

Landesweites Audio-Monitoring der hessischen Avifauna



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Philipps Universität Marburg

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Landesnatschutztagung

Giessen, 05.11.2024

HLNUG

Für eine lebenswerte Zukunft

Akustisches Monitoring

Publications

In the first WWSS synthesis, we present the current global state and gaps of PAM. We include selected annotated recordings in a [demonstration collection](#) to showcase the utility of the database for large-scale analyses. The synthesis is largely based on the metadata and every primary contributor is invited to join, provided that data curation or project administration [CRediT](#) roles are fulfilled, and after reviewing the online manuscript. Secondary contributors and primary contributors who have not become co-authors are acknowledged. The latest version of the synthesis of the meta-data is published as a [preprint](#).

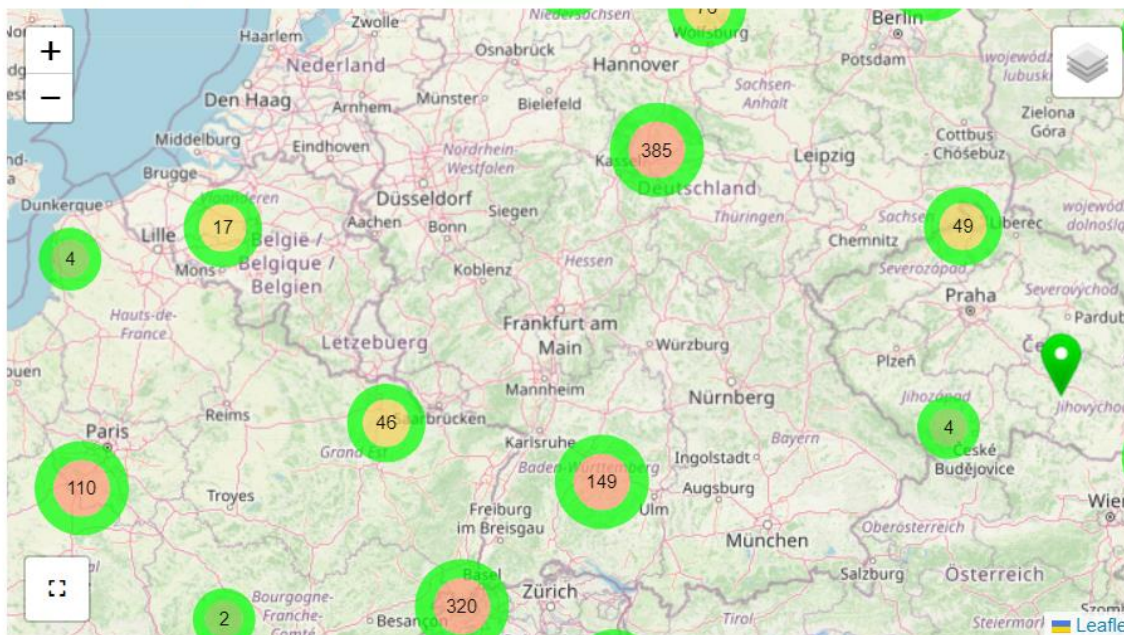
The synthesis has been **submitted** on the 16th of August 2024 and is under review. Authors list updates (addition, change, removal) are unlikely as they would require the approval of all (>220) co-authors.

The next synthesis will be a meta-analysis of actual recordings compiled from the WWSS database.

last updated: 26 Aug 2024

Map of project sites

Hide Map



Sites

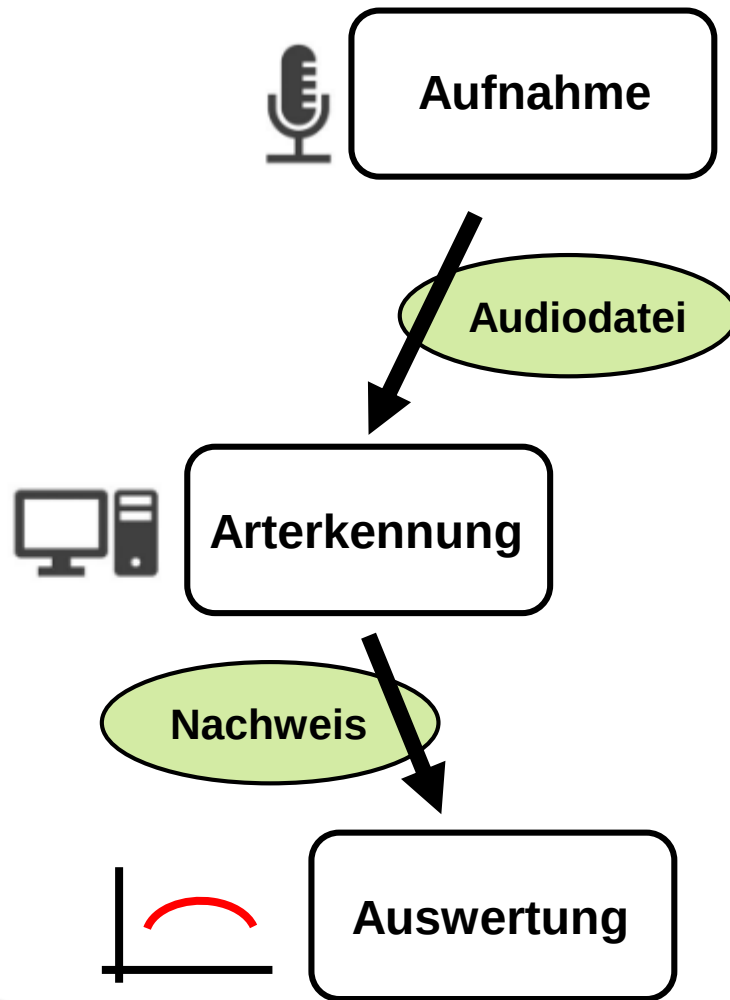
14047/14047



Recordings

1127082/1127082

<https://ecosound-web.de/>



A joint effort by:

The Cornell Lab of Ornithology

TECHNISCHE UNIVERSITÄT
CHEMNITZ

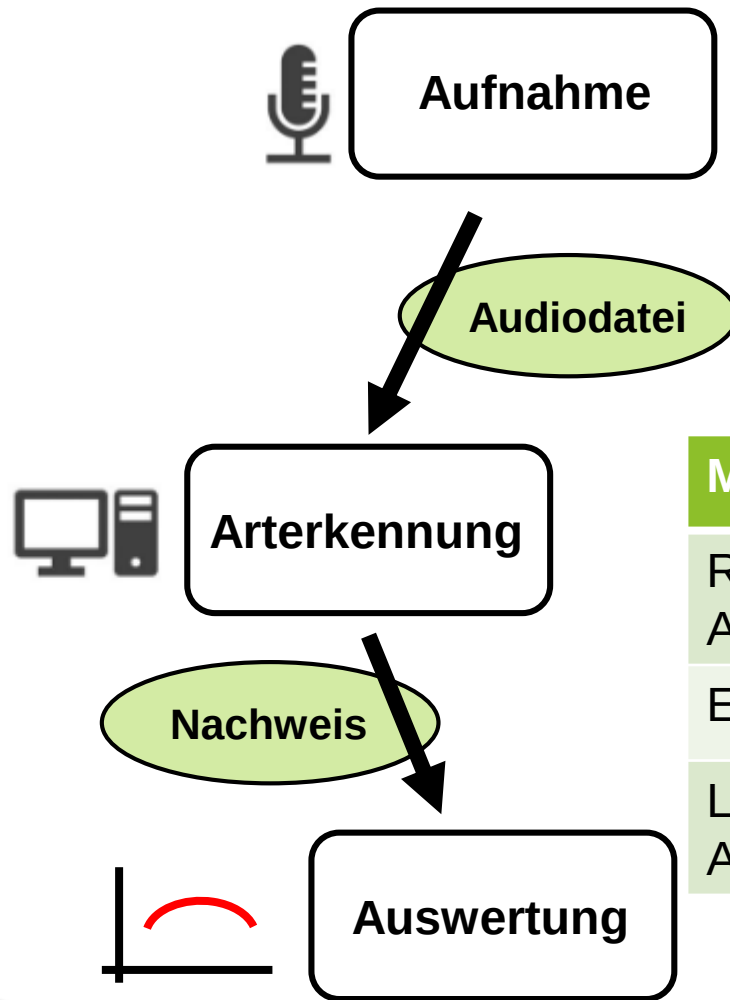
Bundesministerium
für Bildung
und Forschung

xeno-canto
Open source bird sound database

eBird

Natur 4.0
Sensing Biodiversity

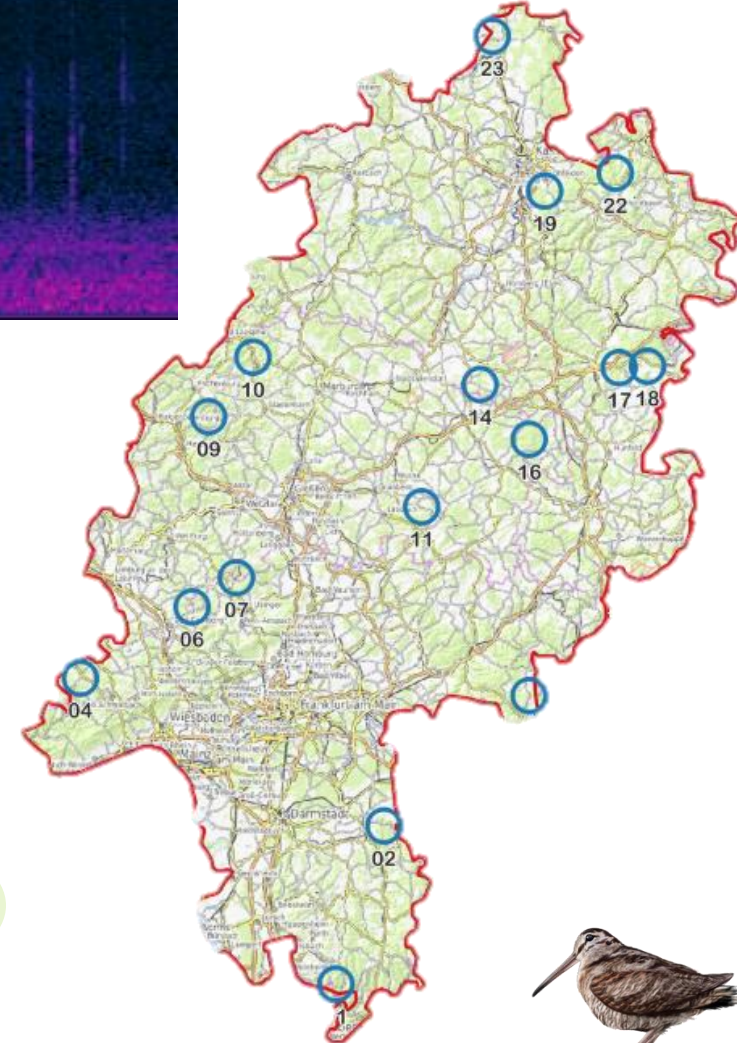
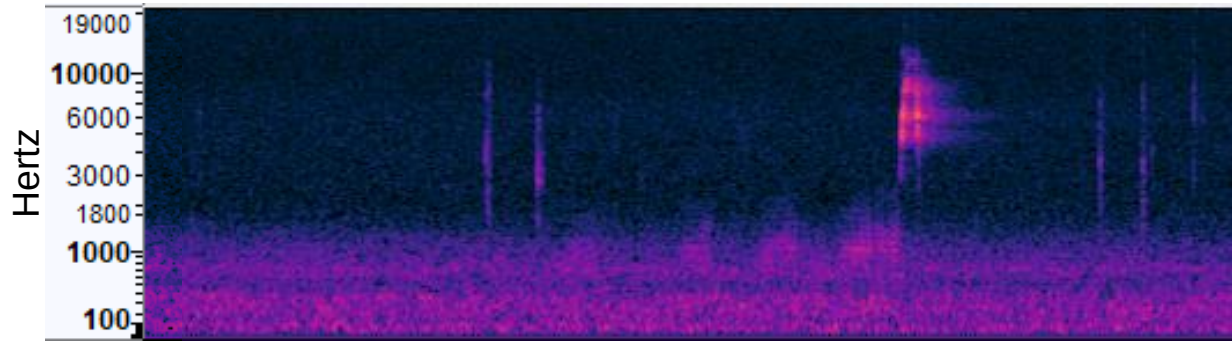


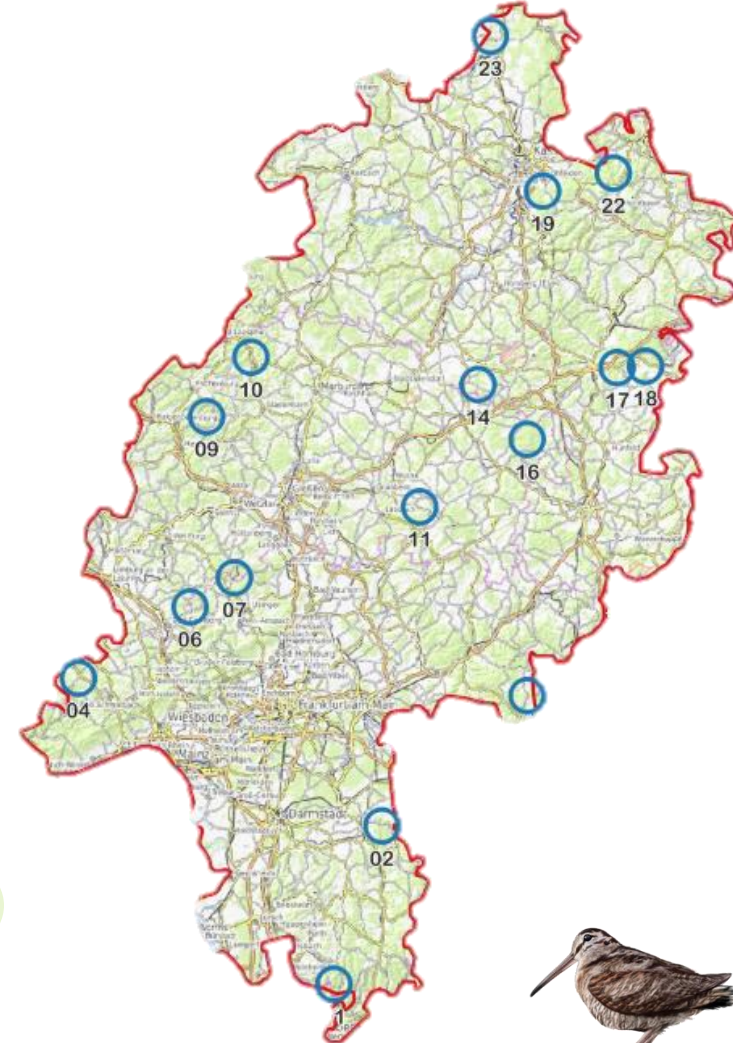
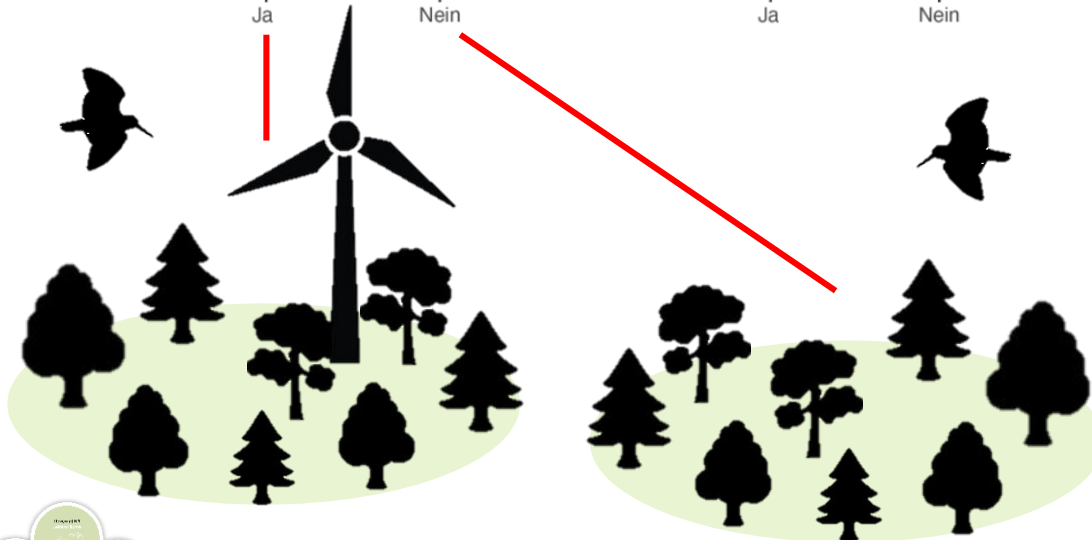
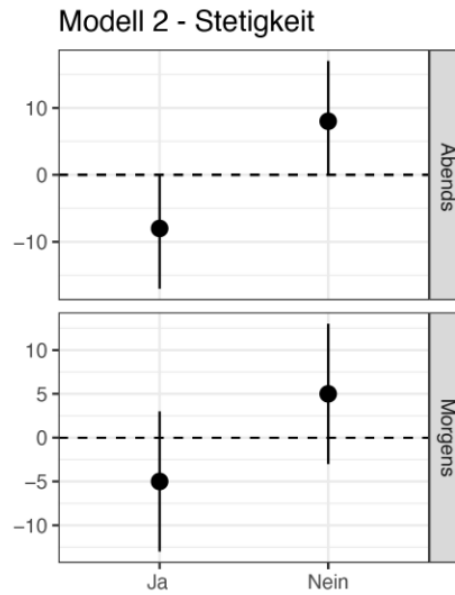
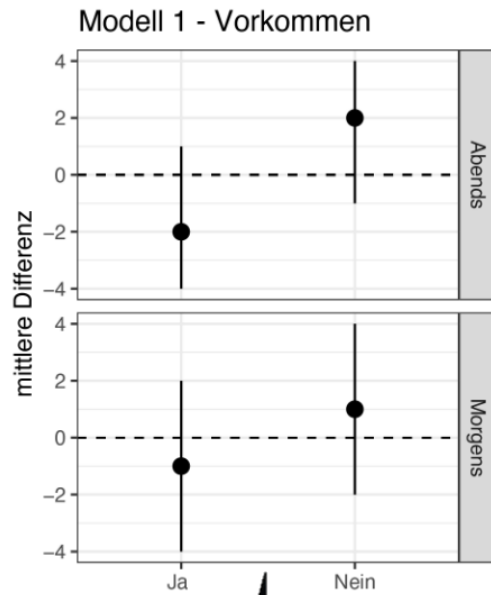


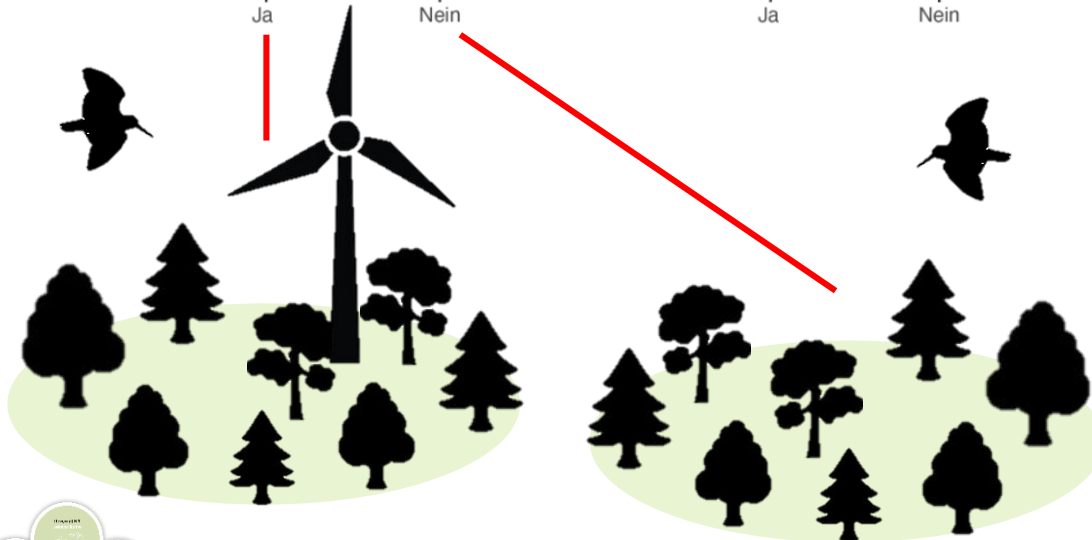
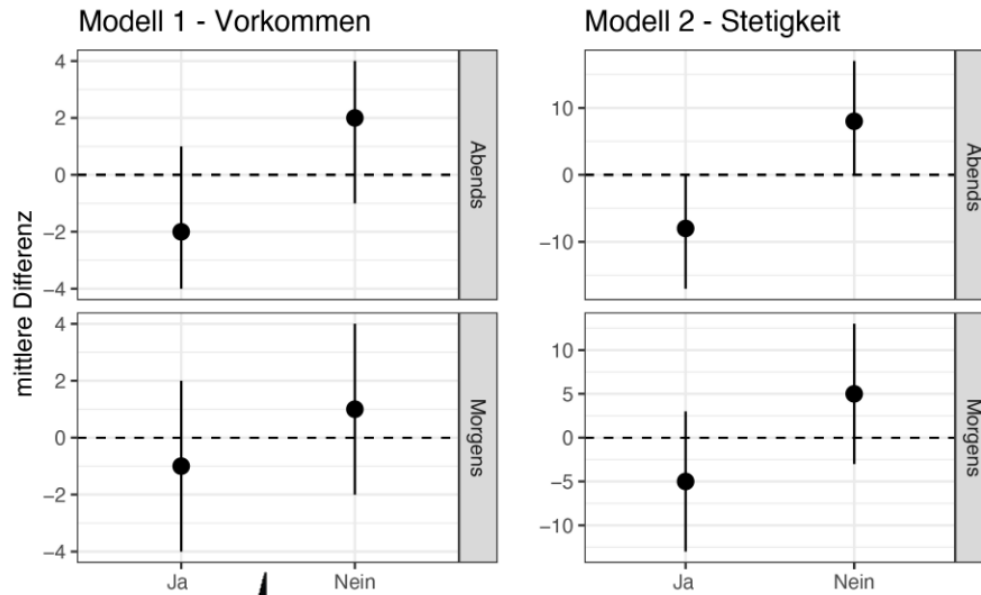
Methode	„konventionell“	akustisch
Räumliche Abdeckung	lokal & flächig	nur lokal
Erfassungszeit	mittel	hoch
Logistischer Aufwand	hoch	gering











VSG Hauberge bei Haiger



BFF



- ✓ 24 h/Tag x 7 Tage/Woche x 12 Wochen x 40 Standorte
- rund 80.000 Erfassungsstunden

„Beifang“

- ✓ 6 Nachweise von Ziegenmelkern
- ✓ min. 12 Fledermausarten nachgewiesen

trackIT
systems

HessenForst
Forstamt Herborn



Regierungspräsidium
Gießen



Raufußkauz

Mit
Playback



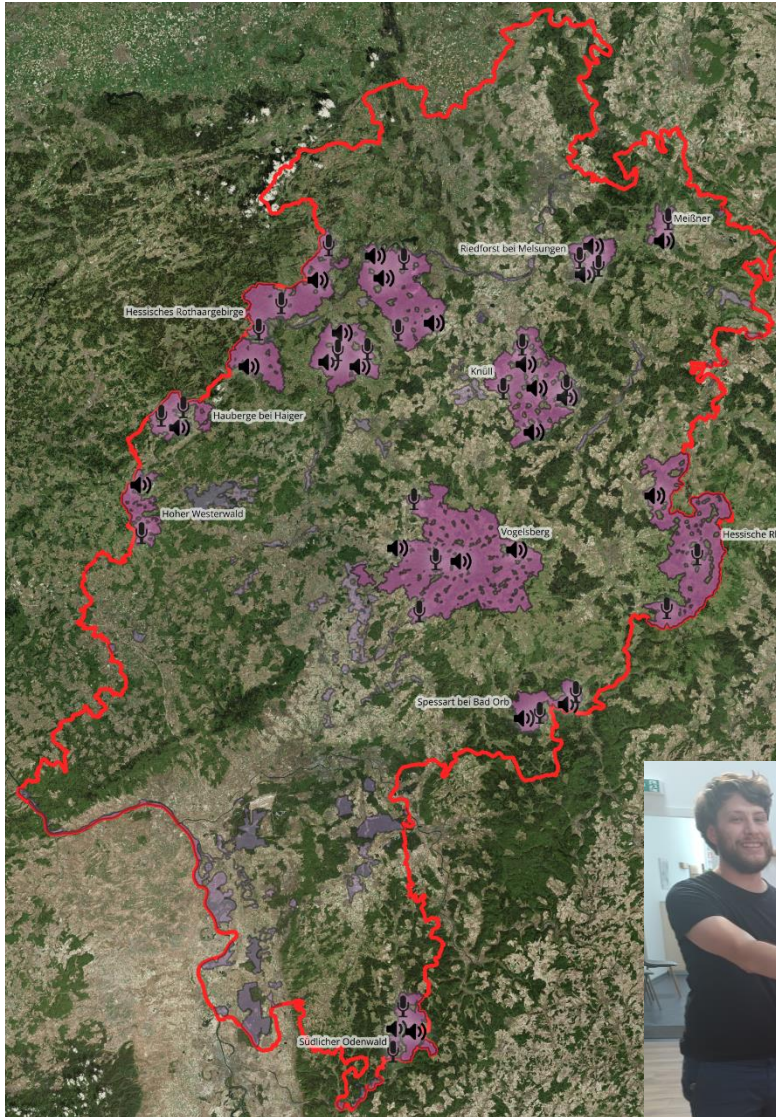
1.3

Ohne
Playback



0.3

Anzahl Rufe / Stunde



Pilotprojekt 2023

15 Stationen am Luftmessnetz

Ergänzung 2024

+16 autarke Solar-Stationen



✓ **3,8 „Aufnahmejahre“ pro Jahr**

Übersichtskarte über die Stationen

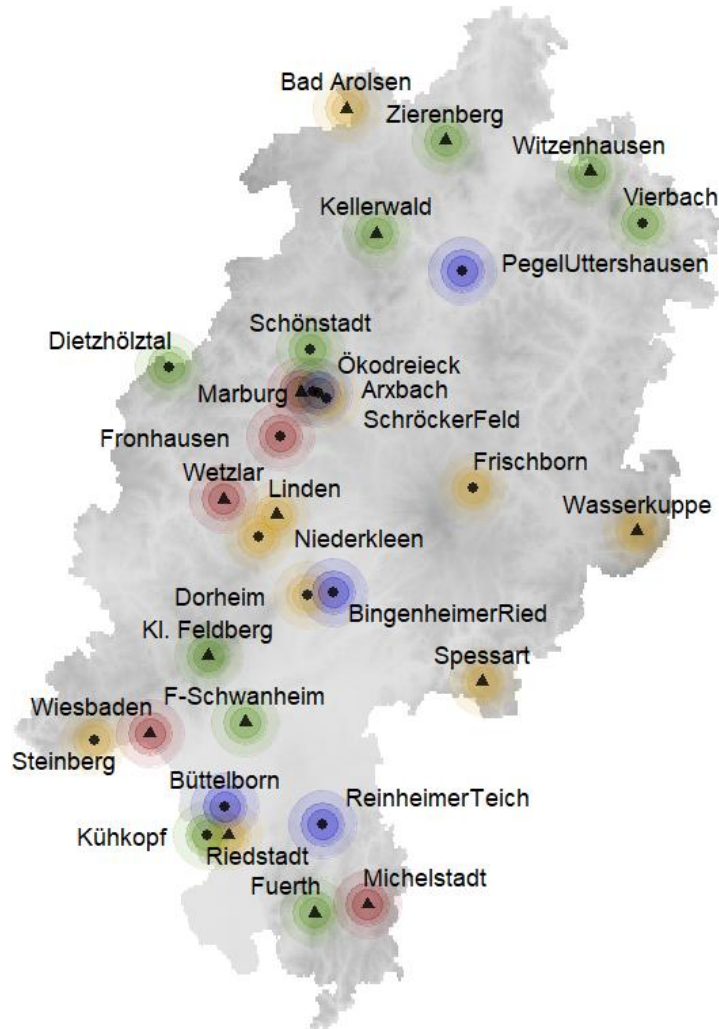
Rot = Urban, Gelb = Offen, Grün = Wald, Blau = Gewässer

Philipps



Universität
Marburg

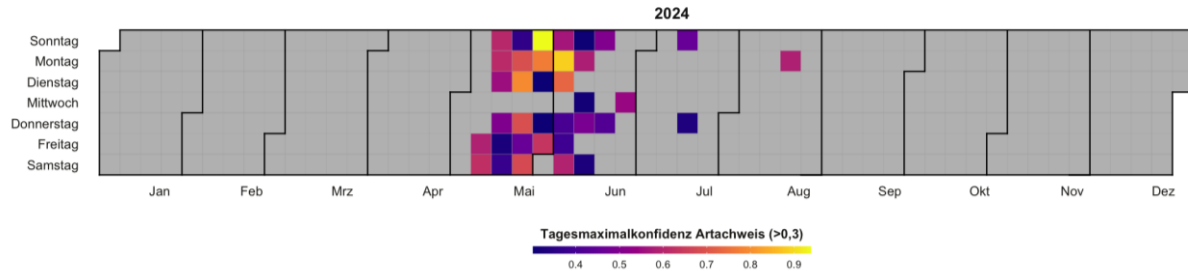
HESSEN





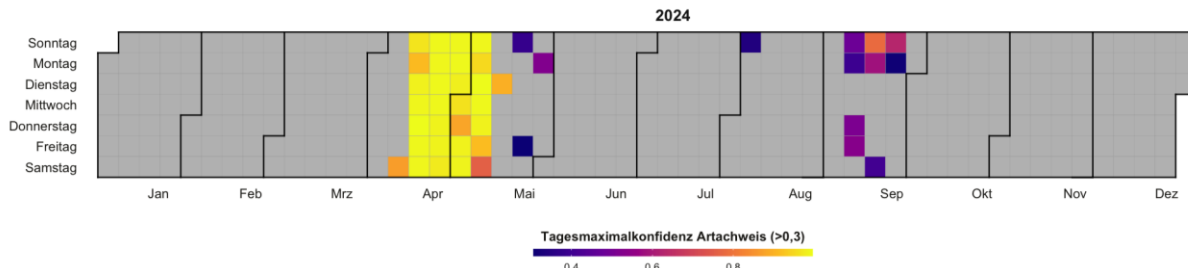
Braunkehlchen

Solarpark



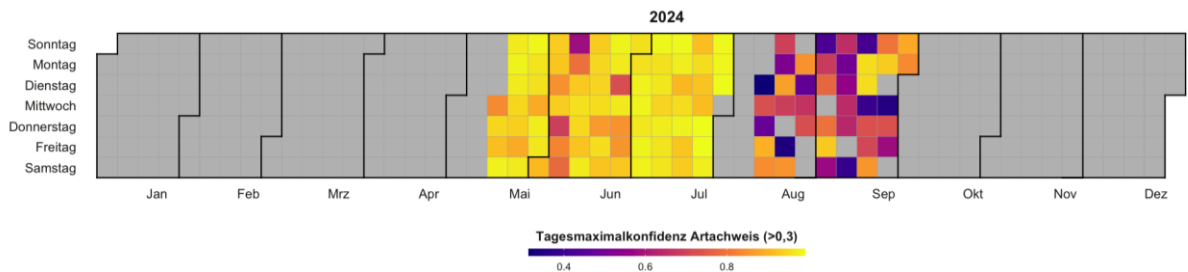
Raufussskauz

Kalamitätsfläche



Zaunammer

Weinberge

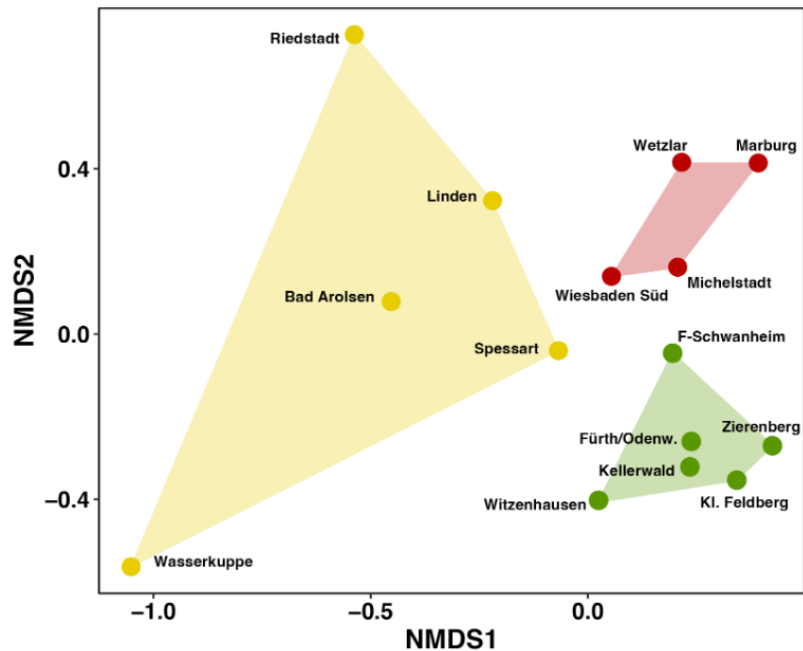
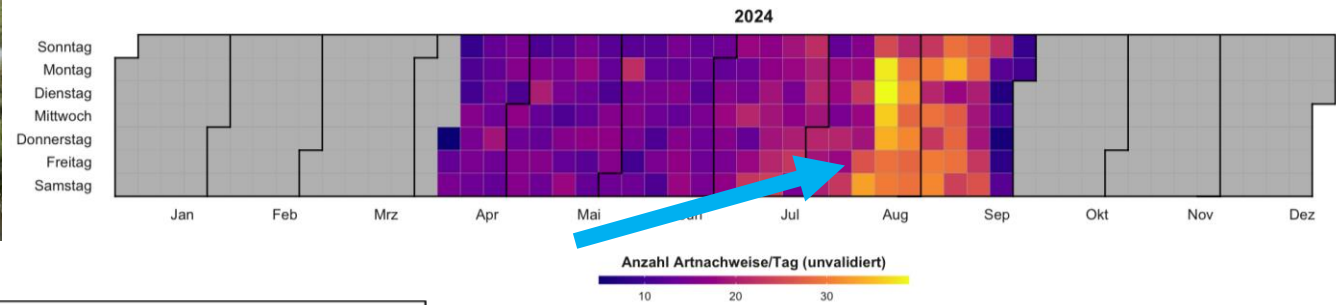


www.wikipedia.de





Bingenheimer Ried
im Gewässer (Konfidenz > 0.7)



„Beifang“
✓ Heuschrecken
✓ Amphibien



Danke !

ecoSNÖOPER
smart acoustic monitoring

AviCon - Forschung & Planung



Philipps



Universität
Marburg

HESSEN



Dr. Sascha Rösner



Prof. Dr. Nina Farwig



Natur 4.0
Sensing Biodiversity



FB 12 | Prof. Dr. Bernd Freisleben

HESSEN



Regierungspräsidium
Kassel

HessenForst
MEHR WALD.
MEHR MENSCH.



NABU-Stiftung
Hessisches Naturerbe



KLOSTER
EBERBACH

HLNUG

Für eine lebenswerte Zukunft

Steinbruch
NIEDERKLEEN GMBH
Werk Niederkleen



Abteilung Naturschutz – Zentrum für Artenvielfalt
Dezernat N3 Staatliche Vogelschutzwarte

Vielen Dank für Ihre Aufmerksamkeit !



Prof. Dr. Simon Thorn

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Philipps Universität Marburg

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