

## Three new species of *Orthocladius* subgenus *Eudactylocladius* (Diptera: Chironomidae) from Norway

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### Abstract

The male imagines of *Orthocladius* (*Eudactylocladius*) *priomixtus* sp. n., *O. (E.) schnelli* sp. n. and *O. (E.) musester* sp. n. and the tentatively associated pupa of *O. (E.) priomixtus* are described. The male imago of *O. (E.) priomixtus* differs from the closely related *O. (E.) subletteorum* Cranston by having a preapical projection of the gonostylus and more numerous setae on the squama. The tentatively associated pupa has oval spine patches on tergite II and absent or reduced pedes spurii B as the tentatively associated *O. (E.) subletteorum*, but lacks any pleural spinules. *O. (E.) schnelli* has strong and dense microtrichiae on the gonostylus and a well sclerotised anal point. *O. (E.) musester* resembles *O. (E.) fuscimanus* (Kieffer), but has a more developed inferior volsella of the gonocoxite and a conspicuously broad cibarial pump. A revised key to male imagines of the subgenus is given.

**Key words:** *Orthocladius*, *Eudactylocladius*, new species, key, Orthoclaadiinae, Chironomidae

### Introduction

The subgenus *Eudactylocladius* Thienemann of the genus *Orthocladius* v. d. Wulp often dominates the fauna of thin water films in temperate regions. In arctic regions the larvae occur in inundated or damp soil and lake margins. Other species in temperate Holarctic regions and montane Afrotropical regions are truly lotic in streams.

Cranston (1984, 1999) revised the subgenus. He examined the types of *Chironomus mixtus* Holmgren, 1869 previously regarded as an *Eudactylocladius*, and found that the female holotype belonged to an undetermined species of the subgenus *Orthocladius*. Some of the Nearctic specimens previously misidentified as *O. (E.) mixtus* were redescribed as a new species, *Orthocladius* (*Eudactylocladius*) *subletteorum* by Cranston (1999: 291).

According to Cranston (1999) other Nearctic and some Scandinavian specimens referred to *O. (E.) mixtus* belong to *O. (E.) gelidorum* (Kieffer), while he regarded the