

ENDANGERED SPECIES OF GENUS *NICROPHORUS* (COLEOPTERA: NICROPHORINAE) IN THE CZECH REPUBLIC

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❖ Abstract

Distribution data of the three endangered species of the genus *Nicrophorus* (*N. antennatus*, *N. germanicus* and *N. sepultor*) were collected. MaxEnt models of their occurrence across Europe are presented with remarks on their protection and probable threats.

❖ Introduction

Burying beetles (Coleoptera: Nicrophorinae) are often associated with animal carcasses and they play a key role in their decomposition. In the Czech Republic was observed 9 species of this genus and 4 of them are regarded as endangered in the Czech Red list.

Decline of their abundance occurred between 1960s and 1990s, but the reasons are unknown. In this article we evaluated the current status, distribution and the main threats to them.

❖ Methodology

Beetles were captured by baited pitfall traps across four regions in the Czech Republic. They were identified to species level and stored dry mounted. We pooled our data with GBIF database records and created distribution models (MaxEnt) for all of them.

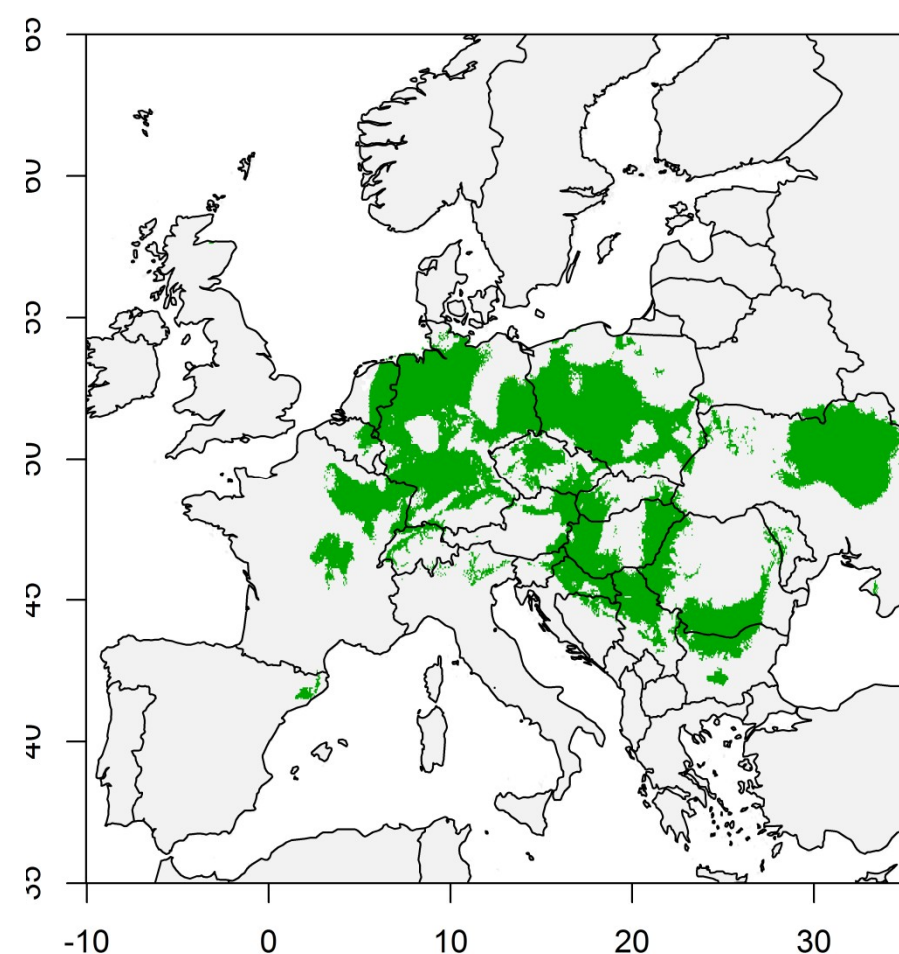
❖ Results

Nicrophorus antennatus (Reitter, 1884)

Red list status: Vulnerable

Preferred biotope: Warm open landscape

Threats: Intensive farming practices

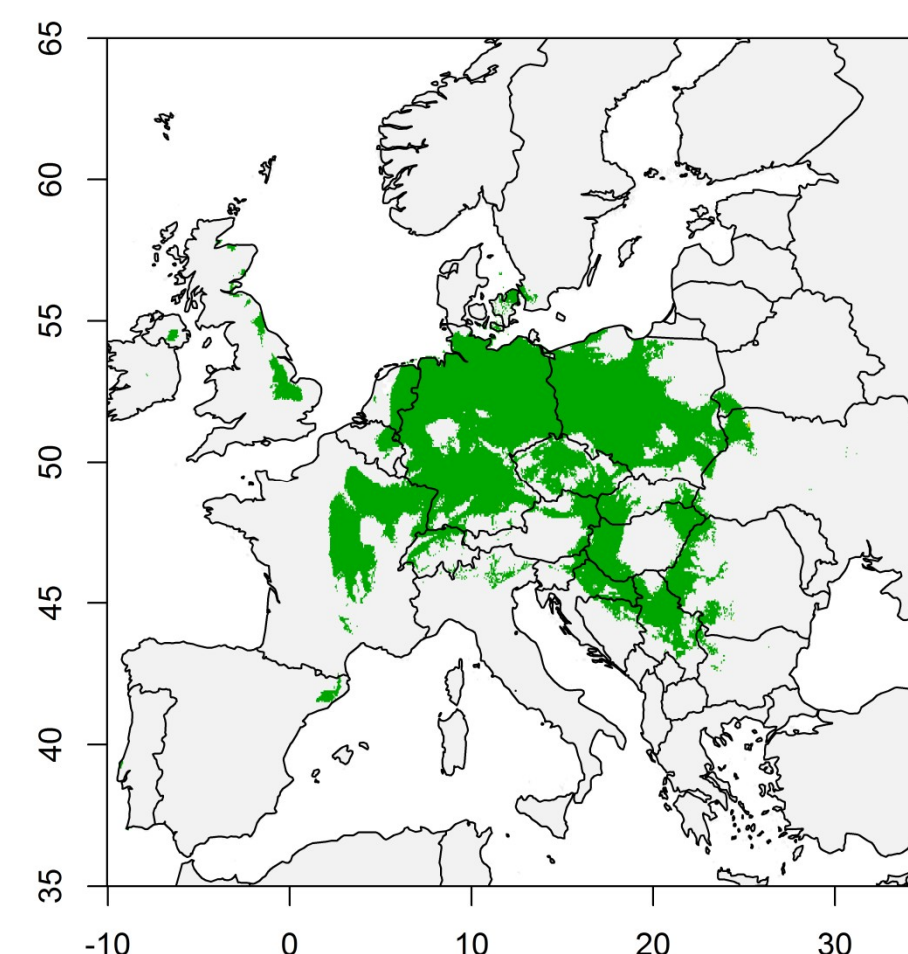


Nicrophorus germanicus (Linnaeus, 1758)

Red list status: Vulnerable

Preferred biotope: Warm open landscape

Threats: Intensive farming practices

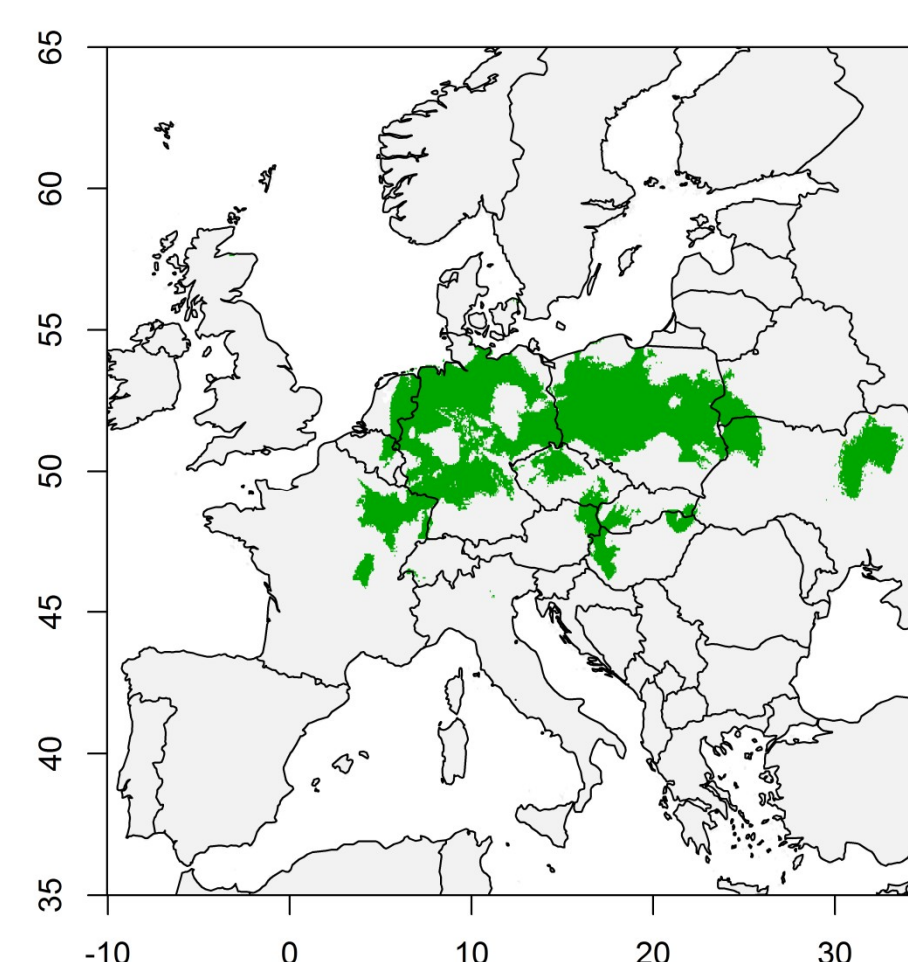


Nicrophorus sepultor Charpentier, 1825

Red list status: Near threatened

Preferred biotope: Warm or mildly warm open landscape

Threats: Intensive farming practices



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