

Package ‘worrms’

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Type Package

Title World Register of Marine Species (WoRMS) Client

Description Client for World Register of Marine Species (<<http://www.marinespecies.org/>>). Includes functions for each of the API methods, including searching for names by name, date and common names, searching using external identifiers, fetching synonyms, as well as fetching taxonomic children and taxonomic classification.

Version 0.1.0

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URL <https://github.com/ropensci/worrms>

BugReports <https://github.com/ropensci/worrms/issues>

LazyData true

VignetteBuilder knitr

Imports crul (>= 0.2.0), tibble (>= 1.2), jsonlite (>= 1.1)

Suggests roxygen2 (>= 5.0.1), knitr, rmarkdown, testthat, covr

RoxygenNote 5.0.1

NeedsCompilation no

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worrms-package	<i>World Register of Marine Species Client</i>
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Description

World Register of Marine Species Client

Fail behavior

The WoRMS REST API doesn't have sophisticated error messaging, so most errors will result in a (204) - No Content or in (400) - Bad Request

Because WoRMS doesn't do comprehensive error reporting, we do a fair amount of checking user inputs to help prevent errors that will be meaningless to the user. Let us know if we can improve on this.

Author(s)

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wm_children	<i>Get children for an AphiaID</i>
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Description

Get children for an AphiaID

Usage

```
wm_children(id, marine_only = TRUE, offset = 1, ...)
```

Arguments

id (numeric/integer) an AphiaID. required.
marine_only (logical) marine only or not. default: TRUE
offset (integer) record to start at. default: 1
... named curl options. see [curl_options](#)

Examples

```
wm_children(id = 105706)
wm_children(id = 105706, FALSE)
wm_children(id = 105706, offset = 5)
```

wm_classification *Get classification for an AphiaID*

Description

Get classification for an AphiaID

Usage

```
wm_classification(id, ...)
```

Arguments

id (numeric/integer) an AphiaID. required.
... named curl options. see [curl_options](#)

Examples

```
wm_classification(id = 105706)
wm_classification(id = 126436)
```

wm_common_id *Get vernacular names from an AphiaID*

Description

Get vernacular names from an AphiaID

Usage

```
wm_common_id(id, ...)
```

Arguments

id (numeric/integer) an AphiaID. required.
 ... named curl options. see [curl_options](#)

Examples

```
wm_common_id(id = 105706)
wm_common_id(id = 156806)
wm_common_id(id = 397065)
```

wm_distribution *Get distribution data by AphiaID*

Description

Get distribution data by AphiaID

Usage

```
wm_distribution(id, ...)
```

Arguments

id an AphiaID. required.
 ... named curl options. see [curl_options](#)

Examples

```
wm_distribution(id = 156806)
```

wm_external *Get an external ID via an AphiaID*

Description

Get an external ID via an AphiaID

Usage

```
wm_external(id, type = "tsn", ...)
```

Arguments

id (numeric/integer) an AphiaID. required.
type (character) the type of external id. one of: tsn, bold, dyntaxa, eol, fishbase, iucn, lsid, ncbi, gisd. default: tsn
... named curl options. see [curl_options](#)

Examples

```
# by default, get a TSN (an ITIS code)
wm_external(id = 1080)

# BOLD code
wm_external(id = 278468, type = "bold")

# NCBI code
wm_external(id = 278468, type = "ncbi")

# fishbase code
wm_external(id = 278468, type = "fishbase")

library(crul)
wm_external(id = 105706, verbose = TRUE)
```

wm_id2name

Get taxonomic name for an AphiaID

Description

Get taxonomic name for an AphiaID

Usage

```
wm_id2name(id, ...)
```

Arguments

id (numeric/integer) an AphiaID. required.
... named curl options. see [curl_options](#)

Examples

```
wm_id2name(id = 105706)
```

`wm_name2id`*Get AphiaID from a taxonomic name*

Description

Get AphiaID from a taxonomic name

Usage

```
wm_name2id(name, ...)
```

Arguments

`name` (character) a taxon name
`...` named curl options. see [curl_options](#)

Examples

```
wm_name2id(name = "Rhincodon")
```

`wm_record`*Get complete AphiaRecord for an AphiaID*

Description

Get complete AphiaRecord for an AphiaID

Usage

```
wm_record(id, ...)
```

Arguments

`id` (numeric/integer) an AphiaID. required.
`...` named curl options. see [curl_options](#)

Examples

```
wm_record(id = 105706)
```

wm_records_common *Get records by vernacular name, optional fuzzy matching*

Description

Get records by vernacular name, optional fuzzy matching

Usage

```
wm_records_common(name, fuzzy = FALSE, offset = 1, ...)
```

Arguments

name	(character) a species common name. required.
fuzzy	(logical) fuzzy search. default: FALSE
offset	(integer) record to start at. default: 1
...	named curl options. see curl_options

Examples

```
wm_records_common(name = 'dolphin')
wm_records_common(name = 'clam')

## Not run:
wm_records_common(name = 'dolphin', fuzzy = TRUE)
wm_records_common(name = 'clam', fuzzy = TRUE, offset = 5)

## End(Not run)
```

wm_records_date *Get records by date*

Description

Get records by date

Usage

```
wm_records_date(start_date, end_date = NULL, marine_only = TRUE,
  offset = 1, ...)
```

Arguments

start_date (character) start date. required.
 end_date (character) end date. optional
 marine_only (logical) marine only or not. default: TRUE
 offset (integer) record to start at. default: 1
 ... named curl options. see [curl_options](#)

Examples

```
a_date <- format(Sys.Date() - 1, "%Y-%m-%dT%H:%M:%S+00:00")
wm_records_date(a_date)
```

wm_records_name	<i>Get records by single name, optional fuzzy matching</i>
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Description

Get records by single name, optional fuzzy matching

Usage

```
wm_records_name(name, fuzzy = TRUE, marine_only = TRUE, offset = 1, ...)
```

Arguments

name (character) start date. required.
 fuzzy (logical) fuzzy search. default: TRUE
 marine_only (logical) marine only or not. default: TRUE
 offset (integer) record to start at. default: 1
 ... named curl options. see [curl_options](#)

Examples

```
wm_records_name(name = 'Platanista gangetica')
wm_records_name(name = 'Platanista gangetica', fuzzy = FALSE)
wm_records_name(name = 'Platanista gangetica', marine_only = FALSE)
wm_records_name(name = 'Platanista', marine_only = FALSE)
wm_records_name(name = 'Platanista', marine_only = FALSE, offset = 5)
```

wm_records_names *Get records for onen or more taxonomic name(s)*

Description

Get records for onen or more taxonomic name(s)

Usage

```
wm_records_names(name, fuzzy = FALSE, marine_only = TRUE, ...)
```

Arguments

name (character) start date. required.
 fuzzy (logical) fuzzy search. default: FALSE
 marine_only (logical) marine only or not. default: TRUE
 ... named curl options. see [curl_options](#)

Examples

```
wm_records_names(name = 'Platanista gangetica')
wm_records_names(name = 'Platanista gangetica', fuzzy = TRUE)
wm_records_names(name = c('Platanista gangetica', 'Coryphaena'))
```

wm_records_taxamatch *Get records for onen or more taxonomic name(s) using the TAXAMATCH fuzzy matching algorithm*

Description

Get records for onen or more taxonomic name(s) using the TAXAMATCH fuzzy matching algorithm

Usage

```
wm_records_taxamatch(name, marine_only = TRUE, ...)
```

Arguments

name (character) taxon name. required.
 marine_only (logical) marine only or not. default: TRUE
 ... named curl options. see [curl_options](#)

Examples

```
## Not run:
wm_records_taxamatch(name = 'Platanista gangetica')
wm_records_taxamatch(name = c('Platanista gangetica', 'Coryphaena'))

## End(Not run)
```

wm_record_by_external *Get record by external ID*

Description

Get record by external ID

Usage

```
wm_record_by_external(id, type = "tsn", ...)
```

Arguments

id (numeric/integer) an AphiaID. required.

type (character) the type of external id. one of: tsn, bold, dyntaxa, eol, fishbase, iucn, lsid, ncbi, gisd. default: tsn

... named curl options. see [curl_options](#)

Examples

```
wm_record_by_external(id = 85257)
wm_record_by_external(id = 159854)
```

wm_sources *Get sources for an AphiaID*

Description

Get sources for an AphiaID

Usage

```
wm_sources(id, ...)
```

Arguments

id (numeric/integer) an AphiaID. required.

... named curl options. see [curl_options](#)

Examples

```
wm_sources(id = 105706)
```

wm_synonyms

Get synonyms for an AphiaID

Description

Get synonyms for an AphiaID

Usage

```
wm_synonyms(id, ...)
```

Arguments

id (numeric/integer) an AphiaID. required.
... named curl options. see [curl_options](#)

Examples

```
wm_synonyms(id = 105706)
```

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