taxonomic key, species checklist

Frank and Ahn (unpubl. data) have previously recorded 15 species representing 11 genera of staphylinid beetles (Coleoptera: Staphylinidae) inhabiting seashore environs in northeastern Russia. Examination of coastal staphylinids deposited in the Chungnam National University Insect Collection (CNUIC, Daejeon, Republic of Korea) yielded 5 additional genera including 6 species that were not previously reported from Russia. All were collected under plant debris including seaweeds in the high tide region. Herein, we document *Adota magnipennis* (Bernhauer), *Atheta ririkoae* Sawada, *A. tokiokai* (Sawada), *Cafius histrio* (Sharp), *Halorhadinus inaequalis* Sawada, and *Medon prolixus* (Sharp) as new records for the Russian fauna. We also provide a key to 16 genera of coastal-inhabiting staphylinids along with a preliminary checklist of the species of coastal staphylinids of northeastern Russia.

List of New Records of the Coastal Staphylinidae in Northeastern Russia

Habitus illustrations are presented in Fig. 1 with a distribution map in Fig. 2.

***Adota magnipennis* (Bernhauer)** Specimen examined. 1 (CNUIC), Sakhalin, Yuzhno-Sakhalinsk, Okhotskoye, N46°51'129.16" E143°09'49.74", 5m, 17 VII 2008 TK Kim, under seaweeds

Distribution. Russia (Far East), Korea, Japan

***Atheta ririkoae* Sawada** Specimens examined. 4 (CNUIC), RUSSIA: Primorsky Krai, Khasansky district, Kedrovyy, N43°01'17.0" E131°33'36.7", 22 VI 2008, JG Lee, TK Kim, under seaweeds

Distribution. Russia (Far East), Korea, Japan

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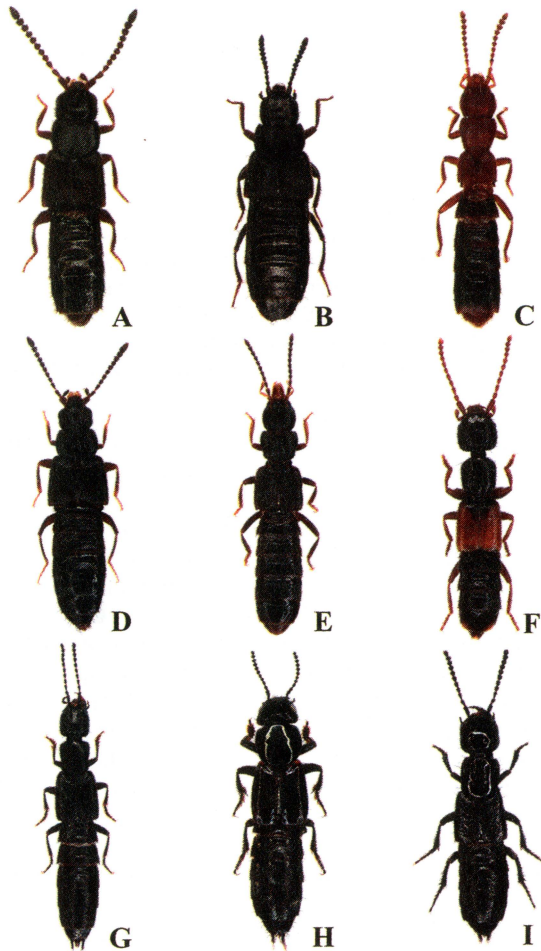


Fig. 1. Habitus: (A) *Adota magnipennis*, 2.2 mm; (B) *Aleochara (Emplenota) puetzi*, 4.6 mm; (C) *Amblopusa magna*, 4.8 mm; (D) *Atheta tokiokai*, 3.2 mm; (E) *Halorhadinus inaequalis*, 4.5 mm; (F) *Medon prolixus*, 4.4 mm; (G) *Cafius histrio*, 9.1 mm; (H) *Liusus humeralis*, 14.2 mm; (I) *Philonthus nudus*, 7.8 mm.

***Atheta tokiokai* (Sawada)** Specimens examined. 8 (CNUIC), RUSSIA: Primorsky Krai, Khasansky district, Kedrovyy, N43°01'17.0" E131°33'36.7", 5m, 22 VI 2008, JG Lee, TK Kim, under seaweeds

Distribution. Russia (Far East), Korea, Japan

***Cafius histrio* (Sharp)** Specimens examined. 4 (CNUIC), RUSSIA: Primorsky Krai, Khasansky district, Kedrovyy, N43°01'17.0" E131°33'36.7", 5m, 22 VI 2008, JG Lee, TK Kim, under seaweeds

Distribution. Russia (Far East), Korea, Japan

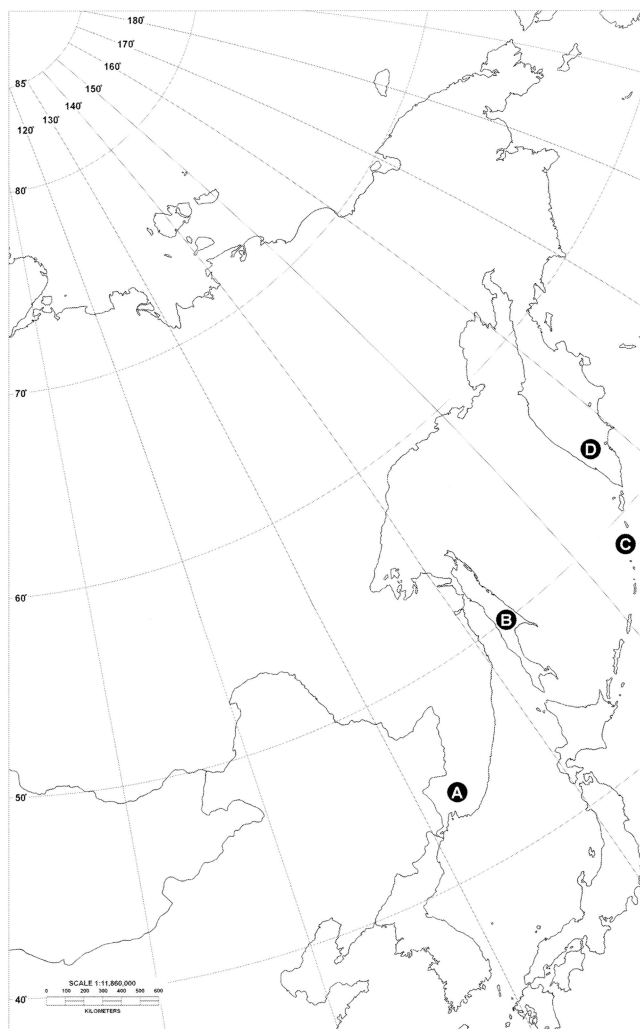


Fig. 2. Distribution map of coastal staphylinids in northeastern Russia. Letters indicate: (A) Primorie Territory, *Aleochara (Emplenota) puetzi*, A. (*Triochara*) *zerchei*, *Amblopusa magna*, *Atheta ririkoae*, A. *tokiokai*, *Halorhadinus inaequalis*, *Myrmecopora (Lamproxenusa) reticulata*, *Oreuryalea watanabei*, *Psammotiba jessoensis*, *Medon prolixus*, *Cafius histrio*, *Phucobius simulator*; (B) Sakhalin, *Adota magnipennis*, *Aleochara (Emplenota) puetzi*, A. (*Triochara*) *nubis*, A. (T.) *zerchei*, *Oreuryalea watanabei*, *Hadropinus fossor*, *Liusus hilleri*, L. *humeralis*; (C) Kuril Islands, *Amblopusa magna*, *Liparocephalus litoralis*, *Paramblopusa eoa*, *Psammotiba kamtschatica*, *Philonthus nudus*; (D) Kamchatka, *Aleochara (Emplenota) puetzi*, A. (*Triochara*) *nubis*, *Psammotiba kamtschatica*.

***Halorhadinus inaequalis* Sawada** Specimen examined. 1 (CNUIC), RUSSIA: Primorsky Krai, Khasansky district, Kedrovyy, N43°01'17.0" E131°33'36.7", 5m, 22 VI 2008, JG Lee, TK Kim, under seaweeds

Distribution. Russia (Far East), Korea, Japan

***Medon prolixus* (Sharp)** Specimens examined. 18 (CNUIC), RUSSIA: Primorsky Krai, Khasansky district, Kedrovyy, N43°01'17.0" E131°33'36.7", 5m, 22 VI 2008, JG Lee, TK Kim, under seaweeds

Distribution. Russia (Far East), Japan

A Key to Coastal Staphylinid Genera of Northeastern Russia

The key was modified from Ahn (2001), Gusarov (2003), Naomi (1982), Newton et al. (2001), and Smetana (1995). A species checklist is provided in Table 1.

- 1(a). Antennae inserted posterior to a line drawn between anterior margins of eyes 2
- (b). Antennae inserted anterior to a line drawn between anterior margins of eyes 11
- 2(a). Tarsal formula 5-5-5 3
- (b). Tarsal formula 4-5-5 or 4-4-5 4
- 3(a). Maxillary palpi and labial palpi with pseudopalpomere—*Aleochara* Gravenhorst
- (b). Maxillary palpi and labial palpi without pseudopalpomere *Oreuryalea* Assing & Maruyama
- 4(a). Tarsal formula 4-5-5 5
- (b). Tarsal formula 4-4-5 8
- 5(a). Neck present; pronotum with a slight medial longitudinal impression; pronotum broadest subapically, narrowed behind to a base *Myrmecopora* Saulcy
- (b). Neck absent; pronotum without impression; pronotum shape different 6
- 6(a). Isodiametric microsculpture absent on body; anterior margin of the labrum straight; basal impression absent on tergite VI *Atheta* Thomson
- (b). Isodiametric microsculpture present on entire body; anterior margin of the labrum concave; basal impression present on tergite VI 7
- 7(a). Antennomere 2 longer than 3, 8 - 10 slightly transverse; tarsi with one empodial seta; equal length of claws; smaller species, 2.2 - 3.2 mm *Adota* Casey
- (b). Antennomere 2 at least as long as 3, 8 - 10 elongate or subquadrate; tarsi without empodial seta; different length of claws; larger species, 3.0 - 5.0 mm *Psammotriba* Yosii & Sawada
- 8(a). Hind wings present; elytra longer than pronotum *Halorhadinus* Sawada
- (b). Hind wings absent; elytra shorter than pronotum 9
- 9(a). Median tooth of right mandible not triangular; anterior margin of abdominal tergites III-VI deeply and broadly V-shaped *Amblopusa* Casey
- (b). Median tooth of right mandible triangular; anterior margin of abdominal tergites III-VI straight 10
- 10(a). Mentum triangular, deeply incised with V-shaped emargination at apex; ratio of pronotal length to elytral length less than 1.3; length of metaventrite almost same as mesocoxal width *Paramblopusa* Ahn & Ashe
- (b). Mentum more or less trapezoidal; ratio of pronotal length to elytral length more than 1.3; length of metaventrite shorter than half of mesocoxal width *Liparocephalus* Mäklin

- 11(a). Pronotum with large, opaque postcoxal process; gular sutures closest at middle or more posteriorly———*Medon* Stephens (Paederinae)
(b). Pronotum without postcoxal process or with small translucent process; gular sutures different from above——— 12 (Staphylininae)
12(a). Labium with ligula entire, rounded or slightly sinuate apically, smaller species, less than 10.0 mm——— *Cafius* Stephens
(b). Labium with ligula distinctly notched apically; large species, more than 11.0 mm——13
13(a). Front tibia without spines on the outer edge———*Phucobius* Sharp
(b). Front tibia with spines on the outer edge———14
14(a). Hind wings short, vestigial; metaventrite very short———*Hadropinus* Sharp
(b). Hind wings present; metaventrite long———*Liusus* Sharp

Table 1. A preliminary checklist of coastal Staphylinidae of northeastern Russia.

ALEOCHARINAE	
1.	<i>Adota magnipennis</i> (Bernhauer)
2.	<i>Aleochara</i> (<i>Emplenota</i>) <i>puetzi</i> (Assing)
3.	<i>Aleochara</i> (<i>Triochara</i>) <i>nubis</i> (Assing)
4.	<i>Aleochara</i> (<i>Triochara</i>) <i>zerchei</i> (Assing)
5.	<i>Amblopusa magna</i> Zerche
6.	<i>Atheta ririkoae</i> Sawada
7.	<i>Atheta tokiokai</i> (Sawada)
8.	<i>Halorhadinus inaequalis</i> Sawada
9.	<i>Liparocephalus litoralis</i> Kirschenblatt
10.	<i>Myrmecopora</i> (<i>Lamproxenusa</i>) <i>reticulata</i> Assing
11.	<i>Oreuryalea watanabei</i> Assing & Maruyama
12.	<i>Paramblopusa eoa</i> Ahn & Maruyama
13.	<i>Psammotiba jessoensis</i> (Brundin)
14.	<i>Psammotiba kamtschatica</i> (Brundin)
PAEDERINAE	
15.	<i>Medon prolixus</i> (Sharp)
STAPHYLININAE	
16.	<i>Cafius histrio</i> (Sharp)
17.	<i>Hadropinus fossor</i> Sharp
18.	<i>Liusus hilleri</i> (Weise)
19.	<i>Liusus humeralis</i> (Matsumura)
20.	<i>Philonthus nudus</i> Sharp
21.	<i>Phucobius simulator</i> Sharp

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