

Package ‘RDBprocessing’

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Title Processing functions for RDBFIS

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Description The package contains functions used to perform data processing in RDBFIS.

License GPL (>= 3)

Depends R (>= 4.1.0)

LazyData true

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Roxygen list(markdown = TRUE)

RoxygenNote 7.2.1

Imports dplyr, COSTeda, COSTcore, COSTdbe, magrittr, methods, data.table, tidyr, lubri-
date, plyr, reshape2

Suggests rmarkdown,
knitr,
markdown

VignetteBuilder knitr

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ALK_MEDBS	<i>Age Length Key (ALK) table - MED & BS data call</i>
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Description

Age Length Key (ALK) table - MED & BS data call

Usage

ALK_MEDBS(data)

Arguments

data	Detailed data in RCG CS format
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Value

ALK table

Examples

```
library(COSTcore)
ALK_MEDBS(RDBprocessing::data_ex)
```

Annex17	<i>Annex 1.7</i>
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Description

Annex 1.7

Usage

Annex17

Format

An object of class `data.frame` with 64 rows and 3 columns.

Author(s)

Isabella Bitetto <bitetto@coispa.it>

CATCH_FDI	<i>CATCH table - FDI data call</i>
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Description

CATCH table - FDI data call

Usage

```
CATCH_FDI(datacl, verbose = FALSE)
```

Arguments

datacl	Landing data in RCG CL format
verbose	boolean. If TRUE a message is printed.

Value

CATCH FDI table

Examples

```
CATCH_FDI(RDBprocessing::data_exampleCL)
```

CATCH_FDIex	<i>CATCH_FDIex : example of Catch table FDI</i>
-------------	---

Description

CATCH_FDIex : example of Catch table FDI

Usage

```
CATCH_FDIex
```

Format

An object of class `data.frame` with 2540 rows and 23 columns.

Author(s)

Isabella Bitetto <bitetto@coispa.it>

CATCH_MEDBS	<i>Catch at age (CATCH) table - MED & BS data call</i>
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Description

Catch at age (CATCH) table - MED & BS data call

Usage

```
CATCH_MEDBS(dataacs, dataacl, dataace, verbose = FALSE)
```

Arguments

dataacs	Detailed data in RCG CS format
dataacl	Landings aggregated data in RCG CL format
dataace	Effort aggregated data in RDB CE format (https://www.ices.dk/data/Documents/RDB/RDB%20Exchange%20Format.pdf)
verbose	boolean. If TRUE a message is printed.

Value

CATCH table

Examples

```
CATCH_MEDBS(RDBprocessing::data_ex, RDBprocessing::data_exampleCL, RDBprocessing::ce_example)
```

ce_example	<i>RBD CE example (https://www.ices.dk/data/Documents/RDB/RDB%20Exchange%20Format.pdf)</i>
------------	---

Description

RBD CE example (<https://www.ices.dk/data/Documents/RDB/RDB%20Exchange%20Format.pdf>)

Usage

```
ce_example
```

Format

An object of class `data.frame` with 27 rows and 18 columns.

Author(s)

Isabella Bitetto <bitetto@coispa.it>

check_cs_header	<i>Headers check for CS table</i>
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Description

Headers check for CS table

Usage

```
check_cs_header(cs, verbose = FALSE)
```

Arguments

cs	RCG sampling table (CS)
verbose	boolean. If TRUE messages are returned

Value

The data frame of CS data is returned with the expected format used by the QC functions

Examples

```
check_cs_header(data_ex)
```

CT	<i>CT communication table GFCM-MEDBS-FDI</i>
----	--

Description

CT communication table GFCM-MEDBS-FDI

Usage

```
CT
```

Format

An object of class `data.frame` with 134 rows and 7 columns.

Author(s)

Isabella Bitetto <bitetto@coispa.it>

data_ex	<i>RCG CS example</i>
---------	-----------------------

Description

RCG CS example

Usage

data_ex

Format

An object of class `data.frame` with 9099 rows and 40 columns.

Author(s)

Isabella Bitetto <bitetto@coispa.it>

data_exampleCL	<i>RCG CL example</i>
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Description

RCG CL example

Usage

data_exampleCL

Format

An object of class `data.frame` with 35 rows and 11 columns.

Author(s)

Isabella Bitetto <bitetto@coispa.it>

DISC_MEDBS *Discard by length (DISCARDS) table - MED & BS data call*

Description

Discard by length (DISCARDS) table - MED & BS data call

Usage

DISC_MEDBS(datacs, datacl, datace, verbose = FALSE)

Arguments

datacs	Detailed data in RCG CS format
datacl	Landings aggregated data in RCG CL format
datace	Effort aggregated data in RDB CE format (https://www.ices.dk/data/Documents/RDB/RDB%20Exch)
verbose	boolean. If TRUE a message is printed.

Value

DISCARDS table

Examples

DISC_MEDBS(RDBprocessing::data_ex, RDBprocessing::data_exampleCL, RDBprocessing::ce_example)

fishery *communicationTable_for_fishery*

Description

communicationTable_for_fishery

Usage

fishery

Format

An object of class `data.frame` with 13 rows and 2 columns.

Author(s)

Isabella Bitetto <bitetto@coispa.it>

fpKey	<i>Function to create a key from the fields of a table</i>
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Description

Function to create a key from the fields of a table

Usage

```
fpKey(tab, colIndex, sep = ":-:")
```

Arguments

tab	table
colIndex	indices of columns to consider in the ID
sep	separator

Value

key

Examples

```
fpKey(data_ex, colnames(data_ex)[1:5])
```

FT_GEAR	<i>communication table fishing technique- gear based on Italian FDI data</i>
---------	--

Description

communication table fishing technique- gear based on Italian FDI data

Usage

```
FT_GEAR
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 19 rows and 2 columns.

Author(s)

Isabella Bitetto <bitetto@coispa.it>

LAND_MEDBS *Landing by length (LANDINGS) table - MED & BS data call*

Description

Landing by length (LANDINGS) table - MED & BS data call

Usage

```
LAND_MEDBS(dataacs, dataacl, verbose = FALSE)
```

Arguments

dataacs	Detailed data in RCG CS format
dataacl	Landings aggregated data in RCG CL format
verbose	boolean. If TRUE a message is printed.

Value

LANDINGS table

Examples

```
LAND_MEDBS(RDBprocessing::data_ex,RDBprocessing::data_exampleCL)
```

MA_MEDBS *Maturity at age (MA) table - MED & BS data call*

Description

Maturity at age (MA) table - MED & BS data call

Usage

```
MA_MEDBS(data, imm = c("1", "2", "2a"), verbose = FALSE)
```

Arguments

data	Detailed data in RCG CS format
imm	maturity stages to be considered as immature
verbose	boolean. If TRUE a message is printed.

Value

MA table

Examples

```
MA_MEDBS(RDBprocessing::data_ex)
```

ML_MEDBS	<i>Maturity at length (ML) table - MED & BS data call</i>
----------	---

Description

Maturity at length (ML) table - MED & BS data call

Usage

```
ML_MEDBS(data, imm = c("1", "2", "2a"), verbose = FALSE)
```

Arguments

data	Detailed data in RCG CS format
imm	maturity stages to be considered as immature
verbose	boolean. If TRUE a message is printed.

Value

ML table

Examples

```
ML_MEDBS(RDBprocessing::data_ex)
```

msr	<i>Mesh size range codification MED & BS data call</i>
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Description

Mesh size range codification MED & BS data call

Usage

```
msr
```

Format

An object of class `data.frame` with 8 rows and 2 columns.

Author(s)

Isabella Bitetto <bitetto@coispa.it>

RCGtoCOST_CL	<i>Function converting RCG CL in COST CL object</i>
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Description

Function converting RCG CL in COST CL object

Usage

```
RCGtoCOST_CL(data, verbose = FALSE)
```

Arguments

data	Landing data in RCG CL format
verbose	boolean. If TRUE a message is printed.

Value

COST CL object

Examples

```
RCGtoCOST_CL(RDBprocessing::data_exampleCL)
```

RCGtoCOST_CS	<i>Function converting RCG CS in COST CS object</i>
--------------	---

Description

Function converting RCG CS in COST CS object

Usage

```
RCGtoCOST_CS(data, verbose = FALSE)
```

Arguments

data	Detailed data in RCG CS format
verbose	boolean. If TRUE a message is printed.

Value

COST CS object

Examples

```
RCGtoCOST_CS(RDBprocessing::data_ex)
```

SRA_MEDBS	<i>Sex ratio at age (SRA) table - MED & BS data call</i>
-----------	--

Description

Sex ratio at age (SRA) table - MED & BS data call

Usage

```
SRA_MEDBS(data, verbose = FALSE)
```

Arguments

data	Detailed data in RCG CS format
verbose	boolean. If TRUE a message is printed.

Value

SRA table

Examples

```
SRA_MEDBS(RDBprocessing::data_ex)
```

SRL_MEDBS	<i>Sex ratio at length (SRL) table - MED & BS data call</i>
-----------	---

Description

Sex ratio at length (SRL) table - MED & BS data call

Usage

```
SRL_MEDBS(data, verbose = FALSE)
```

Arguments

data	Detailed data in RCG CS format
verbose	boolean. If TRUE a message is printed.

Value

SRL table

Examples

```
SRL_MEDBS(RDBprocessing::data_ex)
```

 TabII2_GFCM

Table II.2 - GFCM DCRF data call

Description

Table II.2 - GFCM DCRF data call

Usage

```
TabII2_GFCM(CatchFDI, verbose = FALSE)
```

Arguments

CatchFDI	Catch table FDI
verbose	boolean. If TRUE a message is printed.

Value

Table II.2 GFCM DCRF table

Examples

```
TabII2_GFCM(RDBprocessing::CATCH_FDIex)
```

TableVII2

TableVII2 - GFCM DCRF datacall

Description

TableVII2 - GFCM DCRF datacall

Usage

```
TableVII2(datacs, datacl, verbose = F)
```

Arguments

datacs	Detailed data in RCG CS format
datacl	Landings aggregated data in RCG CL format
verbose	boolean. If TRUE a message is printed.

Value

TableVII2

Examples

```
library(COSTcore)
TableVII2(RDBprocessing::data_ex,RDBprocessing::data_exampleCL)
```

TableVII31

TableVII.3.1 - GFCM DCRF datacall

Description

TableVII.3.1 - GFCM DCRF datacall

Usage

TableVII31(dataacs, verbose = F)

Arguments

dataacs	CS table in RCG format
verbose	boolean. If TRUE a message is printed.

Value

TableVII31 (Biological information: Size at first maturity)

Examples

TableVII31(RDBprocessing::data_ex)

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