

First Announcement

UFZ Environmental Modeling & Monitoring Colloquium

Wednesday, 12 May 2027, 10:30 am – 12:00 noon

UFZ, Leipziger KUBUS, Lecture Hall 2 & virtual

"TripleBird: On Models and Monitors to Help Biodiversity"

Tatiane Micheletti, Lisa Hildebrand & Laura Quintero

The BirdFutures Team within TripleBird, UFZ Leipzig & iDiv

Biodiversity is changing quickly under land use and climate change, and we need ways to tell which measures could help and whether they work. TripleBird is a project that works on these questions, with birds as the indicator group. BirdFutures is a Junior Research Group within TripleBird that takes care of the modelling, and this colloquium will allow us to go into the details of our modelling plan.

We will show how the modelling fits together: species distribution models that link bird records to climate, land cover and habitat at three spatial scales; the BirdMonitor, which turns – in the manner of a digital twin – the output of these models into regularly updated maps and trends for a set of bird species; and social-ecological modelling with co-design processes, in which NGOs help to shape intervention scenarios, for instance in the context of the EU Nature Restoration Regulation. Birds are our starting point but the workflow is built so that it can be applied to other indicator groups, too.

After the **colloquium talk**, three **stations** invite you to ask questions and discuss with the team:

1 The BirdMonitor and its architecture under development, with *Tatiane Micheletti* and *Petra Jacobs*

2 The hierarchical species distribution meta modelling approach, with *Lisa Hildebrand*

3 Co-design processes and NGO-based intervention scenarios, with *Laura Quintero* and *Milina Alber*

All interested colleagues are kindly invited.

The BirdFutures Team (UFZ & iDiv)



Tatiane Micheletti (*m*) leads BirdFutures. She builds modular modelling workflows that connect monitoring data and ecological models, and coordinates how the modelling parts of TripleBird fit together.

Lisa Hildebrand (*l*) is a postdoc in ecological modelling. She develops the species distribution models that describe where birds occur and how distribution changes with climate and land use across spatial scales.

Laura Quintero (*r*) is a postdoc in social-ecological modelling. She works on co-design processes and on intervention scenarios developed together with stakeholders, including NGOs in the context of EU restoration policy.

ZOOM-Link: https://ufz-de.zoom-x.de/j/64021254363?pwd=VpQ7tuK6V9LYNyYnZ2rhiDOROoZz1n.1