Accepted Manuscript

Title: Soil food web assembly and vegetation development in a glacial chronosequence in Iceland

Authors: J.P. van Leeuwen, G.J. Lair, G. Gísladóttir, T. Sandén, J. Bloem, L. Hemerik, P.C. de Ruiter

PII: S0031-4056(17)30200-7

DOI: https://doi.org/10.1016/j.pedobi.2018.08.002

Reference: PEDOBI 50542

To appear in:

Received date: 7-9-2017 Revised date: 9-8-2018 Accepted date: 9-8-2018

Please cite this article as: van Leeuwen JP, Lair GJ, Gísladóttir G, Sandén T, Bloem J, Hemerik L, de Ruiter PC, Soil food web assembly and vegetation development in a glacial chronosequence in Iceland, *Pedobiologia - Journal of Soil Ecology* (2018), https://doi.org/10.1016/j.pedobi.2018.08.002

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



ACCEPTED MANUSCRIPT

Soil food web assembly and vegetation development in a glacial chronosequence in Iceland

J.P. van Leeuwen^{a,*}, G.J. Lair^b, G. Gísladóttir^c, T. Sandén^{c,d}, J. Bloem^e, L. Hemerik^a, P.C. de Ruiter^{a,f}

^aBiometris, Wageningen University and Research (WUR), P.O. Box 16, 6700 AA Wageningen, The Netherlands.

^bInstitute of Soil Research, University of Natural Resources and Life Sciences (BOKU), Peter-Jordan-Straße 82, 1190 Vienna, Austria.

^c Institute of Life and Environmental Sciences, and Institute of Earth Sciences, University of Iceland, Sturlugata 7, IS-101 Reykjavík, Iceland.

^dDepartment for Soil Health and Plant Nutrition, Institute for Sustainable Plant Production, Austrian Agency for Health and Food Safety (AGES), Spargelfeldstrasse 191, 1220 Vienna, Austria.

^eWageningen Environmental Research, Wageningen University and Research (WUR), P.O. Box 47, 6700 AA Wageningen, The Netherlands.

^fInstitute for Biodiversity and Ecosystem Dynamics (IBED), Faculty of Science, University of Amsterdam, P.O. Box 94248, 1090 GE Amsterdam, The Netherlands.

*Correspondence to: Biometris, Wageningen University, P.O. Box 16, 6700 AA Wageningen, The Netherlands. +31 317 481431 jeroen.vanleeuwen@wur.nl

Highlights

- Vegetation cover increased with successional age, but species richness levelled off quickly
- Soil food web complexity increased initially but stabilizes after about a century
- Late successional stages suggest plant driven facilitation of soil food web

Download English Version:

https://daneshyari.com/en/article/9954343

Download Persian Version:

https://daneshyari.com/article/9954343

<u>Daneshyari.com</u>