Das Department Biozönoseforschung des UFZ lädt zu seiner Seminarreihe herzlich ein.

HELMHOLTZ ZENTRUM FÜR UMWELTFORSCHUNG UFZ

Veranstaltungsort:
Helmholtz-Zentrum für Umweltforschung GmbH – UFZ
Theodor-Lieser-Str. 4, 06120 Halle (Saale)
Vortragssaal im Erdgeschoss

September 21, 2018, 10:00 am

Elena Motivans (German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig and Department of Community Ecology, Helmholtz-Centre for Environmental Research - UFZ):

Unraveling plant-pollinator networks across land use gradients

Abstract: Countries in Eastern Europe still contain many extensively managed meadows with a wealth of insect and plant diversity. Currently, many of these meadows are faced with land use changes. Therefore, it is essential to gather baseline data about pollination networks and services to inform management decisions. This current project seeks to uncover the importance of pollinator interactions by utilizing different techniques, such as molecular analysis, flow cytometry and morphological identification, to identify pollinators and assess their importance in pollination. The research questions include (1) finding the difference in pollination network structure between different land-use types and (2) comparing visitation networks to pollen transport networks.

Leana Zoller (German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig and Martin-Luther-University Halle-Wittenberg):

A glimpse into the past: a comparison of historic and present-day plant-pollinator interactions at high northern latitudes

Abstract: The majority of the world´s plants rely on animal pollinators for reproduction, making pollination a key ecosystem service for the maintenance of natural and cultivated plant communities. However, pollinators are experiencing a severe global decline. Amongst other anthropogenic drivers, climate change is considered responsible for this decline. In arctic and mountainous regions, climate change is projected to be especially pronounced. Understanding the impact of climate change on ecosystems is challenging, since the effects may take decades to transpire. We aim to overcome that challenge by using a historical dataset collected by F. Silén in the summers of 1895-1900. He recorded flower visitors of 87 different plant species in the surroundings of Kittilä, Finland, providing us with a valuable insight on plant-pollinator interactions from over a century ago. In my talk I´m going to give you a broad overview of the project, where we resample plant-pollinator interaction networks in Kittilä and compare them with the historical data in order to explore the changes that occurred during the last century in plant-pollinator networks in high northern latitudes.

Aktuelle Informationen zur Seminarreihe unter:
www.ufz.de ›› Fachbereiche ›› Terrestrische Ökologie ›› Biozönoseforschung ›› Seminare
http://www.ufz.de/index.php?en=5217