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S. N. Ivanov¹⁾, K. Ando²⁾, M. V. Nabozhenko^{3,4)}. CONTRIBUTION TO THE KNOWLEDGE OF THE GENUS *PLATYDEMA* LAPORTE ET BRULLÉ, 1831 (COLEOPTERA: TENEBRIONIDAE) FROM THE RUSSIAN FAR EAST. – *Far Eastern Entomologist*. 2017. N 329: 13-16.

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Summary. The data on distribution of three species of the genus *Platydema* Laporte et Brullé, 1831 (Coleoptera: Tenebrionidae) in the Russian Far East are summarized. One species, *P. detera* (Walker, 1858), is newly recorded from Russia. A key to the species of the genus *Platydema* distributed in Russian Far East is provided.

Key words: Coleoptera, Tenebrionidae, *Platydema*, fauna, new records, key, Russia.

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Резюме. Обобщены данные по распространению трех видов рода *Platydema* Laporte et Brullé, 1831 (Coleoptera: Tenebrionidae) на Дальнем Востоке России. Впервые для фауны России указывается *P. detera* (Walker, 1858). Приведена определительная таблица дальневосточных видов рода *Platydema*.

Two species of the genus *Platydema* were known from the south part of the Russian Far East. Heyden (1877) firstly recorded *P. dejeani* from Primorskii krai (as “Siberia”). One hundred years later Kaszab (1977) described from this territory *P. ussurianum* which was recently synonymized with *P. lyncea* (Schawaller, 2012). We found the third species of the genus *Platydema* in Primorskii krai.

This study is based on the examination of adult beetles from the following institutions and private collections: ZIN – Zoological Institute, Russian Academy of Sciences, St. Petersburg; IBSS – Institute of Biology and Soil Science, Far Eastern Branch of Russian Academy of Sciences, Vladivostok; CI – private collection of S.N. Ivanov; CN – private collection of M.V. Nabozhenko.

Genus *Platydema* Laporte et Brullé, 1831

REMARKS. The composition of the genus *Platydema* is well studied due to taxonomic revisions and faunistic reviews (Medvedev, 1992; Chûjô & Lee, 1993; Schawaller, 2003, 2004, 2012; Kim & Jung, 2005; Huang & Ren, 2009). Forty six species and subspecies of *Platydema* are known from the East Palaearctic region (Löbl *et al.*, 2008; Huang & Ren, 2009;

Schawaller, 2012). Six species are known from Russia. The trophic specialization and spatial distribution of Asian species are poorly studied.

Key to species of the genus *Platydema* from Russian Far East

- 1 Body dorsally matt, grey (with weak blue striae when to look in xylene). Male with strongly curved mesotibiae. Metaventricle with short setae in middle *P. detersa*
– Body dorsally shiny, often with metallic blue or violet color. Metaventricle glabrous in middle 2
2 Head with two horns (male) or tubercles (female) dorsally, compound eyes normal *P. dejeani*
– Head without horns or tubercles dorsally, compound eyes large in dorsal view *P. lyncea*

Platydema dejeani Laporte de Castelnau et Brullé, 1831

Fig. 1

MATERIAL EXAMINED. **Russia:** Khabarovskii krai: Komsomolsk-on-Amur, Silinskii Park, yellow fungi on the trunk of a linden, 9.VIII 1975, 1 specimens (sex unknown), leg. V.A. Mutin (IBSS); Primorskii krai: Chuguevsky District, Samarka, 44°44'N, 134°13'E, in polypore on birch, 23.V 1977, 1 specimen (sex unknown), leg. V.N. Kuznetsov (IBSS); Ussuriysk District, Kamenushka, 43°37'23"N, 132°13'50"E, in fungal noodles on oak, 25.IX 1995, 1 specimen (sex unknown), leg. A.S. Leley (IBSS); Sikhote-Alin, Oblachnaya Mt., Sobolinyi Stream, 43°41'43"N, 134°11'57"E, 15.VIII 1992, 2 specimens (sex unknown), leg. G.Sh. Lafer (IBSS); Gulf of the Peter the Great, Askold Island, 42°46'N, 132°20'E, fungi, 10–13.VI 2005, 1 specimen, sex and collector unknown (IBSS); Sikhote-Alin Nature Reserve, the headwaters of Zabolochennaya River, Shanduyskie Lakes, 1.IX 2015, 2 ♀, leg. M.E. Sergeev (CN); Sikhote-Alin Nature Reserve, Khanov Spring, 12.VIII 2015, 3 ♂, 4 ♀, leg. M.E. Sergeev (CN).

DISTRIBUTION. Russia (European part, south part of Siberia and Far East) (Medvedev, 1992), South and Middle Europe, North Africa (Tunisia, Algeria) (Löbl *et al.*, 2008).

Platydema lyncea Lewis, 1894

Figs 2, 3

MATERIAL EXAMINED. **Russia:** Primorskii krai: Ussuriyskii Reserve (=Suputinsky Reserve), 13.IX 1964, 1 paratype of *P. ussurianum* (sex unknown), leg. G.M. Dlussky (ZIN); Vladivostok, IX 1876, 1 specimen (sex unknown), leg. Christof (ZIN); Oktyabrsky District, near Chernyatino, Sinelovka Mt., 21.VI–5.VII 2015, 10 ♂, leg. S.N. Ivanov (CI); Kedrovaya Pad Reserve, oak, fungi, 25–30.VIII 1971, 4 specimens (sex unknown), leg. V.N. Kuznetsov (ZIN); “Primorskii krai”, locality, data and collector unknown, 1 ♂ (CI).

DISTRIBUTION. Russia (the Far East) (Kaszab, 1977; Medvedev, 1992), Korean Peninsula, Japan (Schawaller, 2004).

REMARKS. *Platydema ussurianum* Kaszab, 1977 described from Primorskii krai (Kaszab, 1977) was synonymized with *P. lyncea* by Schawaller (2012).

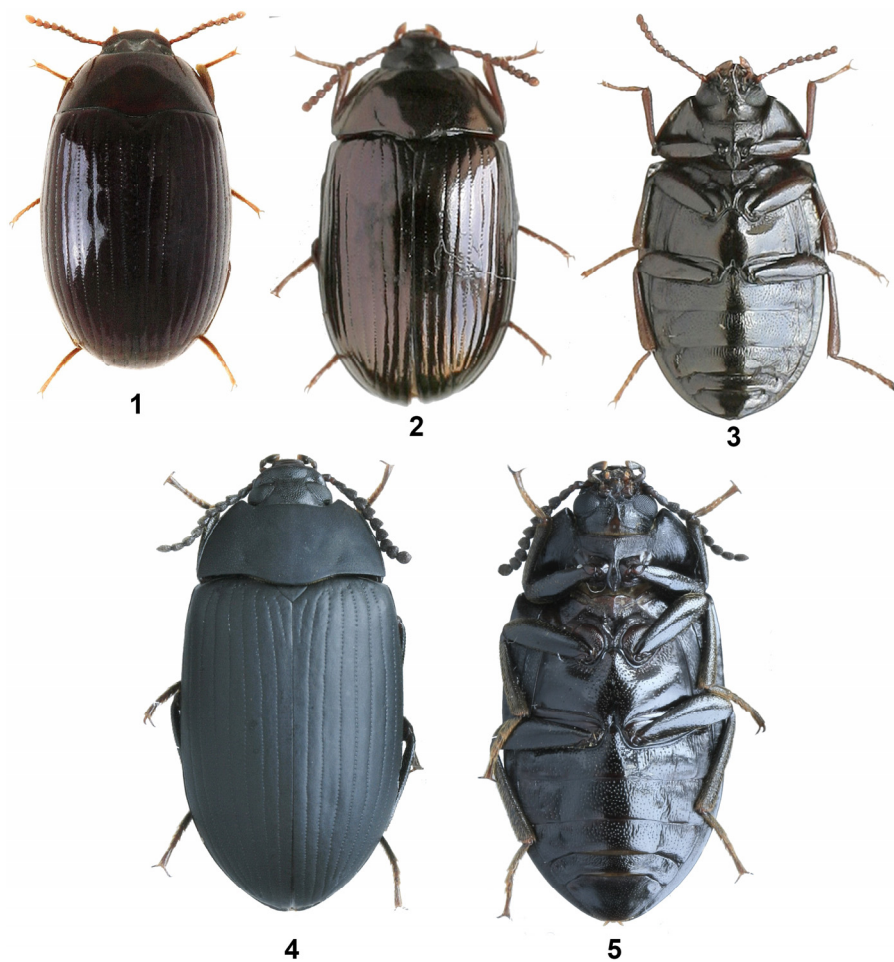
Platydema detersa (Walker, 1858)

Figs 4–5

MATERIAL EXAMINED. **Russia:** Primorskii krai, Oktyabrsky District, near Chernyatino, Sinelovka Mt., 21.VI–5.VII 2015, 5 ♀, leg. S.N. Ivanov (ZIN, CN, CI).

DISTRIBUTION. Russia (new record); widespread in Eastern Asia, Philippines, New Guinea, and Australia (Schawaller, 2004).

REMARK. In Russia females of *P. detera* were collected on *Quercus wutaishanica*. *P. detera* is sympatric with *P. lyncea* and inhabit the same locality and landscape near Sinelovka Mountain. Schawaller (2004) presumably synonymized *Platydema umbrata* (Marseul, 1876) with *P. detera* based on the study of populations from the Oriental and Palaearctic regions (China, Taiwan), but recently Ando (2015) considered *P. umbrata* as separate species and transferred it to the genus *Ceropria* Laporte et Brullé, 1831.



Figs. 1–5. Body of *Platydema* species. 1 – *P. dejeanii*, male dorsally; 2, 3 – *P. lyncea*, male: 2 – dorsally, 3 – ventrally; 4, 5 – *P. detera*, female: 4 – dorsally, 5 – ventrally.

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