Package: klexdatr (via r-universe)

June 19, 2024

Title Kootenay Lake Exploitation Study Data
Version 0.1.2.9000
Description Six relational 'tibbles' from the Kootenay Lake Large Trout Exploitation study. The study which ran from 2008 to 2014 caught, tagged and released large Rainbow Trout and Bull Trout in Kootenay Lake by boat angling. The fish were tagged with internal acoustic tags and/or high reward external tags and subsequently detected by an acoustic receiver array as well as reported by anglers. The data are analysed by Thorley and Andrusak (1994) <doi:10.7717 peerj.2874=""> to estimate the natural and fishing mortality of both species.</doi:10.7717>
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Depends R (>= 3.4)
Imports sf
Suggests chk, covr, testthat, tibble
<pre>URL https://github.com/poissonconsulting/klexdatr</pre>
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Repository https://poissonconsulting.r-universe.dev
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capture

Fish Capture Data

Description

Fish Capture Data

Usage

capture

Format

A tbl data frame:

Capture The unique fish code (fctr).

DateTimeCapture The date and time of capture (time).

SectionCapture The section code (fint).

Species The fish species 'Bull Trout', 'Lake Trout' or 'Rainbow Trout' (fctr).

Length The fork length in mm (int).

Weight The wet mass in kg (dbl).

Reward1 The reward value of the first T-Bar tag in Canadian dollars (int).

Reward2 The reward value of the second T-Bar tag if present in Canadian dollars (int).

DateTimeTagExpire The acoustic tag expiration date and time (time).

deployment

Receiver Deployment Data

Description

A data frame of receiver deployments by station and date times.

Usage

deployment

detection 3

Format

A tbl data frame:

Station The station name (fctr).

Receiver The receiver code (fctr).

DateTimeReceiverIn The receiver deployment date and time (time).

DateTimeReceiverOut The receiver retrieval date and time (time).

detection

Acoustic Detection Data

Description

Hourly acoustic detection data by fish (capture) and receiver.

Usage

detection

Format

A tbl data frame:

DateTimeDetection The detection date and hour (time).

Capture The fish code (fctr).

Receiver The receiver code (fctr).

Detections The number of detections in the hour (int).

recapture

Fish Recapture Data

Description

A tbl data frame of fish recaptures. As the time of recapture was not reported it is assumed to be 12:00:00.

Usage

recapture

4 section

Format

A tbl data frame:

DateTimeRecapture The reported date of recapture (time).

Capture The fish code (fctr).

SectionRecapture The section code (fctr).

TBarTag1 The first T-Bar Tag was reported (lgl).

TBarTag2 A second T-Bar Tag was reported (lgl).

TagsRemoved The T-Bar tags were removed from the fish (lgl).

Released The angler reportedly released the fish (lgl).

Public The angler was a member of the public as opposed the study team (lgl).

section

Section Data

Description

Section Spatial Polygon Data

Usage

section

Format

A SpatialPolygonsDataFrame with the data frame:

Section The unique section code (fctr).

Habitat The habitat type 'Lentic' or 'Lotic' (fctr).

Bounded The polygon represents the full area (lgl).

geometry The section polygon (MULTIPOLYGON (m)).

Details

Polygons of sections of the waterbodies.

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station

Station Data

Description

A tbl data frame of detection stations.

Usage

station

Format

A tbl data frame:

Station The unique station name (fctr).

Section The section code (fctr).

geometry The station point (POINT (m)).

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