

Package: miscYAPS (via r-universe)

September 7, 2024

Title Miscellaneous data and helper functions for using YAPS

Version 0.0.0.9000

Description Provides a bit of data and helper functions for wrapping around the key YAPS functions. The main function is `swim_yaps`, which will allow you to pass a `data.table` that is formatted with columns `ts`, `epo`, `frac`, `tag`, `serial` to the function. You must have a synchronisation model already available that is named `sync_model` and a `data.table` object for the hydrophones and their locations named `hydros`, as per the YAPS specifications. You should be familiar with YAPS in order to use this package but it will hopefully help make your life easier by looping through YAPS runs `N` (user specified number) of times and taking the best fit among those runs for each fish day. You will also find some data in the package to help you try.

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Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.2.3

Imports beepR (>= 3.6.0), glue (>= 1.6.2), lifecycle (>= 1.0.3), rlang (>= 1.0.6), withr (>= 2.5.0), purrr, yaps, dplyr, tidyr, lubridate, data.table, magrittr, gridExtra

Remotes baktoft/yaps

Depends R (>= 2.10)

LazyData true

Repository <https://mhpub.r-universe.dev>

RemoteUrl <https://github.com/robertlennox/miscYAPS>

RemoteRef HEAD

RemoteSha a9b579d334db8fe77242371a85af17b7f31ff1b1

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swim_yaps	<i>functions to get receiver and tagging metadata into session</i>
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Description

functions to get receiver and tagging metadata into session

Usage

```
swim_yaps(fish_detections, runs, rbi_min, rbi_max)
```

Arguments

fish_detections	the data frame with the fish detections including epo and frac
runs	number of times to refit the model
rbi_min	the minimum random burst interval of the transmitter
rbi_max	the maximum random burst interval of the transmitter

sync	<i>functions to get receiver and tagging metadata into session</i>
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Description

functions to get receiver and tagging metadata into session

Arguments

hydros	the hydrophone data frame as a data.table
detections	a data.table of the sync tag detections
ss_data	a data.table of the speed of sound data formatted using yaps::tempToSs
HOW_THIN	is the number for the eps_threshold.. smaller makes a thinner distribution default is 50
keep_rate	what proportion of sync tag detections do you want to retain, default is 1 (100%)
timekeeper	is the idx of the most perfectly fixed hydrophone; refer to hydros data.table for idx numbers

`yaps_all`*functions to get receiver and tagging metadata into session*

Description

functions to get receiver and tagging metadata into session

Arguments

<code>fish_detections</code>	the data frame with the fish detections including <code>epo</code> and <code>frac</code>
<code>rbi_min</code>	the minimum random burst interval of the transmitter
<code>rbi_max</code>	the maximum random burst interval of the transmitter
<code>runs</code>	number of times to refit the model
<code>silent</code>	do you want to hide all the TMB code running? Default is yes (TRUE)

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