Package 'r4fish'

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Type Package

Title r4fish analysis

Version 1.1.0

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Description Assessment for Marine Resources Toolkit.

License What license is it under?

Encoding UTF-8

LazyData true

RoxygenNote 7.2.3

R topics documented:

assignerPeruvianGrid *Title*

Description

Title

Usage

```
assignerPeruvianGrid(
  data,
  xlon = "lon",
  ylat = "lat",
  by = "onedegree",
  metadata = F,
  save = T,
  cout = "."
)
```

Arguments

cout

calculateJuv *Title*

Description

Title

Usage

```
calculateJuv(vec, marks, mjuv, abs = T)
```

Arguments

abs

curve.sel *Title*

Description

Title

Usage

```
curve.sel(
  sp = NA,
  stock = NA,
  marks = NA,
  par = c(NA, NA),
  method = "log3",
  add.plot = T,
  add.inv = T
)
```

Arguments

add.inv

distCoast *Title*

Description

Title

Usage

```
distCoast(lon, lat)
```

Arguments

lat

`estimateMode` *Estima moda de una frecuencia de tallas*

Description

Estima moda de una frecuencia de tallas

Usage

```
estimateMode(len, freq, tol.n = 150, nmodes = 2, tol.freq = 10)
```

Arguments

`len`	vector completo de tallas
`freq`	vector completo de frecuencias
`tol.n`	valor de tolerancia del numero de la muestra
`nmodes`	numero de modas a estimar
`tol.freq`	valor de tolerancia para ser considerada moda

`g2plotSurvey` *Title*

Description

Title

Usage

```
g2plotSurvey(
  dat = dat,
  col.var = "biomasa",
  col.factor = 2,
  factor = NA,
  cols.factor = c("red", "blue"),
  box = "boxplot",
  model = "lm",
  lambda = 1e-04,
  IC.model = TRUE,
  info = TRUE,
  marf = c(0.5, 0.5, 0, 0.5),
  omaf = c(3, 4.5, 2, 2),
  hline = TRUE,
  cline = "white",
  bgf = "white",
  lwdf = 1,
  ltyf = 1,
  pchf = 16,
  cexf = 1.5,
```

```
  unitf = 1,
  saveplot = T,
  outf = "./",
  widthf = 1800,
  heightf = 1200,
  resf = 250,
  labels.f = c("\nverano", "\ninvierno-\nprimavera"),
  labels.y = "Biomasa ton",
  ...
)
```

Arguments

```
labels.y
```

`getModeSpecies` *Title*

Description

Title

Usage

```
getModeSpecies(
  Length = Length,
  sp = "anchoveta",
  src = "fsh",
  nmodes = 2,
  tol = 0,
  savePlot = TRUE,
  dirout = "Outputs/"
)
```

Arguments

```
dirout
```

`getStockInfo` *Title*

Description

Title

Usage

```
getStockInfo(sp, data = NULL, ...)
```

Arguments

```
...
```

getSurveyLmax *Title*

Description

Title

Usage

```
getSurveyLmax(dat = dat, sp = "anchoveta", src = "pope", col.var = 4:78)
```

Arguments

col.var

MapPeruGrid *Title*

Description

Title

Usage

```
MapPeruGrid(
  data,
  colcode = "code",
  colval = "freq",
  typeval = "#",
  xxlim = c(-86, -70),
  yylim = c(-21, -3),
  by = "onedegree",
  gradient = c("yellow", "red"),
  border = NA,
  all.grid = F,
  land.col = "gray90",
  land.border = "gray90",
  legend = T,
  txtleg = "(n)",
  xaxis = 1,
  yaxis = 4,
  portImport = 2,
  save = T,
  cout = "."
)
```

Arguments

cout

plot.matrixFreq *Title*

Description

Title

Usage

```
## S3 method for class 'matrixFreq'
plot(
  x,
  relative = T,
  clean = T,
  ylim = c(0, 20),
  yinter = 5,
  juvMarks = 51,
  plotCol = "blue",
  juvCol = "red",
  textx = "Longitud total (cm)",
  type = "barplot"
)
```

Arguments

type

plot2CompSizeTime *Title*

Description

Title

Usage

```
plot2CompSizeTime(
  dat = dat_marks,
  sp = "anchoveta",
  stock = "nc",
  type = "B",
  ab = NA,
  factor = NA,
  cexf = 3,
  col.in = "gray90",
  col.bd = "black",
  marp = c(3, 3, 2, 2),
  omap = c(1, 2, 1, 1),
  mgpp = c(1, 0.5, 0),
```

```
  widthFig = 2600,
  heightFig = 3200,
  resFig = 380,
  SavePlot = T,
  dirout = "Outputs/"
)
```

Arguments

```
dirout
```

`PlotSimpleFrec2` *Title*

Description

Title

Usage

```
PlotSimpleFrec2(
  data,
  sp = sp,
  stock = stock,
  col.sp = "red",
  colset = "navajowhite",
  cout = ".",
  save = T,
  format = ".png",
  ylim = c(0, 0.5),
  width = 2625,
  height = 1750
)
```

Arguments

```
colset
```

`plot_envir` *Title*

Description

Title

Usage

```
plot_envir(
  what = NA,
  year.limit = c(1990, 2022),
  ylim = c(-2, 3.5),
  magnitude = F,
  axis.x = T
)
```

Arguments

```
axis.x
```

---

read_freq_F1 *Title*

Description

Title

Usage

```
read_freq_F1(file)
```

Arguments

```
file
```

---

renderBiometric *Crea, unifica archivo biometrico*

Description

Crea, unifica archivo biometrico

Usage

```
renderBiometric(
  cin = "inputs",
  cout = ".",
  file = "data.xlsx",
  encoding = "latin",
  save = T,
  ...
)
```

Arguments

cin	vector de caracteres que contienen la ruta de entrada
cout	vector de caracteres que contienen la ruta de salida
file	vector de caracteres que contienen el nombre del archivo
encoding	vector de caracteres para tipo de codificacion
save	logico; ¿Se deben guardar el archivo?

Value

base de datos biométrico

Examples

```
\code{renderBiometric(cin =  "input",
cout = NA,
file = "Biometria por especies 03032023.xlsx",
save = T)}
```

---

script_wd *Title*

Description

Title

Usage

```
script_wd()
```

SimpleFrecSp *Plot: Estructura de tallas para "anchoveta "spTarget" lances*

Description

Plot: Estructura de tallas para "anchoveta "spTarget" lances

Usage

```
SimpleFrecSp(data = x, sp = "anchoveta", stock = "nc", save = T)
```

Arguments

data	datos del crucero en formato MF
sp	especie objetivo de la evaluación
stock	stock objetivo de la evaluación
save	valor logico; ¿Se deben guardar la matriz de lances en "csv"?

subsetSurvey *Title*

Description

Title

Usage

```
subsetSurvey(
  dat = dat,
  col.var = c("biomasa", "abundancia"),
  year.lim = c(1996, 2022),
  col.set = "filter",
  set = "ok",
  col.factor = "season",
  col.label = 2,
  col.date = NA,
  col.month = NA,
  col.sems = "semester",
  col.year = "year"
)
```

Arguments

```
col.year
```

validateSp *Identifica errores y valida la base de datos*

Description

Identifica errores y valida la base de datos

Usage

```
validateSp(
  data = data,
  sp = "anchoveta",
  stock = NA,
  cout = "outputs",
  file = "validateSp"
)
```

Arguments

data	datos del crucero en formato MF
sp	especie objetivo de la evaluación
stock	stock objetivo de la evaluación
cout	vector de caracteres que contienen la ruta de salida
file	ector de caracteres que contienen el nombre del archivo

Examples

```
\code{validateSp(data = data, sp = "jurel", stock = NA, cout = "outputs",
file = "document.docx")}
```

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