

NEW DATA ON THE GENUS *DOLICHOPUS* LATREILLE, 1796 (DOLICHOPODIDAE, DIPTERA) FROM JAPAN

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[Негробов О.П., Кумазава Т., Таго Т., Маслова О.О. Новые сведения по роду *Dolichopus* Latreille, 1796 (Dolichopodidae, Diptera) в Японии]

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Ключевые слова: *Dolichopodidae*, *Dolichopus*, Япония, фауна, новые находки, лектотип

Summary. Three species of Dolichopodidae are recorded from Japan for the first time: *Dolichopus bigeniculatus* Parent, 1926, *D. kuznezovi* Negrobov et al., 2012, and *D. triangularis* Smirnov, 1948. The lectotype of *Dolichopus triangularis* Smirnov, 1948 is designated and morphological characters of the hypopygium are illustrated for the first time. The photos of the species: *Dolichopus bigeniculatus* Parent, 1926, *Dolichopus kuznezovi* Negrobov et al., 2012, *Dolichopus mediovenus* Negrobov, 1977, and *Dolichopus triangularis* Smirnov, 1948 are given for the first time.

Резюме. Впервые для Японии указывается 3 вида: *Dolichopus bigeniculatus* Parent, 1926, *D. kuznezovi* Negrobov et al., 2012, и *D. triangularis* Smirnov, 1948. Выделен лектотип *Dolichopus triangularis* Smirnov, 1948, впервые приводятся рисунки морфологии гипопигия. Впервые приведены фотографии видов: *Dolichopus bigeniculatus* Parent, 1926, *Dolichopus kuznezovi* Negrobov et al., 2012, *Dolichopus mediovenus* Negrobov, 1977 и *Dolichopus triangularis* Smirnov, 1948.

INTRODUCTION

The genus *Dolichopus* Latreille, 1796 is the largest genus of Dolichopodidae with more than 600 species worldwide [Yang et al., 2006]. No revision of the genus in the Palearctic Region has been published since the monograph of Stackelberg [1930a]. Negrobov et al. [2005] published the latest key to males of species of *Dolichopus*.

In Japan, six species of the genus were previously known.

The species *Dolichopus crassicauda* Parent was originally described from Japan [Parent, 1926] and recorded in the checklist of Japanese insects [Hirashima, 1989].

Dolichopus gubernator Mik, 1878 is widely distributed from Austria to Kamchatka peninsula, Sakhalin and Kurile Islands. In recent years, the species was recorded from Japan [Wada et al., 2007; Tago, 2010]. Wada et al. [2007] also described the female of the species which had not previously been known.

Dolichopus nitidus Fallén, 1823 has a wide distribution from Ireland, England, Norway, Sweden, Finland, Denmark and Germany to Oriental China (Henan, Shanghai). In Japan, several articles have

referred to this species [Hirashima, 1989; Saigusa, 2008; Tago, 2010].

Dolichopus plumipes (Scopoli, 1763). The most widespread species in Palaearctic, Nearctic and Neotropical regions. The species was also recorded on Hokkaido, Japan [Ishihara, 1983; Hirashima, 1989; Saigusa, 2008].

Dolichopus ptenopedilus Meuffels, 1981 was described from Japan (Hokkaido). The species is known from many parts of Eastern Russia and Mongolia. The distribution area of the species in Russia has been published [Maslova et al., 2012].

Dolichopus mediovenus Negrobov, 1977 was originally described from Primorye, Russia [Negrobov, 1977]. The record from Japan was documented in [Negrobov et al., 2014].

MATERIAL

The material for this study was collected by T. Tago in 2010 and 2011 from Saitama and Ibaraki Prefectures, and Tokyo Metropolis (Japan). We also investigated the collections of the Osaka Museum of Natural History (Japan) and Zoological Museum of Moscow University (Russia).

RESULTS

Dolichopus bigeniculatus Parent (col. pl. 00: a)

Material examined. Japan. Aichi. 9 ♂, Toyota City, Asahi, Odo, Koyana, 10.05.2009, leg. H. Ohishi; 1 ♂, Toyota City, Inabu-cho, Odagi, Takadoya marsh, 13.09.2009, leg. H. Ohishi; 2 ♂, Toyota City, Yakusa, Homi, 08.05.2011, leg. H. Ohishi; 4 ♂, Toyota City, Hiratobashi, Maeda, 29.06.2012, leg. H. Ohishi. Chiba. 1 ♂, Nagareyama City, Koya, 25.04.2010, leg. Tago. Saitama. 3 ♂, Misato City, Hanta, 18.06.2011, leg. Tago; 2 ♂, Hannou City, Mt. Tounosu, 17.05.2008, leg. Tago. Tokyo. 2 ♂, Mizumoto, Katsushika ward, 06.08.2011, leg. Tago (OMNH).

Remarks. This is the first record of *D. bigeniculatus* from Japan. This species was originally described from China. Stackelberg [1930b] reported this species from Primorye, Russia.

Dolichopus kuznezovi Negrobov et al., 2012 (col. pl. IV: b)

Material examined. Japan. Tokyo. 9 ♂, Katsushika ward, Mizumoto, 21.08.2010, 17.10.2010, leg. Tago. Saitama. 1 ♂, Misato City, Hanta, 11.10.2009, leg. Tago (OMNH).

Remarks. This is the first record of *D. kuznezovi* from Japan. The species was originally described from Primorye, Russia [Negrobov et al., 2012].

Dolichopus mediovenus Negrobov, 1977 (col. pl. IV: c)

Material examined. Japan. Saitama. 5 ♂, Misato City, Edogawa river bank, 26.07.2006, 15.05.2010, leg. Tago. Tokyo. 1 ♂, Mizumoto, Katsushika ward, 02.06.2007, leg. Tago. Ibaraki. 1 ♂, Tsuchiura City, Shishizuka-Ooike, 05.10.2009, leg. Tago. Aichi. 1 ♂, Toyota City, Ochiai, Yahagi-Kago river, 18.05.2009, leg. H. Ohishi (OMNH).

Dolichopus triangularis Smirnov, 1948 (col. pl. IV: d; fig. 1: a, b, c)

Material examined. Japan. Tokyo. 2 ♂, Edogawa ward, Rinkai-cho, 26.02.2012, leg. Tago (OMNH).

Remarks. The species was originally described from Primorye [Smirnov, 1948]. The author mentioned 7 syntypes for this species. In the collection of Zoological Museum of Moscow University, we have found only one type. Lectotype is designated here (pres. des.). The species has never been illustrated.

Lectotype. ♂. Russia, Primorye, Okeanskaya, 16.08.1940, leg. Smirnov.

These four species are recorded from Japan for the first time. The lectotype of *Dolichopus triangularis* Smirnov, 1948 is designated and morphological characters of the hypopygium are illustrated.

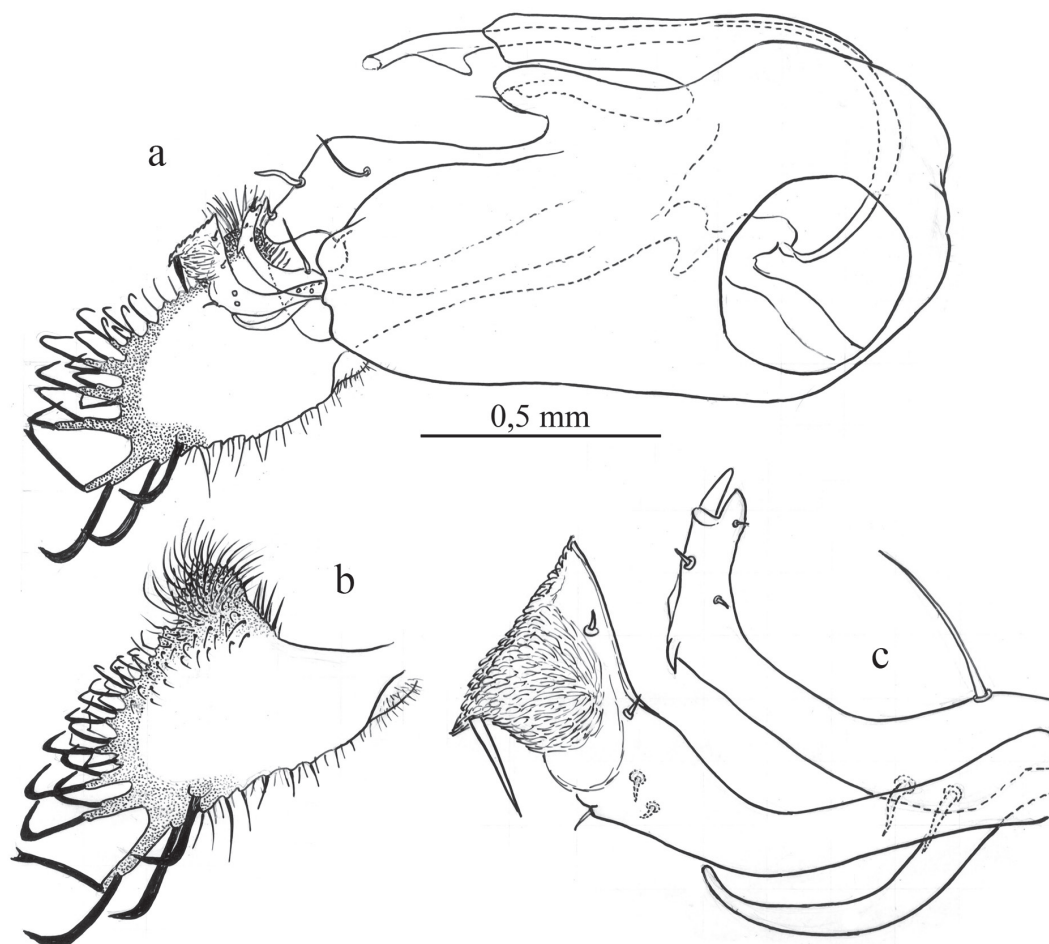


Fig. 1. *Dolichopus triangularis* Smirnov: a – hypopygium, lateral view, b – cerci, c – surstyli and postgonit, lateral view
Рис. 1. *Dolichopus triangularis* Smirnov: a – гипопигий латерально, b – церки, c – сурстилы и постгонит латерально

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Habitus of *Dolichopus* species: **a** – *Dolichopus bigeniculatus* Parent; **b** – *Dolichopus kuznezovi* Negrobov et al.; **c** – *Dolichopus mediovenus* Negrobov; **d** – *Dolichopus triangularis* Smirnov

Внешний вид *Dolichopus*: **a** – *Dolichopus bigeniculatus* Parent, **b** – *Dolichopus kuznezovi* Negrobov et al., **c** – *Dolichopus mediovenus* Negrobov, **d** – *Dolichopus triangularis* Smirnov