

# The spider family Liocranidae in Siberia and Far East (Aranei)

## Пауки семейства Liocranidae (Aranei) Сибири и Дальнего Востока

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KEY WORDS: Liocranidae, South Siberia, Russian Far East.

КЛЮЧЕВЫЕ СЛОВА: Liocranidae, Южная Сибирь, Дальний Восток России.

**ABSTRACT:** Faunistic data on eight liocranid species occurring in South Siberia and the Russian Far East are given, with three species being new to the fauna of Russia: *Phrurolithus hamdeokensis* Seo, 1988, *Ph. pargongensis* Seo, 1988, and *Ph. pennatus* Yaginuma, 1967.

**РЕЗЮМЕ:** Приведены фаунистические данные по 8 видам пауков семейства Liocranidae Южной Сибири и Дальнего Востока России. Три вида приводятся впервые для России: *Phrurolithus hamdeokensis* Seo, 1988, *Ph. pargongensis* Seo, 1988 и *Ph. pennatus* Yaginuma, 1967.

### Introduction

The present paper is devoted to the spider family Liocranidae as represented in the faunas of South Siberia and the Russian Far East. Three liocranid species have hitherto been recorded in this territory: *Agroeca brunnea* (Blackwall, 1833), *A. maculata* L. Koch, 1879, and *Phrurolithus festivus* (C.L. Koch, 1835) [Mikhailov, 1997]. However, no fewer than eight species of this family appear to occur there, with three *Phrurolithus* species being new to the fauna of Russia.

The paper is based on material from the collections of the author (Institute of General and Experimental Biology, Ulan-Ude) (IGEB) and D.V. Logunov (Institute for Systematics and Ecology of Animals, Novosibirsk) (ISEA). Some of the material is deposited in the Zoological Museum of the Moscow State University, Moscow (ZMMU).

### Faunistic records

*Agroeca brunnea* (Blackwall, 1833)

Fig. 1A–C.

MATERIAL EXAMINED. 1 ♀ (IGEB), IRKUTSK AREA, Baikalsk, Solzan River, *Populus* and *Betula* forest, 4.07.1978, V. Shilenkov; 3 ♂♂ (IGEB), same area, Baikalsk, *Betula* forest,

21.05.1983, S. Didorenko; 3 ♀♀ (ZMMU), same locality, 18.07.1984, S. Didorenko; 1 ♂, 1 ♀ (ZMMU), same locality, 26.09.1988, S. Didorenko; 1 ♀ (IGEB), BURYATIA, Kabansk Distr., Baikalsky Reserve, Osinovka River, *Betula* forest, 4.07.1981, S. Danilov.

DISTRIBUTION. A Euro-Siberian species.

*Agroeca maculata* L. Koch, 1879

Fig. 1D, E.

MATERIAL EXAMINED. 5 ♀♀ (IGEB), IRKUTSK AREA, Olkhonsky Distr., Anga River, stony steppe, 29.06.1993, S. Danilov.

DISTRIBUTION. The species is known to range from the Urals to NE-Siberia [Mikhailov, 1997].

*Agroeca proxima* (O. P.-Cambridge, 1870)

Figs 1F; 2A, B.

MATERIAL EXAMINED. 1 ♂ (ZMMU), IRKUTSK AREA, Baikalsk, Bolshaya Osinovka River, mixed forest, 16.08.1981, S. Danilov; 1 ♂ (ZMMU), same area, Babkha River, *Betula* forest, 22.07.1981, S. Danilov; 1 ♀ (IGEB), same locality, 26.09.1988, S. Didorenko. 3 ♂♂ (IGEB), Irkutsk Distr., Listvyanka, mixed forest, 28.08.1990, V. Shilenkov.

DISTRIBUTION. The species ranges from West and North Europe to South Siberia. In Russia, so far the species has been known from the European part only [Mikhailov, 1997].

*Phrurolithus festivus* (C.L. Koch, 1835)

Fig. 2C–F.

MATERIAL EXAMINED. 2 ♀♀ (IGEB), BURYATIA, Barguzinsky Distr., Lake Baikal, Svyatoy Nos Peninsula, Monakhovo, grassland, 20.07.1991, S. Danilov; 3 ♂♂, 4 ♀♀ (ISEA), Khabarovsk PROV., environs of Khabarovsk, Bolshehekhtsyrsky Reserve, forest and bog, 19–22.06.1987, D. Logunov; 2 ♀♀ (IGEB), MARITIME PROV., Ussuriysk Distr., Kamenushka, grassland, 20.08.1990, S. Danilov.

DISTRIBUTION. A trans-Eurasian species.

*Phrurolithus hamdeokensis* Seo, 1988

Figs. 2G; 3A–C.

*Ph. Mininus* (lapsus!), non C.L. Koch, 1839: Tu & Zhu, 1986.

MATERIAL EXAMINED. 9 ♂♂, 14 ♀♀ (IGEB), BURYATIA, Zaigraevo Distr., Bryanka River, grassland, 27.05–2.06.1990, S. Danilov; 3 ♂♂, 9 ♀♀ (ZMMU), same area, Kurumkan Distr.,

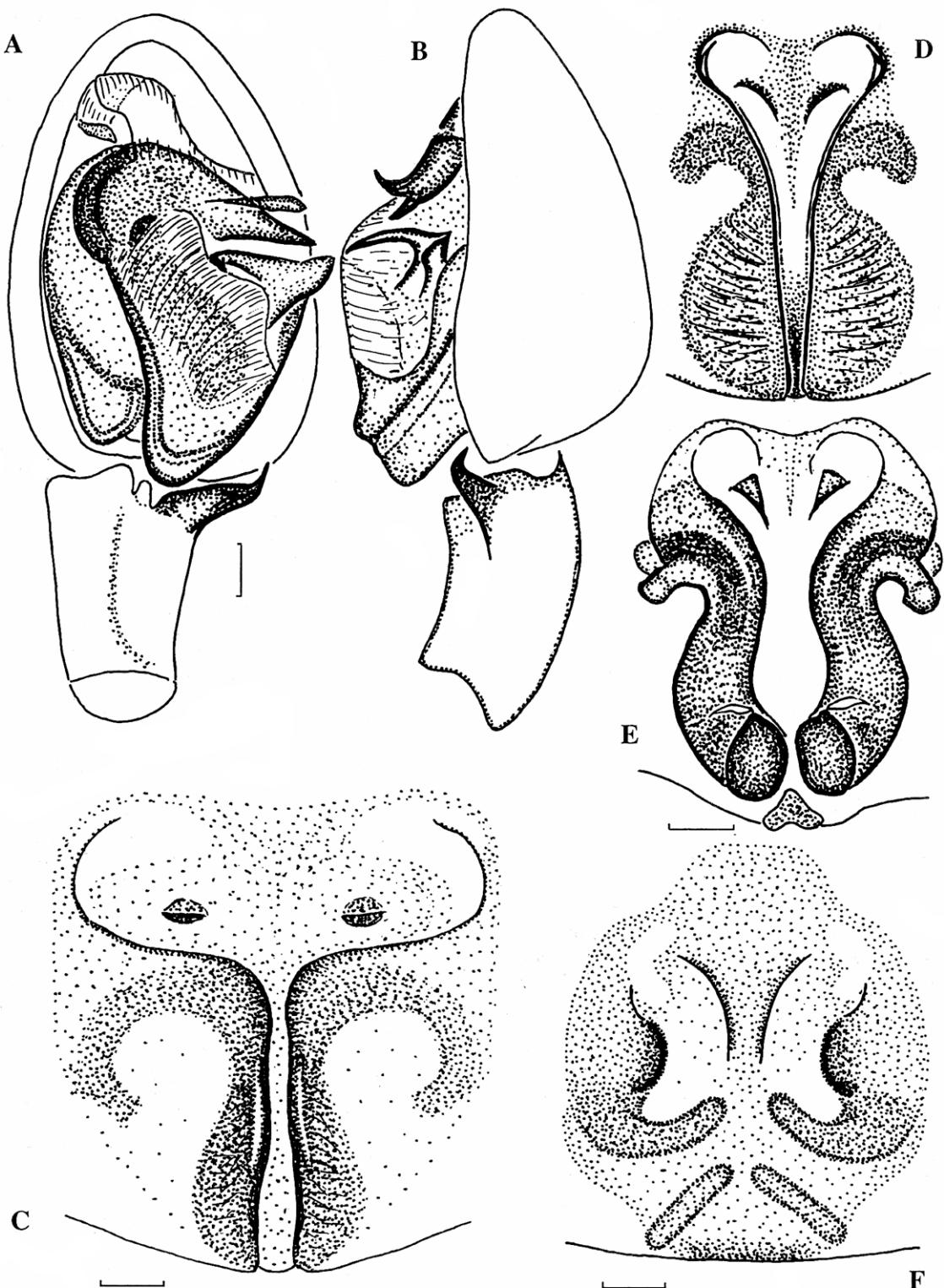


Fig. 1. *Agroeca brunnea* (A–C), *A. maculata* (D, E) and *A. proxima* (F). A, B — male palp; C, D, F — epigyne; E — vulva. Scale 0.1 mm.  
 Рис. 1. *Agroeca brunnea* (A–C), *A. maculata* (D, E) и *A. proxima* (F): А, В — пальпус самца; С, Д, Е — эпигина; Е — вульва.  
 Масштаб 0,1 мм.

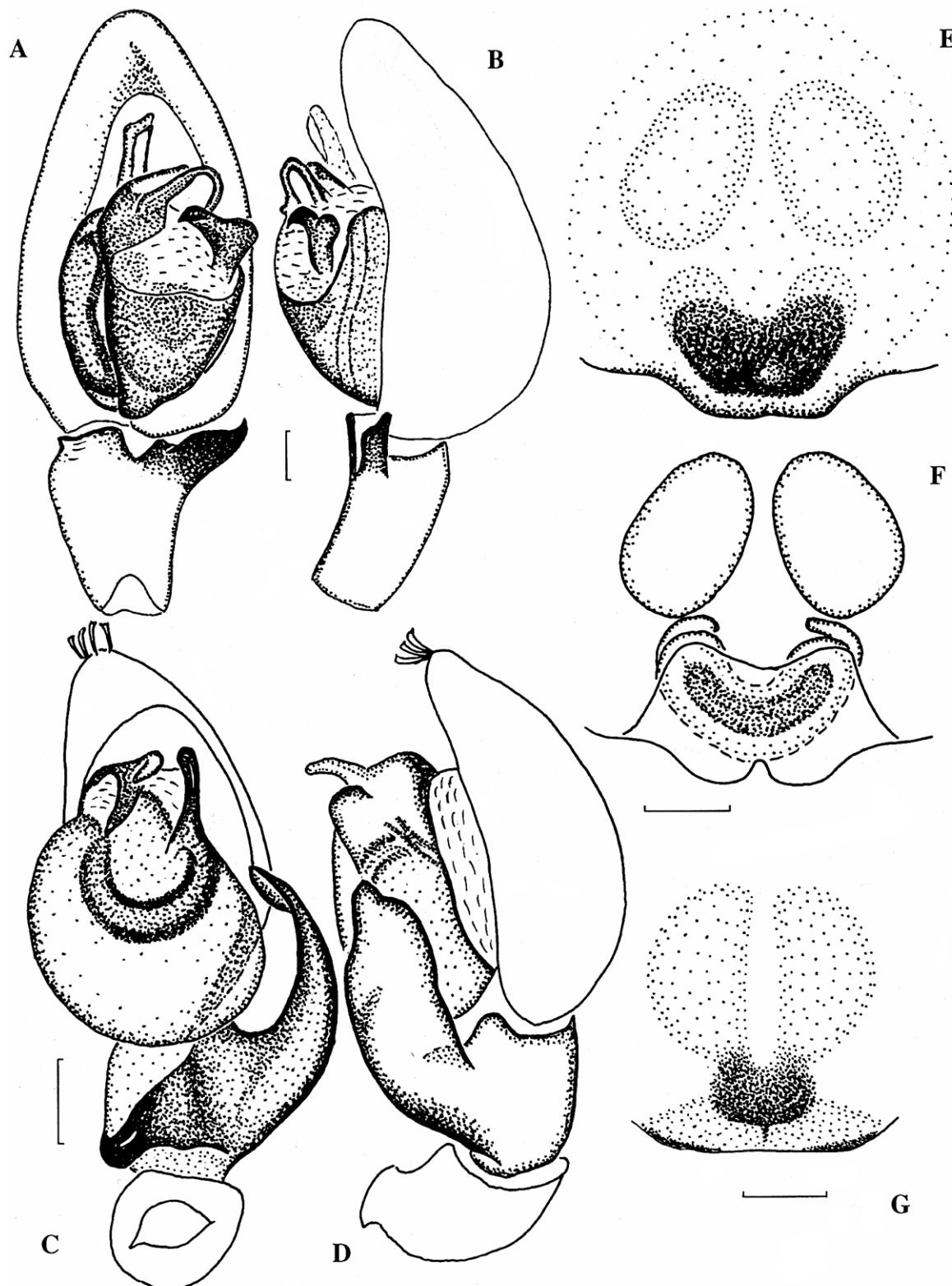


Fig. 2. *Agroeca proxima* (A, B), *Phrurolithus festivus* (C–F) and *Ph. hamdeokensis* (G): A, B, C, D — male palp; E, G — epigyne; — vulva. Scale 0.1 mm.

Рис. 2. *Agroeca proxima* (A, B), *Phrurolithus festivus* (C–F) и *Ph. hamdeokensis* (G): A, B, C, D — пальпус самца; E, G — эпигина; — вульва. Масштаб 0,1 мм.

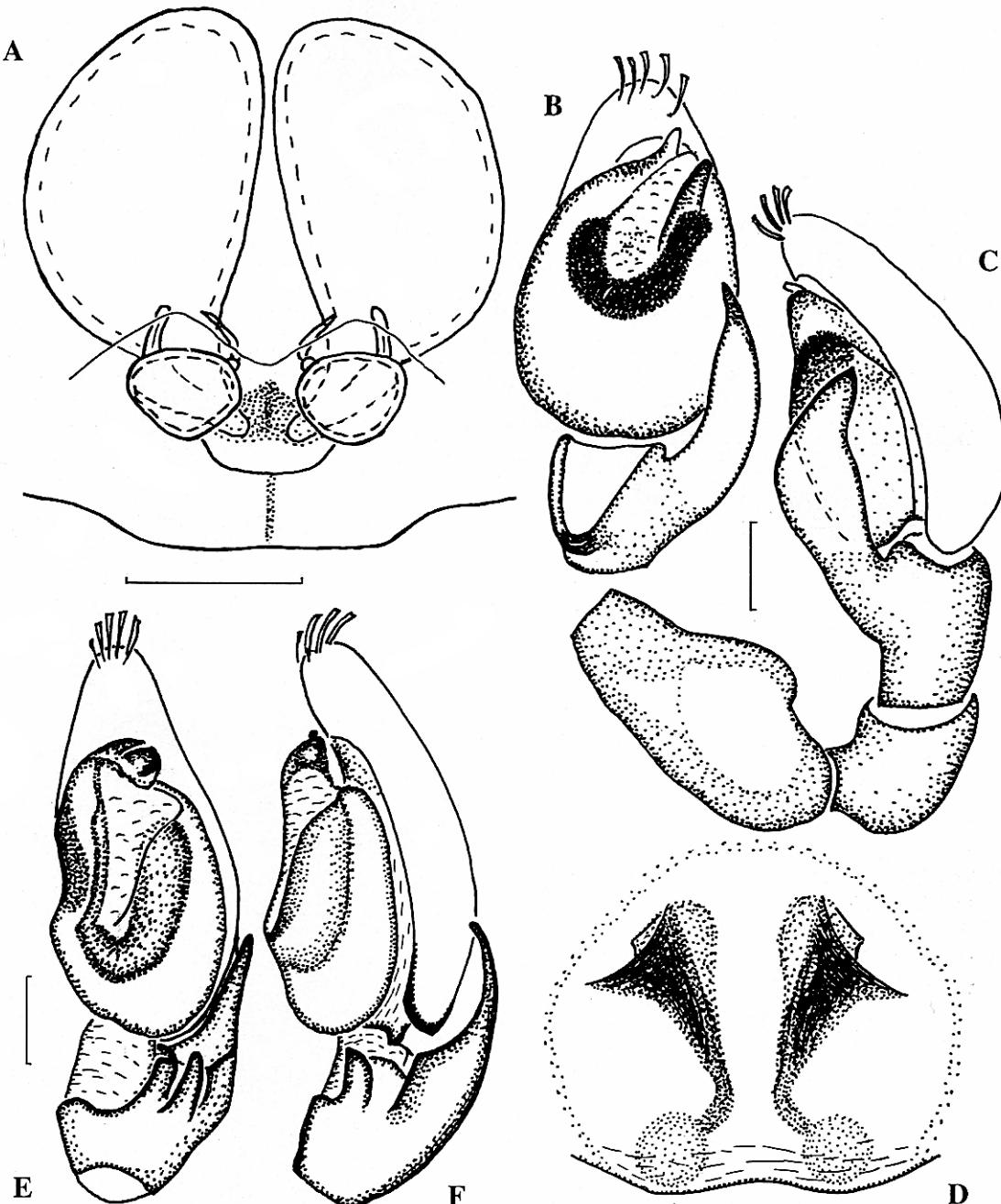


Fig. 3. *Phrurolithus hamdeokensis* (A-C), *Pb. pargongensis* (D) and *Pb. pennatus* (E, F): A — vulva; B, C, E, F — male palp; D — epigyne. Scale 0.1 mm.

Рис. 3. *Phrurolithus hamdeokensis* (A—C), *Pb. pargongensis* (D) и *Pb. pennatus* (E, F): А — вульва; В, С, Е, Ф — пальпус самца; D — эпигина. Масштаб 0,1 мм.

Umkhey, grassland, 24.05–10.07.1996, S. Danilov; 1 ♀ (IGEB), same distr., Verkhny Kurumkan River, grassland, 2.07.1996, S. Danilov.

**DISTRIBUTION.** This species has hitherto been recorded in China: Shanxi and Hebei provinces [Tu & Zhu, 1986], and in Korea [Paik, 1991]. New to the fauna of Russia.

**REMARKS.** Tu & Zhu [1986] have recorded *Ph. minimus* C.L. Koch, 1839 in China, slightly misspelling

the name as "mininus". Judged from the original drawings, their material actually belongs to *Ph. hamdeokensis* Seo, 1988.

*Phrurolithus pargongensis* Seo, 1988  
Fig. 3D.

**MATERIAL EXAMINED.** 1 ♀ (ISEA), MARITIME PROV., Anuchino Distr., mixed forest, 30.07.1984, V. Bakurov.

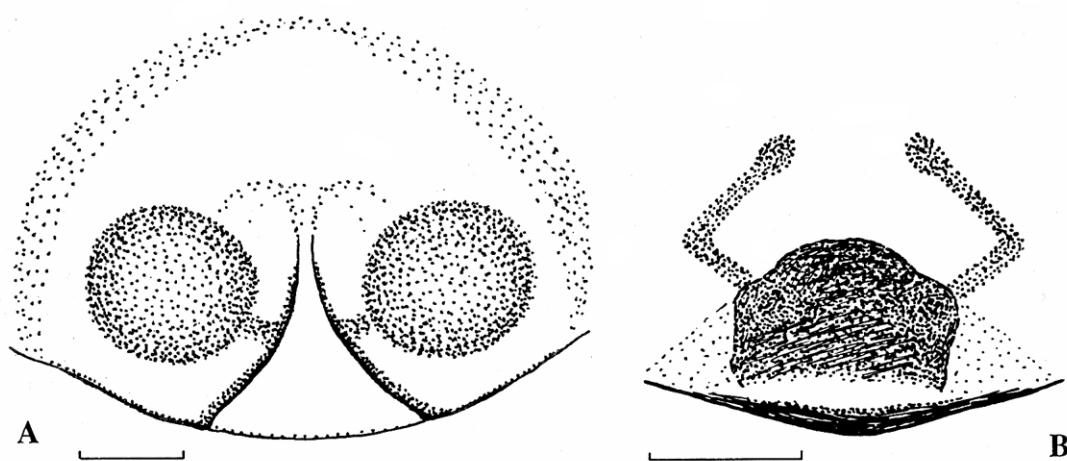


Fig. 4. Epigyne of *Phrurolithus pennatus* (A) and *Ph. sinicus* (B). Scale 0.1 mm.  
Рис. 4. Эпигина *Phrurolithus pennatus* (A) и *Ph. sinicus* (B). Масштаб 0,1 мм.

DISTRIBUTION. Korea [Paik, 1991], Russia: Maritime Prov. New to the fauna of Russia.

*Phrurolithus pennatus* Yaginuma, 1967  
Figs. 3E, F; 4A.

MATERIAL EXAMINED. 2♂♂, 1♀ (ISEA), KHBABROVSK PROV., environs of Khabarovsk, Bolshekhekhtsyrsky Reserve, bog, 22.06.1987, D. Logunov.

DISTRIBUTION. China: Shanxi [Tu & Zhu, 1986], Korea, Japan [Paik, 1991], Russia: Khabarovsk Prov. New to the fauna of Russia.

*Phrurolithus sinicus* Zhu et Mei, 1982  
Fig. 4B.

MATERIAL EXAMINED. 1♀ (ISEA), CHITA AREA, Sokhondinsky Reserve, 5 km SW Buninda, mountainous steppe, 15.06.1991, D. Logunov.

DISTRIBUTION. Central and NW China, Korea [Paik, 1991]. Russia: Tuva [Logunov et al., 1998] and Transbaikalia.

Acknowledgements. I am greatly indebted to Dr. D. Logunov (ISEA) who sent me for study some material under his care. Dr. S. Golovatch (Moscow) kindly checked the English of an earlier draft.

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