

## Tierische Wiederbesiedlung einer Rekultivierungsfläche am Stadtrand von Innsbruck mit besonderer Berücksichtigung der Diplopoda

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The recolonisation of the epigaeic arthropod fauna – with special consideration of the millipedes – of a renaturated area in the western outskirts of Innsbruck is described. Pitfall trapping (and soil sampling) took place in the periods of April-May of the years 1993, 1995, 1997, 1999, 2001 and 2003. Additional material was collected by further 12 pitfall traps from Nov. 2003 till Nov. 2004. The investigation is based on 26.535 epigaeic arthropods and 1.872 millipedes. A high variety of epigaeic arthropods was found in this renaturated area. During the period of Nov. 2003 till Nov. 2004 647 millipedes (145 adult males, 502 juvenile and female specimens) were caught: Julida (3 spp.), Polydesmida (2 spp.) and Chordeumatida (4 spp.). No Glomerida were found. Only 22 % of the pitfall trapped millipedes were male adults, which is exceptionally little. Taking 1.225 Diplopoda (412 adult males out of 12 species: Polydesmida (4 spp.), Julida (5 spp.), Chordeumatida (2 spp.) and Polyxenida (1 sp.)), from the years 1993-2003, it was possible to assess the different colonization strategies of the different species. As has been proved after 14 years of recolonisation 8 well established millipede species live in the area (*Cylindroiulus caeruleocinctus*, *Ophiulus pilosus*, *Melogona voigti*, *Melogona broelemanni*, *Mastigona bosniensis*, *Mastigona mutabilis*, *Polydesmus denticulatus*, *Polydesmus angustus*). Five species were only found once over the whole period of examination (*Allajulus nitidus*, *Brachyiulus pusillus*, *Unciger foetidus*, *Polyxenus lagurus*, *Megaphyllum projectum*). Two initially abundant species (*Polydesmus inconstans*, *Polydesmus superus*) have totally disappeared today. Four species (*Allajulus nitidus*, *Brachyiulus pusillus*, *Mastigona bosniensis*, *Melogona broelemanni*) were recorded for the first time in Northern Tyrol.

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Zeitschrift/Journal: [Entomologica Austriaca](#)

Jahr/Year: 2006

Band/Volume: [0013](#)

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Artikel/Article: [Abstract: Tierische Wiederbesiedlung einer Rekultivierungsfläche am Stadtrand von Innsbruck mit besonderer Berücksichtigung der Diplopoda. 88](#)