

# Package ‘NatureSounds’

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**Type** Package

**Title** Animal Sounds for Bioacoustic Analysis

**Version** 1.0.4

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**Description** Collection of example animal sounds for bioacoustic analysis.

**License** GPL (>= 2)

**Imports** tuneR

**Depends** R (>= 3.2.1), knitr

**LazyData** TRUE

**URL** <https://github.com/maRce10/NatureSounds>

**BugReports** <https://github.com/maRce10/NatureSounds/issues>

**NeedsCompilation** no

**Suggests** rmarkdown

**VignetteBuilder** knitr

**RoxygenNote** 7.1.1

**Repository** CRAN

**Date/Publication** 2021-04-23 04:30:11 UTC

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Cryp.soui	<i>Acoustic recording of Crypturellus soui (Little Tinamou).</i>
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### Description

Acoustic recording of *Crypturellus soui* (Little Tinamou).

### Usage

```
data(Cryp.soui)
```

### Format

One .wav file:

**Cryp.soui** *Crypturellus soui* recording

### Source

<https://www.xeno-canto.org/154190>

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lbh.est	<i>Extended selection table of Phaethornis longirostris songs</i>
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### Description

'lbh.est' contains an *extended selection table* following the warbleR package object format. The data contains the annotations and wave objects of 50 long-billed hermit songs from 10 different song types (5 per song type, 'lek.song.type' column) recorded at 8 leks ('lek' column) in the Caribbean slope of Costa Rica.

### Usage

```
data(lbh.est)
```

### Format

One object of class extended selection table (following warbleR package format) and data frame.

### Details

Extended selection table of *Phaethornis longirostris* (Long-billed Hermit) songs.

## References

Araya-Salas M, G Smith-vidaurre, D Mennill, P Gonzalez-Gomez, J Cahill & T Wright. 2019. Social group signatures in hummingbird displays provide evidence of co-occurrence of vocal and visual learning. *Proceedings of the Royal Society B*. 286: 20190666

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monk.parakeet.est      *Extended selection table of monk parakeet contact calls*

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## Description

'monk.parakeet.est' contains an *extended selection table* following the warbleR package object format. The data contains the annotations and wave objects of 52 monk parake calls from four different social scales (flock individual, pair, site, 'scale' column). The 'ID' column labels selections belonging to the same individual when 'scale == "Individual"'. See Smith-Vidaurre, Araya-Salas & Wright (2019) for more details.

## Usage

```
data(monk.parakeet.est)
```

## Format

One object of class extended selection table (following warbleR package format) and data frame.

## Details

Extended selection table of monk parakeet (*Myiopsitta monachus*) contact calls.

## Source

Data used in Smith-Vidaurre, Araya-Salas & Wright (2019)

## References

Smith-Vidaurre G, Araya-Salas M, & Wright T F. 2019. Individual signatures outweigh social group identity in contact calls of a communally nesting parrot. *Behavioral Ecology*.

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NatureSounds

*AnimalSounds: Animal Sounds for Bioacoustic Analysis*

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### Description

NatureSounds is a package containing a collection of example animal sounds for bioacoustic analysis. The main goal is to provide example recordings to facilitate the development of bioacoustic tools in the R environment.

### Details

Most data sets are provided as extended selection tables. These are R objects that contains both the annotations (locations of signals in time and frequency) and the corresponding acoustic data as wave objects. Therefore, these are **\*\*self-contained objects\*\*** since the original sound files are no longer needed to perform acoustic analyses. These objects are created by the 'selection\_table()' function from **warbleR**. Take a look at the **intro to warbleR vignette** for more details. Check out the packages **warbleR**, **tuneR** and **seewave** for sound file manipulation and analysis in R.

License: GPL (>= 2)

### Author(s)

Marcelo Araya-Salas Maintainer: Marcelo Araya-Salas (<marceloa27@gmail.com>)

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Phae.long.est

*Extended selection table of Phaethornis longirostris songs*

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### Description

'Phae.long.est' contains an *extended selection table* following the warbleR package object format. The data contains the annotations and wave objects of 50 long-billed hermit songs from 10 different song types (5 per song type, 'lek.song.type' column) recorded at 8 leks ('lek' column) in the Caribbean slope of Costa Rica. THIS DATA SET HAS BEEN RENAMED AS 'lbh.est'. 'Phae.long.est' WILL BE DEPRECATED IN FUTURE VERSIONS.

### Usage

```
data(Phae.long.est)
```

### Format

One object of class extended selection table (following warbleR package format) and data frame.

### Details

Extended selection table of *Phaethornis longirostris* (Long-billed Hermit) songs.

**References**

Araya-Salas M, G Smith-vidaurre, D Mennill, P Gonzalez-Gomez, J Cahill & T Wright. 2019. Social group signatures in hummingbird displays provide evidence of co-occurrence of vocal and visual learning. Proceedings of the Royal Society B. 286: 20190666

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Phae.long1

*Audio recording #1 of Phaethornis longirostris*

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**Description**

Audio recording #1 of *Phaethornis longirostris* (Long-billed Hermit).

**Usage**

data(Phae.long1)

**Format**

One .wav file:

**Phae.long1** *Phaethornis longirostris* #1 recording

**Source**

<https://www.xeno-canto.org/contributor/EMCWQLLKEW>

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Phae.long2

*Audio recording #2 of Phaethornis longirostris*

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**Description**

Audio recording #2 of *Phaethornis longirostris* (Long-billed Hermit).

**Usage**

data(Phae.long2)

**Format**

One .wav file:

**Phae.long2** *Phaethornis longirostris* #2 recording

**Source**

<https://www.xeno-canto.org/contributor/EMCWQLLKEW>

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Phae.long3

*Audio recording #3 of Phaethornis longirostris*

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**Description**

Audio recording #3 of *Phaethornis longirostris* (Long-billed Hermit).

**Usage**

data(Phae.long3)

**Format**

One .wav file:

**Phae.long3** *Phaethornis longirostris* #3 recording

**Source**

<https://www.xeno-canto.org/contributor/EMCWQLLKEW>

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Phae.long4

*Audio recording #4 of Phaethornis longirostris*

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**Description**

Audio recording #4 of *Phaethornis longirostris* (Long-billed Hermit).

**Usage**

data(Phae.long4)

**Format**

One .wav file:

**Phae.long4** *Phaethornis longirostris* #4 recording

**Source**

<https://www.xeno-canto.org/contributor/EMCWQLLKEW>

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`thyroptera.est`*Extended selection table of Spix's disc-winged bat social calls*

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**Description**

'thyroptera.est' contains an *extended selection table* following the warbleR package object format. The data contains the annotations and wave objects of 32 Spix's disc-winged bats social calls from 8 individuals ('id' column) belonging to 4 social groups ('group' column). See Araya-Salas et al (2020) for more details. Can be used (among other things) to test for individual and group acoustic signatures.

**Usage**

```
data(thyroptera.est)
```

**Format**

One object of class extended selection table (following warbleR package format) and data frame.

**Details**

Extended selection table of Spix's disc-winged bats (*Thyroptera*) social calls.

**Source**

Data used in Araya-Salas et al (2020)

**References**

Araya-Salas M, A Hernandez-Pinson, N Rojas, G Chaverri. 2020. Ontogeny of an interactive call-and-response system in Spix's disc-winged bats. *Animal Behaviour*.

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