Package ‘robis’

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checklist

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,
hab = NULL, flags = 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.
- **hab** include only IOC-UNESCO HAB species.
- **flags** quality flags which need to be set.
- **exclude** quality flags to be excluded from the results.
- **verbose** logical. Optional parameter to enable verbose logging (default = FALSE).

**Value**

The checklist.

**Examples**

```r
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**

Create a list of datasets.

**Description**

Create a list of datasets.

**Usage**

```r
dataset(scientificname = NULL, taxonid = NULL, datasetid = NULL, nodeid = NULL, areaid = NULL, startdate = NULL, enddate = NULL, startdepth = NULL, enddepth = NULL, geometry = NULL, redlist = NULL, hab = 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.
- `hab`: include only IOC-UNESCO HAB species.
- `exclude`: quality flags to be excluded from the results.
- `verbose`: logical. Optional parameter to enable verbose logging (default = FALSE).

Value

The datasets.

Examples

```r
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)
```

---

`get_geometry`  
*Get a WKT geometry by drawing on a map.*

Description

Get a WKT geometry by drawing on a map.

Usage

`get_geometry(provider_tiles = "Esri.WorldGrayCanvas")`

Arguments

- `provider_tiles`: the base map provider.
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 = "Esri.WorldGrayCanvas", 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.
measurements

Extract measurements or facts from occurrence data with a mof column.

Description
Extract measurements or facts from occurrence data with a mof column.

Usage
measurements(df, fields = "id")

Arguments
df the occurrence dataframe.
fields columns from the occurrence dataframe to include.

Value
The measurements.

node
Fetch a list of nodes

Description
Fetch a list of nodes

Usage
node()

Value
The nodes

Examples
nodes <- node()
occurrence

Find occurrences.

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, measurementtype = NULL, measurementtypeid = NULL, measurementvalue = NULL, measurementvalueid = NULL, measurementunit = NULL, measurementunitid = NULL, redlist = NULL, hab = NULL, mof = NULL, absence = NULL, event = NULL, dropped = NULL, flags = NULL, exclude = NULL, fields = NULL, verbose = FALSE)

Arguments

scientificname the scientific name.
taxonid the taxon identifier (WoRMS AphiaID).
datasetid the dataset identifier.
odeid 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.
measurementtype the measurement type to be included in the measurements data.
measurementtypeid the measurement type ID to be included in the measurements data.
measurementvalue the measurement value to be included in the measurements data.
measurementvalueid the measurement value ID to be included in the measurements data.
measurementunit the measurement unit to be included in the measurements data.
measurementunitid the measurement unit ID to be included in the measurements data.
redlist include only IUCN Red List species.
hab  include only IOC-UNESCO HAB species.
mof  include measurements data (default = NULL).
absence only include absence records (TRUE), exclude absence records (NULL) or include absence records (include).
event only include pure event records (TRUE), exclude pure event records (NULL) or include event records (include).
dropped only include dropped records (TRUE), exclude dropped records (NULL) or include dropped records (include).
flags quality flags which need to be set.
extore 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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