

Package ‘icesVocab’

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Title ICES Vocabularies Database Web Services

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Imports utils, xml2

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>>.

License GPL-3

URL <https://vocab.ices.dk/services/POX.aspx>

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Encoding UTF-8

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Suggests testthat

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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:

<code>getCodeTypeList</code>	all code code types
<code>getCodeList</code>	codes of a given type
<code>getCodeDetail</code>	details for a given code

Look up specific codes:

<code>findAphia</code>	species code
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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.

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

```
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)
```

findCode

Find a Key

Description

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

Usage

```
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

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

```
## Not run:
findCode("aphia", "cod")

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

findCodeType("ship", full = TRUE)
findCode("ship", "clupea", full = TRUE)

## End(Not run)
```

findCodeType

Find a Key

Description

Find a lookup key corresponding to a code type.

Usage

```
findCodeType(code, date = NULL, regex = TRUE, full = FALSE)
```

Arguments

code	a code name, e.g. Gear Type, or DATRAS to find all DATRAS related codes.
date	restrict output to code types modified after a given date in yyyy-mm-dd format, e.g. "2010-12-01"
regex	whether to match the stock name as a regular expression.
full	whether to return a data frame with all stock list columns.

Value

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

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")
```

`getCodeList`*Get Codes*

Description

Get codes of a given code type.

Usage

```
getCodeList(code_type, date = NULL)
```

Arguments

<code>code_type</code>	the code type, e.g. SpecWoRMS.
<code>date</code>	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)
```

getCodeTypeList	<i>Get Types</i>
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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"
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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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