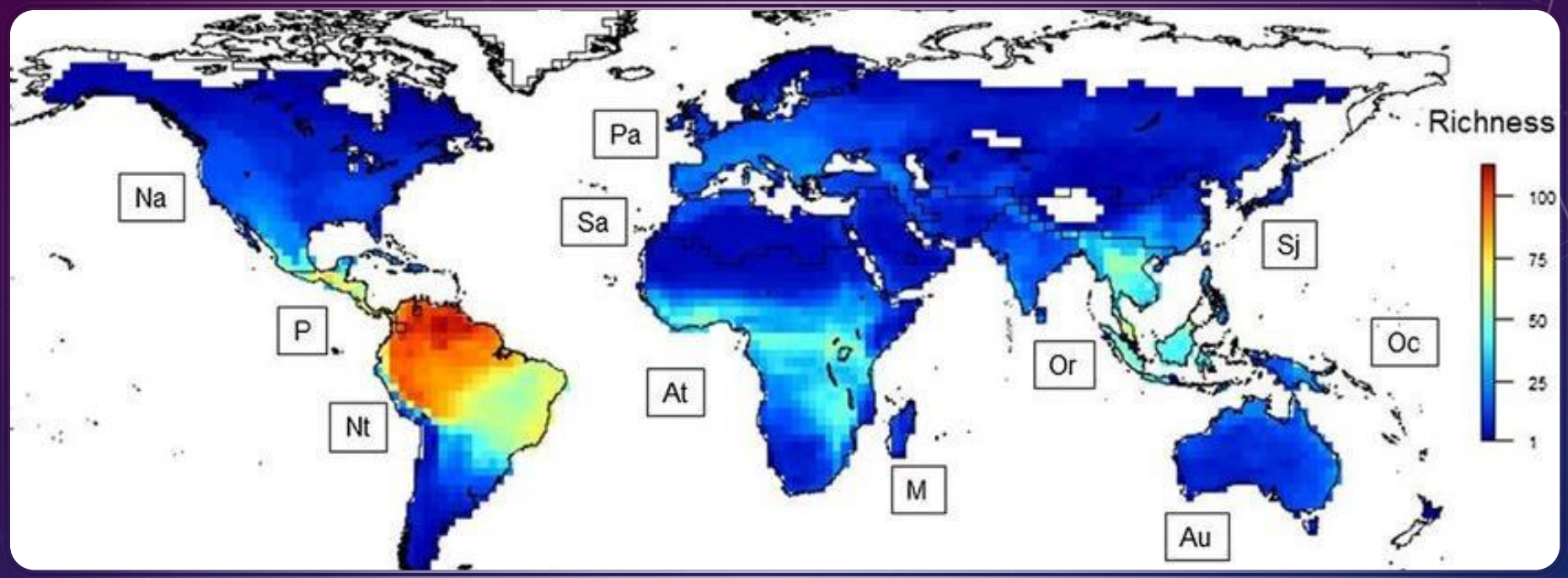
CREATING OPEN, VERIFIABLE, ACOUSTIC OBSERVATIONS OF BATS

TOM AUGUST – SEPTEMBER 2022



SHOULD WE EXPECT TO HAVE LOTS OF BATS DATA?

1) Bats are widely distributed

SHOULD WE EXPECT TO HAVE LOTS OF BATS DATA?

2) Bats are now fairly easy to record

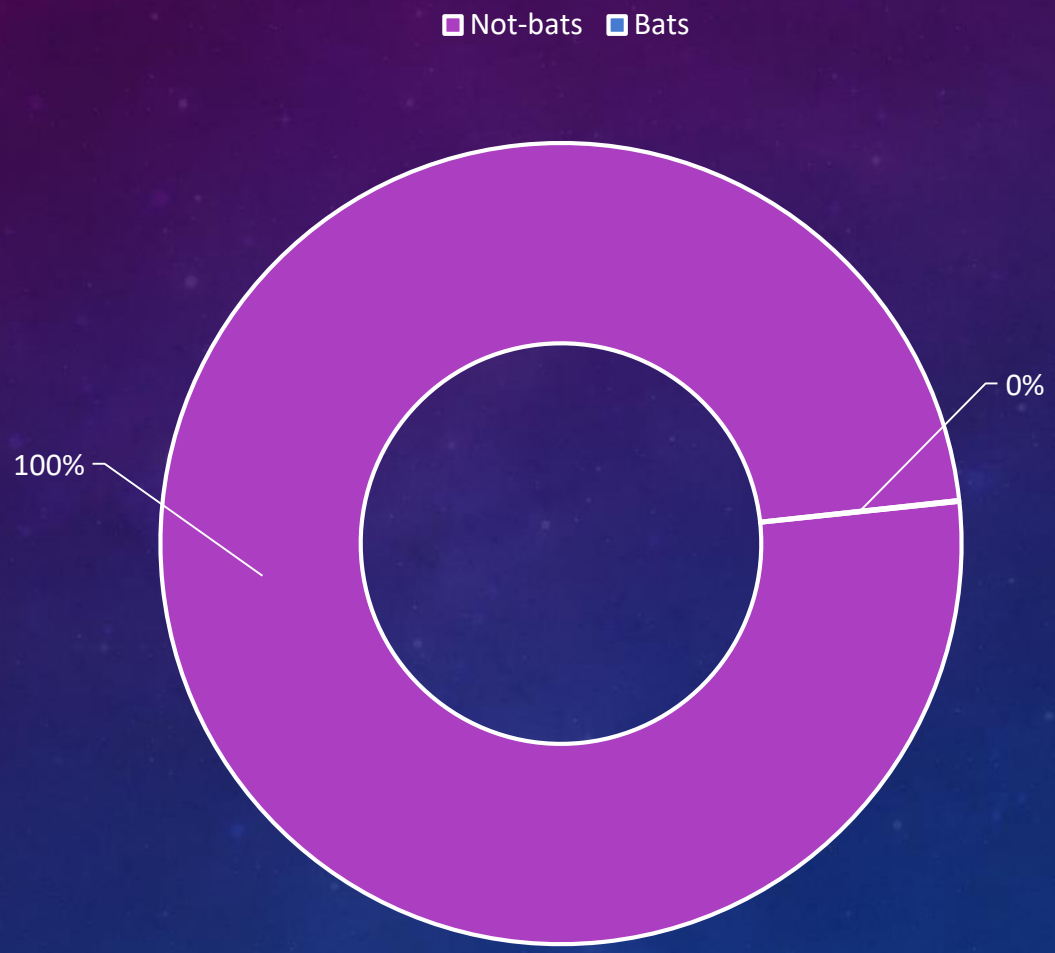
SHOULD WE EXPECT TO HAVE LOTS OF BATS DATA?

3) Free analysis software is available

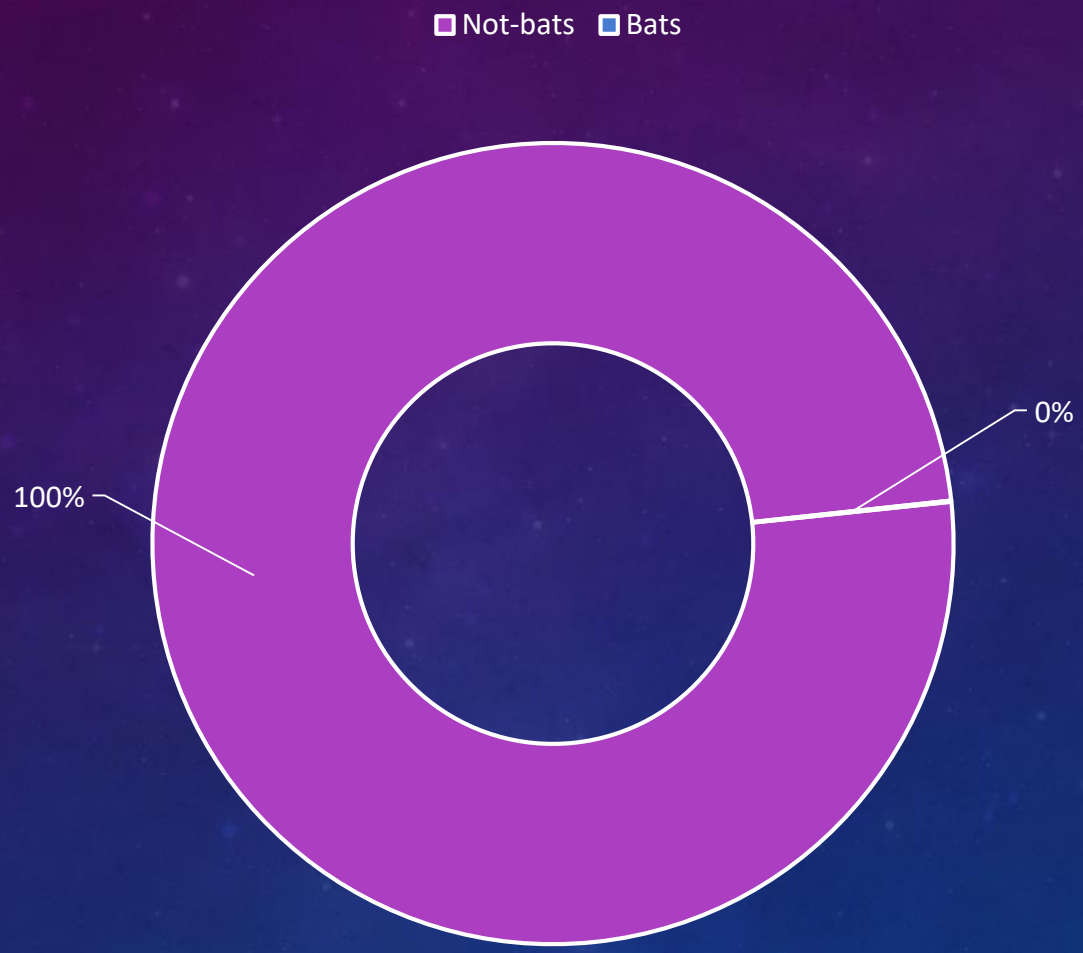
SHOULD WE EXPECT TO HAVE LOTS OF BATS DATA?

4) There are lots of people doing it

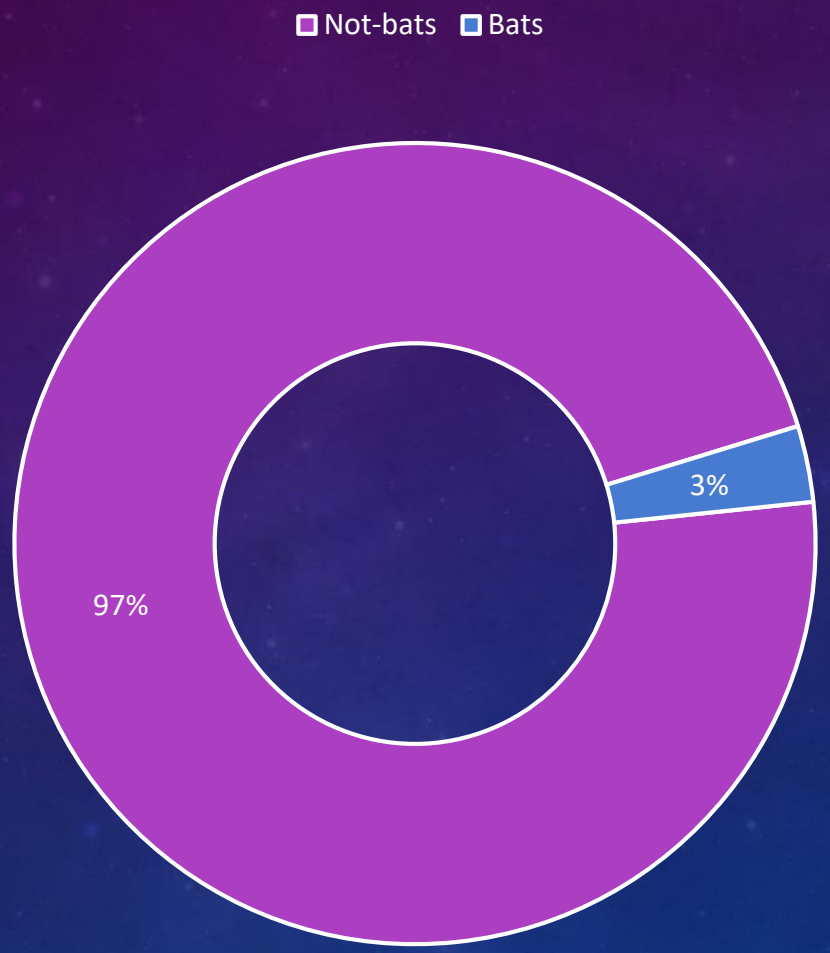
Observations on iNaturalist global



Observations on iNaturalist UK

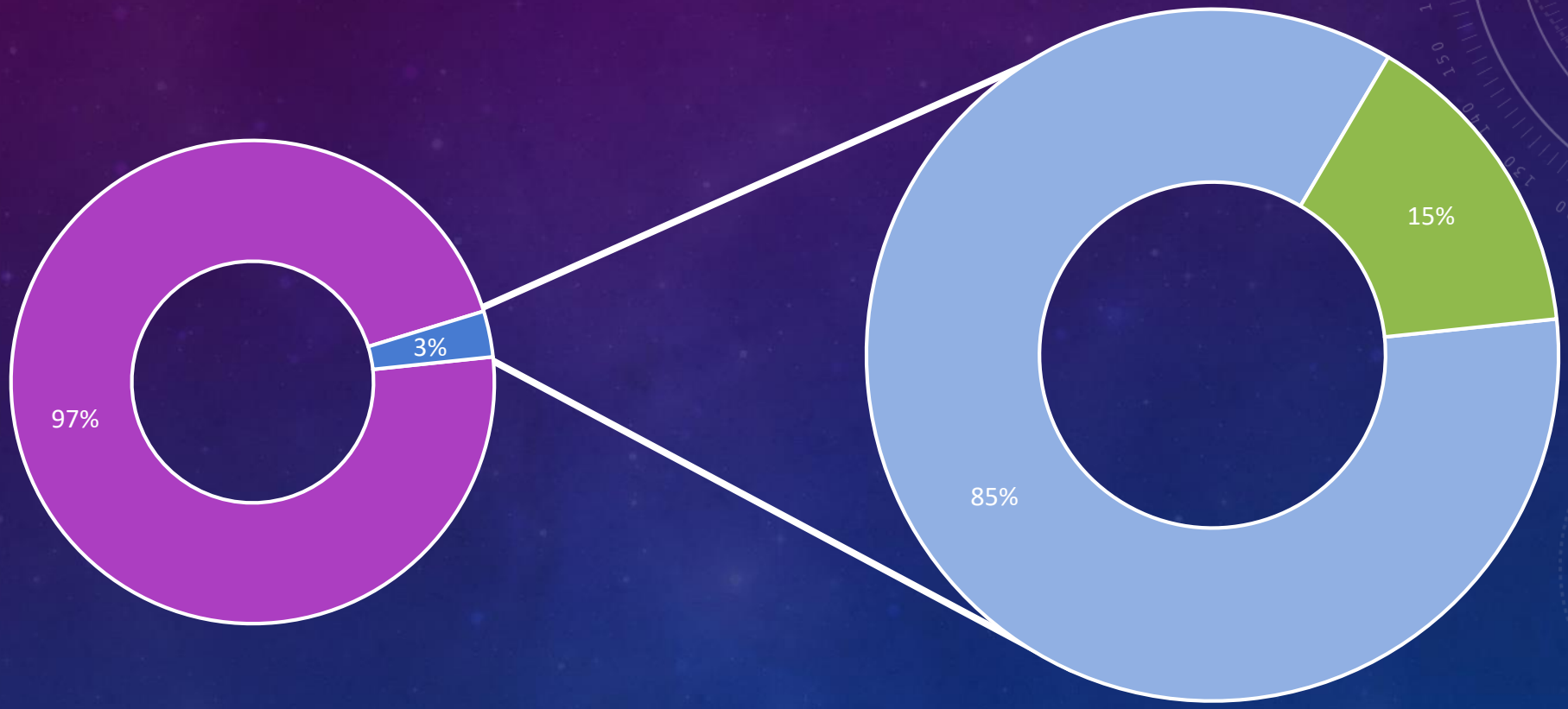


Observations of mammals on iNaturalist UK



Bats make up ~20% of UK mammals

Verifiable observations of bats in the UK

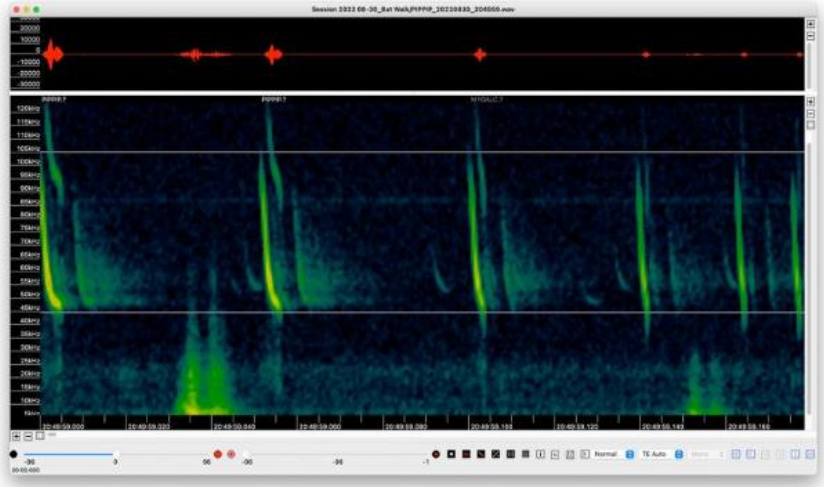


So what’s going on?

Bat Call Sound Analysis Workshop

[redacted]

I'm trying to confirm the species of this call detection. The pulse freq. is from 45kHz to over 100kHz. I think these are Alcathoe Whiskered bat. The Pipistrelle's in the same recording are a lot shorter. Recording taken in London. Many thanks Ray.



13 16 comments 1 share

Like Comment Share

Username

Enter your iNaturalist username

Password

Enter your iNaturalist password

Agreement

Bat2iNat lets you upload lots of data, quickly. Which is great, unless you are uploading rubbish. Please follow these three simple rules:

1. **Manually verify** all of your recordings before you upload them, don't blindly trust the classifier

2. Once uploaded, **check all of your recordings** on iNaturalist to ensure no errors have been made during upload

3. **Support the community** by helping to verify other people's records

Abuse of Bat2iNat may result in your access being suspended

I agree

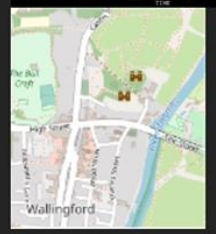
Choose files (max 10MB each)

Browse... PIPPIP_20220718_222807

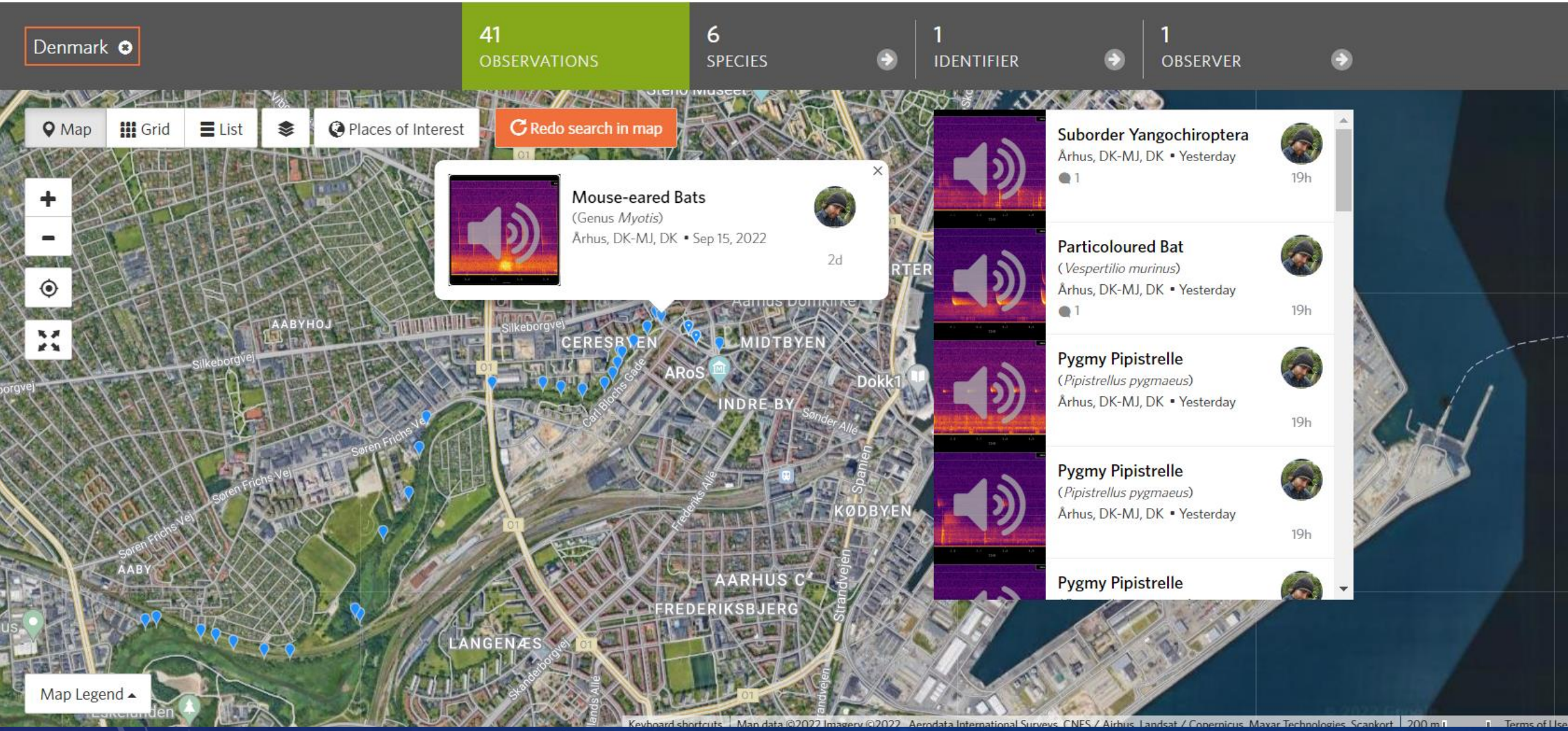
Upload complete

PIPPIP_20220718_222807

Species: *Pipistrellus pipistrellus*
Date & time: 2022/07/18 22:28:07
Number of good quality calls: 14
Av. Peak Frequency (kHz): 48
Av. Call Duration (ms): 3.4



View on iNat


Denmark
41
OBSERVATIONS
6
SPECIES
1
IDENTIFIER
1
OBSERVER
Map
Grid
List
Places of Interest
Redo search in map
Mouse-eared Bats
(Genus Myotis)
Århus, DK-MJ, DK • Sep 15, 2022
2d
Suborder Yangochiroptera
Århus, DK-MJ, DK • Yesterday
1
19h
Particoloured Bat
(Vespertilio murinus)
Århus, DK-MJ, DK • Yesterday
1
19h
Pygmy Pipistrelle
(Pipistrellus pygmaeus)
Århus, DK-MJ, DK • Yesterday
19h
Pygmy Pipistrelle
(Pipistrellus pygmaeus)
Århus, DK-MJ, DK • Yesterday
19h
Pygmy Pipistrelle
AABYHOJ
CERESBYEN
MIDTBYEN
ARoS
Dokk1
INDRE BY
KØDBYEN
AARHUS C
FREDERIKSBJERG
LANGENÆS
AABY
Silkeborgvej
Søren Frichs Vej
Carl Blochs Gade
Sønder Allé
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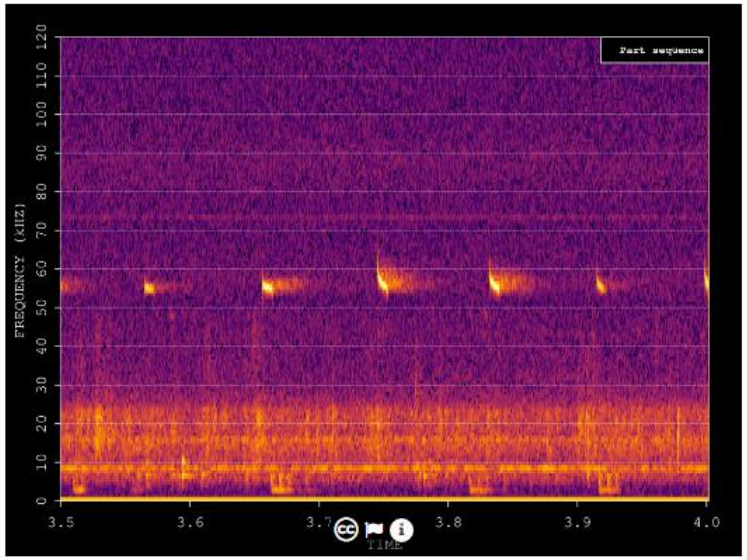
200 m
Terms of Use

Pygmy Pipistrelle (*Pipistrellus pygmaeus*) Needs ID

Edit



tomaugust
564 observations

Observed:
Sep 16, 2022 · 11:14 PM CEST

Submitted:
Sep 16, 2022 · 11:07 PM CEST

Århus, DK-MJ, DK Details

Be the first to fave this observation!

Notes

Recorded on Echo Meter Touch 2 Pro Android App 2.8.15
Number of good quality calls: 18
Av. peak frequency (kHz): 55
Av. max frequency (kHz): 56
Av. min frequency (kHz): 54
Call durations (ms): 3.2
Recorder settings
[{"rate":"384000","gain":"0.00","trig level":"0.00","trig max len":"0.00","trig window":"0.00","trig min freq":"0.00","trig max freq":"0.00","prefix":null}]
Uploaded using Bat2iNat

Activity

Community Taxon

Compare • What's this?

The Community ID requires at least two identifications.

Annotations

Attribute	Value	Agree	Disagree
Alive or Dead	Select		
Evidence of Presence	Select		
Life Stage	Select		

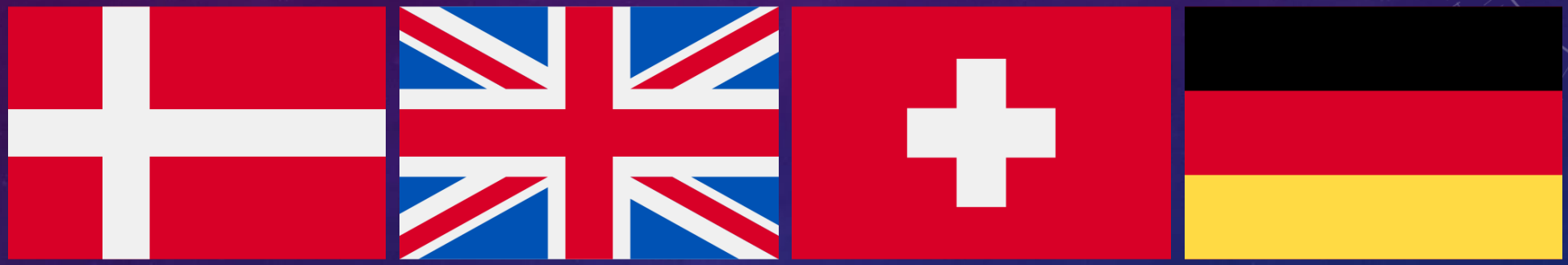
Observation Fields (4)

Bat detector model:
Echo Meter Touch 2 Pro Android App 2.8.15

Echolocation call frequency:
55

Sampling rate:
384

eventTime: 21:14:56



IT TAKES LITTLE EFFORT TO SUMMIT A MOLE HILL

CONCLUSION

1. There is lots of bat data out there, its just not easy to share
2. Bat2iNat is designed to make the process of sharing easy
3. This could all be done, more easily and effectively by iNaturalist itself

Anyone who wants to try Bat2iNat should drop me an email