Package 'worrms'

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Type Package

Title World Register of Marine Species (WoRMS) Client

Description Client for World Register of Marine Species (<https://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 0.4.3

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URL https://docs.ropensci.org/worrms/,

https://github.com/ropensci/worrms(devel), https://taxize.dev
(user manual)

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

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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.

wm_attr_aphia

Author(s)

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wm_attr_aphia

Get AphiaIDs by attribute definition ID

Description

Get AphiaIDs by attribute definition ID

Usage

```
wm_attr_aphia(id, offset = 1, ...)
```

wm_attr_aphia_(id = NULL, name = NULL, ...)

Arguments

id	<pre>(numeric/integer) a attribute ID. For wm_attr_aphia it's required and must be length(id) == 1, for wm_attr_aphia_it's optional and can be length(id) >= 1</pre>
offset	(integer) record to start at. default: 1
	named curl options. see curl::curl_options
name	(character) one or more taxonomic names. optional

Value

A tibble/data.frame. when using underscore method, outputs from each input are binded together, but can be split by id column

Singular vs. plural

Of the two sister functions, the one without the underscore is the original function that wraps the relavant WoRMS API method - and only accepts one thing (i.e., name or AphiaID) per request.

```
## Not run:
wm_attr_aphia(id = 7)
wm_attr_aphia(id = 4)
wm_attr_aphia(id = 4, offset = 50)
wm_attr_aphia_(id = c(7, 2))
## End(Not run)
```

wm_attr_category Get attributes grouped by a CategoryID

Description

Get attributes grouped by a CategoryID

Usage

```
wm_attr_category(id, ...)
```

wm_attr_category_(id = NULL, name = NULL, ...)

Arguments

id	<pre>(numeric/integer) a CategoryID. For wm_attr_category it's required and must be length(id) == 1, for wm_attr_category_it's optional and can be length(id) >= 1</pre>
	named curl options. see curl::curl_options
name	(character) one or more taxonomic names. optional

Value

A tibble/data.frame. when using underscore method, outputs from each input are binded together, but can be split by id column

Singular vs. plural

Of the two sister functions, the one without the underscore is the original function that wraps the relavant WoRMS API method - and only accepts one thing (i.e., name or AphiaID) per request.

The sister function with the underscore at the end is the plural version, accepting more than one input. Internally this function loops over the non-underscore method, and labels output (whether it's a list or data.frame rows) with the input names or IDs so that you can easily parse output by your inputs.

wm_attr_data

Examples

```
## Not run:
wm_attr_category(id = 7)
wm_attr_category(id = 2)
wm_attr_category_(id = c(7, 2))
## End(Not run)
```

wm_attr_data Get attribute data by AphiaID

Description

Get attribute data by AphiaID

Usage

```
wm_attr_data(id, include_inherited = FALSE, ...)
```

```
wm_attr_data_(id = NULL, name = NULL, ...)
```

Arguments

	id	(numeric/integer) an AphiaID. For wm_attr_data it's required and must be
		<pre>length(id) == 1, for wm_attr_data_ it's optional and can be length(id) >=</pre>
		1
include_inherited		
		(logical) Include attributes inherited from its parent taxon. Default: FALSE
		named curl options. see curl::curl_options
	name	(character) one or more taxonomic names. optional

Value

A tibble/data.frame. when using underscore method, outputs from each input are binded together, but can be split by id column

Singular vs. plural

Of the two sister functions, the one without the underscore is the original function that wraps the relavant WoRMS API method - and only accepts one thing (i.e., name or AphiaID) per request.

```
## Not run:
wm_attr_data(id = 127160)
wm_attr_data(id = 126436)
wm_attr_data_(id = c(127160, 126436))
## End(Not run)
```

wm_attr_def Get attribute definition by ID

Description

Get attribute definition by ID

Usage

```
wm_attr_def(id, include_inherited = FALSE, ...)
```

wm_attr_def_(id = NULL, name = NULL, ...)

Arguments

id	(numeric/integer) an attribute ID. For wm_attr_def it's required and must be length(id) == 1, for wm_attr_def_ it's optional and can be length(id) >= 1
	rengen(id) i, for win_attr_der_ it's optional and can be rengen(id) >- i
include_inherited	
	(logical) Include attributes inherited from its parent taxon. Default: FALSE
	named curl options. see curl::curl_options
name	(character) one or more taxonomic names. optional

Value

A tibble/data.frame. when using underscore method, outputs from each input are binded together, but can be split by id column

Singular vs. plural

Of the two sister functions, the one without the underscore is the original function that wraps the relavant WoRMS API method - and only accepts one thing (i.e., name or AphiaID) per request.

The sister function with the underscore at the end is the plural version, accepting more than one input. Internally this function loops over the non-underscore method, and labels output (whether it's a list or data.frame rows) with the input names or IDs so that you can easily parse output by your inputs.

wm_children

Examples

```
## Not run:
wm_attr_def(id = 1)
wm_attr_def(id = 4)
wm_attr_def(id = 4, include_inherited = TRUE)
wm_attr_def_(id = c(4, 1))
## End(Not run)
```

wm_children Get children for an AphiaID

Description

Get children for an AphiaID

Usage

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

wm_children_(id = NULL, name = NULL, marine_only = TRUE, offset = 1, ...)

Arguments

id	<pre>(numeric/integer) an AphiaID. For wm_children it's required and must be length(id) == 1, for wm_children_it's optional and can be length(id) >= 1</pre>
marine_only	(logical) marine only or not. default: TRUE
offset	(integer) record to start at. default: 1
	named curl options. see curl::curl_options
name	(character) one or more taxonomic names. optional

Value

A tibble/data.frame. when using underscore method, outputs from each input are binded together, but can be split by id column

Singular vs. plural

Of the two sister functions, the one without the underscore is the original function that wraps the relavant WoRMS API method - and only accepts one thing (i.e., name or AphiaID) per request.

```
## Not run:
wm_children(343613)
wm_children(id = 105706)
wm_children(id = 105706, FALSE)
wm_children(id = 105706, offset = 5)
# plural version, via id or name
wm_children_(id = c(105706, 343613))
wm_children_(name = c('Mesodesma', 'Leucophaeus'))
## End(Not run)
```

wm_classification Get classification for an AphiaID

Description

Get classification for an AphiaID

Usage

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

```
wm_classification_(id = NULL, name = NULL, ...)
```

Arguments

id	<pre>(numeric/integer) an AphiaID. For wm_children it's required and must be length(id) == 1, for wm_children_it's optional and can be length(id) >= 1</pre>
	named curl options. see curl::curl_options
name	(character) one or more taxonomic names. optional

Value

A tibble/data.frame. when using underscore method, outputs from each input are binded together, but can be split by id column

Singular vs. plural

Of the two sister functions, the one without the underscore is the original function that wraps the relavant WoRMS API method - and only accepts one thing (i.e., name or AphiaID) per request.

The sister function with the underscore at the end is the plural version, accepting more than one input. Internally this function loops over the non-underscore method, and labels output (whether it's a list or data.frame rows) with the input names or IDs so that you can easily parse output by your inputs.

wm_common_id

Examples

```
## Not run:
wm_classification(id = 105706)
wm_classification(id = 126436)
wm_classification(254967)
wm_classification(344089)
# plural version, via id or name
wm_classification_(id = c(254967, 344089))
wm_classification_(name = c('Platanista gangetica', 'Leucophaeus scoresbii'))
## End(Not run)
```

wm_common_id Get vernacular names from an AphiaID

Description

Get vernacular names from an AphiaID

Usage

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

wm_common_id_(id = NULL, name = NULL, ...)

Arguments

id	(numeric/integer) an AphiaID. For wm_common_id it's required and must be
	<pre>length(id) == 1, for wm_common_id_ it's optional and can be length(id) >=</pre>
	1
	named curl options. see curl::curl_options
name	(character) one or more taxonomic names. optional

Value

A tibble/data.frame. when using underscore method, outputs from each input are binded together, but can be split by id column

Singular vs. plural

Of the two sister functions, the one without the underscore is the original function that wraps the relavant WoRMS API method - and only accepts one thing (i.e., name or AphiaID) per request.

```
## Not run:
wm_common_id(id = 105706)
wm_common_id(id = 156806)
wm_common_id(id = 397065)
wm_common_id_(id = c(105706, 156806, 397065))
nms <- c("Rhincodontidae", "Mesodesma deauratum", "Cryptomya californica")
wm_common_id_(name = nms)
## End(Not run)
```

wm_distribution Get distribution data by AphiaID

Description

Get distribution data by AphiaID

Usage

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

wm_distribution_(id = NULL, name = NULL, ...)

Arguments

id	<pre>(numeric/integer) an AphiaID. For wm_distribution it's required and must be length(id) == 1, for wm_distribution_ it's optional and can be length(id) >= 1</pre>
	named curl options. see curl::curl_options
name	(character) one or more taxonomic names. optional

Value

A tibble/data.frame. when using underscore method, outputs from each input are binded together, but can be split by id column

Singular vs. plural

Of the two sister functions, the one without the underscore is the original function that wraps the relavant WoRMS API method - and only accepts one thing (i.e., name or AphiaID) per request.

The sister function with the underscore at the end is the plural version, accepting more than one input. Internally this function loops over the non-underscore method, and labels output (whether it's a list or data.frame rows) with the input names or IDs so that you can easily parse output by your inputs.

wm_external

Examples

```
## Not run:
wm_distribution(id = 156806)
wm_distribution(id = 126436)
wm_distribution_(id = c(156806, 126436))
## End(Not run)
```

wm_external

Get an external ID via an AphiaID

Description

Get an external ID via an AphiaID

Usage

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

wm_external_(id = NULL, name = NULL, type = "tsn", ...)

Arguments

id	<pre>(numeric/integer) an AphiaID. For wm_external it's required and must be length(id) == 1, for wm_external_ it's optional and can be length(id) >= 1</pre>
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::curl_options
name	(character) one or more taxonomic names. optional

Value

An integer that is the ID. When using underscore method, a list, named by the input IDs

Singular vs. plural

Of the two sister functions, the one without the underscore is the original function that wraps the relavant WoRMS API method - and only accepts one thing (i.e., name or AphiaID) per request.

```
## Not run:
# by default, get a TSN (an ITIS code)
wm_external(id = 1080)
## get many
wm_external_(id = c(1080, 126436))
# BOLD code
wm_external(id = 278468, type = "bold")
# NCBI code
wm_external(id = 278468, type = "ncbi")
# fishbase code
wm_external(id = 278468, type = "fishbase")
# curl options
library(crul)
wm_external(id = 105706, verbose = TRUE)
## End(Not run)
```

wm_id2name Get taxonomic name for an AphiaID

Description

Get taxonomic name for an AphiaID

Usage

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

wm_id2name_(id, ...)

Arguments

id	(numeric/integer) an AphiaID, required. For wm_id2name must be length(id)
	== 1, but for wm_id2name_ can be length(id) >= 1
	named curl options. see curl::curl_options

Value

An character string that is the taxnomic name. When using underscore method, a list, named by the input IDs

wm_name2id

Singular vs. plural

Of the two sister functions, the one without the underscore is the original function that wraps the relavant WoRMS API method - and only accepts one thing (i.e., name or AphiaID) per request.

The sister function with the underscore at the end is the plural version, accepting more than one input. Internally this function loops over the non-underscore method, and labels output (whether it's a list or data.frame rows) with the input names or IDs so that you can easily parse output by your inputs.

Examples

```
## Not run:
wm_id2name(id = 105706)
wm_id2name_(id = c(105706, 126436))
## End(Not run)
```

wm_name2id

Get AphiaID from a taxonomic name

Description

Get AphiaID from a taxonomic name

Usage

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

wm_name2id_(name, ...)

Arguments

name	(character) a taxonomic name, required. For wm_name2id must be length(name)
	== 1, but for wm_name2id_ can be length(name) >= 1
	named curl options. see curl::curl_options

Value

An integer that is the AphiaID. When using underscore method, a list, named by the input names

Singular vs. plural

Of the two sister functions, the one without the underscore is the original function that wraps the relavant WoRMS API method - and only accepts one thing (i.e., name or AphiaID) per request.

```
## Not run:
wm_name2id(name = "Rhincodon")
wm_name2id_(name = c("Rhincodon", "Gadus morhua"))
## End(Not run)
```

wm_ranks

Get taxonomic ranks by their identifier

Description

Get taxonomic ranks by their identifier

Usage

wm_ranks_id(rank_id, id = NULL, offset = 1, ...)

wm_ranks_name(rank_name, id = NULL, offset = 1, ...)

Arguments

rank_id	(numeric/integer) a rank identifier. length==1
id	an AphiaID. length==1
offset	(integer) record to start at. default: 1
	named curl options. see curl::curl_options
rank_name	(character) a rank name. length==1

Value

A tibble/data.frame

Examples

```
## Not run:
wm_ranks_id(220)
wm_ranks_id(180)
wm_ranks_id(180, id = 4)
wm_ranks_name("genus")
wm_ranks_name("genus", id = 4)
```

End(Not run)

wm_record

Description

Get complete AphiaRecord for an AphiaID

Usage

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

wm_record_(id = NULL, name = NULL, ...)

Arguments

id	(numeric/integer) an AphiaID. For wm_record it's required and must be length(id)
	== 1, for wm_record_it's optional and can be length(id) >= 1
	named curl options. see curl::curl_options
name	(character) one or more taxonomic names. optional

Value

A named list. When using underscore method, each output is named by the input ID, and can be separated by the list names

Singular vs. plural

Of the two sister functions, the one without the underscore is the original function that wraps the relavant WoRMS API method - and only accepts one thing (i.e., name or AphiaID) per request.

The sister function with the underscore at the end is the plural version, accepting more than one input. Internally this function loops over the non-underscore method, and labels output (whether it's a list or data.frame rows) with the input names or IDs so that you can easily parse output by your inputs.

Note

wm_record_ is defunct, wm_record can do plural requests now

Examples

```
## Not run:
wm_record(id = 105706)
wm_record(id = c(105706, 126436))
wm_record_(id = c(105706, 126436))
```

End(Not run)

wm_records_common

Description

Get records by vernacular name, optional fuzzy matching

Usage

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

Arguments

name	<pre>(character) a species common name. required. For wm_records_common must be length(name) == 1; for wm_records_common_ can be length(name) >= 1</pre>
fuzzy	(logical) fuzzy search. default: FALSE
offset	(integer) record to start at. default: 1
	named curl options. see curl::curl_options

Value

A tibble/data.frame. when using underscore method, outputs from each input are binded together, but can be split by id column

Singular vs. plural

Of the two sister functions, the one without the underscore is the original function that wraps the relavant WoRMS API method - and only accepts one thing (i.e., name or AphiaID) per request.

The sister function with the underscore at the end is the plural version, accepting more than one input. Internally this function loops over the non-underscore method, and labels output (whether it's a list or data.frame rows) with the input names or IDs so that you can easily parse output by your inputs.

Examples

```
## Not run:
wm_records_common(name = 'dolphin')
wm_records_common(name = 'clam')
wm_records_common_(name = c('dolphin', 'clam'))
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::curl_options

Value

A tibble/data.frame

Examples

```
## Not run:
a_date <- format(Sys.Date() - 1, "%Y-%m-%dT%H:%M:%S+00:00")
wm_records_date(a_date)
```

End(Not run)

wm_records_name

Description

Get records by single name, optional fuzzy matching

Usage

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

Arguments

name	(character) a taxonomic name, 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::curl_options

Value

A tibble/data.frame

Note

there is no underscore method like other functions in this package as there is already a plural version: wm_records_names()

Examples

```
## Not run:
wm_records_name(name = 'Leucophaeus')
wm_records_name(name = 'Leucophaeus', fuzzy = FALSE)
wm_records_name(name = 'Leucophaeus', marine_only = FALSE)
wm_records_name(name = 'Platanista', marine_only = FALSE, offset = 5)
```

End(Not run)

wm_records_names Get records for one or more taxonomic name(s)

Description

Get records for one or more taxonomic name(s)

Usage

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

Arguments

name	(character) start date. required.
marine_only	(logical) marine only or not. default: TRUE
	named curl options. see curl::curl_options

Value

A list of tibble's/data.frame's, one for each of the input names

Note

there is no underscore method like other functions in this package as this is the plural version for wm_records_name()

Examples

```
## Not run:
wm_records_names(name = 'Leucophaeus scoresbii')
wm_records_names(name = c('Leucophaeus scoresbii', 'Coryphaena'))
## End(Not run)
```

wm_records_rank Get AphiaRecords for a given taxonRankID

Description

Get AphiaRecords for a given taxonRankID

Usage

```
wm_records_rank(rank_id, id = NULL, offset = 1, ...)
```

Arguments

rank_id	(numeric/integer) a rank id
id	(character) a single AphiaID
offset	(integer) record to start at. default: 1
	named curl options. see curl::curl_options

Value

A tibble/data.frame. when using underscore method, outputs from each input are binded together, but can be split by id column

Singular vs. plural

Of the two sister functions, the one without the underscore is the original function that wraps the relavant WoRMS API method - and only accepts one thing (i.e., name or AphiaID) per request.

The sister function with the underscore at the end is the plural version, accepting more than one input. Internally this function loops over the non-underscore method, and labels output (whether it's a list or data.frame rows) with the input names or IDs so that you can easily parse output by your inputs.

Examples

Not run: wm_records_rank(rank_id = 180, id = 106776) wm_records_rank(rank_id = 180, id = 106776, offset = 50)

End(Not run)

wm_records_taxamatch Get records for one or more taxonomic name(s) using the TAXAM-ATCH fuzzy matching algorithm

Description

Get records for one 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::curl_options

Value

A list of tibble's/data.frame's, one for each of the input names

Note

there is no underscore method like other functions in this package as this function already accepts many names

Examples

```
## Not run:
wm_records_taxamatch(name = 'Leucophaeus')
wm_records_taxamatch(name = c('Leucophaeus', '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", ...)
wm_record_by_external_(id = NULL, name = NULL, type = "tsn", ...)
```

Arguments

id	<pre>(numeric/integer) an AphiaID. For wm_record_by_external it's required and must be length(id) == 1, for wm_record_by_external_ it's optional and can be length(id) >= 1</pre>
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::curl_options
name	(character) one or more taxonomic names. optional

Value

A named list. When using underscore method, each output is named by the input ID, and can be separated by the list names

Singular vs. plural

Of the two sister functions, the one without the underscore is the original function that wraps the relavant WoRMS API method - and only accepts one thing (i.e., name or AphiaID) per request.

The sister function with the underscore at the end is the plural version, accepting more than one input. Internally this function loops over the non-underscore method, and labels output (whether it's a list or data.frame rows) with the input names or IDs so that you can easily parse output by your inputs.

Examples

```
## Not run:
wm_record_by_external(id = 85257)
wm_record_by_external(id = 159854)
wm_record_by_external_(id = c(85257, 159854))
## End(Not run)
```

wm_sources

Get sources for an AphiaID

Description

Get sources for an AphiaID

Usage

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

wm_sources_(id = NULL, name = NULL, ...)

Arguments

id	<pre>(numeric/integer) an AphiaID. For wm_sources it's required and must be length(id) == 1, for wm_sources_ it's optional and can be length(id) >= 1</pre>
	named curl options. see curl::curl_options
name	(character) one or more taxonomic names. optional

Value

A tibble/data.frame. when using underscore method, outputs from each input are binded together, but can be split by id column

wm_synonyms

Singular vs. plural

Of the two sister functions, the one without the underscore is the original function that wraps the relavant WoRMS API method - and only accepts one thing (i.e., name or AphiaID) per request.

The sister function with the underscore at the end is the plural version, accepting more than one input. Internally this function loops over the non-underscore method, and labels output (whether it's a list or data.frame rows) with the input names or IDs so that you can easily parse output by your inputs.

Examples

```
## Not run:
wm_sources(id = 105706)
wm_sources_(id = 105706)
wm_sources_(id = c(105706, 126436))
wm_sources_(name = c("Rhincodontidae", "Gadus morhua"))
## End(Not run)
```

wm_synonyms

Get synonyms for an AphiaID

Description

Get synonyms for an AphiaID

Usage

```
wm_synonyms(id, offset = 1, ...)
```

wm_synonyms_(id = NULL, name = NULL, ...)

Arguments

id	<pre>(numeric/integer) an AphiaID. For wm_synonyms it's required and must be length(id) == 1, for wm_synonyms_it's optional and can be length(id) >= 1</pre>
offset	(integer) record to start at. default: 1
	named curl options. see curl::curl_options
name	(character) one or more taxonomic names. optional

Value

A tibble/data.frame. when using underscore method, outputs from each input are binded together, but can be split by id column

Singular vs. plural

Of the two sister functions, the one without the underscore is the original function that wraps the relavant WoRMS API method - and only accepts one thing (i.e., name or AphiaID) per request.

The sister function with the underscore at the end is the plural version, accepting more than one input. Internally this function loops over the non-underscore method, and labels output (whether it's a list or data.frame rows) with the input names or IDs so that you can easily parse output by your inputs.

Examples

```
## Not run:
wm_synonyms(id = 105706)
wm_synonyms_(id = 105706)
wm_synonyms(id = 126436)
wm_synonyms(id = 126436, offset = 10)
wm_synonyms_(id = c(105706, 126436))
```

End(Not run)

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