README

Raw data included in “activity\_data.csv” include presence absence data for túngara frogs attending to 16 breeding sites nearby Gamboa, Panamá. Data in “site\_arrival.csv” and “call\_start.csv” present the time of arrival to breeding sites and the time to start calling, respectively. Finally, “call\_measurements.csv” includes data examining several calling characteristics of male túngara frogs: calling effort, call rate, call bout length, and call complexity. These data were incorporated into the following publication:

Cronin AD, Smit JAH, Halfwerk W. Anthropogenic noise and light alter temporal but not spatial breeding behavior in a wild frog. Behavioral Ecology (in press).

Column Labels

activity\_data.csv

Date: date in the format YYYYMMDD

Block: Grouping of four “Sites”, used to balance the presentation of sensory treatments

Site: Identifier for individual artificial breeding sites

Days\_active: Count of the number of days after artificial breeding sites were placed in the field

Treatment: Sensory treatment used at a given site on a given night. “C” denotes Control, “N” denotes Noise, “L” denotes Light, and “L+N” denotes Light and Noise.

Light: “1” denotes presence of artificial light, “0” denotes absence of artificial light

Noise: “1” denotes presence of anthropogenic noise, “0” denotes absence of anthropogenic noise

Video\_id: Identifier for each recording period in format Site\_DDMMYYYY\_recordingnumber

Time\_start: Starting time for each recording period in HH:MM:SS format

Total\_frogs: Total number of unique frogs captured in the camera frame within the recording period

Pres: This is binary data indicating whether any frogs were present within the recording period. “1” denotes presence of frogs, “0” denotes absence of frogs.

Abs: Binary data indicating whether frogs were absent within the recording period. “1” denotes absence of frogs, “0” denotes presence of frogs.

In-puddle: Total number of unique frogs seen within the breeding site during the recording period

Pres\_call: Binary data indicating whether any frogs were calling during the recording period. “1” denotes presence of calling, “0” denotes absence of calling.

Abs\_call: This is binary data indicating that no frogs were calling during the recording period. “1” denotes absence of calling, “0” denotes presence of calling.

Total\_calling: Total number of unique frogs calling within a recording period

Pair: Total number of amplexed pairs seen during the recording period

site\_arrival.csv

Date: date in the format YYYYMMDD

Block: Grouping of four “Sites”, used to balance the presentation of sensory treatments

Site: Identifier for individual artificial breeding sites

Days\_active: Count of the number of days after artificial breeding sites were placed in the field

Treatment: Sensory treatment used at a given site on a given night. “C” denotes Control, “N” denotes Noise, “L” denotes Light, and “L+N” denotes Light and Noise.

Light: “1” denotes presence of artificial light, “0” denotes absence of artificial light

Noise: “1” denotes presence of anthropogenic noise, “0” denotes absence of anthropogenic noise

Arrival\_time: Time when first frog arrived at the breeding site in format HH:MM:SS

Exp\_start: Start time of the experiment in format HH:MM:SS

Sec\_since\_start: Time difference between arrival\_time and exp\_start in seconds

Mic\_since\_start: Time difference between arrival\_time and exp\_start in minutes

Date\_site: Unique identifier for date and site combination

Treatment\_site: Unique identifier for treatment and site combination

call\_start.csv

Date: date in the format YYYYMMDD

Block: Grouping of four “Sites”, used to balance the presentation of sensory treatments

Site: Identifier for individual artificial breeding sites

Days\_active: Count of the number of days after artificial breeding sites were placed in the field

Treatment: Sensory treatment used at a given site on a given night. “C” denotes Control, “N” denotes Noise, “L” denotes Light, and “L+N” denotes Light and Noise.

Light: “1” denotes presence of artificial light, “0” denotes absence of artificial light

Noise: “1” denotes presence of anthropogenic noise, “0” denotes absence of anthropogenic noise

Call\_start: Start time of first calling behavior in format HH:MM:SS

Exp\_start: Start time of the experiment in format HH:MM:SS

Sec\_since\_start: Time difference between call\_start and exp\_start in seconds

Mic\_since\_start: Time difference between call\_start and exp\_start in minutes

Date\_site: Unique identifier for date and site combination

Treatment\_site: Unique identifier for treatment and site combination

call\_measurements.csv

File name: Name of corresponding video file

Date: date in the format YYYYMMDD

Site: Identifier for individual artificial breeding sites

Days\_active: Count of the number of days after artificial breeding sites were placed in the field

Treatment: Sensory treatment used at a given site on a given night. “C” denotes Control, “N” denotes Noise, “L” denotes Light, and “L+N” denotes Light and Noise.

Light: “1” denotes presence of artificial light, “0” denotes absence of artificial light

Noise: “1” denotes presence of anthropogenic noise, “0” denotes absence of anthropogenic noise

Start\_video: The start time of the recording period in format HH:MM:SS

Exp\_start: Start time of the experiment in format HH:MM:SS

Sec\_aft\_start: Time difference between start\_video and exp\_start in seconds

Min\_aft\_start: Time difference between start\_video and exp\_start in minutes

Pres\_callbout: Binary data indicating the presence of a calling bout. “1” denotes presence of calling bout, “0” denotes absence of calling bout.

Len\_callbout: Length of the calling bout in seconds

Len\_callrate: Length of calling period that was used for call rate and call complexity measures (discarded first 15 seconds of calling bout to account for “warmup period”). This value has a maximum of 60 seconds.

Num\_calls: Total number of calls within timeframe of len\_callbout

Callrate: Call rate expressed as number of calls/minute. Calculated using num\_calls/len\_callrate

Max\_chucks: Maximum number of chucks produced within a single call

Total\_chucks: Total number of chucks produced within timeframe of len\_callbout

Avg\_complexity: Average number of chucks per call within the timeframe of len\_callbout. Calculated as total\_chucks/num\_calls

FrogsPres: Total number of unique frogs within the camera frame for this recording period

FrogsCall: Total number of unique calling frogs within the camera frame for this recording period