

The genus *Recilia* Edwards, 1922 (Hemiptera, Cicadellidae) confirmed from Northern Europe

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There have been some uncertainties concerning the presence of *Recilia coronifer* (Marshall, 1866) in Northern Europe. The species was reported from Denmark in 1992, but the whereabouts of the specimens have been uncertain. In addition to these specimens, one additional record from Denmark and one additional record from Norway are presented. These records confirm the presence of the genus in Northern Europe and represent a hopper species new to the Norwegian fauna as well. The ecology and biology of the species are commented on.

Key words: Hemiptera, Auchenorrhyncha, Cicadellidae, *Recilia coronifer*, Northern Europe, Denmark, Norway, new record.

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Introduction

According to Söderman *et al.* (2009), 291 hopper species (Auchenorrhyncha) have been recorded from Norway. Adding some recent publications and some unpublished records, the actual number is exceeding 300 (Ødegaard *et al.* 2010), and increasing.

The genus *Recilia* Edwards, 1922 belongs to the tribe Deltocephalini within the subfamily Deltocephalinae of the Cicadellidae. The tribe Deltocephalini includes some of the most abundant grassland leafhoppers worldwide (Webb & Viraktamath 2009). There have been many different definitions of the genera within this tribe throughout history, especially regarding *Recilia* (see details in Webb & Viraktamath 2009).

According to Fauna Europaea (Jach 2013), three species of *Recilia* can be found in Central Europe, namely *R. coronifer* (Marshall, 1866), *R. horvathi* (Then, 1896) and *R. schmidtgeni* (W. Wagner, 1939). However, in their monograph on the Old World Deltocephalini leafhoppers, Webb

& Viraktamath (2009) revised *Recilia*, and except from two species, *R. coronifer* (Marshall, 1866) and *R. raoi* (Dash & Viraktamath, 1998), comb. nov. (from *Deltocephalus* Burmeister, 1838), they transferred all other species formerly in *Recilia* or *Deltocephalus* (*Recilia*) to the genus *Maiestas* Distant, 1917. Applying this, *R. coronifer* is now the only European species in its genus.

Material and methods

The current paper is based on a material of hoppers collected in an ongoing research program run by the Norwegian Institute for Nature Research (NINA). One of the objectives of the program is to investigate how species assemblages and their species traits in restricted and critical habitats are affected by the habitat's distribution in space and size, with specific focus on red-listed species (vascular plants and hoppers). One of the critical habitats investigated is the calcareous meadows in the Oslofjord area.