



Biodiversität und Klima
Forschungszentrum

Biodiversity

Projecting Future Changes in Biodiversity across the Globe

Thomas Hickler, Mike Harfoot, Ryan Pavlik, Christian Hof, Aidin Niamir, Katrin Boehning-Gaese, Miranda Jones, Simon Ferrier, Carsten Dormann, Paul Leadley, Simon Ferrier, Andrew Purvis, Tim Newbold, William Cheung, ...



Support from
IPBES
Diversitas,
Future Earth ScenNet
(Biodiversity and
Ecosystem Scenarios
Network)

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world of biodiversity

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ScenNet, Biodiversity and Ecosystem Scenarios Network

ScenNet aims to strengthen national and international ties between researchers working on scenarios of biodiversity and ecosystem services in all aspects of these scenarios from the modelling of impacts of global change to projecting socio-economic development and feedbacks on decision-making.

Scenarios are a crucial tool for foresight analysis used successfully in the past, notably by the [Intergovernmental Panel on Climate](#)

Very different model types

And no good data for terrestrial model evaluation for the past

1.) Terrestrial Species Distribution Models (SDMs)

2.) SDMs from FishMip

3.) Abundance and richness models (dose-response)

4.) Plant trait diversity model (Jena Diversity Model JEDI)

5.) Global ecosystem trophic interaction modelling (Madingley model)

6.) Species area relationship?

....

Linking Biome and Biodiversity sectors



1.5 degrees will be mainly about land use change

ARTICLE

doi:10.1038/nature14324

Global effects of land use on local terrestrial biodiversity

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Based on about 11.500 plots with different land use types and intensities, about 27.000 species