Package ‘rfishbase’

November 10, 2021

Title R Interface to ‘FishBase’

Description A programmatic interface to ‘FishBase’, re-written
   based on an accompanying 'RESTful' API. Access tables describing over 30,000
   species of fish, their biology, ecology, morphology, and more. This package also
   supports experimental access to ‘SeaLifeBase’ data, which contains
   nearly 200,000 species records for all types of aquatic life not covered by
   ‘FishBase’.

Version 3.1.10

Encoding UTF-8

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URL https://docs.ropensci.org/rfishbase/,
   https://github.com/ropensci/rfishbase

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

LazyData true

Depends R (>= 4.0)

Imports dplyr, purrr, methods, utils, memoise, readr (>= 2.0.0),
   rlang, magrittr, stringr, gh, DBI, arkdb (>= 0.0.12), tools,
   curl, dbplyr, progress, RSQLite, openssl

Suggests testthat, rmarkdown, knitr, covr, spelling

VignetteBuilder knitr

RoxygenNote 7.1.2

Language en-US

NeedsCompilation no

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Repository CRAN

Date/Publication 2021-11-10 08:00:02 UTC
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**rfishbase-package**

A programmatic interface to FishBase, re-written based on an accompanying 'RESTful' API. Access tables describing over 30,000 species of fish, their biology, ecology, morphology, and more. This package also supports experimental access to SeaLifeBase data, which contains nearly 200,000 species records for all types of aquatic life not covered by FishBase.

**Author(s)**

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**available_releases**

*List available releases*

**Description**

List available releases

**Usage**

`available_releases()`

**Details**

Lists all available releases (year.month format). To use a specific release, set the desired release using `options(FISHBASE_VERSION=)`, as shown in the examples. Otherwise, rfishbase will use the latest available version if this option is unset. NOTE: it will be necessary to clear the cache with `clear_cache()` or by restarting the R session with a fresh environment.
brains

## unset
options(FISHBASE_VERSION=NULL)

brains

### Description

brains

### Usage

```r
brains(
  species_list = NULL,
  fields = NULL,
  server = getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db(),
  ...
)
```

### Arguments

- `species_list` A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.
- `fields` a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later
- `server` can be set to either "fishbase" or "sealifebase" to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’.
- `version` a version string for the database, will default to the latest release. see [get_releases()] for details.
- `db` the
- `...` unused; for backwards compatibility only

### Value

a table of species brains
common_names

Examples

```r
## Not run:
brains("Oreochromis niloticus")

## End(Not run)
```

---

common_names common names

Description

Return a table of common names

Usage

```r
common_names(
  species_list = NULL,
  server =getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db(),
  Language = "English",
  fields = NULL
)
```

Arguments

- `species_list`: A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.
- `server`: can be set to either "fishbase" or "sealifebase" to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’.
- `version`: a version string for the database, will default to the latest release. see `get_releases()` for details.
- `db`: the
- `Language`: a string specifying the language for the common name, e.g. "English"
- `fields`: a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later

Details

Note that there are many common names for a given sci name, so sci_to_common doesn’t make sense
Value

A data.frame of common names by species queried. If multiple species are queried, the resulting data.frames are concatenated.

Description

Return a list of scientific names corresponding to given the common name(s).

Usage

common_to_sci(
  x,
  Language = "English",
  server = getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db()
)

Arguments

  x a common name or list of common names
  Language a string specifying the language for the common name, e.g. "English"
  server can be set to either "fishbase" or "sealifebase" to switch between databases.
             NOTE: it is usually easier to leave this as NULL and set the source instead using
             the environmental variable ‘FISHBASE_API‘, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")‘.
  version a version string for the database, will default to the latest release. see [get_releases()]
             for details.
  db the

Details

If more than one scientific name matches the common name (e.g. "trout"), the function will simply return a list of all matching scientific names. If given more than one common name, the resulting strings of matching scientific names are simply concatenated.

Value

A character vector of scientific names

See Also

species_list, synonyms
Examples

common_to_sci(c("Bicolor cleaner wrasse", "humphead parrotfish"), Language="English")
common_to_sci(c("Coho Salmon", "trout"))

country

country   country

Description

return a table of country for the requested species, as reported in FishBASE.org

Usage

country(
    species_list = NULL,
    fields = NULL,
    server = getOption("FISHBASE_API", "fishbase"),
    version = get_latest_release(),
    db = default_db(),
    ...
)

Arguments

species_list A vector of scientific names (each element as "genus species"). If empty, a table
for all fish will be returned.

fields a character vector specifying which fields (columns) should be returned. By
default, all available columns recognized by the parser are returned. Mostly for
backwards compatibility as users can subset by column later

server can be set to either "fishbase" or "sealifebase" to switch between databases.
NOTE: it is usually easier to leave this as NULL and set the source instead using
the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’.

version a version string for the database, will default to the latest release. see [get_releases()]
for details.

db the

... unused; for backwards compatibility only

Details

e.g. http://www.fishbase.us/Country
Examples

```r
## Not run:
country(species_list(Genus='Labroides'))
## End(Not run)
```

Description

Return a table of countrysub for the requested species.

Usage

```r
countrysub(
  species_list = NULL,
  fields = NULL,
  server = getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db(),
  ...
)
```

Arguments

- **species_list**: A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.
- **fields**: A character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later.
- **server**: Can be set to either "fishbase" or "sealifebase" to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’.
- **version**: A version string for the database, will default to the latest release. See [get_releases()] for details.
- **db**: The...
- **...**: Unused; for backwards compatibility only.
countrysubref

Examples

```r
## Not run:
countrysub(species_list(Genus='Labroides'))

## End(Not run)
```

description

return a table of countrysubref

Usage

countrysubref(
  server = getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db(),
  ...
)

Arguments

- **server**
  - can be set to either "fishbase" or "sealifebase" to switch between databases.
  - NOTE: it is usually easier to leave this as NULL and set the source instead using
  - the environmental variable 'FISHBASE_API', e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’.

- **version**
  - a version string for the database, will default to the latest release. see [get_releases()]
  - for details.

- **db**
  - the

- **...**
  - unused; for backwards compatibility only

Examples

```r
## Not run:
countrysubref()

## End(Not run)
```
Description

return a table of country information for the requested c_code, as reported in FishBASE.org

Usage

c_code(
  c_code = NULL,
  server = getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db(),
  ...
)

Arguments

c_code a C_Code or list of C_Codes (FishBase country code)
server can be set to either "fishbase" or "sealifebase" to switch between databases.
   NOTE: it is usually easier to leave this as NULL and set the source instead using
   the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’.
version a version string for the database, will default to the latest release. see [get_releases()]
   for details.

Details

e.g. http://www.fishbase.us/Country

Examples

## Not run:
c_code(440)

## End(Not run)
**db_delete**

*Delete the existing local fishbase database*

**Description**

Delete the existing local fishbase database

**Usage**

```r
db_delete(dbdir = db_dir())
```

**Arguments**

- `dbdir` Path to the database.

---

**default_db**

*Connect to the rfishbase database*

**Description**

Connect to the rfishbase database

**Usage**

```r
default_db(dbdir = db_dir(), driver = Sys.getenv("DB_DRIVER", "RSQLite"))
```

**Arguments**

- `dbdir` Path to the database.
- `driver` Default driver, one of "duckdb", "MonetDBLite", "RSQLite". rfishbase’ will select the first one of those it finds available if a driver is not set. This fallback can be overwritten either by explicit argument or by setting the environmental variable ‘rfishbase_DRIVER’.

**Details**

This function provides a default database connection for ‘rfishbase’. Note that you can use ‘rfishbase’ with any DBI-compatible database connection by passing the connection object directly to ‘rfishbase’ functions using the ‘db’ argument. ‘default_db()’ exists only to provide reasonable automatic defaults based on what is available on your system.

‘duckdb’ or ‘MonetDBLite’ will give the best performance, and regular users ‘rfishbase’ will work with the built-in ‘RSQLite’, and with other database connections such as Postgres or MariaDB, but queries (filtering joins) will be much slower on these non-columnar databases.

For performance reasons, this function will also cache and restore the existing database connection, making repeated calls to ‘default_db()’ much faster and more failsafe than repeated calls to [DBI::dbConnect]
Value

Returns a `src_dbi` connection to the default duckdb database

Examples

```r
## OPTIONAL: you can first set an alternative home location, 
## such as a temporary directory:
Sys.setenv(FISHBASE_HOME=tempdir())

## Connect to the database:
db <- default_db()
```

## diet

**Usage**

diet(
  species_list = NULL,
  fields = NULL,
  server = getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db(),
  ...
)

**Arguments**

- **species_list**: A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.
- **fields**: a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later.
- **server**: can be set to either "fishbase" or "sealifebase" to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable 'FISHBASE_API', e.g. `Sys.setenv(FISHBASE_API="sealifebase")'.
- **version**: a version string for the database, will default to the latest release. see [get_releases()] for details.
### diet_items

#### db
the

... unused; for backwards compatibility only

#### Value

a table of species diet

#### References


#### Examples

```r
## Not run:
diet("Oreochromis niloticus")

## End(Not run)
```

---

**diet_items**

**fooditems**

### Description

**fooditems**

#### Usage

```r
diet_items(
  server = getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db(),
  ...
)
```

#### Arguments

- **server** can be set to either "fishbase" or "sealifebase" to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API=“sealifebase”)’.
- **version** a version string for the database, will default to the latest release. see [get_releases()]
- **db** the
- ... unused; for backwards compatibility only
Value

a table of species diet_items

Examples

```r
## Not run:
diet_items("Oreochromis niloticus")
## End(Not run)
```

Description

return a table of species locations as reported in FishBASE.org FAO location data

Usage

```r
distribution(
  species_list = NULL,
  fields = NULL,
  server = getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db(),
  ...)
```

Arguments

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>species_list</td>
<td>A vector of scientific names (each element as &quot;genus species&quot;). If empty, a table for all fish will be returned.</td>
</tr>
<tr>
<td>fields</td>
<td>a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later</td>
</tr>
<tr>
<td>server</td>
<td>can be set to either &quot;fishbase&quot; or &quot;sealifebase&quot; to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API=&quot;sealifebase&quot;)’.</td>
</tr>
<tr>
<td>version</td>
<td>a version string for the database, will default to the latest release. see [get_releases()] for details.</td>
</tr>
<tr>
<td>db</td>
<td>the</td>
</tr>
<tr>
<td>...</td>
<td>unused; for backwards compatibility only</td>
</tr>
</tbody>
</table>
Details

currently this is ~ FAO areas table (minus "note" field) e.g. http://www.fishbase.us/Country/FaoAreaList.php?ID=5537

Examples

```r
## Not run:
distribution(species_list(Genus='Labroides'))
```

```r
## End(Not run)
```

Description

documentation of tables and fields

Usage

docs(table = NULL, server = NULL, ...)

Arguments

table the table for which the documentation should be displayed. If no table is given, documentation summarizing all available tables is shown.

server can be set to either "fishbase" or "sealifebase" to switch between databases.

NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’.

... unused; for backwards compatibility only

Value

A data.frame which lists the name of each table (if no table argument is given), along with a description of the table and a URL linking to further information about the table. If a specific table is named in the table argument, then the function will return a data.frame listing all the fields (columns) found in that table, a description of what the field label means, and the units in which the field is measured. These descriptions of the columns are not made available by FishBase and must be manually generated and curated by FishBase users. At this time, many fields are still missing. Please take a moment to fill in any fields you use in the source table here: https://github.com/ropensci/fishbaseapi/tree/master/docs/docs-sources
Examples

tables <- docs()
# Describe the fecundity table
dplyr::filter(tables, table == "fecundity")$description
## See fields in fecundity table
docs("fecundity")
## Note: only

Description

ecology

Usage

ecology(
species_list = NULL,
fields = NULL,
server = getOption("FISHBASE_API", "fishbase"),
version = get_latest_release(),
db = default_db(),
...
)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>species_list</td>
<td>A vector of scientific names (each element as &quot;genus species&quot;). If empty, a table for all fish will be returned.</td>
</tr>
<tr>
<td>fields</td>
<td>a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later</td>
</tr>
<tr>
<td>server</td>
<td>can be set to either &quot;fishbase&quot; or &quot;sealifebase&quot; to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API=&quot;sealifebase&quot;)’.</td>
</tr>
</tbody>
</table>
| version     | a version string for the database, will default to the latest release. see [get_releases()]
for details. |
| db          | the |
| ...         | unused; for backwards compatibility only |
Details

By default, will only return one entry (row) per species. Increase limit to get multiple returns for different stocks of the same species, though often data is either identical to the first or simply missing in the additional stocks.

Value

a table of species ecology data

References


Examples

```r
## Not run:
ecology("Oreochromis niloticus")

## trophic levels and standard errors for a list of species
ecology(c("Oreochromis niloticus", "Salmo trutta"),
       fields=c("SpecCode", "FoodTroph", "FoodSeTroph", "DietTroph", "DietSeTroph"))

## End(Not run)
```
estimate

Arguments

species_list  A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.

fields  a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later

server  can be set to either "fishbase" or "sealifebase" to switch between databases.

NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’. 

version  a version string for the database, will default to the latest release. see [get_releases()] for details.

db  the

...  unused; for backwards compatibility only

Value

a table of species ecosystems data

Examples

## Not run:
ecosystem("Oreochromis niloticus")

## End(Not run)
**faoareas**

### Arguments

- **species_list**: A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.
- **fields**: a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later.
- **server**: can be set to either "fishbase" or "sealifebase" to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’.
- **version**: a version string for the database, will default to the latest release. see [get_releases()] for details.
- **db**: the
- **...**: unused; for backwards compatibility only

### Value

a table of estimates from some models on trophic levels

### References

http://www.fishbase.us/manual/English/FishbaseThe_FOOD_ITEMS_table.htm

### Examples

```r
## Not run:
estimate("Oreochromis niloticus")

## End(Not run)
```

---

**Description**

return a table of species locations as reported in FishBASE.org FAO location data

**Usage**

```r
faoareas(
    species_list = NULL,
    fields = NULL,
    server = getOption("FISHBASE_API", "fishbase"),
    version = get_latest_release(),
    db = default_db(),
    ...
)
```
Arguments

species_list A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.
fields a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later
server can be set to either "fishbase" or "sealifebase" to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’.
version a version string for the database, will default to the latest release. see [get_releases()] for details.
db the
... unused; for backwards compatibility only

Details

currently this is ~ FAO areas table (minus "note" field) e.g. http://www.fishbase.us/Country/FaoAreaList.php?ID=5537

Value

a tibble, empty tibble if no results found

Examples

```r
## Not run:
faoareas()
## End(Not run)
```

fecundity

Description

fecundity

Usage

```
fecundity(
  species_list = NULL,
  fields = NULL,
  server = getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db(),
  ...
)
```
Arguments

species_list  A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.

fields  a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later

server  can be set to either "fishbase" or "sealifebase" to switch between databases.

NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’.

version  a version string for the database, will default to the latest release. see [get_releases()] for details.

db  the

... unused; for backwards compatibility only

Value

a table of species fecundity

Examples

## Not run:
fecundity("Oreochromis niloticus")

## End(Not run)

fishbase  A table of all the species found in FishBase, including taxonomic classification and the Species Code (SpecCode) by which the species is identified in FishBase.

Description

A table of all the species found in FishBase, including taxonomic classification and the Species Code (SpecCode) by which the species is identified in FishBase.

Author(s)

Carl Boettiger <carl@ropensci.org>
**Description**

fooditems

**Usage**

fooditems(
    species_list = NULL,
    fields = NULL,
    server = getOption("FISHBASE_API", "fishbase"),
    version = get_latest_release(),
    db = default_db(),
    ...
)

**Arguments**

- **species_list**
  A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.

- **fields**
  a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later

- **server**
  can be set to either "fishbase" or "sealifebase" to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’.

- **version**
  a version string for the database, will default to the latest release. see [get_releases()]
  for details.

- **db**
  the

- **...**
  unused; for backwards compatibility only

**Value**

a table of species fooditems

**References**

Examples

```r
## Not run:
fooditems("Oreochromis niloticus")

## End(Not run)
```

Description

genetics

Usage

genetics(
  species_list = NULL,
  fields = NULL,
  server = getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db(),
  ...
)

Arguments

- `species_list`: A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.
- `fields`: A character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later.
- `server`: Can be set to either "fishbase" or "sealifebase" to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable 'FISHBASE_API', e.g. `Sys.setenv(FISHBASE_API="sealifebase")`.
- `version`: A version string for the database, will default to the latest release. See `get_releases()` for details.
- `db`: The...
- `...`: Unused; for backwards compatibility only

Value

A table of species genetics data
introductions

Examples

```r
## Not run:
genetics("Oreochromis niloticus")
genetics("Labroides dimidiatus")

## End(Not run)
```

introductions introductions

Description

introductions

Usage

```r
introductions(
  species_list = NULL,
  fields = NULL,
  server =getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db(),
  ...
)
```

Arguments

- **species_list**: A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.
- **fields**: a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later
- **server**: can be set to either "fishbase" or "sealifebase" to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’.
- **version**: a version string for the database, will default to the latest release. see [get_releases()] for details.
- **db**: the
- ... unused; for backwards compatibility only

Value

a table of species introductions data
Examples

```r
## Not run:
introductions("Oreochromis niloticus")
## End(Not run)
```

Description
larvae

Usage
larvae(
    species_list = NULL,
    fields = NULL,
    server = getOption("FISHBASE_API", "fishbase"),
    version = get_latest_release(),
    db = default_db(),
    ...
)

Arguments

- **species_list**: A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.
- **fields**: a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later
- **server**: can be set to either "fishbase" or "sealifebase" to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable 'FISHBASE_API', e.g. `Sys.setenv(FISHBASE_API="sealifebase")`.
- **version**: a version string for the database, will default to the latest release. See [get_releases()] for details.
- **db**: the
- **...**: unused; for backwards compatibility only

Value

A table of larval data
Examples

```r
## Not run:
larvae("Oreochromis niloticus")
## End(Not run)
```

Description

return a table of species fooditems

Usage

```r
length_freq(
    species_list = NULL,
    fields = NULL,
    server = getOption("FISHBASE_API", "fishbase"),
    version = get_latest_release(),
    db = default_db(),
    ...
)
```

Arguments

- `species_list` A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.
- `fields` a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later
- `server` can be set to either "fishbase" or "sealifebase" to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. `Sys.setenv(FISHBASE_API="sealifebase")`.
- `version` a version string for the database, will default to the latest release. see `get_releases()` for details.
- `db` the
- `...` unused; for backwards compatibility only

Value

a table of length_freq information by species; see details
References

http://www.fishbase.org/manual/english/lengthfrequency.htm

Examples

```r
## Not run:
length_freq("Oreochromis niloticus")

## End(Not run)
```

Description

return a table of lengths

Usage

```r
length_length(
  species_list = NULL,
  fields = NULL,
  server = getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db(),
  ...
)
```

Arguments

- `species_list` A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.
- `fields` a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later
- `server` can be set to either "fishbase" or "sealifebase" to switch between databases.
  NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable `FISHBASE_API`, e.g. `Sys.setenv(FISHBASE_API="sealifebase")`.
- `version` a version string for the database, will default to the latest release. see [get_releases()] for details.
- `db` the
- `...` unused; for backwards compatibility only
Details

This table contains relationships for the conversion of one length type to another for over 8,000 species of fish, derived from different publications, e.g. Moutopoulos and Stergiou (2002) and Gaygusuz et al (2006), or from fish pictures, e.g. Collette and Nauen (1983), Compagno (1984) and Randall (1997). The relationships, which always refer to centimeters, may consist either of a regression linking two length types, of the form: Length type (2) = a + b x Length type (1) Length type (2) = b' x Length type (1) The available length types are, as elsewhere in FishBase, TL = total length; FL = fork length; SL = standard length; WD = width (in rays); OT = other type (to be specified in the Comment field). When a version of equation (1) is presented, the length range, the number of fish used in the regression, the sex and the correlation coefficient are presented, if available. When a version of equation (2) is presented, the range and the correlation coefficient are omitted, as the ratio in (2) will usually be estimated from a single specimen, or a few fish covering a narrow range of lengths.

Value

a table of lengths

References


Examples

```r
## Not run:
length_length("Oreochromis niloticus")
## End(Not run)
```

---

### Description

The LENGTH-WEIGHT table presents the a and b values of over 5,000 length-weight relationships of the form W = a x Lb, pertaining to about over 2,000 fish species.

### Usage

```r
length_weight(
    species_list = NULL,
    fields = NULL,
    server = getOption("FISHBASE_API", "fishbase"),
    version = get_latest_release(),
    db = default_db(),
    ...
)
```
Arguments

species_list  A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.

fields  a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later

server  can be set to either "fishbase" or "sealifebase" to switch between databases.

NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable 'FISHBASE_API', e.g. 'Sys.setenv(FISHBASE_API="sealifebase")'.

version  a version string for the database, will default to the latest release. see [get_releases()] for details.

db  the

... unused; for backwards compatibility only

Details

See references for official documentation. From FishBase.org: Length-weight relationships are important in fisheries science, notably to raise length-frequency samples to total catch, or to estimate biomass from underwater length observations. The units of length and weight in FishBase are centimeter and gram, respectively. Thus when length-weight relationships are not in cm-g, the intercept 'a' is transformed as follows:

\[
a'(cm, g) = a (mm, g) \times 10^b \\
a'(cm, g) = a (cm, kg) \times 1000 \\
a'(mm, mg) = a'(cm, g) \times 10^b/1000 \\
a'(cm, kg) = a'(cm, g) \times 10^b \\
\]

However, published length-weight relationships are sometimes difficult to use, as they may be based on a length measurement type (e.g., fork length) different from ones length measurements (expressed e.g., as total length). Therefore, to facilitate conversion between length types, an additional LENGTH-LENGTH table, # presented below, was devised which presents linear regressions or ratios linking length types (e.g., FL vs. TL). We included a calculated field with the weight of a 10 cm fish (which should be in the order of 10 g for normal, fusiform shaped fish), to allow identification of gross errors, given knowledge of the body form of a species.

Value

a table of length_weight information by species; see details

References


Examples

## Not run:

```r
length_weight("Oreochromis niloticus")
```

## End(Not run)
Description

list fields

Usage

list_fields(fields = NULL, server = NULL, implemented_only = TRUE)

Arguments

- **fields**: field (column name) to search for
- **server**: base URL to the FishBase API (by default). For SeaLifeBase, use https://fishbase.ropensci.org/sealifebase
- **implemented_only**: by default, only return those tables that have been implemented.

Details

Calling `list_fields()` with no arguments will return the full table of all known fields. Then users can employ standard filter techniques like grep for partial name matching; see examples.

Value

a data frame listing the table names (matching function names in rfishbase) and the matching column names those tables have implemented.

Examples

```r
list_fields("Temp")

## Regex matching on full table
library(dplyr)
list_fields() %>% filter(grepl("length", columns, ignore.case = TRUE))
```
Description

load_taxa

Usage

load_taxa(
    server = getOption("FISHBASE_API", "fishbase"),
    version = get_latest_release(),
    db = default_db(),
    collect = TRUE,
    ...
)

Arguments

server    Either "fishbase" (the default) or "sealifebase"
version   the version of the database you want. Will default to the latest available; see
          [available_releases()].
db        A remote database connection. Will default to the best available system, see
          [default_db()].
collect   return a data.frame if TRUE, otherwise, a DBI connection to the table in the
          database
...       for compatibility with previous versions

Value

the taxa list

maturity  maturity

Description

maturity
Usage

maturity(
  species_list = NULL,
  fields = NULL,
  server = getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db(),
  ...
)

Arguments

species_list  A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.
fields        a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later
server        can be set to either "fishbase" or "sealifebase" to switch between databases.
              NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’.
version       a version string for the database, will default to the latest release. see [get_releases()] for details.

Value

a table of species maturity

Examples

## Not run:
maturity("Oreochromis niloticus")

## End(Not run)
morphometrics

Usage

morphology(
  species_list = NULL,
  fields = NULL,
  server = getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db(),
  ...
)

Arguments

  species_list  A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.
  fields  a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later
  server  can be set to either "fishbase" or "sealifebase" to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable `FISHBASE_API`, e.g. `Sys.setenv(FISHBASE_API="sealifebase")`.
  version  a version string for the database, will default to the latest release. see [get_releases()] for details.
  db  the ...
  ...  unused; for backwards compatibility only

Value

da table of species morphology data

Examples

  ## Not run:
  morphology("Oreochromis niloticus")

  ## End(Not run)
Usage

```r
morphometrics(
    species_list = NULL,
    fields = NULL,
    server = getOption("FISHBASE_API", "fishbase"),
    version = get_latest_release(),
    db = default_db(),
    ...
)
```

Arguments

- `species_list`: A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.
- `fields`: a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later
- `server`: can be set to either "fishbase" or "sealifebase" to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’.
- `version`: a version string for the database, will default to the latest release. see `[get_releases()]` for details.
- `db`: the
- `...`: unused; for backwards compatibility only

Value

a table of species morphometrics data

Examples

```r
## Not run:
morphometrics("Oreochromis niloticus")
```

## End(Not run)
Usage

occurrence()

Details

THE OCCURRENCE TABLE HAS BEEN DROPPED BY FISHBASE - THIS FUNCTION NOW
RETURNS A STOP MESSAGE.

Arguments

species_list  A vector of scientific names (each element as "genus species"). If empty, a table
for all fish will be returned.
fields       a character vector specifying which fields (columns) should be returned. By
default, all available columns recognized by the parser are returned. Mostly for
backwards compatibility as users can subset by column later
server       can be set to either "fishbase" or "sealifebase" to switch between databases.
NOTE: it is usually easier to leave this as NULL and set the source instead using
the environmental variable 'FISHBASE_API', e.g. `Sys.setenv(FISHBASE_API="sealifebase")'.
version      a version string for the database, will default to the latest release. see [get_releases()]
for details.
db           the
...          unused; for backwards compatibility only

Value

a table of species oxygen data
Examples

```r
## Not run:
oxygen("Oreochromis niloticus")
## End(Not run)
```

Description

Table of maximum length (Lmax), weight (Wmax) and age (tmax)

Usage

```r
popchar(
  species_list = NULL,
  fields = NULL,
  server = getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db(),
  ...
)
```

Arguments

- `species_list`: A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.
- `fields`: a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later.
- `server`: can be set to either "fishbase" or "sealifebase" to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’.
- `version`: a version string for the database, will default to the latest release. see `get_releases()` for details.
- `db`: the
- `...`: unused; for backwards compatibility only

Details

See references for official documentation. From FishBase.org: This table presents information on maximum length (Lmax), weight (Wmax) and age (tmax) from various localities where a species occurs. The largest values from this table are also entered in the SPECIES table. The POPCHAR table also indicates whether the Lmax, Wmax and tmax values or various combinations thereof refer to the same individual fish.
popgrowth

References

http://www.fishbase.org/manual/english/fishbase_the_popchar_table.htm

Examples

```r
## Not run:
popchar("Oreochromis niloticus")

## End(Not run)
```

Description

This table contains information on growth, natural mortality and length at first maturity, which serve as inputs to many fish stock assessment models. The data can also be used to generate empirical relationships between growth parameters or natural mortality estimates, and their correlates (e.g., body shape, temperature, etc.), a line of research that is useful both for stock assessment and for increasing understanding of the evolution of life-history strategies.

Usage

```r
popgrowth(
  species_list = NULL,
  fields = NULL,
  server = getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db(),
  ...
)
```

Arguments

- `species_list`: A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.
- `fields`: A character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later.
- `server`: can be set to either "fishbase" or "sealifebase" to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’.
- `version`: A version string for the database, will default to the latest release. See [get_releases()] for details.
- `db`: The database.
- `...`: unused; for backwards compatibility only.
Value

a table of population growth information by species; see details

References


Examples

```r
## Not run:
popgrowth("Oreochromis niloticus")

## End(Not run)
```

Description

`popqb`

Usage

```r
popqb(
  species_list = NULL,
  fields = NULL,
  server = getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db(),
  ...
)
```

Arguments

- `species_list`: A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.
- `fields`: a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later.
- `server`: can be set to either "fishbase" or "sealifebase" to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’.
- `version`: a version string for the database, will default to the latest release. see `get_releases()` for details.
- `db`: the
- `...`: unused; for backwards compatibility only
predators

Value

a table of species popqb

References


Examples

```r
## Not run:
popqb("Oreochromis niloticus")
## End(Not run)
```

## Not run:
predators("Oreochromis niloticus")
## End(Not run)

desc

desc

desc

desc

desc

desc

desc

Description

predators

Usage

predators(
  species_list = NULL,
  fields = NULL,
  server =getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db(),
  ...
)

Arguments

`species_list` A vector of scientific names (each element as "genus species"). If empty, a table
for all fish will be returned.

`fields` a character vector specifying which fields (columns) should be returned. By
default, all available columns recognized by the parser are returned. Mostly for
backwards compatibility as users can subset by column later

`server` can be set to either "fishbase" or "sealifebase" to switch between databases.
NOTE: it is usually easier to leave this as NULL and set the source instead using
the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’.

`version` a version string for the database, will default to the latest release. see [get_releases()]
for details.

`db` the

... unused; for backwards compatibility only
Value

a table of predators

References

http://www.fishbase.org/manual/english/fishbaseth_predators_table.htm

Examples

```r
## Not run:
predators("Oreochromis niloticus")
## End(Not run)
```

ration

Description

raction

Usage

```r
ration(
species_list = NULL,
fields = NULL,
server = getOption("FISHBASE_API", "fishbase"),
version = get_latest_release(),
db = default_db(),
... )
```

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>species_list</td>
<td>A vector of scientific names (each element as &quot;genus species&quot;). If empty, a table for all fish will be returned.</td>
</tr>
<tr>
<td>fields</td>
<td>a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later</td>
</tr>
<tr>
<td>server</td>
<td>can be set to either &quot;fishbase&quot; or &quot;sealifebase&quot; to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API=&quot;sealifebase&quot;)’.</td>
</tr>
<tr>
<td>version</td>
<td>a version string for the database, will default to the latest release. see [get_releases()] for details.</td>
</tr>
<tr>
<td>db</td>
<td>the</td>
</tr>
<tr>
<td>...</td>
<td>unused; for backwards compatibility only</td>
</tr>
</tbody>
</table>
Value

a table of species ration

References

http://www.fishbase.org/manual/english/fishbase_the_ration_table.htm

Examples

```r
## Not run:
ration("Oreochromis niloticus")

## End(Not run)
```

Usage

```r
references(codes = NULL,
  fields = NULL,
  server = getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db(),
  ...
)
```

Arguments

codes One or more Fishbase reference numbers, matching the RefNo field
fields a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later
server can be set to either "fishbase" or "sealifebase" to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’.
version a version string for the database, will default to the latest release. see [get_releases()] for details.

db the

... unused; for backwards compatibility only
reproduction

Value
a tibble (data.frame) of reference data

Examples

## Not run:
references(codes = 1)
 references(codes = 1:6)
 references(codes = 1:6, fields = c('Author', 'Year', 'Title'))
 references() # all references

## End(Not run)

Description
reproduction

Usage

reproduction(
  species_list = NULL,
  fields = NULL,
  server = getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db(),
  ...
)

Arguments

  species_list  A vector of scientific names (each element as "genus species").
                If empty, a table for all fish will be returned.

  fields       a character vector specifying which fields (columns)
                should be returned. By default, all available columns
                recognized by the parser are returned. Mostly for
                backwards compatibility as users can subset by column
                later

  server       can be set to either "fishbase" or "sealifebase" to switch
                between databases.
                NOTE: it is usually easier to leave this as NULL and set
                the source instead using the environmental variable
                ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’.

  version      a version string for the database, will default to the latest release.
                see [get_releases()] for details.

  db           the

  ...         unused; for backwards compatibility only
Value

A table of all the species found in SeaLifeBase, including taxonomic classification and the Species Code (SpecCode) by which the species is identified in SeaLifeBase

Examples

```r
## Not run:
reproduction("Oreochromis niloticus")
## End(Not run)
```

### Description

A table of all the species found in SeaLifeBase, including taxonomic classification and the Species Code (SpecCode) by which the species is identified in SeaLifeBase

### Author(s)

Carl Boettiger <carl@ropensci.org>

### Usage

```r
spawning(  
  species_list = NULL,
  fields = NULL,
  server = getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db(),
  ...
)
```
species

Arguments

species_list A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.

fields a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later

server can be set to either "fishbase" or "sealifebase" to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’.

version a version string for the database, will default to the latest release. see [get_releases()] for details.

db the

... unused; for backwards compatibility only

Value

a table of species spawning

Examples

## Not run:
spawning("Oreochromis niloticus")

## End(Not run)

Description

Provide wrapper to work with species lists.

Usage

species(
  species_list = NULL,
  fields = NULL,
  server = getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db(),
  ...
)

species_by_ecosystem

Arguments

species_list A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.

fields a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later

server can be set to either "fishbase" or "sealifebase" to switch between databases.

NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable 'FISHBASE_API', e.g. 'Sys.setenv(FISHBASE_API="sealifebase")'.

version a version string for the database, will default to the latest release. see [get_releases()] for details.

db the

... unused; for backwards compatibility only

Details

The Species table is the heart of FishBase. This function provides a convenient way to query, tidy, and assemble data from that table given an entire list of species. For details, see: http://www.fishbase.org/manual/english/fishbasethe_species_table.htm

Species scientific names are defined according to fishbase taxonomy and nomenclature.

Value

a data.frame with rows for species and columns for the fields returned by the query (FishBase 'species' table)

Examples

## Not run:

```r
species(c("Labroides bicolor", "Bolbometopon muricatum"))
species(c("Labroides bicolor", "Bolbometopon muricatum"), fields = species_fields$habitat)
```

## End(Not run)

---

species_by_ecosystem Species list by ecosystem

Description

Species list by ecosystem
Usage

```r
species_by_ecosystem(
  ecosystem,
  species_list = NULL,
  server = getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db(),
  ...
)
```

Arguments

- **ecosystem** *(character)* an ecosystem name
- **species_list** A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.
- **server** can be set to either "fishbase" or "sealifebase" to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’.
- **version** a version string for the database, will default to the latest release. see [get_releases()] for details.
- **db** the
- **...** unused; for backwards compatibility only

Value

A table of species ecosystems data

Examples

```r
## Not run:
species_by_ecosystem(ecosystem = "Arctic", server = "sealifebase")

## End(Not run)
```

---

**species_fields**

*A list of the species_fields available*

Description

A list of the species_fields available

Author(s)

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Description

Return the a species list given a taxonomic group

Usage

```r
species_list(

Class = NULL,
Order = NULL,
Family = NULL,
Subfamily = NULL,
Genus = NULL,
Species = NULL,
SpecCode = NULL,
SuperClass = NULL,
server = getOption("FISHBASE_API", FISHBASE_API)
)
```

Arguments

- **Class**: Request all species in this taxonomic Class
- **Order**: Request all species in this taxonomic Order
- **Family**: Request all species in this taxonomic Family
- **Subfamily**: Request all species in this taxonomic SubFamily
- **Genus**: Request all species in this taxonomic Genus
- **Species**: Request all species in this taxonomic Species
- **SpecCode**: Request species name of species matching this SpecCode
- **SuperClass**: Request all species of this Superclass
- **server**: fishbase or sealifebase

Examples

```r
## All species in the Family
species_list(Family = 'Scaridae')
## All species in the Genus
species_list(Genus = 'Labroides')
```
species_names

Description

returns species names given FishBase’s SpecCodes

Usage

species_names(
codes,
server = getOption("FISHBASE_API", "fishbase"),
version = get_latest_release(),
db = default_db()
)

Arguments

codes a vector of speccodes (e.g. column from a table)
server can be set to either "fishbase" or "sealifebase" to switch between databases.
NOTE: it is usually easier to leave this as NULL and set the source instead using
the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’.
version a version string for the database, will default to the latest release. see [get_releases()]
for details.
db the

Value

A character vector of species names for the SpecCodes

speed

Description

speed

Usage

speed(
species_list = NULL,
fields = NULL,
server = getOption("FISHBASE_API", "fishbase"),
version = get_latest_release(),
db = default_db(),
...)

stocks

Arguments

species_list A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.

fields a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later.

server can be set to either "fishbase" or "sealifebase" to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’.

version a version string for the database, will default to the latest release. see [get_releases()] for details.

db the

... unused; for backwards compatibility only

Value

a table of species speed data

Examples

## Not run:
speed("Oreochromis niloticus")

## End(Not run)

stocks stocks

Description

stocks

Usage

stocks(
  species_list = NULL,
  fields = NULL,
  server =getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db(),
  ...
)

Arguments

species_list  A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.

fields  a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later.

server  can be set to either "fishbase" or "sealifebase" to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’.

version  a version string for the database, will default to the latest release. see [get_releases()] for details.

db  the

...  unused; for backwards compatibility only

Value

a table of species stocks data

Examples

## Not run:
stocks("Oreochromis niloticus")

## End(Not run)
synonyms

Arguments

species_list  A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.
fields  a character vector specifying which fields (columns) should be returned. By default, all available columns recognized by the parser are returned. Mostly for backwards compatibility as users can subset by column later
server  can be set to either "fishbase" or "sealifebase" to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’. version  a version string for the database, will default to the latest release. see [get_releases()] for details.
db  the
...  unused; for backwards compatibility only

Value

a table of species swimming data

Examples

## Not run:
swimming("Oreochromis niloticus")
## End(Not run)

synonyms  synonyms

Description

Check for alternate versions of a scientific name

Usage

synonyms(
  species_list = NULL,
  server = getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db(),
  ...
)

validate_names

Arguments

species_list A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.

server can be set to either "fishbase" or "sealifebase" to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API=“sealifebase”)’.

version a version string for the database, will default to the latest release. see [get_releases()] for details.

db the unused; for backwards compatibility only

Details

For further information on fields returned, see: http://www.fishbase.org/manual/english/fishbasethe_synonyms_table.htm

Value

A table with information about the synonym. Will generally be only a single row if a species name is given. If a FishBase SpecCode is given, all synonyms matching that SpecCode are shown, and the table indicates which one is Valid for FishBase. This may or may not match the valid name for Catalog of Life (Col), also shown in the table. See examples for details.

validate_names validate_names

Description

Check for alternate versions of a scientific name and return the scientific names FishBase recognizes as valid

Usage

validate_names(
  species_list,
  server = getOption("FISHBASE_API", "fishbase"),
  version = get_latest_release(),
  db = default_db(),
  ...
)
validate_names

Arguments

specie_list A vector of scientific names (each element as "genus species"). If empty, a table for all fish will be returned.

server can be set to either "fishbase" or "sealifebase" to switch between databases. NOTE: it is usually easier to leave this as NULL and set the source instead using the environmental variable ‘FISHBASE_API’, e.g. ‘Sys.setenv(FISHBASE_API="sealifebase")’.

version a version string for the database, will default to the latest release. see [get_releases()] for details.

db the

... unused; for backwards compatibility only

Value

a string of the validated names

Examples

validate_names("Abramites ternetzi")
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