

# Package ‘icesVocab’

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**Title** ICES Vocabularies Database Web Services

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**Version** 1.1-4

**Imports** utils, XML

**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 (>= 2)

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

**RoxygenNote** 6.1.1

**Encoding** UTF-8

**BugReports** <https://github.com/ices-tools-prod/icesVocab/issues>

**NeedsCompilation** no

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icesVocab-package      *Vocabularies Database Web Services*

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### 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>.

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findAphia      *Find Aphia Code*

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### 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")
## Not run:
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)

## End(Not run)
```

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findCode

*Find a Key*


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**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**

```
## Not run:  
findCodeType("worms")  
  
findCodeType("DATRAS", full = TRUE)  
  
findCodeType("DATRAS", full = TRUE, date = "2010-01-01")  
  
## End(Not run)
```

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getCodeDetail	<i>Get Details</i>
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**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

```
## Not run:
# 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")

## End(Not run)
```

---

getCodeList

*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

```
## Not run:
# Aphia Species codes
findCodeType("aphia", full = TRUE)
codes <- getCodeList("SpecWoRMS")
head(codes)

findAphia("cod", full = TRUE)

## End(Not run)
```

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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

```
## Not run:
# Find code type for World Register of Marine Species (WoRMS)
types <- getCodeTypeList()
types[grep("worms", tolower(types$Description)),]

findCodeType("worms", full = TRUE)

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

## End(Not run)
```

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