Klapalekiana, **32**: 11-14, 1996
ISSN 1290-6100

New species of *Pterostichus* from the Far East of Russia (Coleoptera: Carabidae)

Nový druh rodu *Pterostichus* z Dálného východu Ruska (Coleoptera: Carabidae)

Jan FARKAČ[1] & Andrey PLUTENKO[2]

[1]Faculty of Forestry, Czech Agricultural University, Kamýcká 957, CZ-165 21 Praha 6, Czech Republic

[2]Khersonskaya 23-58, 692812 Artyom, Russia

Taxonomy, Coleoptera, Carabidae, *Pterostichus galae* sp. n., Eastern Palaearctics

Abstract. *Pterostichus* (*Paralianoe*) *galae* sp. n. is described and illustrated from specimens from the Primorskyi kray region of the Far East of Russia; a comparison with the related species *P.* (*Paralianoe*) *microps* Heyden, 1887 is provided.

About 20 species are at present known in the subgenus *Paralianoe* Ishida, 1958 of the genus *Pterostichus* Bonelli, 1810, all of them occuring in East Asia, including Japan. One of the species, *P. microps* Heyden, 1887 is well known from the Far East of Russia (Kryzhanovskiy 1983, Kryzhanovskiy et al. 1995).

During a coleopterological expedition to the Sikhote Alin mountains (Far East of Russia) we have found 93 specimens belonging to the subgenus *Paralianoe* of the genus *Pterostichus* in a talus field on the highest mountain Oblachnaya (1750 m) in the southern part of the range. A detailed study of these specimens proved that they belong to a new species description of which follows.

Pterostichus (*Paralianoe*) *galae* sp. n.

(Figs 1-3)

Description (habitus of holotype as in Fig. 1; measurements in mm). Body length 13.0 - 13.8. Entirely black, including ventral side of body; antennomeres 6 - 11 and all tibiae brownish. Head. Width, including eyes, 2.2 - 2.4, ratio width of head to width of pronotum 1.29 - 1.42.

Labrum transverse, with anterior margin concave. Mandibles with median margin straight, apical portion weakly curved. Vertex smooth, surface with isodiametric microsculpture. Antennomere 1 about as long as 3, twice as long as antennomere 2.

Pronotum. Width 3.0 - 3.2, length 2.6 - 2.7, ratio width to length of pronotum 1.13 - 1.21. Maximum width of pronotum in anterior half. Lateral margins weakly convex in anterior portion, distinctly constricted in front of posterior angles. Anterior margin weakly concave. Posterior margin weakly convex in middle portion. Anterior angles rounded, obtuse. Posterior angles acute, without tooth. Disc concave, basal portion of pronotum flattened, but weakly convex medial-

ly, with two lateral, wide depressions. Lateral bead distinct, widened toward posterior angles, connected with basal depression at posterior angles. Two setae at lateral margin, one at anterior half and one at posterior angle. Surface of pronotum smooth, with weak transverse rugae and with traces of rugulose punctation on basal portion.

Elytra weakly convex, widened in posterior half, length 7.50 - 7.80, width 4.50 - 4.70. Ratio length to width of elytra 1.62 - 1.69. Lateral margins weakly arcuate, evenly rounded both in basal and apical portions, without humeral tooth. Scutellar stria distinct, often connected with first stria. Elytral striae distinct, striae 4 - 6 often formed by confluent punctures. Intervals flat, interval 3 with 3 - 5 setiferous punctures, first situated in middle of interval, remainder shifted closer

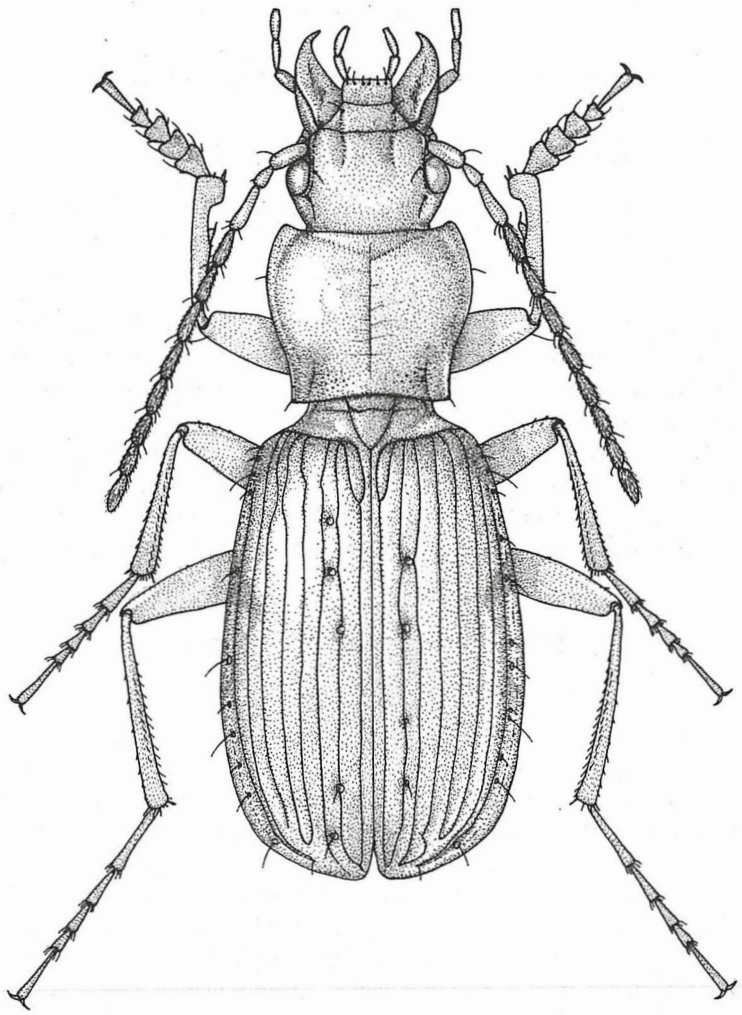
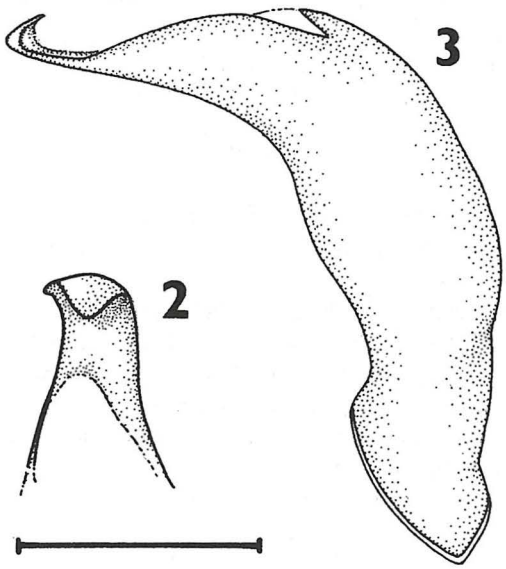


Fig. 1. Habitus of holotype of *Pterostichus galae* sp. n.
Obr. 1. Habitus holotypu *Pterostichus galae* sp. n.

toward second stria. Lateral bead wide in basal and middle parts, narrowing in apical part of elytra. Surface with meshed, isodiametrical microsculpture with tendency to form transverse lines.

Aedeagus as in Figs 2 - 3.



Figs 2-3. Aedeagus of *Pterostichus galae* sp. n. in dorsal and lateral view. Scale 1 mm.
Obr. 2-3. Aedeagus *Pterostichus galae* sp. n. v dorsálním a laterálním pohledu. Měřítko 1 mm.

Type material. Holotype (male), labelled: Russia or., Sikhote Alin mts. mer., Mt. Oblachnaya, 1750 m, 23.vi.1992, J. Farkač & A. Plutenko lgt. Deposited in the collection of A. Plutenko, Artyom.

Paratypes: 53 males, 39 females, same data as the holotype; male, same locality as holotype, 1600-1855 m, 14.vii.1989, M. Nikodým lgt. Deposited in the Canadian National Collection, Ottawa, and in the collections of J. Farkač, Praha; K. Hůrka, Praha; M. Janata, Praha; G. Lafer, Vladivostok; M. Pavesi, Milano; A. Plutenko, Artyom; R. Sciaky, Milano; V. Skoupý, Žilina and D. Wrase, Berlin.

Geographical distribution. *Pterostichus galae* sp. n. is apparently endemic to the highest mountain Oblachnaya of the southern range of the Sikhote Alin mountains.

Etymology. Patronymic, the species is named in honour of Gala, the wife of the second author.

Differential diagnosis. *Pterostichus galae* sp. n. differs from *P. microps* by a smaller size (*P. microps* is 15-17 mm long), colour black (elytra of *P. microps* are brownish), less curved mandibles, narrower head, less obtuse anterior angles of pronotum and absence of denticle at posterior angles of pronotum.

Collection circumstances. *Pterostichus galae* sp. n. was taken, together with *Leistus janae* Farkač & Plutenko, 1992, in the talus slope under the peak of the Oblachnaya Mt. at the elevation of about 1750 m (see also Farkač & Plutenko 1992). All specimens were taken from under the surface layer of stones.

REFERENCES

FARKAČ J. & PLUTENKO A. 1992: New Leistus s. str. from eastern Asia (Coleoptera, Carabidae). *Acta Soc. Zool. Bohemoslov.*, 56: 161-162.

KRYZHANOVSKIY O. L. 1983: [*Fauna of the USSR* (*Coleoptera*: *Rhysodidae*, *Trachypachidae*, *Carabidae*) I/2]. Nauka, Leningrad, 341 pp (in Russian).

KRYZHANOVSKIY O. L., BELOUSOV I. A., KABAK I. I., KATAEV B. M., MAKAROV K. V. & SHILENKOV V. G. 1995: A Checklist of the Ground-Beetles of Russia and Adjacent Lands (Insecta, Coleoptera, Carabidae). *Pensoft Series Faunist.*, 3: 1-271.

SOUHRN

V podrodu *Paralianoe* rodu *Pterostichus* (Coleoptera: Carabidae) je v dnešní době uváděno ca 20 druhů z východní Asie včetně Japonska, z nichž *P. microps* Heyden, 1887 žije na Dálném východě Ruska.

Z vlastních sběrů v kamenitých sutích na vrcholu hory Oblačnaja (1750 m) v pohoří Sichote Alin popisujeme nový druh *Pterostichus galae* sp. n. Od zmíněného druhu se liší menší velikostí, černou barvou, méně zahnutým apexem mandibul, užší hlavou, méně vystupujícími předními rohy pronota a chybějícím zoubkem v jeho zadních úhlech.

Nový druh je endemitem kamenitých sutí hory Oblačnaja, kde byl sbírám společně s *Leistus janae* Farkač & Plutenko, 1992.

Druhové jméno je věnováno manželce druhého z autorů.