

# ***Diostracus lemavajulorum* spec. nov. (Diptera: Dolichopodidae) – a second European *Diostracus* s. str. species from Corsica, France**

[*Diostracus lemavajulorum* spec. nov. (Diptera: Dolichopodidae) – eine zweite europäische *Diostracus* s. str.-Art von Korsika, Frankreich]

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## **Abstract**

Up to now about 88 species of the subgenus *Diostracus* LOEW s. str. have been described. Almost all of them are distributed in East Asia and North America. Hitherto only one European species was known, *Diostracus* (*Diostracus*) *leucostomus* (LOEW, 1861) from the Alps. This paper describes a new *Diostracus* s. str. species from the European continent, *Diostracus* (*Diostracus*) *lemavajulorum* spec. nov., found in the course of two sampling tours in 1992 and 1993 in the Corsican Alps. Differences between the European species of *Diostracus* LOEW s. str. and the *Diostracus* subgenus *Sphyrotarsus* MIK, and aspects of zoogeography, are discussed.

## **Key words**

Dolichopodidae, Hydrophorinae, *Diostracus*, Palaearctic Region, Europe, France, Corsica, new species

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## **Zusammenfassung**

Bisher sind 88 Arten aus der Untergattung *Diostracus* s. str. beschrieben worden. Fast alle sind in ihrem Vorkommen auf Ostasien und Nordamerika beschränkt. Aus Europa war mit der alpinen *Diostracus* (*Diostracus*) *leucostomus* (LOEW, 1861) bisher nur eine Art bekannt. Die vorliegende Publikation hat die Beschreibung einer weiteren Art von *Diostracus* s. str. aus Europa zum Gegenstand. *Diostracus* (*Diostracus*) *lemavajulorum* spec. nov. wurde während zweier Sammeltouren in den Jahren 1992 und 1993 in den Korsischen Alpen gefunden. Unterschiede zwischen den europäischen Arten von *Diostracus* LOEW s. str. und der *Diostracus*-Untergattung *Sphyrotarsus* MIK sowie Aspekte zur Zoogeographie werden diskutiert.

## **Stichwörter**

Dolichopodidae, Hydrophorinae, *Diostracus*, paläarktische Region, Europa, Frankreich, Korsika, neue Art

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## **Introduction**

The genus *Diostracus* (subfamily Hydrophorinae) belongs to the few dolichopodid genera which live exclusively in mountain torrents, streams and waterfalls (MASANUGA 2000, GRICHANOV et al. 2011). The adult flies of this genus are found on big stones and boulders which project out of the stream (Figs 1, 2) or on plants hanging over the water, in mountain streams at high altitude (TAKAGI 1968, ZHU et al. 2007). They never occur in large numbers and only sporadically can single individuals be found here and there (TAKAGI 1968).

The genus *Diostracus* s. str. had long been supposed to be North American in distribution. But in 1968 it was also discovered in Asia (TAKAGI 1968), and, since then, many new Asian species have been described (TAKAGI 1972; NEGROBOV 1980; SAIGUSA 1984, 1995; WEI & LIU 1996; SAIGUSA et al. 1997; MASANUGA 2000; ZHANG et al. 2003). Notwithstanding this Palaearctic distribution, TAKAGI (1968) assumed that this genus does not occur in Europe, but in 1991 this assumption was disproved with the transferring of the alpine European *Liancalus leucostomus* (LOEW, 1861) species, the type species of *Asphyrotarsus* OLDENBERG, 1916, into the genus *Diostracus* s. str. (NEGROBOV 1991). To date, this genus is represented by only one species in Europe.