

**First records of *Pseudocneorhinus adamsi* Roelofs, 1879  
and *P. squameus* Morimoto, 2015 (Coleoptera, Curculionidae) from  
the Russian Far East with notes on *Pseudocneorhinus* Roelofs, 1873  
species distribution**

**Первые находки *Pseudocneorhinus adamsi* Roelofs, 1879  
и *P. squameus* Morimoto, 2015 (Coleoptera, Curculionidae)  
на Дальнем Востоке России с замечаниями  
о распространении видов рода**

**A.A. Legalov  
А.А. Легалов**

Институт систематики и экологии животных СО РАН, ул. Фрунзе 11, Новосибирск 630091 Россия; Алтайский государственный университет, ул. Ленина 61, Барнаул 656049 Россия. E-mail: fossilweevils@gmail.com.  
Institute of Systematics and Ecology of Animals, Siberian Branch of Russian Academy of Sciences, Frunze Str. 11, Novosibirsk 630091 Russia; Altai State University, Lenina Str. 61, Barnaul 656049 Russia.

**Key words:** Curculionoidea, Entiminae, Trachyploeini, Pseudocneorrhina, distribution, new records.

**Ключевые слова:** Curculionoidea, Entiminae, Trachyploeini, Pseudocneorrhina, распространение, новые находки.

**Abstract.** Two weevil species, *Pseudocneorhinus adamsi* Roelofs, 1879 from Primorskii Krai and *P. squameus* Morimoto, 2015 from Khabarovskii Krai and Primorskii Krai, are recorded for Russia for the first time. The rare species *P. setosus* Roelofs, 1879 and the common *P. longisetosus* Morimoto, 2015 are discussed as residents of the southern part of the Russian Far East.

**Резюме.** Впервые для фауны России отмечены *Pseudocneorhinus adamsi* Roelofs, 1879 из Приморского края и *P. squameus* Morimoto, 2015 из Хабаровского и Приморского краёв. *P. setosus* Roelofs, 1879 и *P. longisetosus* Morimoto, 2015 также найдены на юге Дальнего Востока России.

## Introduction

The genus *Pseudocneorhinus* Roelofs, 1873 includes 14 species distributed in China, Korea, Japan and the Russian Far East [Roelofs, 1873, 1879, 1880; Formánek, 1916; Marshall, 1934; Voss, 1956, 1958; Han et al., 2000; Han, Yoon, 2000; Morimoto et al., 2015; Ren et al., 2019; Legalov, 2009, 2020b; Alonso-Zarazaga et al., 2023]. The genus *Pseudocneorhinus* was placed in the Trachyploeini [Zherikhin, Egorov 1991; Alonso-Zarazaga, Lyal 1999, Borovec, 2009, Ren et al., 2019; Alonso-Zarazaga et al., 2023] or in the separate tribe Pseudocneorhinini [Kôno, 1930; Morimoto, 1989; Han et al., 2000; Morimoto et al., 2015]. A. Legalov considered Pseudocneorrhina as subtribe of the tribe Trachyploeini [Legalov, 2020a].

Six *Pseudocneorhinus* species were recorded from Russia, *P. obesus* Roelofs, 1873 from Amurskaya Oblast, Khabarovskii Krai, Primorskii Krai and the Kurils Is-

lands [Egorov, 1976, 1977, 1979; Krivolutskaia et al., 1978; Legalov, 2009, 2020b], *P. bifasciatus* Roelofs, 1879 from Primorskii Krai [Egorov, 1976; Legalov, 2009], *P. minimus* Roelofs, 1879 from Primorskii Krai [Egorov, 1976], *P. setosus* Roelofs, 1879 from Primorskii Krai [Legalov, 2009, 2020b; Legalov, Sergeev, 2022], *P. sellatus* Marshall, 1934 from Evreiskaya Autononnaya Oblast [Zabaluev, 2016], and *P. longisetosus* Morimoto, 2015 from Khabarovskii Krai and Primorskii Krai [Ren et al., 2019; Legalov, Dubatolov, 2021; Legalov, Sergeev, 2022; Sergeev, 2023].

New records of *Pseudocneorhinus squameus* Morimoto, 2015 *Pseudocneorhinus adamsi* Roelofs, 1879 with notes on *Pseudocneorhinus* Roelofs, 1873 species distribution are presented below.

## Materials and methods

Studied specimens of the genus *Pseudocneorhinus* are deposited in the Institute of Systematics and Ecology of Animals (Russia: Novosibirsk).

Nomenclatural acts introduced in the present work are registered in ZooBank ([www.zoobank.org](http://www.zoobank.org)) under urn:lsid:zoobank.org:pub:FC534605-3CB9-4BA2-AF53-932755509427.

## Results

Curculionoidea: **Curculionidae**: Entiminae:  
Trachyploeini, Pseudocneorrhina  
***Pseudocneorhinus* Roelofs, 1873**

Type species: *Pseudocneorhinus obesus* Roelofs, 1873 by monotypy.

*Pseudocneorhinus adamsi* Roelofs, 1879

Figs 2, 4.

**Material.** Russia, *Primorskii Krai*: 1♀ — Lazovsky District, Ermolovskii spring, 650 m, 7–9.VII.2008, V. Shokhrin leg.; 1♀ — env. Lazo, 14–18.VI.2006, V. Shokhrin leg.; 1♀ — Peter the Great Gulf, Russky Isl., 24.V.2019, M. Sergeev leg.

**Remarks.** It is the first record of *P. adamsi* for Russian fauna.

**Distribution.** South of the Russian Far East (*Primorskii Krai*), Japan, Korea and China.

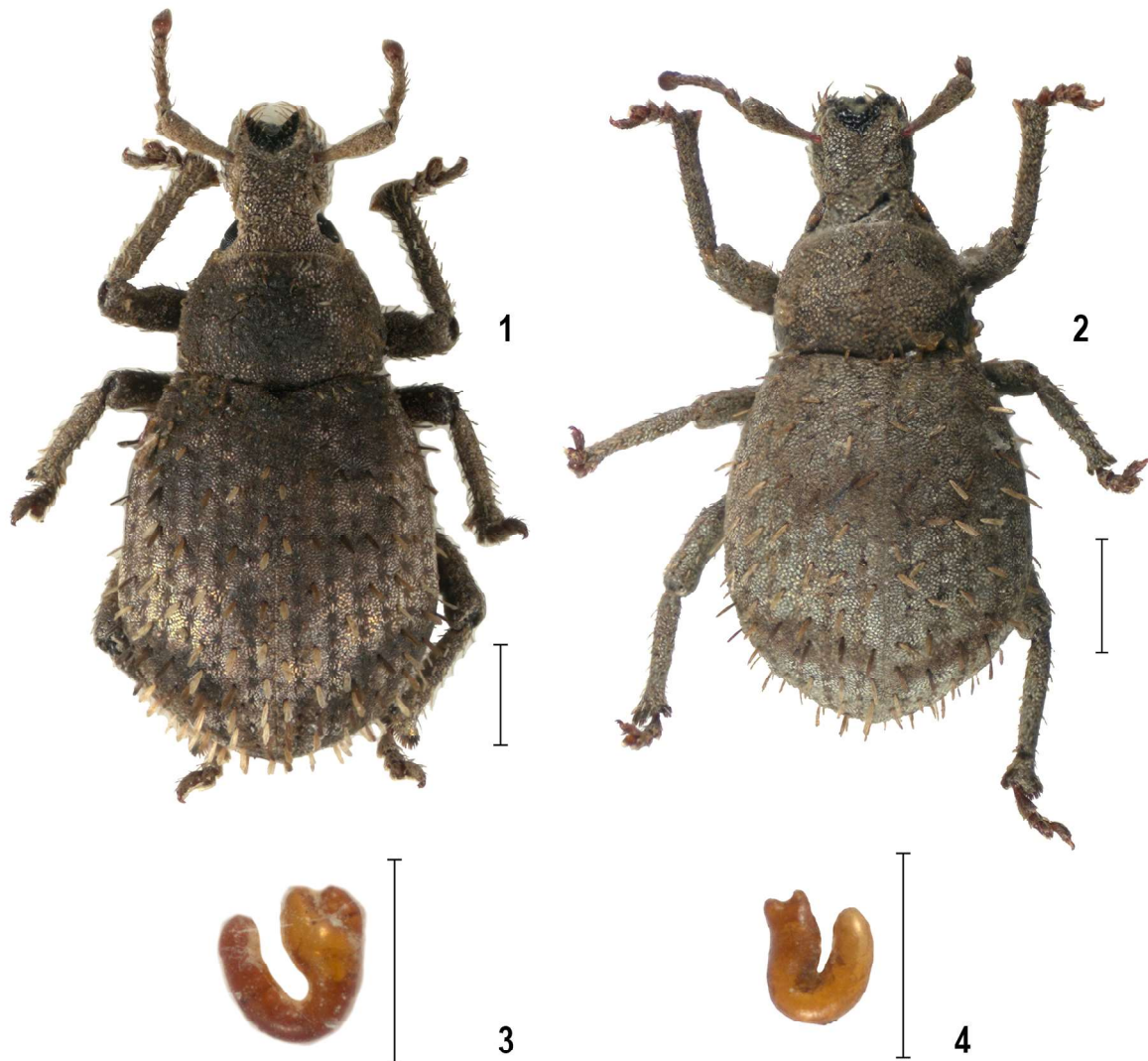
*Pseudocneorhinus squameus* Morimoto, 2015

Figs 1, 3.

**Material.** Russia, *Khabarovskii Krai*: 1♀ — Khabarovskiy District, env. Bychikha, 9–12.VII.2006, A. Legalov et E. Shevmin leg.; 1♀ — Bolshekhkhtsirskiy Nature Reserve, env. Bychikha,

58°17–18' N, 134°49–50' E, 2.VII.2021, V. Dubatolov leg.; 1♀ — Bolon Nature Reserve, cordon Kirpu, floodplain of Amur River, 49°30.4' N, 136°02' E, 5.VII.2016, V. Dubatolov leg.; *Primorskii Krai*: 2♀♀ — Shkotovsky District, Ussuriiskii Nature Reserve, Suvorovo forestry, cordon Peishula, 150–230 m, 1–22.VII.2011, A. Korshunov leg.; 2 females — Ussuriiskiy District, Gornotaezhnoe, 8–13.VII.2007, A. Legalov leg.; 1♀ — Lazovsky Nature Reserve, cordon Korpad', 16–18.VII.2007, A. Legalov; 1♀ — Lazovsky Nature Reserve, cordon America, 30.V – 2.VI.2006, Yu. Sundukov leg.; 2♀♀ — idem, 14–23.VI.2006, Yu. Sundukov leg.

**Remarks.** It is the first record of *P. squameus* for Russian fauna. Photo of this species determined as *Pseudocneorhinus setosus* Roelofs, 1873 (det. M.E. Smirnov et I.A. Zabaluev) with labels «SE Primorsky Krai, Lazovsky Nature Reserve, ~10 km SW Sokolchi, cordon Korpad', 43°15' N, 134°07' E, 23.VI.2004, M. Smirnov & L. Smirnova leg.» is on <https://www.zin.ru/animalia/coleoptera/rus/psetms.htm>.



Figs 1–4. *Pseudocneorhinus* spp: 1 — *P. squameus*, habitus, dorsal view; 2 — *P. adamsi*, habitus, dorsal view; 3 — *P. squameus*, spermatheca, dorsal view; 4 — *P. adamsi*, spermatheca, dorsal view. Scale bar = 1.0 mm for 1, 2; 0.5 mm for 3, 4.

Рис. 1–4. *Pseudocneorhinus* spp: 1 — *P. squameus*, общий вид, сверху; 2 — *P. adamsi*, общий вид, сверху; 3 — *P. squameus*, сперматека, вид сверху; 4 — *P. adamsi*, сперматека, вид сверху. Масштаб = 1,0 мм для 1, 2; 0,5 мм для 3, 4.

**Distribution.** China (Beijing, Gansu, Hebei, Shanxi), Korea [Ren et al., 2019], south of the Russian Far East (Khabarovskii Krai and Primorskii Krai).

*Pseudocneorhinus setosus* Roelofs, 1879

**Material.** Russia, Primorskii Krai: 1 female — Khasansky District, Kedrovaya Pad' Nature Reserve, spring Izvestkovyi 16.VIII.1978, B. Zakharov leg; 1♀ — Anuchinsky District, southern part Sinii Mtr., 25 km N of Chernyshevka, spring Kamenisty, 300–400 m, 6.VII.1995, V. Dubatolov, R. Dudko leg; 1 female — Lazovsky Nature Reserve, cordon America, 18–20.VII.2005, A. Legalov leg; 1♀ — Sikhote-Alin Nature Reserve, Kolumbe, 1–3.VII.2019, M. Sergeev leg.

**Distribution.** South of the Russian Far East (Primorskii Krai), Japan, Korea and China.

*Pseudocneorhinus longisetosus* Morimoto, 2015

**Remarks.** The differences between *Pseudocneorhinus longisetosus* and *P. adamsi* Roelofs, 1879 are very slight and consist in the shape of the epistome and spermatheca. Maybe it's variability.

**Distribution.** Amur Oblast (Arkhar), Jewish Autonomous Oblast (Obluch'e, Radde), Khabarovskii Krai (Khabarovskiy District: Bychikha, Ulchskiy District: Kiselevka, Bolon Nature Reserve), Primorskii Krai (Vladivostok, Khasansky District, Anuchinsky District, Ussuriyskiy District, Shkotovo District, Chernigovskiy District, Peter the Great Gulf: Askol'd Isl., Kedrovaya Pad' Nature Reserve, Sikhote-Alin Nature Reserve, Ussuriyskiy Nature Reserve, Lazovsky Nature Reserve, Khanka Nature Reserve), Japan.

*Pseudocneorhinus sellatus* Marshall, 1934

**Material.** China, Beijing Prov.: 1♀ — Xiao long men, 20.VI.2000, A. Barkalov leg.

**Remarks.** This species was recorded for Jewish Autonomous Oblast by Zabaluev [2016].

**Distribution.** China (Beijing, Gansu, Sichuan) [Ren et al., 2019; Alonso-Zarazaga et al., 2023], Jewish Autonomous Oblast by Zabaluev [2016].

*Pseudocneorhinus obesus* Roelofs, 1873

= *Pseudocneorhinus trifasciatus* Voss, 1958

**Remarks.** This species is absent in Russia. Almost all material determined as *Pseudocneorhinus obesus* belongs to *P. longisetosus*.

**Distribution.** This species is reliably known only from Japan [Ren et al., 2019]. Records in China and Korea [Alonso-Zarazaga et al., 2023] require confirmation.

## Acknowledgements

The author thanks R. Yu. Dudko, V.V. Dubatolov and E. Yu. Shevnin (Novosibirsk), Yu.N. Sundukov and V.P. Shokhrin (Lazo), and M.E. Sergeev (Vladivostok) for help with this research.

## References

- Alonso-Zarazaga M.A., Barrios H., Borovec R., Bouchard P., Caldara R., Colonnelli E., Gültekin L., Hlaváč P., Korotyaev B., Lyal C.H.C., Machado A., Meregalli M., Pierotti H., Ren L., Sánchez-Ruiz M., Sforzi A., Silfverberg H., Skuhrovec J., Trýzna M., Velázquez de Castro A.J., Yunakov N.N. 2023. Cooperative catalogue of Palaearctic Coleoptera Curculionoidea. 2nd Edition // Monografías electrónicas. Vol.14. 780 p.
- Alonso-Zarazaga M.A., Lyal C.H.C. 1999. A world catalogue of families and genera of Curculionoidea (Insecta: Coleoptera) (excluding Scolytidae and Platypodidae). Entomopraxis: Barcelona SCP. 315 p.
- Borovec R. 2009. Revision of the Palaearctic supraspecific taxa of the tribe Trachyphloeini (Coleoptera: Curculionidae: Entiminae) // Klapalekiana. Vol.45. P.1–97.
- Egorov A.B. 1976. [A review of the fauna of weevils (Coleoptera, Curculionidae) of Primorye territory] // Entomologicheskoe Obozrenie. Vol.60. No.4. P.826–841. [In Russian].
- Egorov A.B. 1977. [Short review of weevils (Coleoptera, Curculionidae) of Amur Province and Khabarovsk Territory] // [Systematic and faunistic of insects]. Leningrad: Nauka. P.27–41. [In Russian].
- Egorov A.B. 1979. [About little-known and new to the fauna of the USSR weevils (Coleoptera, Curculionidae) from Primorye Territory] // [Beetles of the Far East and Eastern Siberia]. Vladivostok. P.150–152. [In Russian]
- Formáněk R. 1916. Zwei neue Rüssler aus Tibet // Wiener Entomologische Zeitung. Vol.35. P.32–34.
- Han K., Hong K.J., Yoon I.B. 2000. Taxonomy of the genus *Pseudocneorhinus* (Coleoptera: Curculionidae) of South Korea // Korean Journal of Entomology. Vol.30. P.33–41.
- Han K., Yoon I.B. 2000. A new species of the genus *Pseudocneorhinus* Roelofs from Korea // Korean Journal of Entomology. Vol.30. P.257–260.
- Kôno H. 1930. Kurzrüssler aus dem japanischen Reich // Journal of the Faculty of Agriculture, Hokkaido Imperial University, Sapporo. Vol.24. No.5. P.153–242, pl.I–II.
- Krivolutskaja G.O., Ter-Minassian M.E., Egorov A.B. 1978. To knowledge of fauna of weevil (Coleoptera, Curculionidae) of southern Kuriles and Sakhalin. New data about insects of Sakhalin and Kuriles. Vladivostok. P.87–100. [In Russian].
- Legalov A.A. 2009. Family Anthribidae – anthribid weevils, family Rhynchitidae, family Attelabidae – leaf-rolling weevils, family Brentidae, family Curculionidae – weevils, family Dryophthoridae // Storozhekno S.Yu. (Ed.): Insects of Lazovsky Nature Reserve. Vladivostok: Dalnauka. P.191–206. [In Russian].
- Legalov A.A. 2020a. Annotated key to weevils of the world. Part 5. Subfamily Entiminae (Curculionidae) // Ukrainian Journal of Ecology. Vol.10. No.2. P.332–346.
- Legalov A.A. 2020b. Revised checklist of superfamily Curculionoidea (Coleoptera) from Siberia and the Russian Far East // Acta Biologica Sibirica. Vol.6. P.437–549.
- Legalov A.A., Dubatolov V.V. 2021. A list of the Curculionoidea (Coleoptera) from Bolshekhekhtsirsky Nature Reserve (Russian Far East) // Ecologica Montenegrina. Vol.49. P.64–78.
- Legalov A.A., Sergeev M.E. 2022. A list of the Curculionoidea (Coleoptera) from Sikhote-Alin Nature Reserve (Russian Far East) // Ecologica Montenegrina. Vol.51. P.25–46.
- Marshall G.A.K. 1934. Schwedisch-chinesische wissenschaftliche Expedition nach den nordwestlichen Provinzen Chinas, unter Leitung von Dr. Sven Hedin und Prof. Sü Ping-Chang // Arkiv för Zoologi. Vol.27. P.1–18.
- Morimoto K. 1989. A check list of Japanese insects. Entomological Laboratory of Kyushu University 1. 502 p.
- Morimoto K., Nakamura T., Kannô K. 2015. Curculionidae: Entiminae (Part 2) (Coleoptera) // The Insects of Japan. Vol.4. Fukuoka: Touka Shobo. 758 p.
- Ren L., Borovec R., Zhang R. 2019. On the genus *Pseudocneorhinus* (Coleoptera, Curculionidae, Entiminae), with descriptions of five new species from China // ZooKeys. Vol.853. P.57–86.
- Roelofs W. 1873. Curculionides recueillis au Japon par M. G. Lewis. Première partie // Annales de la Société Entomologique de Belgique. Vol.16. P.154–193.
- Roelofs W. 1879. Diagnoses de nouvelles espèces de Curculionides, Brentides, Anthribides et Bruchides du Japon // Annales de la Société Entomologique de Belgique, Vol.22. P.liii–lv.
- Roelofs W. 1880. Additions a la faune du Japon, nouvelles espèces de Curculionides et familles voisines // Annales de la Société Entomologique de Belgique. Vol.24. P.5–31.
- Sergeev M.E. 2023. New data on the Coleoptera fauna of Askold Island, Primorsky Krai, Russia // Euroasian Entomological Journal. Vol.22. No.1. P.52–55, suppl.32–38.

- Voss E. 1956. Über einige in Fukien (China) gesammelten Rüssler, V, nebst einer neuen Gattung und Art aus Yunnan (Col., Curc) // Entomologische Blätter. Vol.51. P.21–55.
- Voss E. 1958. Ein Beitrag zur Kenntnis der Curculioniden im Grenzgebiet der orientalischen und paläarktischen Region (Col, Curc.). Die von J. Klapperich und Tschung Sen in der Provinz Fukien gesammelten Rüsselkäfer. (132. Beitrag zur Kenntnis der Curculioniden) // Decheniana. Vol.5. P.1–140.
- Zabaluev I.A. 2016. Opredelitel' zhukov-dolgonosikov (Coleoptera: Curculionidae) Rossii [Key to weevils (Coleoptera: Curculionidae) of Russia] // [https://coleop123.narod.ru/key/entiminae/Pseudocneorhinus\\_sellatus.html](https://coleop123.narod.ru/key/entiminae/Pseudocneorhinus_sellatus.html).
- Zherikhin V.V., Egorov A.B. 1991. Zhuki-dolgonosiki (Coleoptera, Curculionidae) dal'nego vostoka SSSR (obzor podsemejstev sopisaniemnovykh taksonov). [Weevils (Coleoptera, Curculionidae) from the Russian Far East: review of subfamilies with description of new taxa]. Vladivostok. 164 p. [In Russian].

Поступила в редакцию 20.7.2023