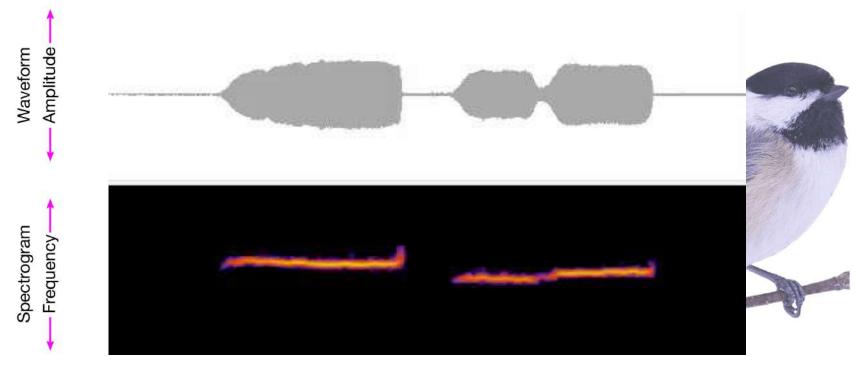
Spectrograms

- The spectrogram (sonogram) is a way of drawing a 'picture' of a sound.
- It is a graph showing how the frequency of the sound changes over time.





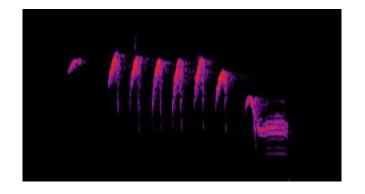


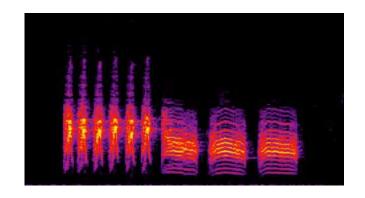












Black-capped Chickadee

Alarm Calls

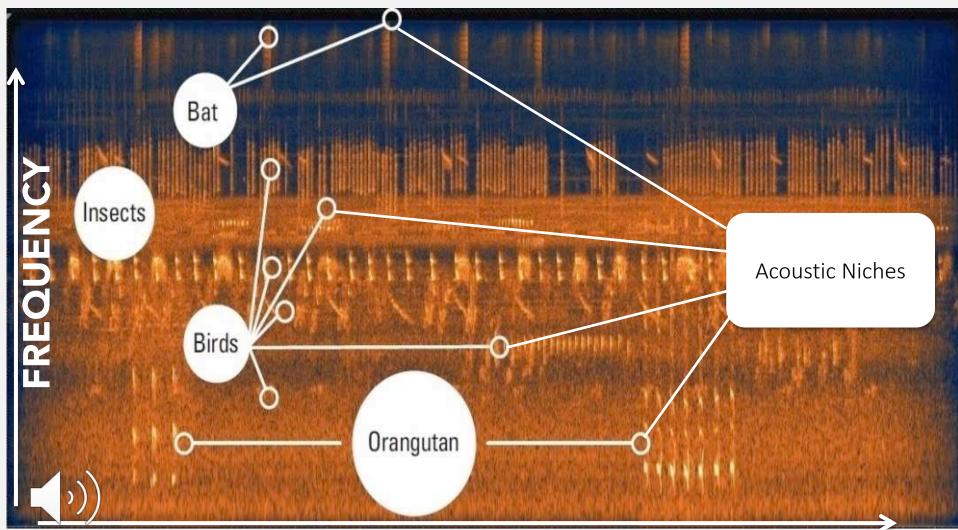
Song

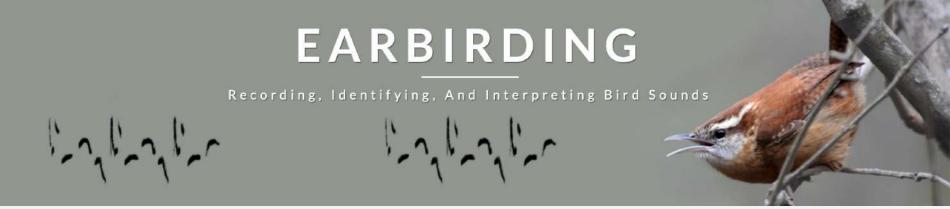
AABB.BE.co.007
Recordists: Arthur Allen, Kevin Colver, and Steven Pantle. Photograph by Missy Mandel. © 2013 The Cornell Lab of Ornithology.
Usage: biology, allaboutbirds, org/fermsofuse

Animated Slide

Advance to play

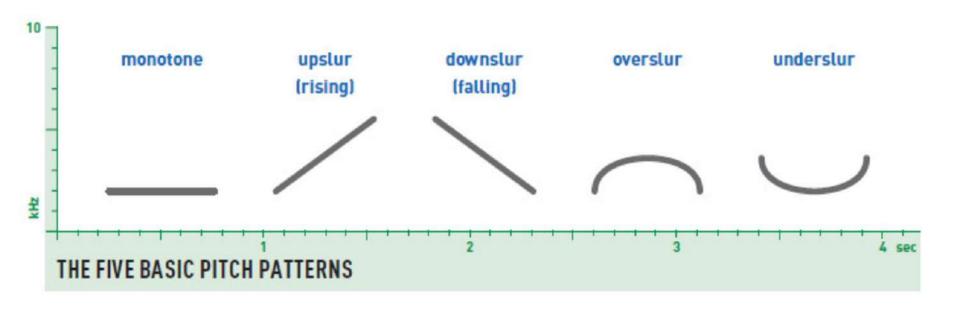
SOUNDSCAPE - SUMATRA



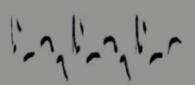


The five basic pitch patterns

Unlike music, bird sound identification does not require attention to the precise pitch of notes; more important is *how the pitch changes*. All bird sounds can be described with just five basic pitch patterns (or combinations thereof), which can be visualized this way:



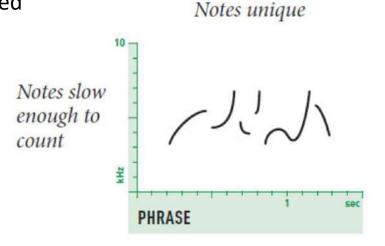
Recording, Identifying, And Interpreting Bird Sounds



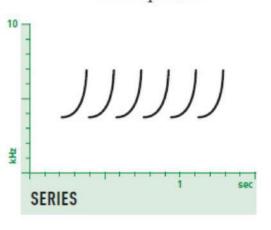


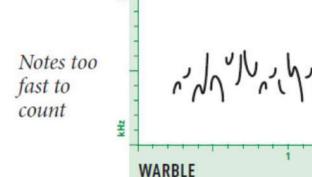


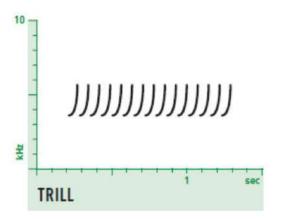
Repetition x speed



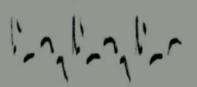
Notes repeated





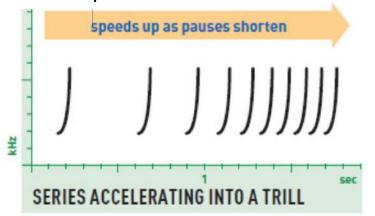


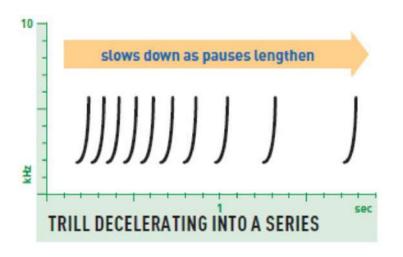
Recording, Identifying, And Interpreting Bird Sounds

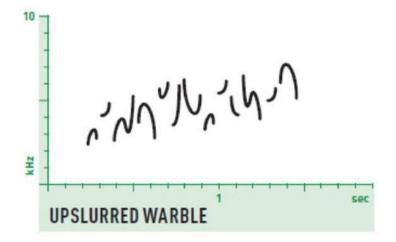


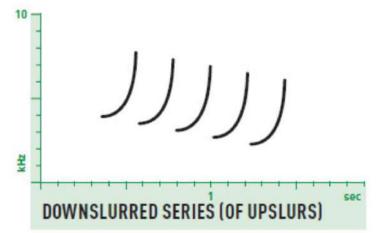






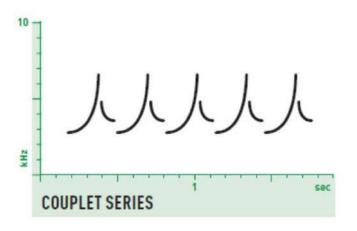


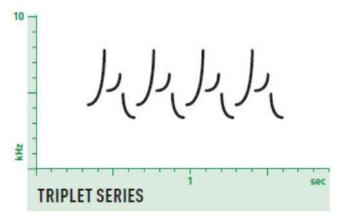


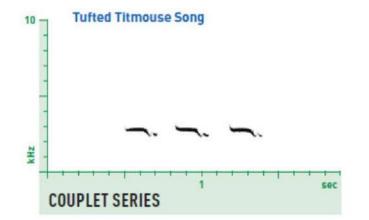


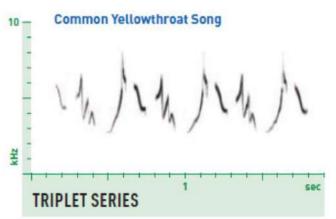
Complex series

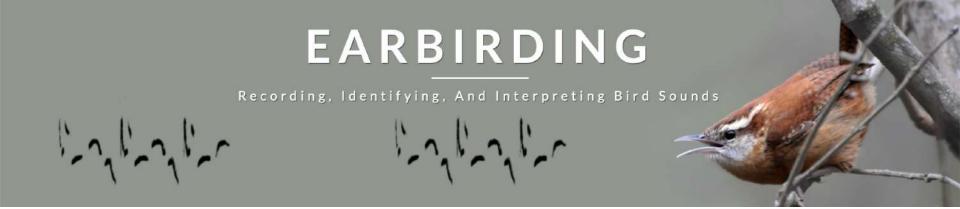
Sometimes the repeated elements in a series themselves consist of multiple notes. A couplet series sounds like a 2-syllable word repeated, such as "peter peter peter"; a triplet series sounds like a 3-syllable word repeated, such as "teakettle teakettle teakettle." Series of 1-syllabled notes can be called simple series.



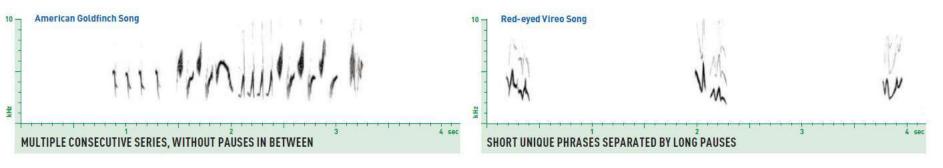


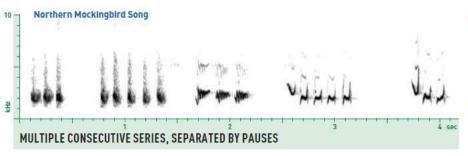


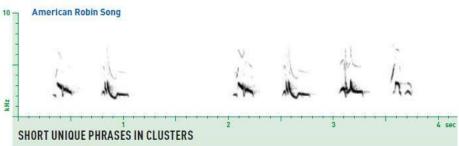




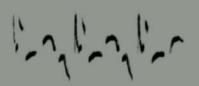
Pauses

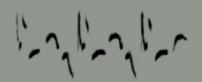






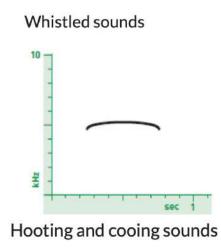
Recording, Identifying, And Interpreting Bird Sounds

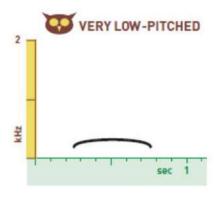




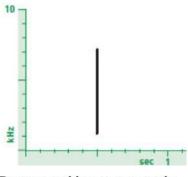


Seven basic tones

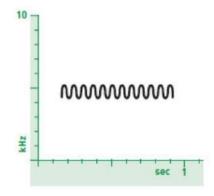




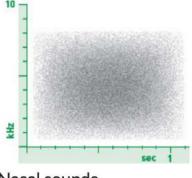
Ticking sounds



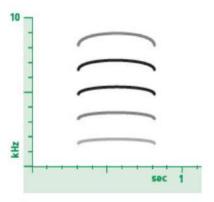
Burry and buzzy sounds



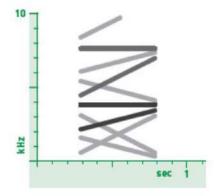
Noisy sounds

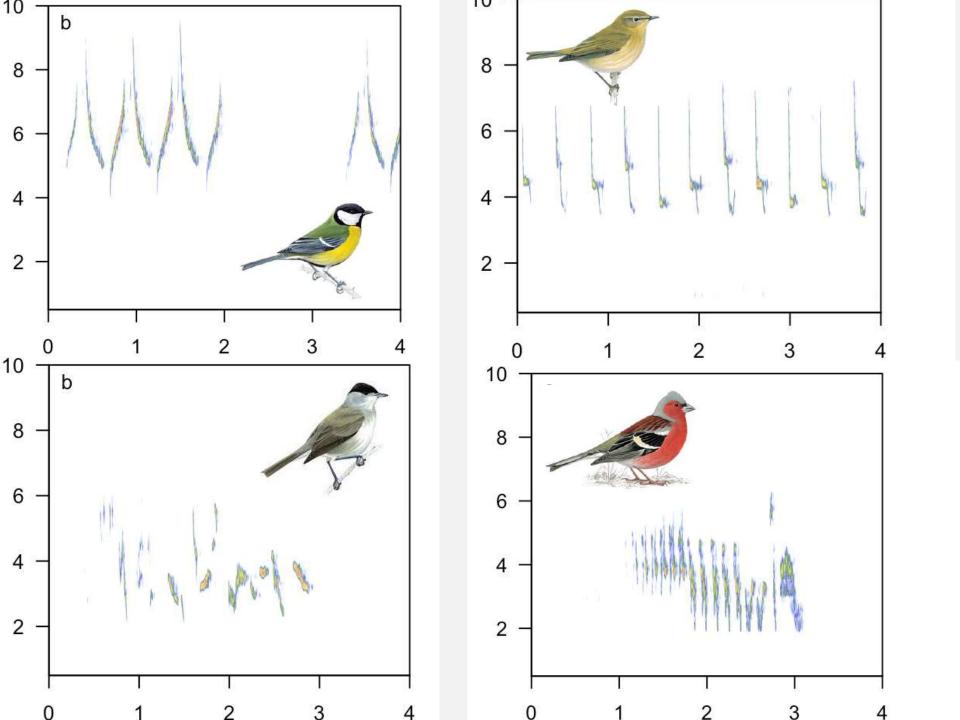


Nasal sounds



Polyphonic sounds







AMY LEEDALE¹

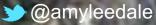
Dr Elva Robinson², Prof Ben Hatchwell¹

¹University of Sheffield, ² University of York



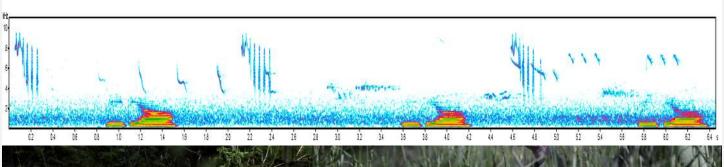


aleedale1@sheffield.ac.uk



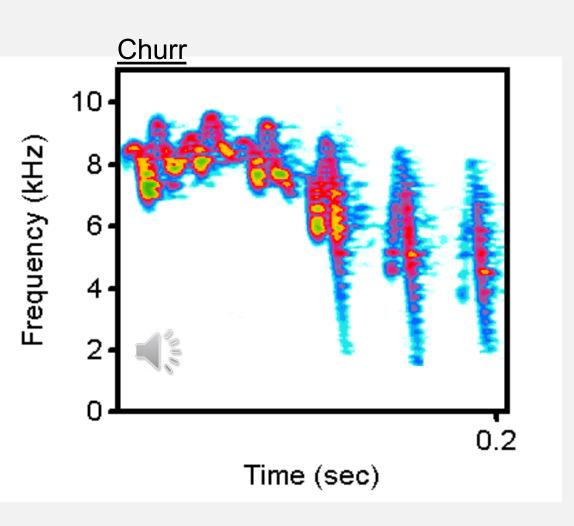


- Spring 2015-2017; 06:00-18:00h BST
- Senheiser ME67/K6 directional microphone
- (Rycote windjammer)
- Roland R-05 WAV/MP3 recorder v1.03
- Sample rate: 48kHz, 16-bit resolution
- Low-cut frequency: 400Hz
- 1-15m from focal individual

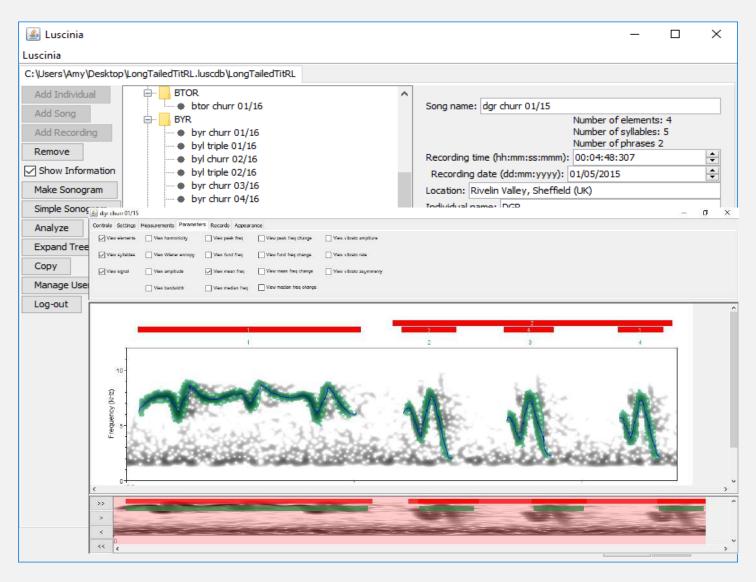


How are kin recognised?

Long-tailed tits recognise siblings using learned calls (playback experiments)

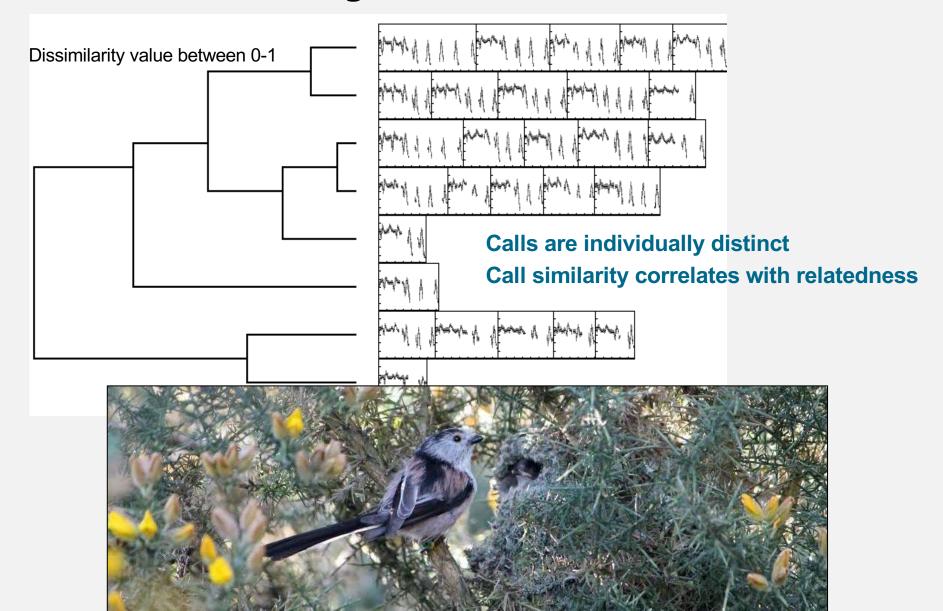


Is churr call similarity
used to distinguish
between close and
distant kin?



Dynamic Time Warping (DTW)

Call similarity and relatedness



Explore >

Sharing bird sounds from around the world

Upload Sounds

Forum

Mysteries

Articles

Logged in as Carlos Abrahams V

Recordings

12 results from 10 species for query 'box:54.107,-2.411,54.236,-2.233' (foreground species only) (0.78s)

- Export all results as a CSV (spreadsheet) file (maximum 1000 results)
- Make a map of all locations of the current selection
- · Add all results to a recording set
- Results format: detailed | concise | codes | sonograms









BCDE



Bird singing from wooded garden; sound... more »

BCDE





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ECOLOGICAL INTERACTIONS

DEOS ONOMAT

ONOMATOPOEIA OR IMITATIONS

Welcome to BioAcoustica. This site is an online repository and analysis platform for scientific recordings of wildlife sounds. In order to use the analysis functions you will need to <u>create an account</u>.

It is hoped that this archive of field and laboratory recordings will become a useful resource for those working on acoustic identification and monitoring whether they work by ear or are developing automated techniques.

Read more about the <u>aims of BioAcoustica</u>. Recordings are individually licensed, please see our Licensing Policy.







RECENT RECORDINGS

<u>Jassopsaltria rufifacies male calling song</u> <u>Bristol Community Garden Pond</u>

RECENTLY ADDED LITERATURE

A Comparison of Mating Calls Recorded around the Type Localities of Rana tagoi and R. neba (Amphibia: Anura:

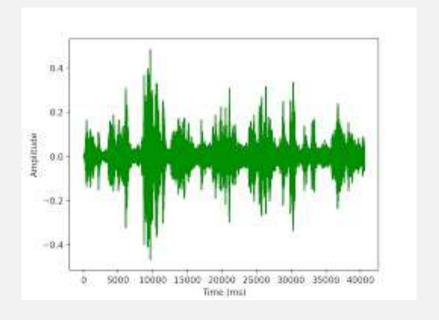
LATEST PROJECTS

External Repository Copies Recordings: 1,368

http://bio.acousti.ca/classification/micronecta

Download, listen and sort

- Download your WAVs
- Rename filenames
 ProjectLocation-Species_ yyyy-mm-dd_hh-mm-ss
- Listen to them



Editing individual WAVs – exercise

 See Volker Arnold article on Xeno-Canto: https://www.xeno-canto.org/article/146

 https://www.macaulaylibrary.org/resources/a udio-editing-tutorials/editing-in-audacity/

 Choose and edit one (or more) of your WAVs and export as MP3?