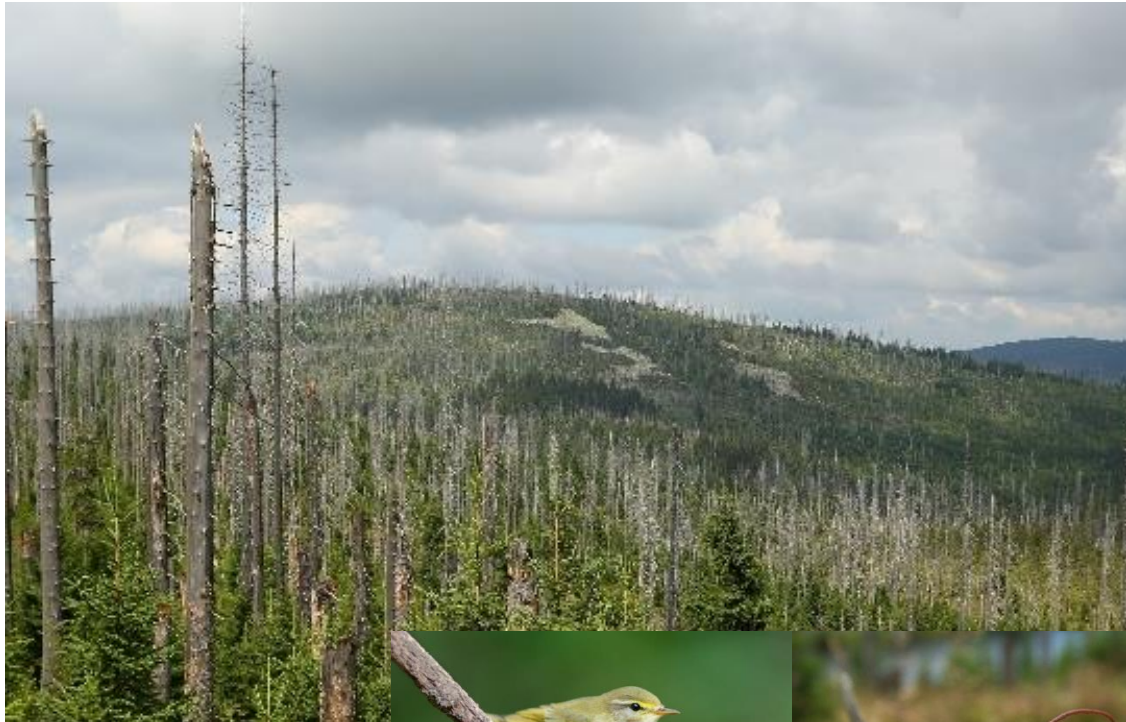


Sturm, Borkenkäfer und Co – Auswirkungen von natürlichen Störungen und Sanitärhieben auf die Biodiversität im Wald





8000 v. Chr. Wälder erreichen ihre maximale Ausdehnung in Europa



800 v. Chr. flächendeckender menschlicher Einfluss



1750 Wälder erreichen ihre minimale Ausdehnung



1948 – 1995 Verdreifachung der Holzvorräte



Ab 1980 deutliche Zunahme von natürlichen Störungen



2000 – 2020 Studien zu Biodiversität und Störungen

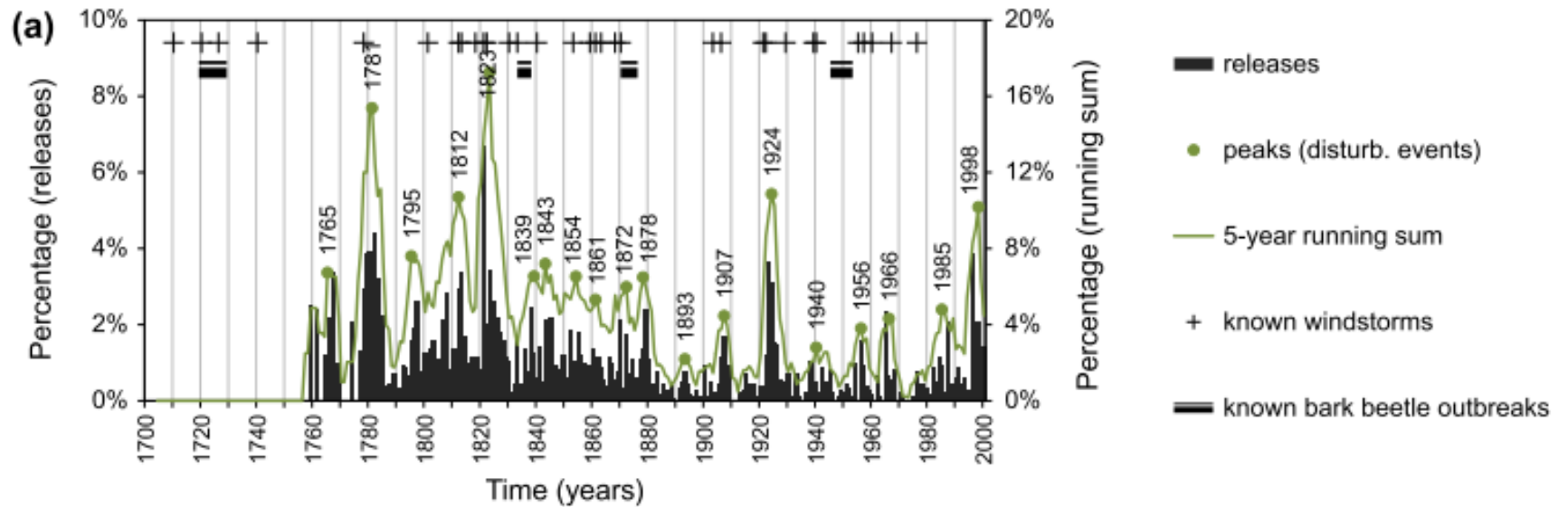


2006 Habitatbaumkonzept der Bayerischen Staatsforsten



2022 Naturschutzleitlinie HessenForst

Natürliche Störungen in Wäldern - Historisch

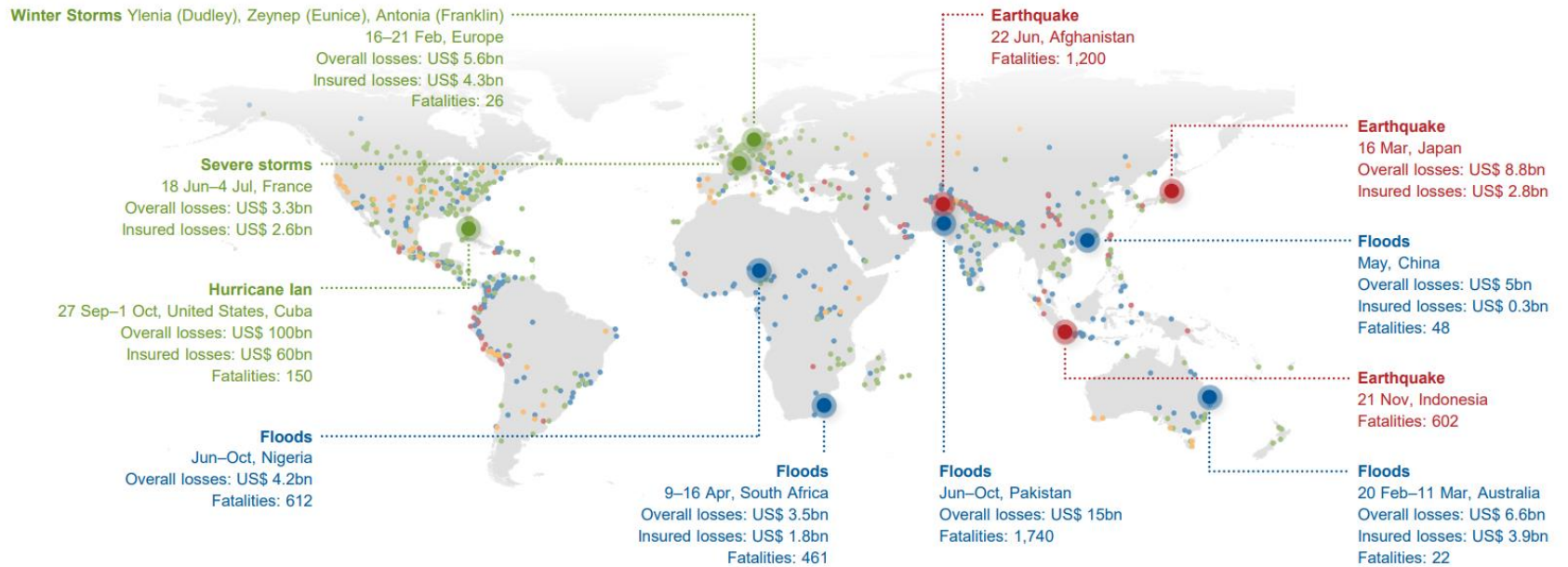


Natürliche Störungen - Aktuell

NatCatSERVICE

Nat cat loss events 2022

Natural catastrophes caused overall losses of US\$ 270bn worldwide



Geophysical events
Earthquake, tsunamis,
volcanic activity



Meteorological events
Tropical storm, extratropical storm,
convective storm, local storm



Hydrological events
Flood, mass movement



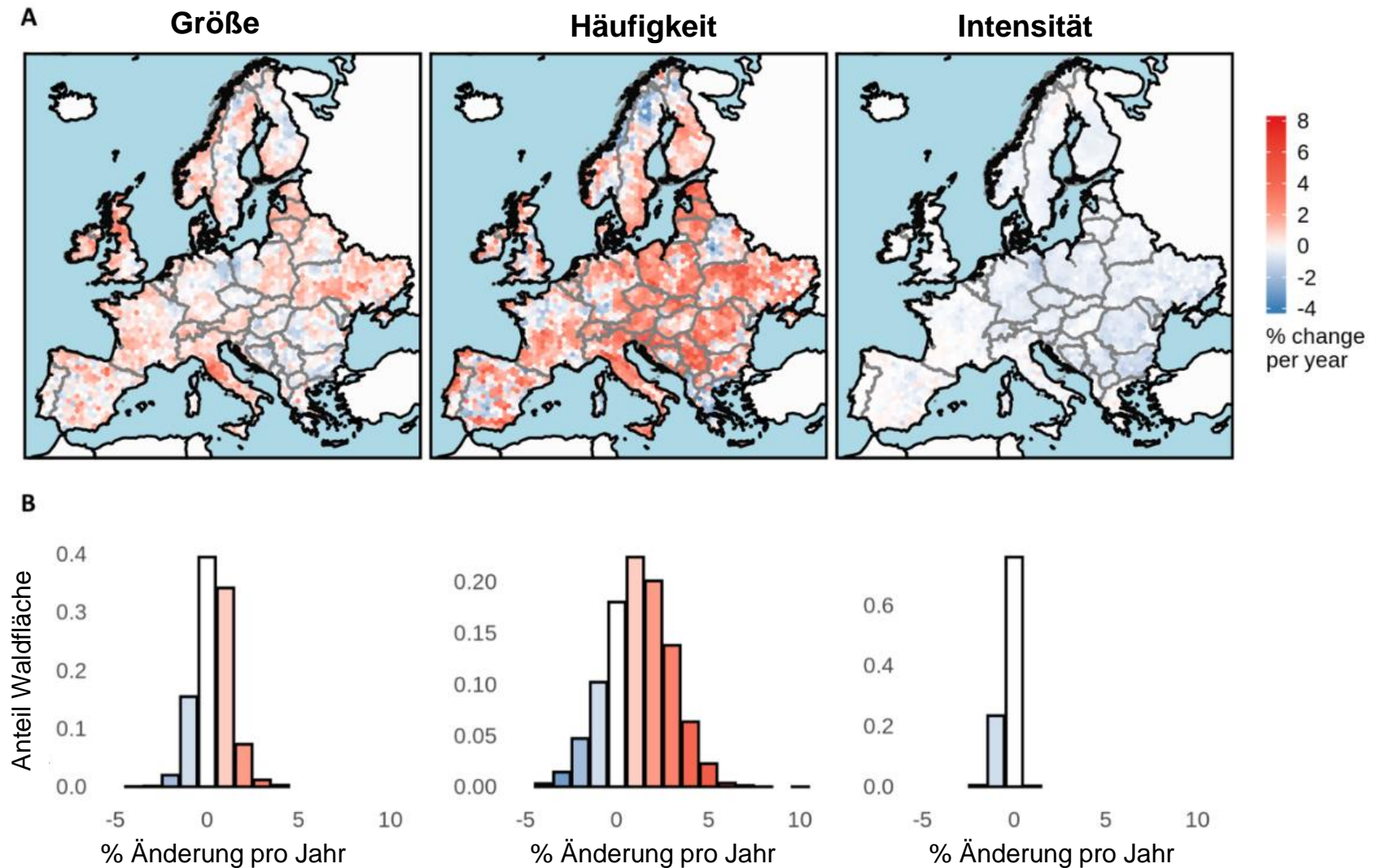
Climatological events
Extreme temperature,
drought, wildfire



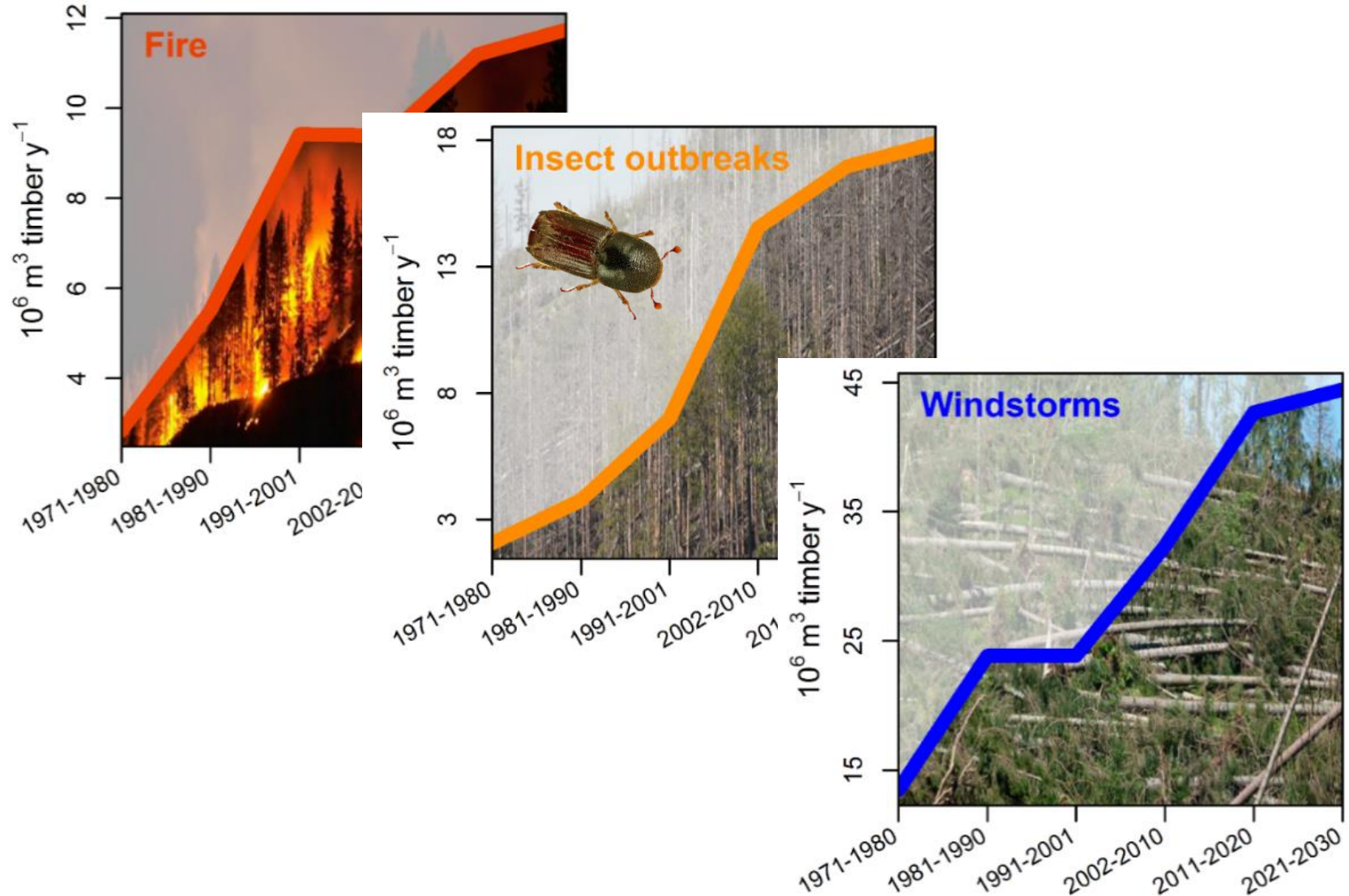
Significant catastrophes
(based on the number of fatalities, overall and
insured losses)
● All loss events
(based on property damage and/or fatalities)

Source: Munich Re, NatCatSERVICE, 2023

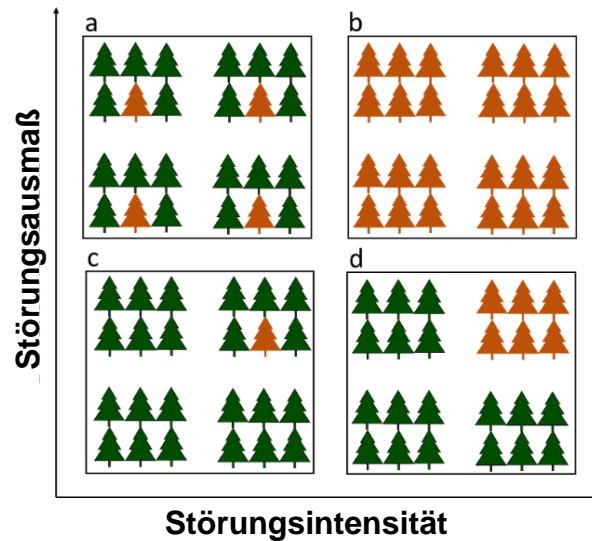
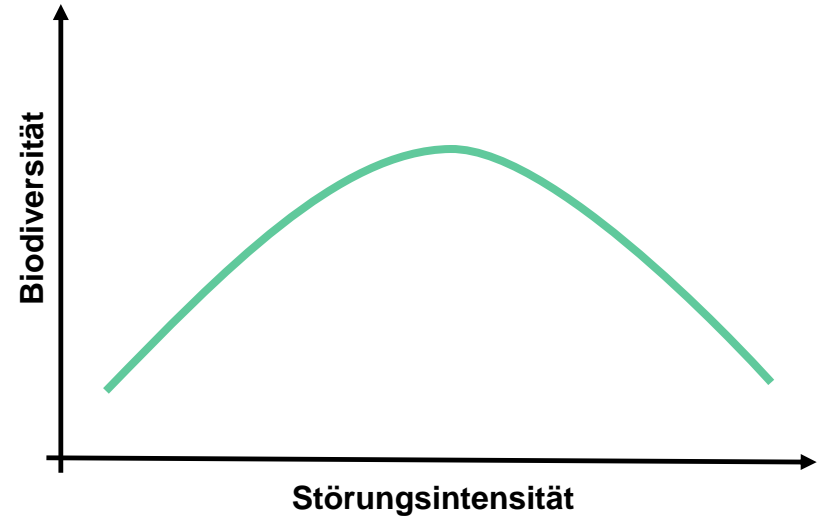
Natürliche Störungen - Aktuell



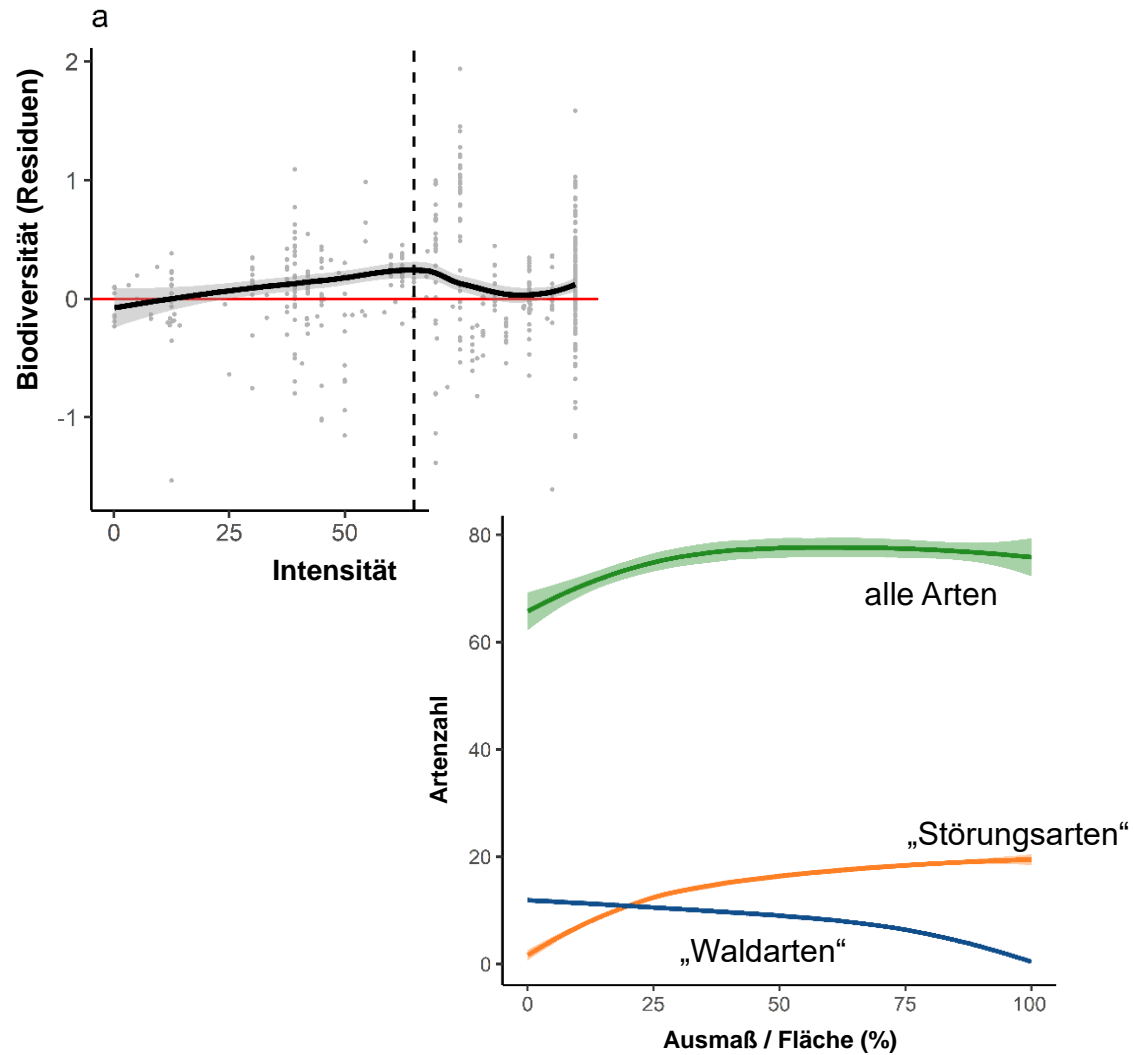
Natürliche Störungen - Prognose



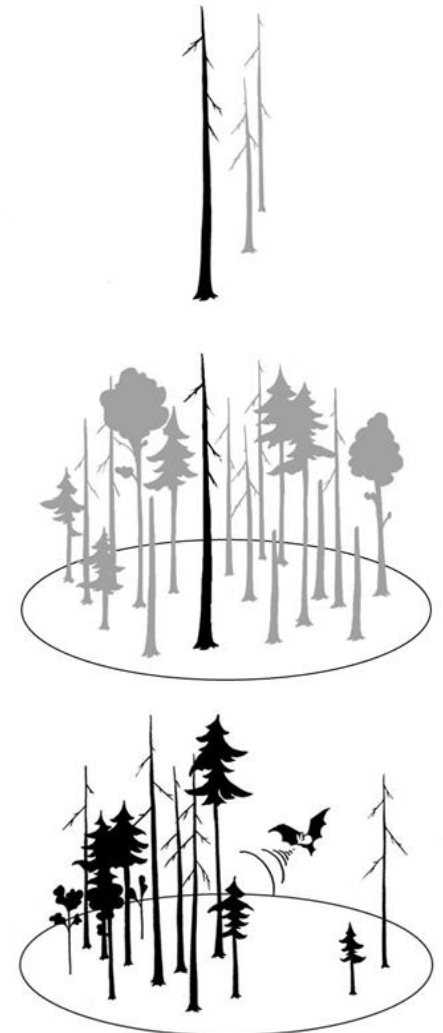
Störungen und Biodiversität



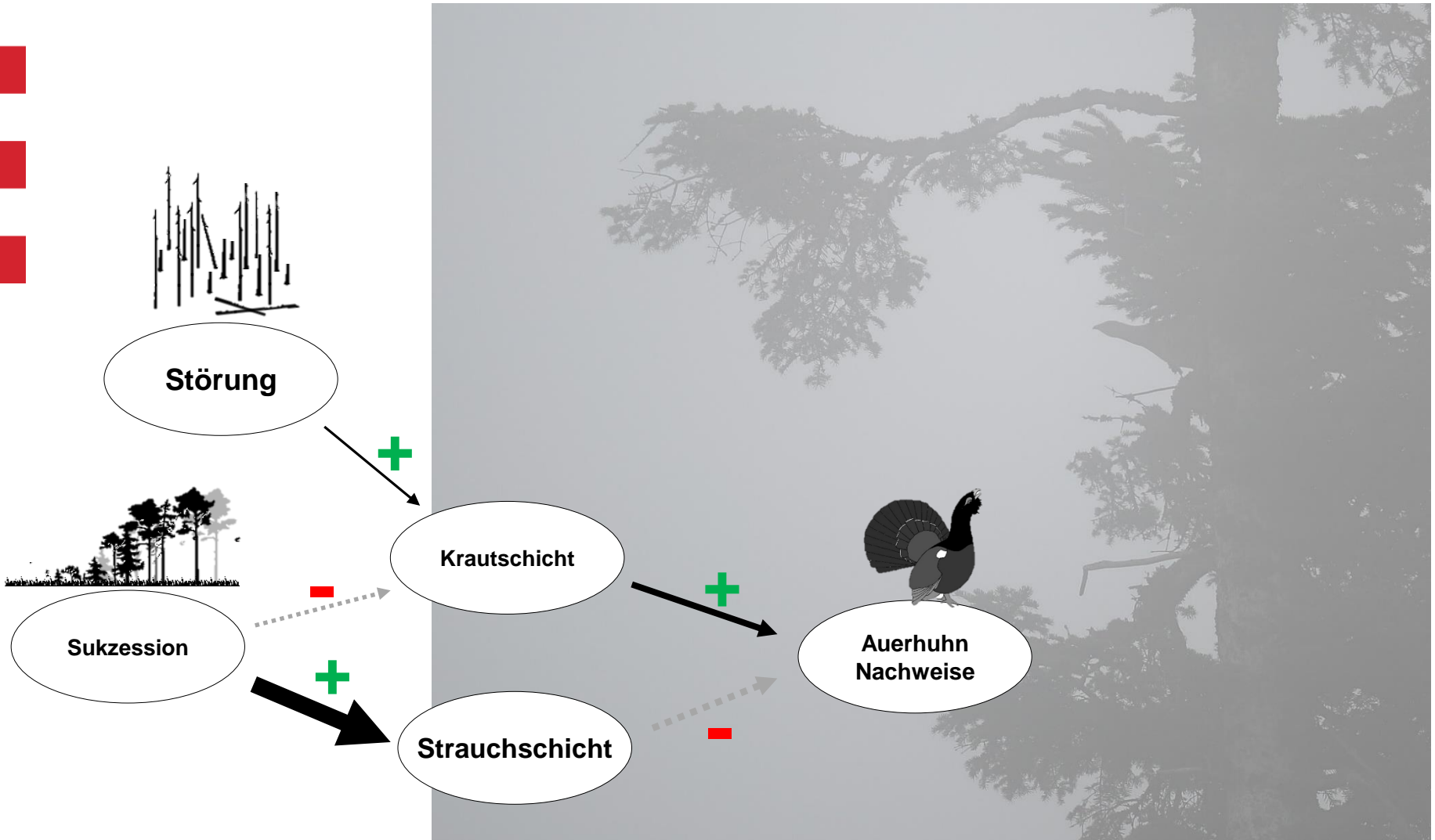
Störungen und Biodiversität



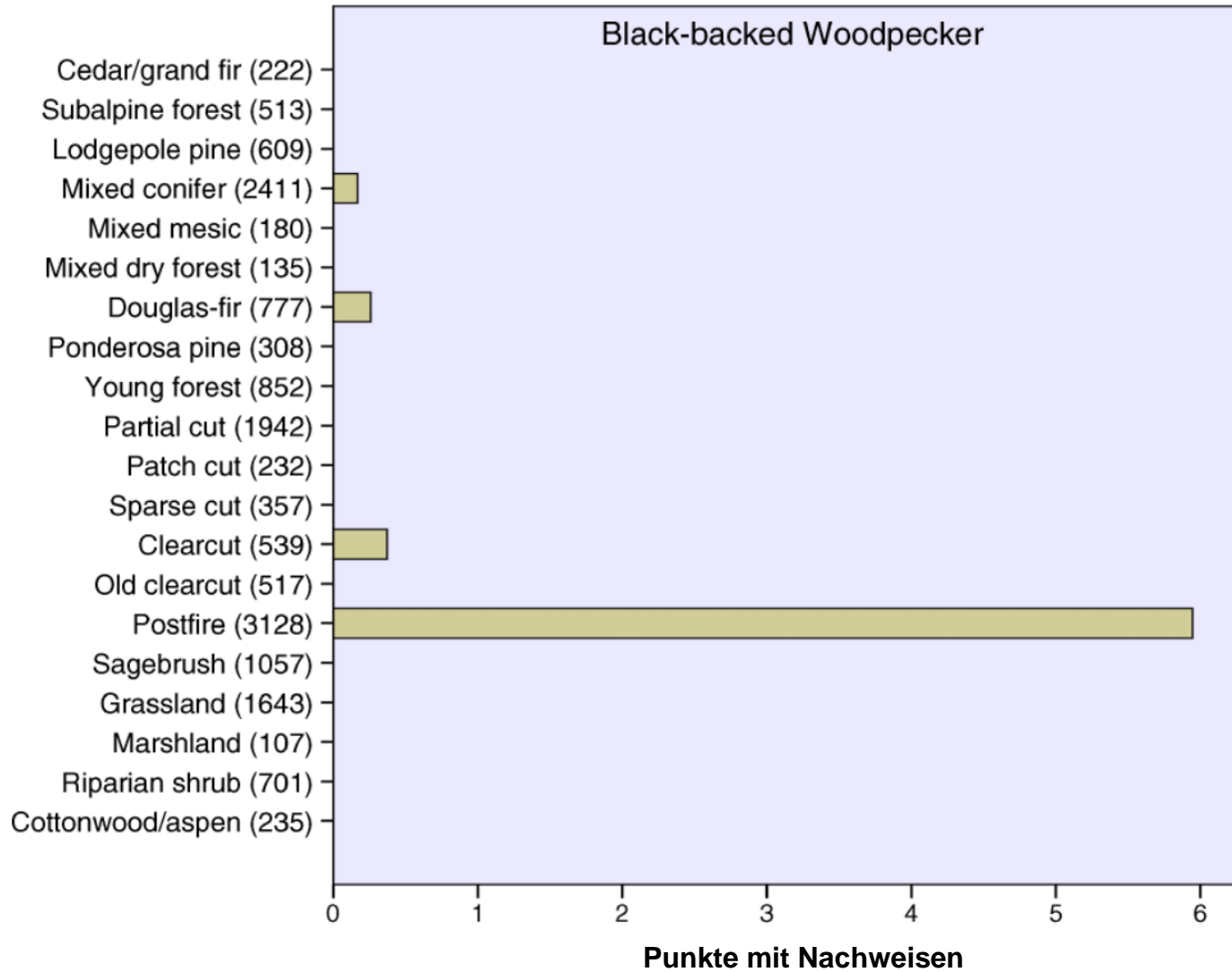
Störungen und Biodiversität - Mopsfledermaus



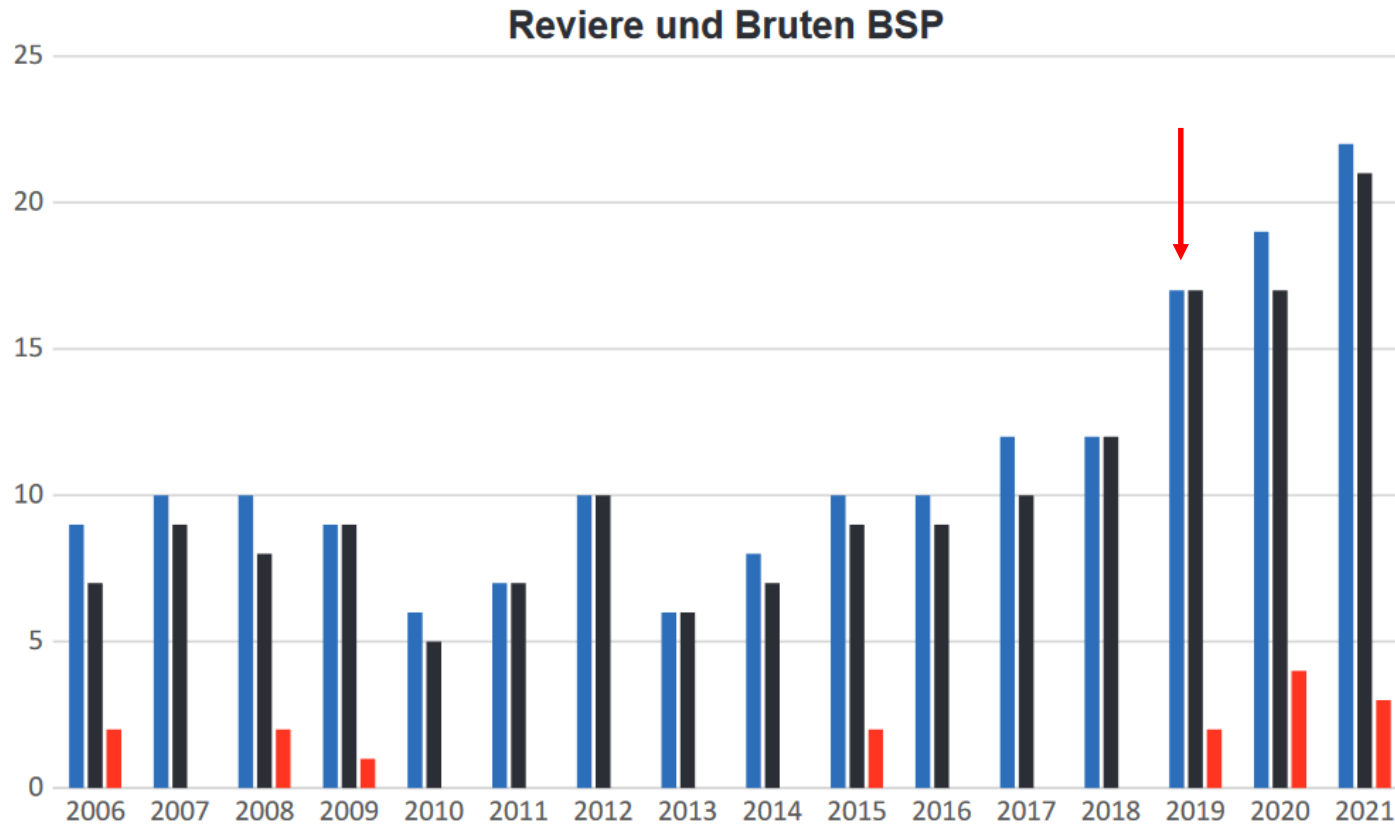
Störungen und Biodiversität - Auerhuhn



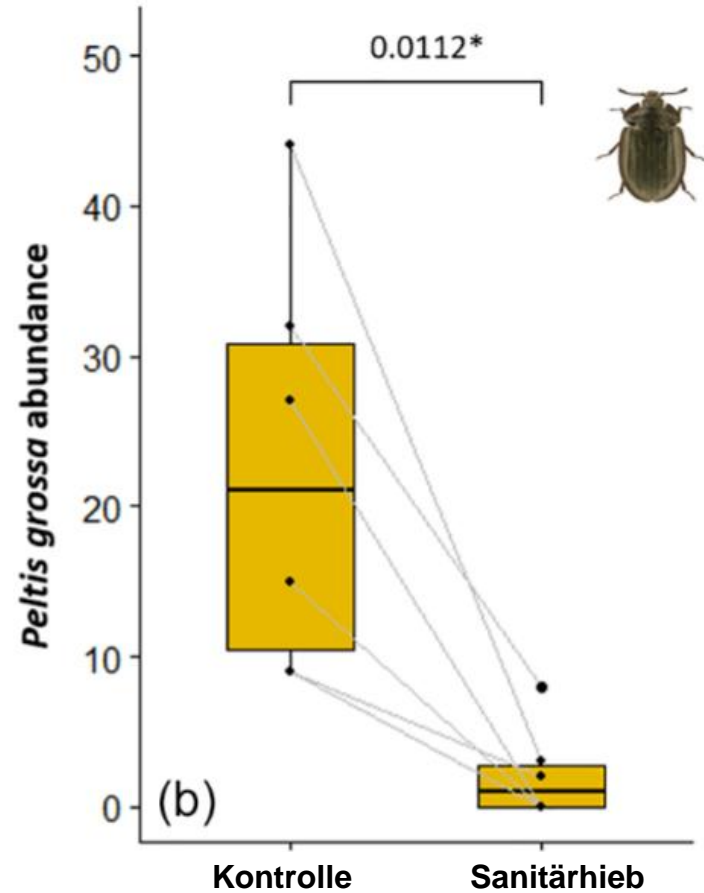
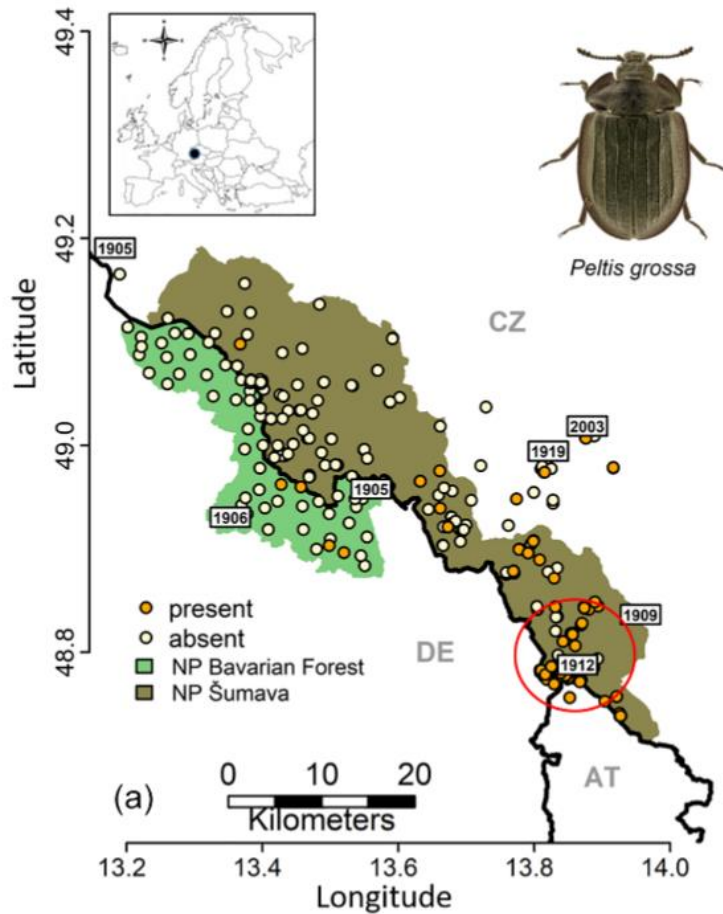
Störungen und Biodiversität - Spechte



Störungen und Biodiversität - Spechte



Störungen & Biodiversität - Jagdkäfer



Sanitärhiebe



European bison in Białowieża Forest, where Poland's government is considering increased logging.

POLAND

Pristine forest at risk

Researchers suspect motives for a logging proposal are commercial, but forest is a biodiversity hotspot.

BY QUIRIN SCHIERMEIER

CONSERVATION

Europe fights for ancient forest

European Commission takes Poland to highest court over policy allowing logging in a biodiversity hotspot.

BY QUIRIN SCHIERMEIER

been asked only four times before to impose restrictions on logging in areas that might result in the loss of biodiversity.

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LETTERS



Białowieża Forest: Logging data lacking



Marek Konarzewski¹, Romuald Zabielski², Rafał Kowalczyk³, Jerzy Duszyński^{4*}
+ See all authors and affiliations



Science 09 Feb 2018;
Vol. 359, Issue 6376, pp. 646
DOI: 10.1126/science.aar0295

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LETTERS



Białowieża Forest: Political stands

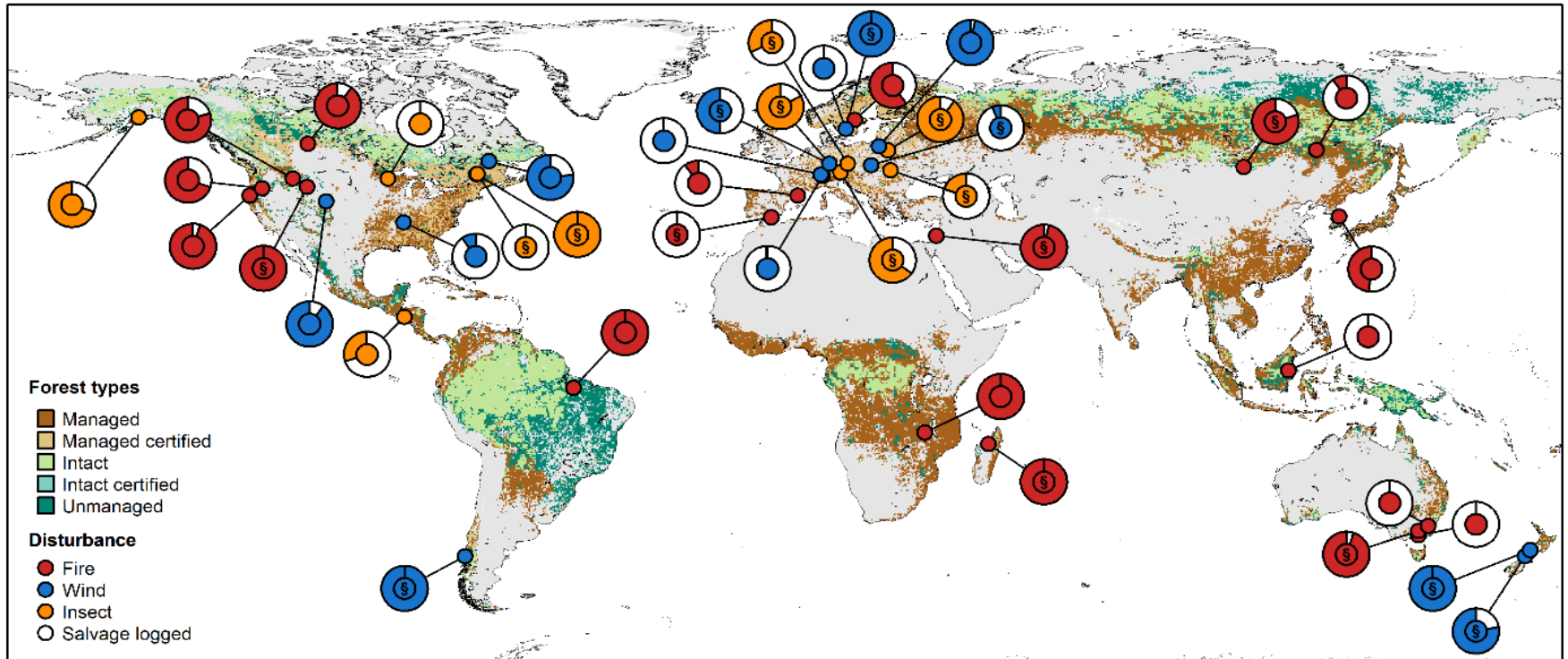


Małgorzata Blicharska^{1*}, Richard J. Smithers²
+ See all authors and affiliations

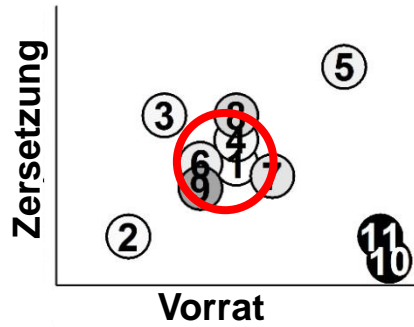


Science 09 Feb 2018;
Vol. 359, Issue 6376, pp. 646
DOI: 10.1126/science.aar7173

Sanitärhiebe - Weltweit



Totholzvorrat

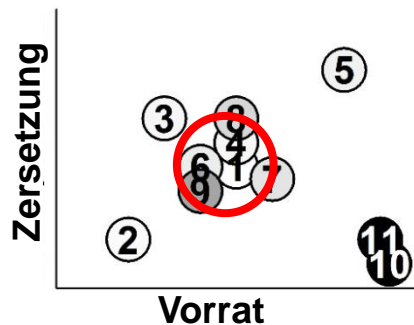


~ 300 m³/ ha





Totholzvorrat

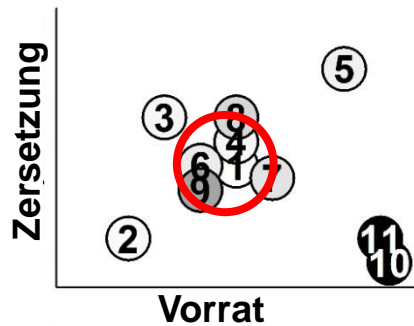


~ 70 m³/ ha





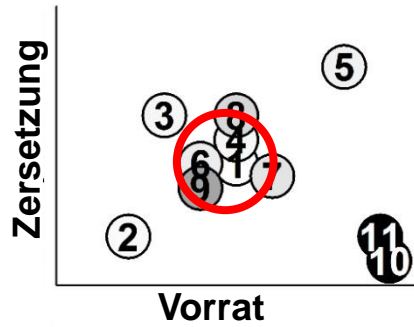
Totholzvorrat



~ 4 m³/ ha



Totholzvorrat

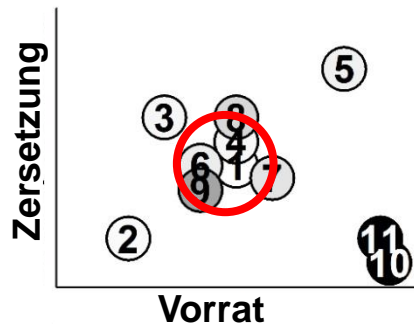


~ 30 m³/ ha





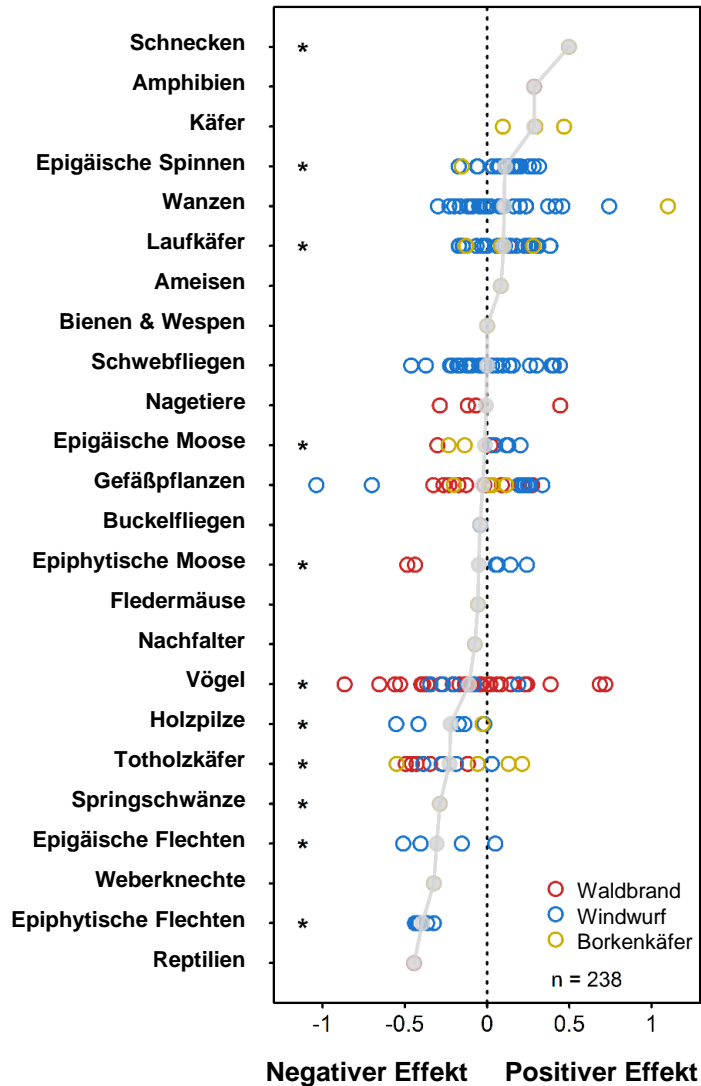
Totholzvorrat



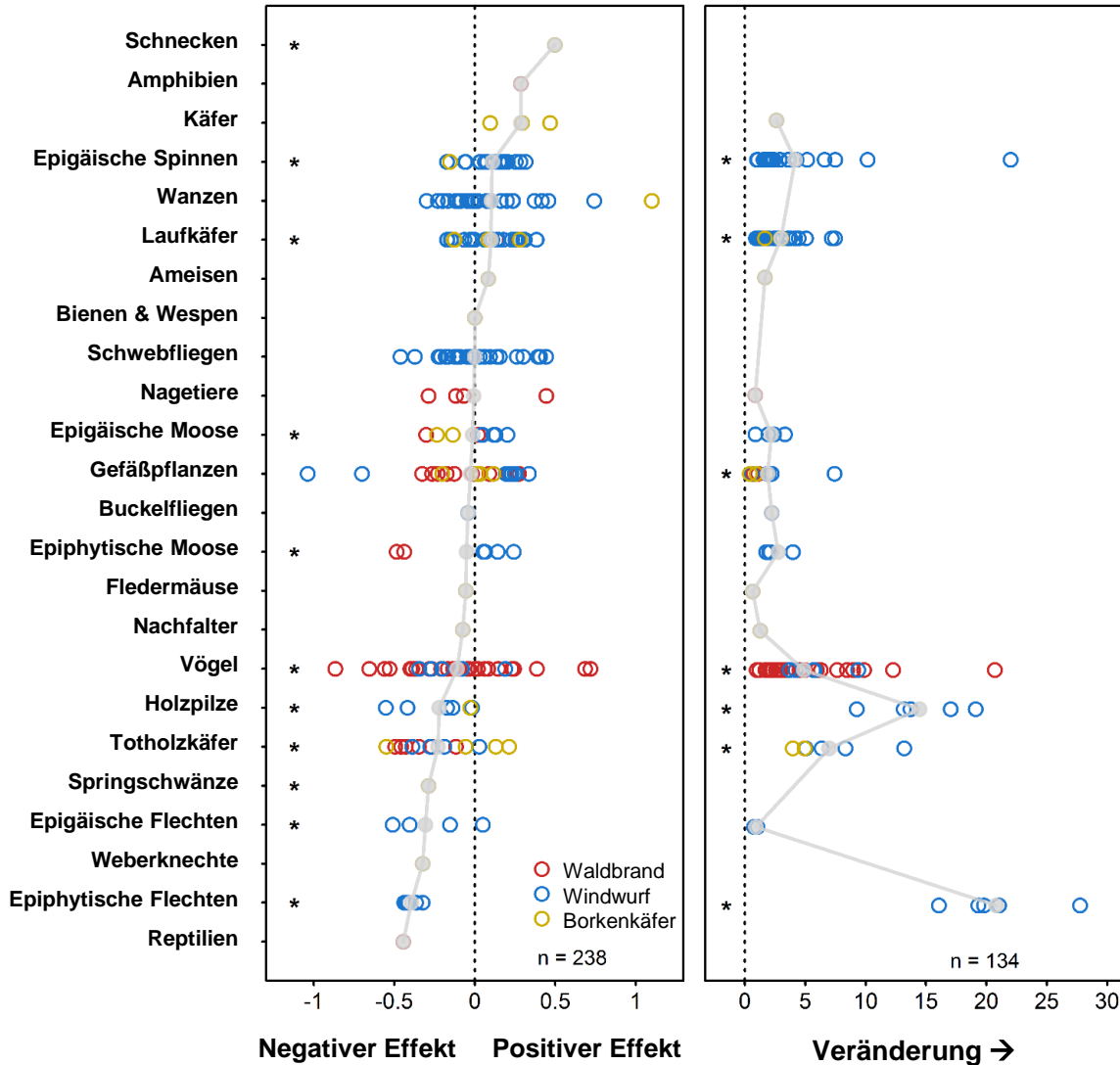
~ 105 m³/ ha



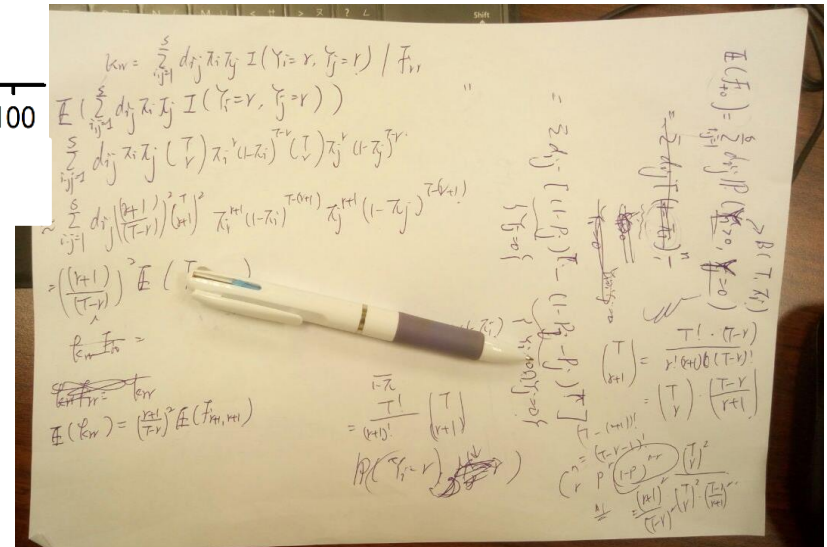
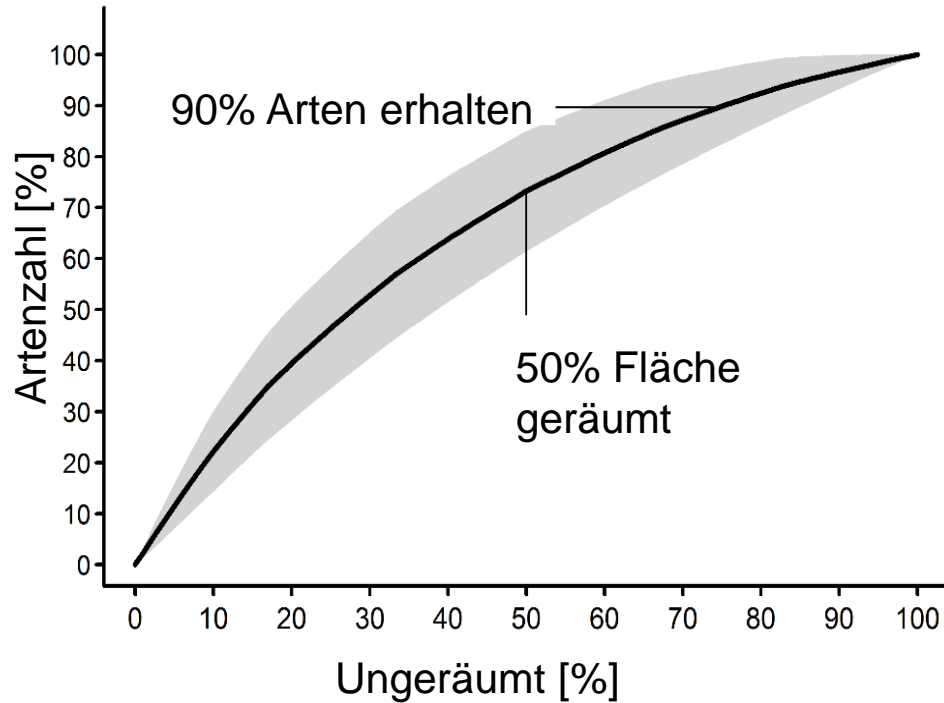
Sanitärhiebe & Biodiversität



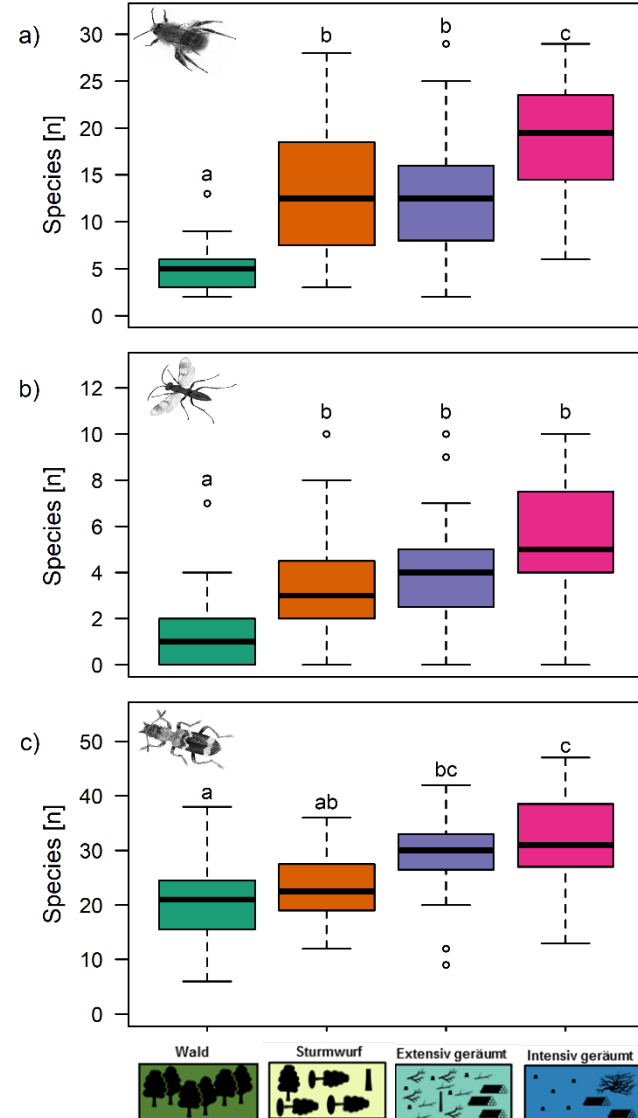
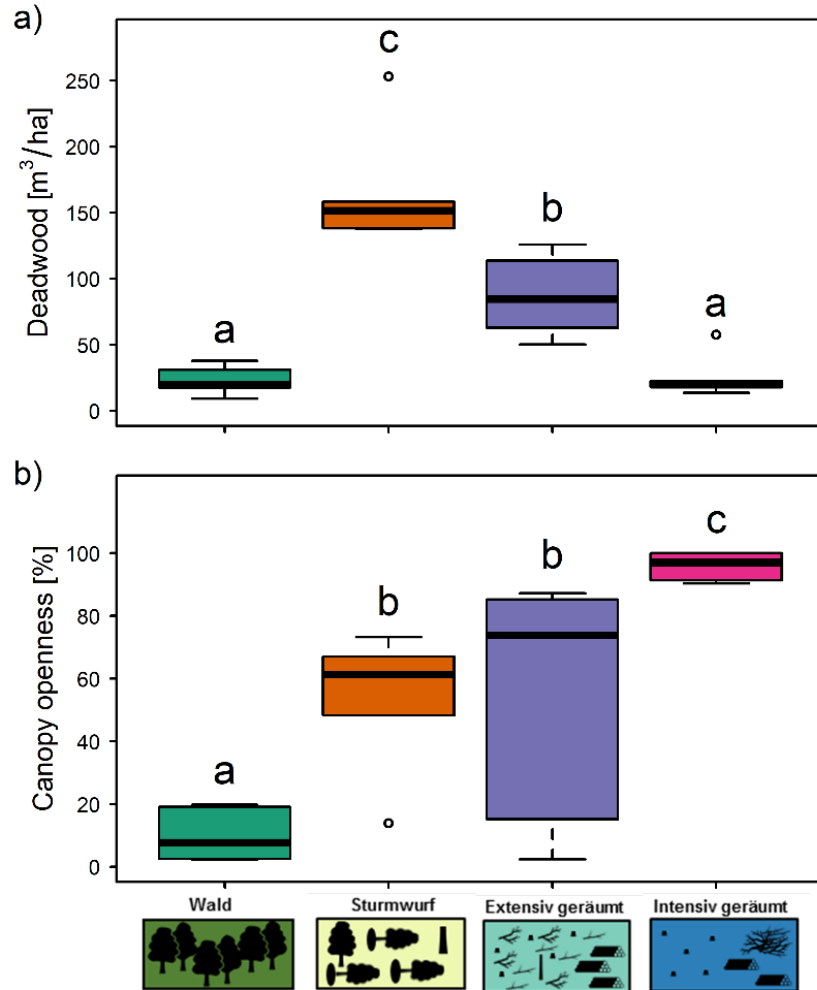
Sanitärhiebe & Biodiversität



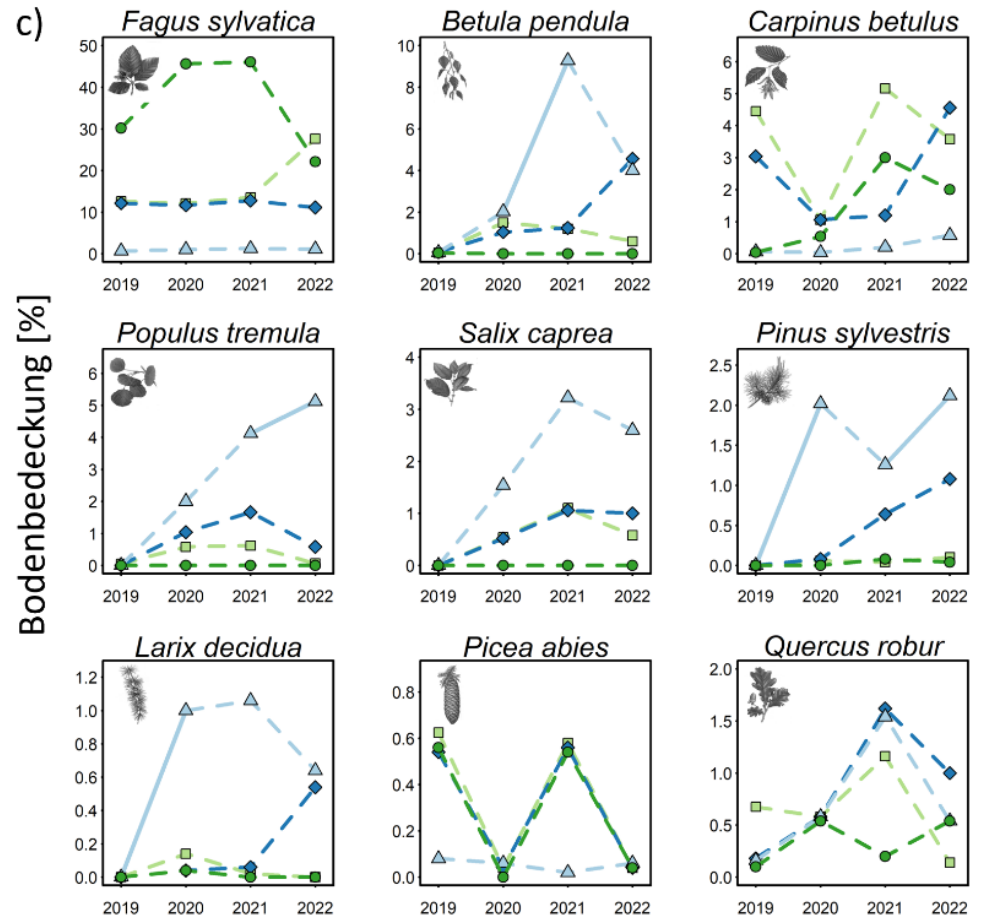
Sanitärhiebe & Naturschutz - segregativ



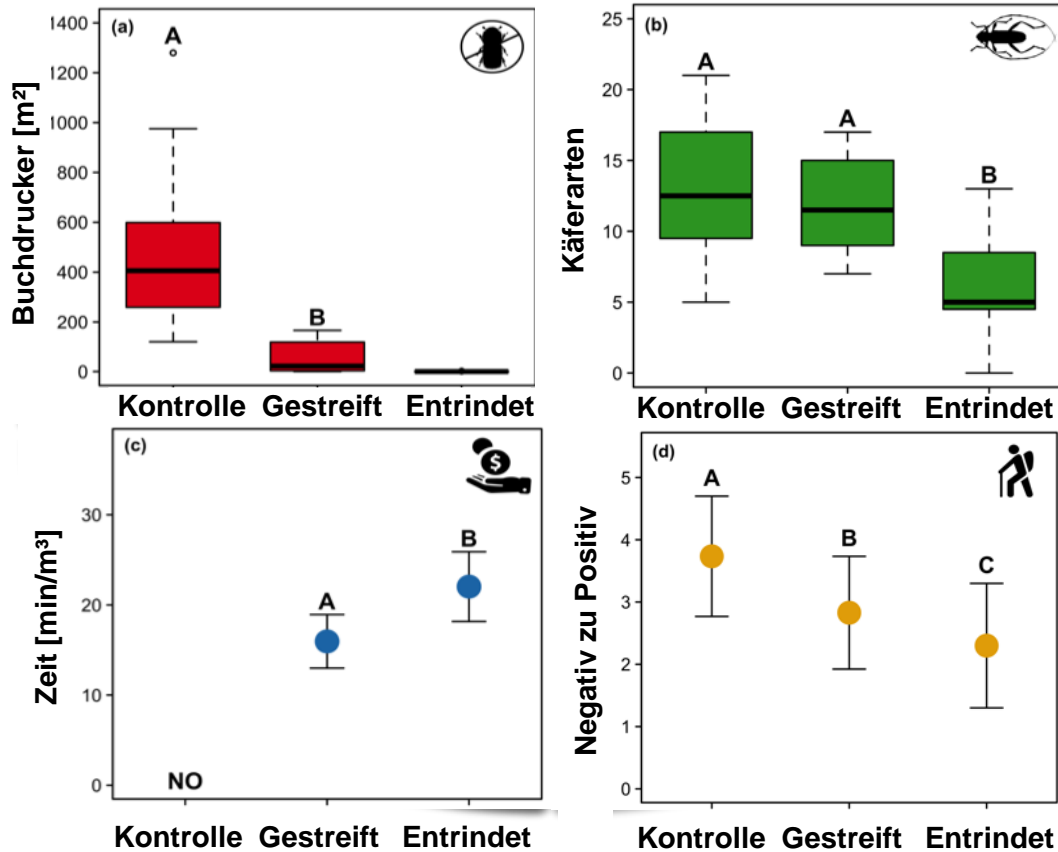
Sanitärhiebe & Naturschutz - *integrativ*



Sanitärhiebe & Naturschutz - *integrativ*



Sanitärhiebe & Naturschutz - *integrativ*





Vielen Dank für Ihre Aufmerksamkeit!



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