



Nationalpark Gesäuse GmbH
Fachbereich Naturschutz & Forschung

Identification of copepods and amphipods in springs of the National Park Gesäuse - Period 2019-2020 - Short report

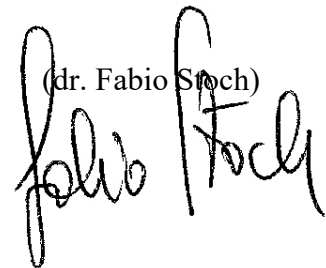
FABIO STOCH

This study deals with copepod and amphipod crustaceans collected during year 2018 (further material will be received in 2021).

The specimens were sorted under a Zeiss stereomicroscope; selected specimens were transferred in a drop of glycerine, dissected and mounted on slides. The material was identified under a Zeiss compound microscope equipped with Nomarski Interferential Contrast. All the specimens present in the vials were counted and preserved in 75° ethanol with glycerol for future studies.

In the same period, thanks to funds made available by the Université libre de Bruxelles, molecular analyses were performed on some specimens collected in the Nationalpark Gesäuse, allowing to establish their specific status (definitive classification: *Niphargus salzburgensis*).

Rome, 04 December 2020

(dr. Fabio Stoch)


Annexes: List of species identified; all the complete dataset with coordinates and details was delivered in Excel format to the spring project coordinator, dr. Reinhard Gerecke

MIT UNTERSTÜTZUNG DES LANDES STEIERMARK UND DER EUROPÄISCHEN UNION



Europäischer
Landwirtschaftsfonds für
die Entwicklung des
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Annex 1: List of species identified in the samples

Copepoda Calanoida

* *Arctodiaptomus alpinus* (Imhof, 1885): 2 sites

Copepoda Cyclopoida

Eucyclops serrulatus (Fischer, 1851): 1 site (abundant, 497 specimens counted)

Acanthocyclops vernalis (Fischer, 1853): 1 site

Copepoda Harpacticoida

Bryocamptus (Rheocamptus) zschokkei (Schmeil, 1893): 1 site

Bryocamptus (Rheocamptus) tatrensis (Minkiewicz, 1916): 1 site

Bryocamptus (Echinocamptus) echinatus (Mrázek, 1893): 2 sites

Bryocamptus (Arcticocamptus) cuspidatus (Schmeil, 1893): 2 sites

Bryocamptus (Arcticocamptus) rhaeticus (Schmeil, 1893): 2 sites

Hypocamptus brehmi (Douwe 1922): 1 site

Malacostraca Amphipoda

***Niphargus salzburgensis* Schellenberg, 1935: 2 sites

* Species new to Gesäuse fauna

** Groundwater, blind species identified on molecular basis; see the publication:

Stoch F., Christian E., Flot J.-F., 2020. Molecular taxonomy, phylogeny and biogeography of the *Niphargus tatrensis* species complex (Amphipoda, Niphargidae) in Austria. *Organism Diversity & Evolution*, 20: 701-722.