Package ‘fishdata’

February 13, 2018

Type Package
Title A Small Collection of Fish Population Datasets
Version 0.1.3
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Description A collection of four datasets based around the population dynamics of migratory fish. Datasets contain both basic size information on a per fish basis, as well as otolith data that contains a per day record of fish growth history. All data in this package was collected by the author, from 2015-2016, in the Wellington region of New Zealand.
License GPL-3
Depends R (>= 2.10)
Encoding UTF-8
LazyData true
RoxygenNote 6.0.1
Suggests knitr, rmarkdown, dplyr, magrittr
VignetteBuilder knitr
NeedsCompilation no
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Repository CRAN
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adult_growths  

Growth data of adult fish

Description
A dataset containing adult data for adults of a migratory fish species. It matches with the "adult_morphologies" dataset.

Usage

data(adult_growths)

Format
A dataset containing 16795 rows and 6 variables

fish_id  a unique identifier for each fish
site  one of two collection sites
month  month that the fish was collected on
increment  a count of each otolith increment. Counts a day in the fishes life
position  the distance of the increment from the centre of the otolith
distance  the distance of the increment from the previous increment

adult_morphologies  

Morphological data of adult fish

Description
A dataset containing morphological data for adult of a migratory fish species. It matches with the "adult_growths" dataset.

Usage

data(adult_morphologies)

Format
A dataset containing 48 rows and 5 variables

standard_length  standard length of the fish (distance from posterior to caudal peduncle)
body_depth  body depth of the fish at its maximum point
fish_id  a unique identifier for each fish
site  one of two collection sites
month  month that the fish was collected on
juvenile_growths

<table>
<thead>
<tr>
<th></th>
<th>Growth data of juvenile fish</th>
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**Description**

A dataset containing growth data for juveniles of a migratory fish species. It matches with the "juvenile_morphologies" dataset.

**Usage**

```r
data(juvenile_growths)
```

**Format**

A dataset containing 104376 rows and 8 variables

- **fish_id**: a unique identifier for each fish
- **otolith_id**: unique identifier for the fishes otolith
- **site**: one of two collection sites
- **month**: month that the fish was collected on
- **day**: day that the fish was collected on
- **increment**: a count of each otolith increment. Counts a day in the fishes life
- **position**: the distance of the increment from the centre of the otolith
- **distance**: the distance of the increment from the previous increment

juvenile_morphologies

<table>
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<th>Morphological data of juvenile fish</th>
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**Description**

A dataset containing morphological data for juveniles of a migratory fish species. It matches with the "juvenile_growths" dataset

**Usage**

```r
data(juvenile_morphologies)
```
Format

A dataset containing 496 rows and 7 variables

- **fish_id**: a unique identifier for each fish
- **site**: one of two collection sites
- **day**: day that the fish was collected on
- **month**: month that the fish was collected on
- **standard_length**: standard length of the fish (distance from posterior to caudal peduncle)
- **body_depth**: body depth of the fish at its maximum point
- **otolith_id**: unique identifier for the fishes otolith
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