

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

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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	<i>Fetch a list of areas</i>
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Description

Fetch a list of areas

Usage

```
area()
```

Value

The areas.

Examples

```
areas <- area()
```

checklist	<i>Create a checklist.</i>
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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

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 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)
```

dataset	<i>Create a list of datasets.</i>
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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	<i>Fetch a list of nodes</i>
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Description

Fetch a list of nodes

Usage

```
node()
```

Value

The nodes

Examples

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

occurrence	<i>Find occurrences.</i>
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Description

Find occurrences.

Usage

```
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))")
```

robis

robis: R client for the OBIS API

Description

Work in progress

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