Package ‘robis’

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Title Ocean Biogeographic Information System (OBIS) Client

Description Client for the Ocean Biogeographic Information System (<https://obis.org>).

Version 2.1.8

Date 2019-06-01

URL https://github.com/iobis/robis

BugReports https://github.com/iobis/robis/issues

Depends R (>= 3.1.3)

Imports httr, dplyr, jsonlite, leaflet, ggplot2

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Suggests testthat

RoxygenNote 6.1.1

NeedsCompilation no

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area

Fetch a list of areas

Description
Fetch a list of areas

Usage
area()

Value
The areas.

Examples
areas <- area()

checklist

Create a checklist.

Description
Create a checklist.

Usage
checklist(scientificname = NULL, taxonid = NULL, datasetid = NULL, nodeid = NULL, areaid = NULL, startdate = NULL, enddate = NULL, startdepth = NULL, enddepth = NULL, geometry = NULL, redlist = NULL, exclude = NULL, verbose = FALSE)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>scientificname</td>
<td>the scientific name.</td>
</tr>
<tr>
<td>taxonid</td>
<td>the taxon identifier (WoRMS AphiaID).</td>
</tr>
<tr>
<td>datasetid</td>
<td>the dataset identifier.</td>
</tr>
<tr>
<td>nodeid</td>
<td>the OBIS node identifier.</td>
</tr>
<tr>
<td>areaid</td>
<td>the OBIS area identifier.</td>
</tr>
<tr>
<td>startdate</td>
<td>the earliest date on which occurrence took place.</td>
</tr>
<tr>
<td>enddate</td>
<td>the latest date on which the occurrence took place.</td>
</tr>
<tr>
<td>startdepth</td>
<td>the minimum depth below the sea surface.</td>
</tr>
<tr>
<td>enddepth</td>
<td>the maximum depth below the sea surface.</td>
</tr>
</tbody>
</table>
geometry a WKT geometry string.
redlist include only IUCN Red List species.
exclude quality flags to be excluded from the results.
verbose logical. Optional parameter to enable verbose logging (default = FALSE).

Value

The checklist.

Examples

taxa <- checklist(scientificname = "Tellinidae")
taxa <- checklist(geometry = "POLYGON ((2.3 51.8, 2.3 51.6, 2.6 51.6, 2.6 51.8, 2.3 51.8))")
taxa <- checklist(areaid = 10181)

Description

Create a list of datasets.

Usage

dataset(scientificname = NULL, taxonid = NULL, datasetid = NULL,
nodeid = NULL, areaid = NULL, startdate = NULL, enddate = NULL,
startdepth = NULL, enddepth = NULL, geometry = NULL, redlist = NULL,
exclude = NULL, verbose = FALSE)

Arguments

scientificname the scientific name.
taxonid the taxon identifier (WoRMS AphiaID).
datasetid the dataset identifier.
nodeid the OBIS node identifier.
areaid the OBIS area identifier.
startdate the earliest date on which occurrence took place.
enddate the latest date on which the occurrence took place.
startdepth the minimum depth below the sea surface.
enddepth the maximum depth below the sea surface.
geometry a WKT geometry string.
redlist include only IUCN Red List species.
exclude quality flags to be excluded from the results.
verbose logical. Optional parameter to enable verbose logging (default = FALSE).
Value

The datasets.

Examples

datasets <- dataset(scientificname = "Tellinidae")
datasets <- dataset(geometry = "POLYGON ((2.3 51.8, 2.3 51.6, 2.6 51.6, 2.6 51.8, 2.3 51.8))")
datasets <- dataset(areaid = 10181)

map_ggplot  
Create a ggplot2 map.

Description

Create a ggplot2 map.

Usage

map_ggplot(data, color = "#ff3399")

Arguments

data  
the occurrences from occurrence().
color  
color to be used for the dots.

map_leaflet  
Create a leaflet map.

Description

Create a leaflet map.

Usage

map_leaflet(data, color = "#ff3399",
             provider_tiles = "OpenStreetMap.BlackAndWhite", popup = function(x) { x["id"] },
             antarctic = FALSE)

Arguments

data  
the occurrences from occurrence().
color  
color to be used for the dots.
provider_tiles  
the base map provider.
popup  
function generating the popup content.
antarctic  
use antarctic polar stereographic projection.
### node

**Fetch a list of nodes**

**Description**

Fetch a list of nodes

**Usage**

```r
node()
```

**Value**

The nodes

**Examples**

```r
nodes <- node()
```

### occurrence

**Find occurrences.**

**Description**

Find occurrences.

**Usage**

```r
occurrence(scientificname = NULL, taxonid = NULL, datasetid = NULL, nodeid = NULL, areaid = NULL, startdate = NULL, enddate = NULL, startdepth = NULL, enddepth = NULL, geometry = NULL, redlist = NULL, exclude = NULL, fields = NULL, verbose = FALSE)
```

**Arguments**

- `scientificname`: the scientific name.
- `taxonid`: the taxon identifier (WoRMS AphiaID).
- `datasetid`: the dataset identifier.
- `nodeid`: the OBIS node identifier.
- `areaid`: the OBIS area identifier.
- `startdate`: the earliest date on which occurrence took place.
- `enddate`: the latest date on which the occurrence took place.
- `startdepth`: the minimum depth below the sea surface.
- `enddepth`: the maximum depth below the sea surface.
geometry a WKT geometry string.
redlist include only IUCN Red List species.
exclude quality flags to be excluded from the results.
fields fields to be included in the results.
verbose logical. Optional parameter to enable verbose logging (default = FALSE).

Value
The occurrence records.

Examples

records <- occurrence(scientificname = "Abra sibogai")
records <- occurrence(taxonid = 141438, startdate = as.Date("2007-10-10"))
records <- occurrence(taxon = 141438, geometry = "POLYGON ((0 0, 0 45, 45 45, 45 0, 0 0))")

Description
Work in progress
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