Package ‘icesVocab’

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Title ICES Vocabularies Database Web Services
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Description R interface to access the RECO POX web services of the ICES (International Council for the Exploration of the Sea) Vocabularies database <https://vocab.ices.dk/services/POX.aspx>.
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icesVocab-package  Vocabularies Database Web Services

Description
R interface to access the web services of the ICES Vocabularies database of reference codes.

Details
Get full tables:

- `getCodeTypeList`   all code code types
- `getCodeList`       codes of a given type
- `getCodeDetail`      details for a given code

Look up specific codes:

- `findAphia`  species code

Author(s)
Colin Millar and Arni Magnusson.

References
ICES Vocabularies database: http://vocab.ices.dk.
ICES Vocabularies web services: http://vocab.ices.dk/services/POX.aspx.

findAphia  Find Aphia Code

Description
Look up Aphia code for a given species.

Usage
`findAphia(species, latin = FALSE, regex = FALSE, full = FALSE)`

Arguments

- `species`  the species name, either in English (default) or Latin.
- `latin`    whether the species name is in Latin.
- `regex`    whether to match the species name as a regular expression.
- `full`     whether to return a data frame with all species columns.
**findCode**

**Description**

Look up a key for a given code and code type.

**Usage**

```r
findCode(code_type, code, regex = TRUE, full = FALSE)
```

**Arguments**

- `code_type`: a search string for a code type, e.g. SpecWorms, or simply worms.
- `code`: a search string for a code, e.g. a species name, cod, or ship name, Clupea.
- `regex`: whether to match as a regular expression.
- `full`: whether to return a data frame.

**Details**

Species name matches are case-insensitive.

**Value**

A vector of Aphia codes (default) or a data frame if full is TRUE.

**Author(s)**

Arni Magnusson.

**See Also**

- `getCodeList` can be used to get all Aphia codes; see example on that help page.
- `icesVocab-package` gives an overview of the package.

**Examples**

```r
findAphia("cod")
findAphia("Gadus morhua", latin = TRUE)

# Multiple matches
findAphia(c("cod", "haddock", "saithe"))

# Regular expressions
findAphia("ray", regex = TRUE, full = TRUE)
findAphia("Sebastes", latin = TRUE, regex = TRUE, full = TRUE)
```
findCodeType

Details
Matches are case-insensitive.

Value
A vector of keys (default) or a data frame if full is TRUE.

See Also
getCodeList can be used to get all code types; see example on that help page.
icesVocab-package gives an overview of the package.

Examples

findCode("aphia", "cod")

# Multiple matches
findCode("aphia", c("cod", "haddock", "saithe"), full = TRUE)

findFirstType("ship", full = TRUE)
findFirst("ship", "clupea", full = TRUE)
getCodeDetail

See Also

getCodeTypeList gets a list of code types.
icesVocab-package gives an overview of the package.

Examples

findCodeType("worms")
findCodeType("DATRAS", full = TRUE)
findCodeType("DATRAS", full = TRUE, date = "2010-01-01")

getCodeDetail

Get Details

Description

Get details for a given code.

Usage

getCodeDetail(code_type, code)

Arguments

code_type the code type, e.g. SpecWoRMS.

code the code, e.g. 101170.

Value

A data frame.

See Also

getCodeTypeList and getCodeList get code types and codes of a given type.
icesVocab-package gives an overview of the package.

Examples

# Species code 101170 - Myxine glutinosa
getCodeDetail("SpecWoRMS", 101170)

# find details of Haddock using the aphia ID
findCode("species", "haddock", full = TRUE)
getCodeDetail("SpecWoRMS", 126437)

# get info for had-43
getCodeDetail("ICES_StockCode", "had-34")

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**getDescription**

**Get Codes**

**Description**

Get codes of a given code type.

**Usage**

getCodeList(code_type, date = NULL)

**Arguments**

- **code_type**: the code type, e.g. SpecWoRMS.
- **date**: restrict output to codes modified after a given date in yyyy-mm-dd format, e.g. "2010-12-01".

**Value**

A data frame.

**See Also**

getCodeTypeList and getCodeDetail get code types and code details.

findCodeType and findAphia provide support for searching the code type and code lists.

icesVocab-package gives an overview of the package.

**Examples**

# Aphia Species codes
findCodeType("aphia", full = TRUE)
codes <- getCodeList("SpecWoRMS")
head(codes)

findAphia("cod", full = TRUE)
Description
Get all code types. Mainly useful as a reminder of what code types are available.

Usage
getCodeTypeList(date = NULL)

Arguments
date restrict output to code types modified after a given date in yyyy-mm-dd format, e.g. "2010-12-01"

Value
A data frame.

See Also
getCodeList and getCodeDetail get codes of a given type and code details.
findCodeType searches for a code types based on a search string.
icesVocab-package gives an overview of the package.

Examples

# Find code type for World Register of Marine Species (WoRMS)
types <- getCodeTypeList()
types[grepl("worms", tolower(types$Description)),]

findCodeType("worms", full = TRUE)

# The code type "SpecWoRMS" can be used when calling getCodeList()
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