Package: rredlist (via r-universe)

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Type Package

Title 'IUCN' Red List Client

Description 'IUCN' Red List (<https://api.iucnredlist.org/>) client.
The 'IUCN' Red List is a global list of threatened and
endangered species. Functions cover all of the Red List 'API'
routes. An 'API' key is required.

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URL <https://docs.ropensci.org/rredlist/>,
<https://github.com/ropensci/rredlist>

BugReports <https://github.com/ropensci/rredlist/issues>

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Contents

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rl_actions	*Conservation actions needed assessment summary*

Description

Return the latest assessments with a given conservation action needed (e.g., Land/water management or Species recovery). These conservation action codes correspond to the IUCN Red List Conservation Actions Classification Scheme (v2.0).

Usage

```
rl_actions(
  code = NULL,
  key = NULL,
  parse = TRUE,
  all = TRUE,
  page = 1,
  quiet = FALSE,
  ...
)

rl_actions_(code = NULL, key = NULL, all = TRUE, page = 1, quiet = FALSE, ...)
```

Arguments

code
: (character) The code of the conservation action to look up. If not supplied, a list of all conservation actions will be returned.

key
: (character) An IUCN API token. See `rl_use_iucn()`.

parse
: (logical) Whether to parse the output to list (FALSE) or, where possible, data.frame (TRUE). Default: `TRUE`.

all
: (logical) Whether to retrieve all results at once or not. If TRUE we do the paging internally for you and bind all of the results together. If FALSE, only a single page of results will be retrieved.

page
: (integer/numeric) Page to get if `all` is FALSE. Default: 1. Each page returns up to 100 records. Paging is required because it's too much burden on a server to just "get all the data" in one request.

quiet
: (logical) Whether to suppress progress for multi-page downloads or not. Default: FALSE (that is, give progress). Ignored if `all` = FALSE.

...
: Includes the following filters that are supported by the API endpoint (refer to the [API docs](#) for more information):

    - `year_published`: (integer) Set this to return only assessments from a given year.
    - `latest`: (logical) Set this to TRUE to return only the latest assessment for each taxon.
    - `scope_code`: (integer) Set this to return only assessments from a particular [scope](#) (e.g., 1 for Global, 2 for Europe). This is similar to the `region` argument of the old Red List API and old versions of rredlist.

    Also supports any [curl options](#) passed to the GET request via [HttpClient](#).

Value

A list unless using a function with a trailing underscore, in which case json as character string is returned.

References

API docs at https://api.iucnredlist.org/.

See Also

Assessments by conservation actions or research needed: rl_research()

Examples

```
## Not run:
# Get list of all conservation actions
rl_actions()
# Get assessments with Species recovery conservation action needed
rl_actions("3_2")

## End(Not run)
```

---

rl_api_version   *Get the Red List API version*

Description

Returns the current version number of the IUCN Red List of Threatened Species API.

Usage

```
rl_api_version(key = NULL, ...)
```

Arguments

key	(character) An IUCN API token. See rl_use_iucn().
...	Curl options passed to HttpClient.

Value

API version as character string.

See Also

Red List information and statistics: rl_citation(), rl_sp_count(), rl_version()

Examples

```
## Not run:
rl_api_version()

## End(Not run)
```

rl_assessment	*Retrieve an assessment*

Description

Get the full details for a single IUCN Red List assessment.

Usage

```
rl_assessment(id, key = NULL, parse = TRUE, ...)

rl_assessment_(id, key = NULL, ...)
```

Arguments

id	(integer) The unique identifier of the assessment.
key	(character) An IUCN API token. See rl_use_iucn().
parse	(logical) Whether to parse the output to list (FALSE) or, where possible, data.frame (TRUE). Default: TRUE.
...	Curl options passed to the GET request via cruls.

Value

A list unless using a function with a trailing underscore, in which case json as character string is returned.

References

API docs at https://api.iucnredlist.org/.

Examples

```
## Not run:
# Get assessment details for Fratercula arctica
ex1 <- rl_assessment(id = 166290968)
ex1$red_list_category$code
ex1$systems

## End(Not run)
```

---

rl_categories | *Red List category assessment summary*

Description

Return a list of the latest assessments for a given category (e.g., Not Evaluated, Data Deficient, Least Concern, Near Threatened, Vulnerable, Endangered, Critically Endangered, Extinct in the Wild and Extinct). This endpoint returns categories for the current IUCN Red List Categories and Criteria (v3.1) as well as older versions (i.e., v2.3). Note that a code may not be unique across Categories and Criteria versions. Therefore, codes like "EX" will return assessments for EX v3.1 and EX v2.3.

Usage

```
rl_categories(
  code = NULL,
  key = NULL,
  parse = TRUE,
  all = TRUE,
  page = 1,
  quiet = FALSE,
  ...
)

rl_categories_(
  code = NULL,
  key = NULL,
  all = TRUE,
  page = 1,
  quiet = FALSE,
  ...
)
```

Arguments

code	(character) The code of the Red List category to look up. If not supplied, a list of all categories will be returned.
key	(character) An IUCN API token. See `rl_use_iucn()`.
parse	(logical) Whether to parse the output to list (`FALSE`) or, where possible, data.frame (`TRUE`). Default: `TRUE`.
all	(logical) Whether to retrieve all results at once or not. If `TRUE` we do the paging internally for you and bind all of the results together. If `FALSE`, only a single page of results will be retrieved.
page	(integer/numeric) Page to get if `all` is `FALSE`. Default: 1. Each page returns up to 100 records. Paging is required because it's too much burden on a server to just "get all the data" in one request.

quiet	(logical) Whether to suppress progress for multi-page downloads or not. Default: FALSE (that is, give progress). Ignored if all = FALSE.
...	Includes the following filters that are supported by the API endpoint (refer to the API docs for more information):

- year_published: (integer) Set this to return only assessments from a given year.
- latest: (logical) Set this to TRUE to return only the latest assessment for each taxon.
- scope_code: (integer) Set this to return only assessments from a particular scope (e.g., 1 for Global, 2 for Europe). This is similar to the region argument of the old Red List API and old versions of rredlist.

Also supports any curl options passed to the GET request via HttpClient.

Value

A list unless using a function with a trailing underscore, in which case json as character string is returned.

References

API docs at `https://api.iucnredlist.org/`.

See Also

Assessments by threat details: `rl_pop_trends()`, `rl_stresses()`, `rl_threats()`, `rl_use_and_trade()`

Examples

```
## Not run:
# Get all Red List categories
rl_categories()
# Get assessments for the Vulnerable category
rl_categories("VU")

## End(Not run)
```

---

rl_citation	*Get the citation for the Red List API*

Description

Full acknowledgement and citation needs to be given for using the API. Use this function to get the full citation for the current version of the Red List API. More details are available here: `https://api.iucnredlist.org/`.

Usage

```
rl_citation(key = NULL, ...)
```

Arguments

key	(character) An IUCN API token. See `rl_use_iucn()`.
...	Curl options passed to HttpClient.

Value

Red List citation as character string.

See Also

Red List information and statistics: `rl_api_version()`, `rl_sp_count()`, `rl_version()`

Examples

```
## Not run:
rl_citation()

## End(Not run)
```

---

rl_class   *Class assessment summary*

Description

Get an assessment summary for a particular class

Usage

```
rl_class(
  class = NULL,
  key = NULL,
  parse = TRUE,
  all = TRUE,
  page = 1,
  quiet = FALSE,
  ...
)

rl_class_(class = NULL, key = NULL, all = TRUE, page = 1, quiet = FALSE, ...)
```

Arguments

class	(character) The name of the class to look up. If not supplied, a list of all class names will be returned.
key	(character) An IUCN API token. See `rl_use_iucn()`.
parse	(logical) Whether to parse the output to list (`FALSE`) or, where possible, data.frame (`TRUE`). Default: `TRUE`.

all   (logical) Whether to retrieve all results at once or not. If TRUE we do the paging
                       internally for you and bind all of the results together. If FALSE, only a single
                       page of results will be retrieved.

page   (integer/numeric) Page to get if all is FALSE. Default: 1. Each page returns up
                       to 100 records. Paging is required because it's too much burden on a server to
                       just "get all the data" in one request.

quiet   (logical) Whether to suppress progress for multi-page downloads or not. De-
                       fault: FALSE (that is, give progress). Ignored if all = FALSE.

...   Includes the following filters that are supported by the API endpoint (refer to the
                       API docs for more information):

                         • year_published: (integer) Set this to return only assessments from a given
                           year.
                         • latest: (logical) Set this to TRUE to return only the latest assessment for
                           each taxon.
                         • scope_code: (integer) Set this to return only assessments from a particular
                           scope (e.g., 1 for Global, 2 for Europe). This is similar to the region
                           argument of the old Red List API and old versions of rredlist.

                       Also supports any curl options passed to the GET request via HttpClient.

Value

A list unless using a function with a trailing underscore, in which case json as character string is
returned.

References

API docs at `https://api.iucnredlist.org/`.

See Also

Assessments by taxa: `rl_family()`, `rl_kingdom()`, `rl_order()`, `rl_phylum()`, `rl_sis()`, `rl_sis_latest()`,
`rl_species()`, `rl_species_latest()`

Examples

```
## Not run:
# Get assessment summary for class
ex1 <- rl_class(class = "Mammalia")
nrow(ex1$assessments)

## End(Not run)
```

---

rl_comp_groups   *Comprehensive group assessment summary*

Description

Returns a list of the latest assessments for a comprehensive group name.

Usage

```
rl_comp_groups(
  name = NULL,
  key = NULL,
  parse = TRUE,
  all = TRUE,
  page = 1,
  quiet = FALSE,
  ...
)

rl_comp_groups_(
  name = NULL,
  key = NULL,
  all = TRUE,
  page = 1,
  quiet = FALSE,
  ...
)
```

Arguments

name	(character) The code of the comprehensive group to look up. If not supplied, a list of all comprehensive groups will be returned.
key	(character) An IUCN API token. See rl_use_iucn().
parse	(logical) Whether to parse the output to list (FALSE) or, where possible, data.frame (TRUE). Default: TRUE.
all	(logical) Whether to retrieve all results at once or not. If TRUE we do the paging internally for you and bind all of the results together. If FALSE, only a single page of results will be retrieved.
page	(integer/numeric) Page to get if all is FALSE. Default: 1. Each page returns up to 100 records. Paging is required because it's too much burden on a server to just "get all the data" in one request.
quiet	(logical) Whether to suppress progress for multi-page downloads or not. Default: FALSE (that is, give progress). Ignored if all = FALSE.
...	Includes the following filters that are supported by the API endpoint (refer to the API docs for more information):

- year_published: (integer) Set this to return only assessments from a given year.
- latest: (logical) Set this to TRUE to return only the latest assessment for each taxon.
- scope_code: (integer) Set this to return only assessments from a particular scope (e.g., 1 for Global, 2 for Europe). This is similar to the region argument of the old Red List API and old versions of rredlist.

Also supports any curl options passed to the GET request via HttpClient.

Value

A list unless using a function with a trailing underscore, in which case json as character string is returned.

References

API docs at `https://api.iucnredlist.org/`.

See Also

Assessments for specific sets of taxa `rl_extinct()`, `rl_extinct_wild()`, `rl_green()`, `rl_growth_forms()`

Examples

```
## Not run:
# Get list of all comprehensive groups
rl_comp_groups()
# Get assessment summary for sea snakes
rl_comp_groups('seasnakes')

## End(Not run)
```

---

rl_countries   *Country assessment summary*

Description

Returns a collection of assessments for a given country code.

Usage

```
rl_countries(
  code = NULL,
  key = NULL,
  parse = TRUE,
  all = TRUE,
  page = 1,
  quiet = FALSE,
```

```
  ...
)

rl_countries_(
  code = NULL,
  key = NULL,
  all = TRUE,
  page = 1,
  quiet = FALSE,
  ...
)
```

Arguments

code	(character) The ISO alpha-2 code of the country to look up. If not supplied, a list of all countries will be returned.
key	(character) An IUCN API token. See `rl_use_iucn()`.
parse	(logical) Whether to parse the output to list (`FALSE`) or, where possible, data.frame (`TRUE`). Default: `TRUE`.
all	(logical) Whether to retrieve all results at once or not. If `TRUE` we do the paging internally for you and bind all of the results together. If `FALSE`, only a single page of results will be retrieved.
page	(integer/numeric) Page to get if `all` is `FALSE`. Default: 1. Each page returns up to 100 records. Paging is required because it's too much burden on a server to just "get all the data" in one request.
quiet	(logical) Whether to suppress progress for multi-page downloads or not. Default: `FALSE` (that is, give progress). Ignored if `all = FALSE`.
...	Includes the following filters that are supported by the API endpoint (refer to the [API docs](#) for more information):

- `year_published`: (integer) Set this to return only assessments from a given year.
- `latest`: (logical) Set this to `TRUE` to return only the latest assessment for each taxon.
- `scope_code`: (integer) Set this to return only assessments from a particular [scope](#) (e.g., 1 for Global, 2 for Europe). This is similar to the `region` argument of the old Red List API and old versions of rredlist.

Also supports any [curl options](#) passed to the GET request via [HttpClient](#).

Value

A list unless using a function with a trailing underscore, in which case json as character string is returned.

References

API docs at <https://api.iucnredlist.org/>.

See Also

Assessments by geographic regions: `rl_faos()`, `rl_realms()`, `rl_scopes()`

Examples

```
## Not run:
# Get list of all countries
rl_countries()
# Get assessments for Madagascar
rl_countries("MG")

## End(Not run)
```

---

rl_extinct   *Extinct taxa assessment summary*

Description

Get an assessment summary for all possibly extinct taxa

Usage

```
rl_extinct(key = NULL, parse = TRUE, all = TRUE, page = 1, quiet = FALSE, ...)

rl_extinct_(key = NULL, all = TRUE, page = 1, quiet = FALSE, ...)
```

Arguments

key	(character) An IUCN API token. See `rl_use_iucn()`.
parse	(logical) Whether to parse the output to list (FALSE) or, where possible, data.frame (TRUE). Default: TRUE.
all	(logical) Whether to retrieve all results at once or not. If TRUE we do the paging internally for you and bind all of the results together. If FALSE, only a single page of results will be retrieved.
page	(integer/numeric) Page to get if all is FALSE. Default: 1. Each page returns up to 100 records. Paging is required because it's too much burden on a server to just "get all the data" in one request.
quiet	(logical) Whether to suppress progress for multi-page downloads or not. Default: FALSE (that is, give progress). Ignored if all = FALSE.
...	Curl options passed to the GET request via cruls.

Value

A list unless using a function with a trailing underscore, in which case json as character string is returned.

References

API docs at <https://api.iucnredlist.org/>.

See Also

Assessments for specific sets of taxa `rl_comp_groups()`, `rl_extinct_wild()`, `rl_green()`, `rl_growth_forms()`

Examples

```
## Not run:
ex1 <- rl_extinct()
nrow(ex1$assessments)

## End(Not run)
```

`rl_extinct_wild`   *Extinct taxa in the wild assessment summary*

Description

Get an assessment summary for all taxa that are possibly extinct in the wild

Usage

```
rl_extinct_wild(
  key = NULL,
  parse = TRUE,
  all = TRUE,
  page = 1,
  quiet = FALSE,
  ...
)

rl_extinct_wild_(key = NULL, all = TRUE, page = 1, quiet = FALSE, ...)
```

Arguments

key	(character) An IUCN API token. See `rl_use_iucn()`.
parse	(logical) Whether to parse the output to list (FALSE) or, where possible, data.frame (TRUE). Default: TRUE.
all	(logical) Whether to retrieve all results at once or not. If TRUE we do the paging internally for you and bind all of the results together. If FALSE, only a single page of results will be retrieved.
page	(integer/numeric) Page to get if all is FALSE. Default: 1. Each page returns up to 100 records. Paging is required because it's too much burden on a server to just "get all the data" in one request.

| quiet | (logical) Whether to suppress progress for multi-page downloads or not. Default: FALSE (that is, give progress). Ignored if all = FALSE. |
| ... | Curl options passed to the GET request via cruls. |

Value

A list unless using a function with a trailing underscore, in which case json as character string is returned.

References

API docs at https://api.iucnredlist.org/.

See Also

Assessments for specific sets of taxa rl_comp_groups(), rl_extinct(), rl_green(), rl_growth_forms()

Examples

```
## Not run:
ex1 <- rl_extinct_wild()
nrow(ex1$assessments)

## End(Not run)
```

---

rl_family   *Family assessment summary*

Description

Get an assessment summary for a particular family

Usage

```
rl_family(
  family = NULL,
  key = NULL,
  parse = TRUE,
  all = TRUE,
  page = 1,
  quiet = FALSE,
  ...
)

rl_family_(family = NULL, key = NULL, all = TRUE, page = 1, quiet = FALSE, ...)
```

Arguments

family	(character) The name of the family to look up. If not supplied, a list of all family names will be returned.
key	(character) An IUCN API token. See rl_use_iucn().
parse	(logical) Whether to parse the output to list (FALSE) or, where possible, data.frame (TRUE). Default: TRUE.
all	(logical) Whether to retrieve all results at once or not. If TRUE we do the paging internally for you and bind all of the results together. If FALSE, only a single page of results will be retrieved.
page	(integer/numeric) Page to get if all is FALSE. Default: 1. Each page returns up to 100 records. Paging is required because it's too much burden on a server to just "get all the data" in one request.
quiet	(logical) Whether to suppress progress for multi-page downloads or not. Default: FALSE (that is, give progress). Ignored if all = FALSE.
...	Includes the following filters that are supported by the API endpoint (refer to the API docs for more information):

- year_published: (integer) Set this to return only assessments from a given year.
- latest: (logical) Set this to TRUE to return only the latest assessment for each taxon.
- scope_code: (integer) Set this to return only assessments from a particular scope (e.g., 1 for Global, 2 for Europe). This is similar to the region argument of the old Red List API and old versions of rredlist.

Also supports any curl options passed to the GET request via HttpClient.

Value

A list unless using a function with a trailing underscore, in which case json as character string is returned.

References

API docs at https://api.iucnredlist.org/.

See Also

Assessments by taxa: rl_class(), rl_kingdom(), rl_order(), rl_phylum(), rl_sis(), rl_sis_latest(), rl_species(), rl_species_latest()

Examples

```
## Not run:
# Get assessment summary for family
ex1 <- rl_family(family = "Hominidae")
nrow(ex1$assessments)

## End(Not run)
```

rl_faos   *FAO marine fishing region assessment summary*

Description

Return assessments for a given marine fishing region as defined by the Food and Agriculture Organization (FAO) of the United Nations (e.g., Pacific - northwest, Arctic Sea). More details are available here: <https://www.fao.org/fishery/en/area>.

Usage

```
rl_faos(
  code = NULL,
  key = NULL,
  parse = TRUE,
  all = TRUE,
  page = 1,
  quiet = FALSE,
  ...
)

rl_faos_(code = NULL, key = NULL, all = TRUE, page = 1, quiet = FALSE, ...)
```

Arguments

code	(character) The code of the FAO region to look up. If not supplied, a list of all FAO regions will be returned.
key	(character) An IUCN API token. See `rl_use_iucn()`.
parse	(logical) Whether to parse the output to list (FALSE) or, where possible, data.frame (TRUE). Default: TRUE.
all	(logical) Whether to retrieve all results at once or not. If TRUE we do the paging internally for you and bind all of the results together. If FALSE, only a single page of results will be retrieved.
page	(integer/numeric) Page to get if all is FALSE. Default: 1. Each page returns up to 100 records. Paging is required because it's too much burden on a server to just "get all the data" in one request.
quiet	(logical) Whether to suppress progress for multi-page downloads or not. Default: FALSE (that is, give progress). Ignored if all = FALSE.
...	Includes the following filters that are supported by the API endpoint (refer to the [API docs](#) for more information):

  - year_published: (integer) Set this to return only assessments from a given year.
  - latest: (logical) Set this to TRUE to return only the latest assessment for each taxon.

- scope_code: (integer) Set this to return only assessments from a particular scope (e.g., 1 for Global, 2 for Europe). This is similar to the region argument of the old Red List API and old versions of rredlist.

Also supports any curl options passed to the GET request via HttpClient.

Value

A list unless using a function with a trailing underscore, in which case json as character string is returned.

References

API docs at `https://api.iucnredlist.org/`.

See Also

Assessments by geographic regions: `rl_countries()`, `rl_realms()`, `rl_scopes()`

Examples

```
## Not run:
# Get a list of all scopes
rl_faos()
# Get assessment summary for the Arctic Sea FAO region
rl_faos(code = "18")

## End(Not run)
```

`rl_green`   *Green Status assessment summary*

Description

List all Green Status assessments.

Usage

```
rl_green(key = NULL, parse = TRUE, ...)

rl_green_(key = NULL, ...)
```

Arguments

key	(character) An IUCN API token. See `rl_use_iucn()`.
parse	(logical) Whether to parse the output to list (`FALSE`) or, where possible, data.frame (`TRUE`). Default: `TRUE`.
...	Curl options passed to the GET request via cruls.

Value

A list unless using a function with a trailing underscore, in which case json as character string is returned.

References

API docs at https://api.iucnredlist.org/.

See Also

Assessments for specific sets of taxa rl_comp_groups(), rl_extinct(), rl_extinct_wild(), rl_growth_forms()

Examples

```
## Not run:
# Get list of Green Status assessments
rl_green()

## End(Not run)
```

---

rl_growth_forms   *Growth form assessment summary*

Description

Returns a list of the latest assessments for a given growth form code.

Usage

```
rl_growth_forms(
  code = NULL,
  key = NULL,
  parse = TRUE,
  all = TRUE,
  page = 1,
  quiet = FALSE,
  ...
)

rl_growth_forms_(
  code = NULL,
  key = NULL,
  all = TRUE,
  page = 1,
  quiet = FALSE,
  ...
)
```

Arguments

code	(character) The code of the growth form to look up. If not supplied, a list of all growth forms will be returned.
key	(character) An IUCN API token. See `rl_use_iucn()`.
parse	(logical) Whether to parse the output to list (FALSE) or, where possible, data.frame (TRUE). Default: TRUE.
all	(logical) Whether to retrieve all results at once or not. If TRUE we do the paging internally for you and bind all of the results together. If FALSE, only a single page of results will be retrieved.
page	(integer/numeric) Page to get if all is FALSE. Default: 1. Each page returns up to 100 records. Paging is required because it's too much burden on a server to just "get all the data" in one request.
quiet	(logical) Whether to suppress progress for multi-page downloads or not. Default: FALSE (that is, give progress). Ignored if all = FALSE.
...	Includes the following filters that are supported by the API endpoint (refer to the API docs for more information):

- `year_published`: (integer) Set this to return only assessments from a given year.
- `latest`: (logical) Set this to TRUE to return only the latest assessment for each taxon.
- `scope_code`: (integer) Set this to return only assessments from a particular scope (e.g., 1 for Global, 2 for Europe). This is similar to the `region` argument of the old Red List API and old versions of rredlist.

Also supports any curl options passed to the GET request via HttpClient.

Value

A list unless using a function with a trailing underscore, in which case json as character string is returned.

References

API docs at `https://api.iucnredlist.org/`.

See Also

Assessments for specific sets of taxa `rl_comp_groups()`, `rl_extinct()`, `rl_extinct_wild()`, `rl_green()`

Examples

```
## Not run:
# Get list of all growth forms
rl_growth_forms()
# Get assessment summary for lichens
rl_growth_forms("LC")

## End(Not run)
```

---

rl_habitats   *Habitat assessment summary*

Description

Return the latest assessments for a given habitat (e.g., Forest - Temperate or Marine Intertidal).
These habitat codes correspond to the IUCN Red List Habitats Classification Scheme (v3.1).

Usage

```
rl_habitats(
  code = NULL,
  key = NULL,
  parse = TRUE,
  all = TRUE,
  page = 1,
  quiet = FALSE,
  ...
)

rl_habitats_(code = NULL, key = NULL, all = TRUE, page = 1, quiet = FALSE, ...)
```

Arguments

code	(character) The code of the habitat to look up. If not supplied, a list of all habitats will be returned.
key	(character) An IUCN API token. See `rl_use_iucn()`.
parse	(logical) Whether to parse the output to list (FALSE) or, where possible, data.frame (TRUE). Default: TRUE.
all	(logical) Whether to retrieve all results at once or not. If TRUE we do the paging internally for you and bind all of the results together. If FALSE, only a single page of results will be retrieved.
page	(integer/numeric) Page to get if all is FALSE. Default: 1. Each page returns up to 100 records. Paging is required because it's too much burden on a server to just "get all the data" in one request.
quiet	(logical) Whether to suppress progress for multi-page downloads or not. Default: FALSE (that is, give progress). Ignored if all = FALSE.
...	Includes the following filters that are supported by the API endpoint (refer to the API docs for more information):
• year_published: (integer) Set this to return only assessments from a given year.
• latest: (logical) Set this to TRUE to return only the latest assessment for each taxon.

- scope_code: (integer) Set this to return only assessments from a particular scope (e.g., 1 for Global, 2 for Europe). This is similar to the `region` argument of the old Red List API and old versions of rredlist.

Also supports any curl options passed to the GET request via HttpClient.

Value

A list unless using a function with a trailing underscore, in which case json as character string is returned.

References

API docs at `https://api.iucnredlist.org/`.

See Also

Assessments by habitats and systems: `rl_systems()`

Examples

```
## Not run:
# Get list of all habitats
rl_habitats()
# Get assessments for Marine Intertidal habitat
rl_habitats("12")

## End(Not run)
```

---

rl_kingdom   *Kingdom assessment summary*

Description

Get an assessment summary for a particular kingdom

Usage

```
rl_kingdom(
  kingdom = NULL,
  key = NULL,
  parse = TRUE,
  all = TRUE,
  page = 1,
  quiet = FALSE,
  ...
)

rl_kingdom_(
```

```
    kingdom = NULL,
    key = NULL,
    all = TRUE,
    page = 1,
    quiet = FALSE,
    ...
)
```

Arguments

kingdom	(character) The name of the kingdom to look up. If not supplied, a list of all kingdom names will be returned.
key	(character) An IUCN API token. See `rl_use_iucn()`.
parse	(logical) Whether to parse the output to list (FALSE) or, where possible, data.frame (TRUE). Default: TRUE.
all	(logical) Whether to retrieve all results at once or not. If TRUE we do the paging internally for you and bind all of the results together. If FALSE, only a single page of results will be retrieved.
page	(integer/numeric) Page to get if all is FALSE. Default: 1. Each page returns up to 100 records. Paging is required because it's too much burden on a server to just "get all the data" in one request.
quiet	(logical) Whether to suppress progress for multi-page downloads or not. Default: FALSE (that is, give progress). Ignored if all = FALSE.
...	Includes the following filters that are supported by the API endpoint (refer to the API docs for more information):

- year_published: (integer) Set this to return only assessments from a given year.
- latest: (logical) Set this to TRUE to return only the latest assessment for each taxon.
- scope_code: (integer) Set this to return only assessments from a particular scope (e.g., 1 for Global, 2 for Europe). This is similar to the region argument of the old Red List API and old versions of rredlist.

Also supports any curl options passed to the GET request via HttpClient.

Value

A list unless using a function with a trailing underscore, in which case json as character string is returned.

References

API docs at `https://api.iucnredlist.org/`.

See Also

Assessments by taxa: `rl_class()`, `rl_family()`, `rl_order()`, `rl_phylum()`, `rl_sis()`, `rl_sis_latest()`, `rl_species()`, `rl_species_latest()`

Examples

```
## Not run:
# Get assessment summary for kingdom
ex1 <- rl_kingdom(kingdom = "Fungi")
nrow(ex1$assessments)

## End(Not run)
```

---

rl_order   *Order assessment summary*

Description

Get an assessment summary for a particular order

Usage

```
rl_order(
  order = NULL,
  key = NULL,
  parse = TRUE,
  all = TRUE,
  page = 1,
  quiet = FALSE,
  ...
)

rl_order_(order = NULL, key = NULL, all = TRUE, page = 1, quiet = FALSE, ...)
```

Arguments

order	(character) The name of the order to look up. If not supplied, a list of all order names will be returned.
key	(character) An IUCN API token. See `rl_use_iucn()`.
parse	(logical) Whether to parse the output to list (FALSE) or, where possible, data.frame (TRUE). Default: TRUE.
all	(logical) Whether to retrieve all results at once or not. If TRUE we do the paging internally for you and bind all of the results together. If FALSE, only a single page of results will be retrieved.
page	(integer/numeric) Page to get if all is FALSE. Default: 1. Each page returns up to 100 records. Paging is required because it's too much burden on a server to just "get all the data" in one request.
quiet	(logical) Whether to suppress progress for multi-page downloads or not. Default: FALSE (that is, give progress). Ignored if all = FALSE.
...	Includes the following filters that are supported by the API endpoint (refer to the API docs for more information):

- year_published: (integer) Set this to return only assessments from a given year.
- latest: (logical) Set this to TRUE to return only the latest assessment for each taxon.
- scope_code: (integer) Set this to return only assessments from a particular scope (e.g., 1 for Global, 2 for Europe). This is similar to the region argument of the old Red List API and old versions of rredlist.

Also supports any curl options passed to the GET request via HttpClient.

Value

A list unless using a function with a trailing underscore, in which case json as character string is returned.

References

API docs at https://api.iucnredlist.org/.

See Also

Assessments by taxa: `rl_class()`, `rl_family()`, `rl_kingdom()`, `rl_phylum()`, `rl_sis()`, `rl_sis_latest()`, `rl_species()`, `rl_species_latest()`

Examples

```
## Not run:
# Get assessment summary for order
ex1 <- rl_order(order = "Apiales")
nrow(ex1$assessments)

## End(Not run)
```

---

rl_phylum   *Phylum assessment summary*

Description

Get an assessment summary for a particular phylum

Usage

```
rl_phylum(
  phylum = NULL,
  key = NULL,
  parse = TRUE,
  all = TRUE,
  page = 1,
  quiet = FALSE,
```

```
  ...
)
```

```
rl_phylum_(phylum = NULL, key = NULL, all = TRUE, page = 1, quiet = FALSE, ...)
```

Arguments

phylum	(character) The name of the phylum to look up. If not supplied, a list of all phylum names will be returned.
key	(character) An IUCN API token. See `rl_use_iucn()`.
parse	(logical) Whether to parse the output to list (FALSE) or, where possible, data.frame (TRUE). Default: TRUE.
all	(logical) Whether to retrieve all results at once or not. If TRUE we do the paging internally for you and bind all of the results together. If FALSE, only a single page of results will be retrieved.
page	(integer/numeric) Page to get if all is FALSE. Default: 1. Each page returns up to 100 records. Paging is required because it's too much burden on a server to just "get all the data" in one request.
quiet	(logical) Whether to suppress progress for multi-page downloads or not. Default: FALSE (that is, give progress). Ignored if all = FALSE.
...	Includes the following filters that are supported by the API endpoint (refer to the API docs for more information):

- `year_published`: (integer) Set this to return only assessments from a given year.
- `latest`: (logical) Set this to TRUE to return only the latest assessment for each taxon.
- `scope_code`: (integer) Set this to return only assessments from a particular scope (e.g., 1 for Global, 2 for Europe). This is similar to the `region` argument of the old Red List API and old versions of rredlist.

Also supports any curl options passed to the GET request via HttpClient.

Value

A list unless using a function with a trailing underscore, in which case json as character string is returned.

References

API docs at `https://api.iucnredlist.org/`.

See Also

Assessments by taxa: `rl_class()`, `rl_family()`, `rl_kingdom()`, `rl_order()`, `rl_sis()`, `rl_sis_latest()`, `rl_species()`, `rl_species_latest()`

Examples

```
## Not run:
# Get assessment summary for phylum
ex1 <- rl_phylum(phylum = "Annelida`")
nrow(ex1$assessments)

## End(Not run)
```

---

rl_pop_trends *Population trend assessment summary*

Description

Return a list of the latest assessments based on a population trend (i.e. increasing, decreasing, stable or unknown).

Usage

```
rl_pop_trends(
  code = NULL,
  key = NULL,
  parse = TRUE,
  all = TRUE,
  page = 1,
  quiet = FALSE,
  ...
)

rl_pop_trends_(
  code = NULL,
  key = NULL,
  all = TRUE,
  page = 1,
  quiet = FALSE,
  ...
)
```

Arguments

code	(character) The code of the growth form to look up. If not supplied, a list of all growth forms will be returned.
key	(character) An IUCN API token. See [rl_use_iucn()](#).
parse	(logical) Whether to parse the output to list (FALSE) or, where possible, data.frame (TRUE). Default: TRUE.
all	(logical) Whether to retrieve all results at once or not. If TRUE we do the paging internally for you and bind all of the results together. If FALSE, only a single page of results will be retrieved.

page   (integer/numeric) Page to get if `all` is `FALSE`. Default: 1. Each page returns up
                        to 100 records. Paging is required because it's too much burden on a server to
                        just "get all the data" in one request.

quiet   (logical) Whether to suppress progress for multi-page downloads or not. De-
                        fault: `FALSE` (that is, give progress). Ignored if `all = FALSE`.

...   Includes the following filters that are supported by the API endpoint (refer to the
                        API docs for more information):

                        • `year_published`: (integer) Set this to return only assessments from a given
                          year.
                        • `latest`: (logical) Set this to `TRUE` to return only the latest assessment for
                          each taxon.
                        • `scope_code`: (integer) Set this to return only assessments from a particular
                          scope (e.g., 1 for Global, 2 for Europe). This is similar to the `region`
                          argument of the old Red List API and old versions of rredlist.

                        Also supports any curl options passed to the GET request via HttpClient.

Value

A list unless using a function with a trailing underscore, in which case json as character string is
returned.

References

API docs at `https://api.iucnredlist.org/`.

See Also

Assessments by threat details: `rl_categories()`, `rl_stresses()`, `rl_threats()`, `rl_use_and_trade()`

Examples

```
## Not run:
# Get list of all population trends
rl_pop_trends()
# Get assessment summary for stable population trends
rl_pop_trends("2")

## End(Not run)
```

---

rl_realms   *Biogeographical realm assessment summary*

Description

Get an assessment summary for a particular biogeographical realm (e.g., Neotropical or Palearctic).

Usage

```
rl_realms(
  code = NULL,
  key = NULL,
  parse = TRUE,
  all = TRUE,
  page = 1,
  quiet = FALSE,
  ...
)

rl_realms_(code = NULL, key = NULL, all = TRUE, page = 1, quiet = FALSE, ...)
```

Arguments

code	(character) The code of the biogeographical realm to look up. If not supplied, a list of all biogeographical realms will be returned.
key	(character) An IUCN API token. See `rl_use_iucn()`.
parse	(logical) Whether to parse the output to list (`FALSE`) or, where possible, data.frame (`TRUE`). Default: `TRUE`.
all	(logical) Whether to retrieve all results at once or not. If `TRUE` we do the paging internally for you and bind all of the results together. If `FALSE`, only a single page of results will be retrieved.
page	(integer/numeric) Page to get if `all` is `FALSE`. Default: 1. Each page returns up to 100 records. Paging is required because it's too much burden on a server to just "get all the data" in one request.
quiet	(logical) Whether to suppress progress for multi-page downloads or not. Default: `FALSE` (that is, give progress). Ignored if `all = FALSE`.
...	Includes the following filters that are supported by the API endpoint (refer to the API docs for more information):

- `year_published`: (integer) Set this to return only assessments from a given year.
- `latest`: (logical) Set this to `TRUE` to return only the latest assessment for each taxon.
- `scope_code`: (integer) Set this to return only assessments from a particular scope (e.g., 1 for Global, 2 for Europe). This is similar to the `region` argument of the old Red List API and old versions of rredlist.

Also supports any curl options passed to the GET request via HttpClient.

Value

A list unless using a function with a trailing underscore, in which case json as character string is returned.

References

API docs at https://api.iucnredlist.org/.

See Also

Assessments by geographic regions: `rl_countries()`, `rl_faos()`, `rl_scopes()`

Examples

```
## Not run:
# Get a list of all biogeographical realms
rl_realms()
# Get assessment summary for the Afrotropical biogeographical realm
rl_realms(code = "0")

## End(Not run)
```

---

rl_research   *Research needed assessment summary*

Description

Return the latest assessments with a given research needed (e.g., Taxonomy or Population trends). These research codes correspond to the IUCN Red List Research Needed Classification Scheme (v1.0).

Usage

```
rl_research(
  code = NULL,
  key = NULL,
  parse = TRUE,
  all = TRUE,
  page = 1,
  quiet = FALSE,
  ...
)

rl_research_(code = NULL, key = NULL, all = TRUE, page = 1, quiet = FALSE, ...)
```

Arguments

code	(character) The code of the research type to look up. If not supplied, a list of all research types will be returned.
key	(character) An IUCN API token. See `rl_use_iucn()`.
parse	(logical) Whether to parse the output to list (FALSE) or, where possible, data.frame (TRUE). Default: TRUE.
all	(logical) Whether to retrieve all results at once or not. If TRUE we do the paging internally for you and bind all of the results together. If FALSE, only a single page of results will be retrieved.

page	(integer/numeric) Page to get if `all` is `FALSE`. Default: 1. Each page returns up to 100 records. Paging is required because it's too much burden on a server to just "get all the data" in one request.
quiet	(logical) Whether to suppress progress for multi-page downloads or not. Default: `FALSE` (that is, give progress). Ignored if `all = FALSE`.
...	Includes the following filters that are supported by the API endpoint (refer to the API docs for more information):

- `year_published`: (integer) Set this to return only assessments from a given year.
- `latest`: (logical) Set this to `TRUE` to return only the latest assessment for each taxon.
- `scope_code`: (integer) Set this to return only assessments from a particular scope (e.g., 1 for Global, 2 for Europe). This is similar to the `region` argument of the old Red List API and old versions of rredlist.

Also supports any curl options passed to the GET request via HttpClient.

Value

A list unless using a function with a trailing underscore, in which case json as character string is returned.

References

API docs at `https://api.iucnredlist.org/`.

See Also

Assessments by conservation actions or research needed: `rl_actions()`

Examples

```
## Not run:
# Get list of all research types
rl_research()
# Get assessments with Taxonomy research needed
rl_research("1_1")

## End(Not run)
```

`rl_scopes`	*Scope assessment summary*

Description

Return assessments for a given geographical assessment scope (e.g., Global, Mediterranean). This is similar to the `region` argument of the old Red List API and old versions of rredlist.

Usage

```
rl_scopes(
  code = NULL,
  key = NULL,
  parse = TRUE,
  all = TRUE,
  page = 1,
  quiet = FALSE,
  ...
)

rl_scopes_(code = NULL, key = NULL, all = TRUE, page = 1, quiet = FALSE, ...)
```

Arguments

code	(character) The code of the scope to look up. If not supplied, a list of all scopes will be returned.
key	(character) An IUCN API token. See `rl_use_iucn()`.
parse	(logical) Whether to parse the output to list (FALSE) or, where possible, data.frame (TRUE). Default: TRUE.
all	(logical) Whether to retrieve all results at once or not. If TRUE we do the paging internally for you and bind all of the results together. If FALSE, only a single page of results will be retrieved.
page	(integer/numeric) Page to get if all is FALSE. Default: 1. Each page returns up to 100 records. Paging is required because it's too much burden on a server to just "get all the data" in one request.
quiet	(logical) Whether to suppress progress for multi-page downloads or not. Default: FALSE (that is, give progress). Ignored if all = FALSE.
...	Includes the following filters that are supported by the API endpoint (refer to the API docs for more information):

- year_published: (integer) Set this to return only assessments from a given year.
- latest: (logical) Set this to TRUE to return only the latest assessment for each taxon.
- scope_code: (integer) Set this to return only assessments from a particular scope (e.g., 1 for Global, 2 for Europe). This is similar to the region argument of the old Red List API and old versions of rredlist.

Also supports any curl options passed to the GET request via HttpClient.

Value

A list unless using a function with a trailing underscore, in which case json as character string is returned.

References

API docs at https://api.iucnredlist.org/.

See Also

Assessments by geographic regions: `rl_countries()`, `rl_faos()`, `rl_realms()`

Examples

```
## Not run:
# Get a list of all scopes
rl_scopes()
# Get assessment summary for the Gulf of Mexico scope
rl_scopes(code = "45433062")

## End(Not run)
```

---

rl_sis   *SIS ID assessment summary*

Description

Get an assessment summary for a particular taxonomic entity based on its ID number from the
IUCN Species Information Service (SIS).

Usage

```
rl_sis(id, key = NULL, parse = TRUE, ...)

rl_sis_(id, key = NULL, ...)
```

Arguments

id	(integer) The SIS ID of the taxonomic entity to look up.
key	(character) An IUCN API token. See `rl_use_iucn()`.
parse	(logical) Whether to parse the output to list (FALSE) or, where possible, data.frame (TRUE). Default: TRUE.
...	Curl options passed to the GET request via cruls.

Value

A list unless using a function with a trailing underscore, in which case json as character string is
returned.

References

API docs at `https://api.iucnredlist.org/`.

See Also

Assessments by taxa: `rl_class()`, `rl_family()`, `rl_kingdom()`, `rl_order()`, `rl_phylum()`,
`rl_sis_latest()`, `rl_species()`, `rl_species_latest()`

Examples

```
## Not run:
# Get assessment summary for species
ex1 <- rl_sis(id = 9404)
nrow(ex1$assessments)

## End(Not run)
```

---

rl_sis_latest   *SIS ID latest assessment*

Description

Get the latest assessment for a particular taxonomic entity based on its ID number from the IUCN Species Information Service (SIS). Wraps `rl_sis()` and `rl_assessment()`.

Usage

```
rl_sis_latest(id, key = NULL, parse = TRUE, ...)
```

Arguments

id	(integer) The SIS ID of the taxonomic entity to look up.
key	(character) An IUCN API token. See `rl_use_iucn()`.
parse	(logical) Whether to parse the output to list (`FALSE`) or, where possible, data.frame (`TRUE`). Default: `TRUE`.
...	Curl options passed to the GET request via cruls.

Value

A list unless using a function with a trailing underscore, in which case json as character string is returned.

References

API docs at `https://api.iucnredlist.org/`.

See Also

Assessments by taxa: `rl_class()`, `rl_family()`, `rl_kingdom()`, `rl_order()`, `rl_phylum()`, `rl_sis()`, `rl_species()`, `rl_species_latest()`

Examples

```
## Not run:
# Get latest assessment for species
ex1 <- rl_sis_latest(id = 9404)
ex1$stresses

## End(Not run)
```

---

rl_species   *Species assessment summary*

Description

Get an assessment summary for a particular species (i.e., Latin binomial) or subspecies/variety/subpopulation (i.e., Latin trinomial).

Usage

```
rl_species(
  genus,
  species,
  infra = NULL,
  subpopulation = NULL,
  key = NULL,
  parse = TRUE,
  ...
)

rl_species_(
  genus,
  species,
  infra = NULL,
  subpopulation = NULL,
  key = NULL,
  ...
)
```

Arguments

genus	(character) The genus name of the species to look up.
species	(character) The species epithet of the species to look up.
infra	(character) An optional name of the subspecies or variety to look up.
subpopulation	(character) An optional name of the geographically separate subpopulation to look up.
key	(character) An IUCN API token. See `rl_use_iucn()`.

parse   (logical) Whether to parse the output to list (FALSE) or, where possible, data.frame
                   (TRUE). Default: TRUE.

...   Curl options passed to the GET request via cruls.

Details

Geographically separate subpopulations of a species are defined as those populations that are so
isolated from others of the same species that it is considered extremely unlikely that there is any
genetic interchange. In general, listings of such subpopulations are restricted to those that have
been isolated for a long period of time.

Assessments of subspecies, varieties, and geographically separate subpopulations must adhere to
the same standards as for species assessments. However, these assessments are only included pro-
vided there is a global assessment of the species as a whole.

Infraspecific ranks such as formas, subvarieties, cultivars, etc are not included in the Red List.

Value

A list unless using a function with a trailing underscore, in which case json as character string is
returned.

References

API docs at https://api.iucnredlist.org/.

See Also

Assessments by taxa: rl_class(), rl_family(), rl_kingdom(), rl_order(), rl_phylum(),
rl_sis(), rl_sis_latest(), rl_species_latest()

Examples

```
## Not run:
# Get assessment summary for species
ex1 <- rl_species(genus = "Fratercula", species = "arctica")
nrow(ex1$assessments)

# Get assessment summary for subspecies
ex2 <- rl_species(genus = "Gorilla", species = "gorilla",
                  infra = "gorilla")
nrow(ex2$assessments)

## End(Not run)
```

rl_species_latest *Species latest assessment*

Description

Get the latest assessment for a particular species (i.e., Latin binomial) or subspecies/variety/subpopulation (i.e., Latin trinomial). Wraps `rl_species()` and `rl_assessment()`.

Usage

```
rl_species_latest(
  genus,
  species,
  infra = NULL,
  subpopulation = NULL,
  key = NULL,
  parse = TRUE,
  ...
)
```

Arguments

genus   (character) The genus name of the species to look up.

species   (character) The species epithet of the species to look up.

infra   (character) An optional name of the subspecies or variety to look up.

subpopulation   (character) An optional name of the geographically separate subpopulation to look up.

key   (character) An IUCN API token. See `rl_use_iucn()`.

parse   (logical) Whether to parse the output to list (FALSE) or, where possible, data.frame (TRUE). Default: TRUE.

...   [Curl options](#) passed to the GET request via [cruls](#).

Details

Geographically separate subpopulations of a species are defined as those populations that are so isolated from others of the same species that it is considered extremely unlikely that there is any genetic interchange. In general, listings of such subpopulations are restricted to those that have been isolated for a long period of time.

Assessments of subspecies, varieties, and geographically separate subpopulations must adhere to the same standards as for species assessments. However, these assessments are only included provided there is a global assessment of the species as a whole.

Infraspecific ranks such as formas, subvarieties, cultivars, etc are not included in the Red List.

Value

A list unless using a function with a trailing underscore, in which case json as character string is returned.

References

API docs at https://api.iucnredlist.org/.

See Also

Assessments by taxa: rl_class(), rl_family(), rl_kingdom(), rl_order(), rl_phylum(), rl_sis(), rl_sis_latest(), rl_species()

Examples

```
## Not run:
# Get latest assessment for species
ex1 <- rl_species_latest(genus = "Fratercula", species = "arctica")
ex1$stresses

# Get latest assessment for subspecies
ex2 <- rl_species_latest(genus = "Gorilla", species = "gorilla",
                         infra = "gorilla")
ex2$stresses

## End(Not run)
```

---

rl_sp_count   *Get count of species in the Red List*

Description

Returns a count of the number of unique species which have assessments.

Usage

```
rl_sp_count(key = NULL, ...)

rl_sp_count_(key = NULL, ...)
```

Arguments

key   (character) An IUCN API token. See rl_use_iucn().

...   Curl options passed to HttpClient

Value

A list unless using a function with a trailing underscore, in which case json as character string is returned.

References

API docs at <https://api.iucnredlist.org/>.

See Also

Red List information and statistics: `rl_api_version()`, `rl_citation()`, `rl_version()`

Examples

```
## Not run:
# Get count of species with assessments
rl_sp_count()

## End(Not run)
```

---

rl_stresses   *Stress assessment summary*

Description

Return a list of the latest assessments based on the stresses species are subject to (e.g., Ecosystem degradation, species disturbance, etc.).

Usage

```
rl_stresses(
  code = NULL,
  key = NULL,
  parse = TRUE,
  all = TRUE,
  page = 1,
  quiet = FALSE,
  ...
)

rl_stresses_(code = NULL, key = NULL, all = TRUE, page = 1, quiet = FALSE, ...)
```

Arguments

code	(character) The code of the stress to look up. If not supplied, a list of all stresses will be returned.
key	(character) An IUCN API token. See `rl_use_iucn()`.
parse	(logical) Whether to parse the output to list (FALSE) or, where possible, data.frame (TRUE). Default: TRUE.
all	(logical) Whether to retrieve all results at once or not. If TRUE we do the paging internally for you and bind all of the results together. If FALSE, only a single page of results will be retrieved.

page	(integer/numeric) Page to get if `all` is `FALSE`. Default: 1. Each page returns up to 100 records. Paging is required because it's too much burden on a server to just "get all the data" in one request.
quiet	(logical) Whether to suppress progress for multi-page downloads or not. Default: `FALSE` (that is, give progress). Ignored if `all = FALSE`.
...	Includes the following filters that are supported by the API endpoint (refer to the API docs for more information):

- `year_published`: (integer) Set this to return only assessments from a given year.
- `latest`: (logical) Set this to `TRUE` to return only the latest assessment for each taxon.
- `scope_code`: (integer) Set this to return only assessments from a particular scope (e.g., 1 for Global, 2 for Europe). This is similar to the `region` argument of the old Red List API and old versions of rredlist.

Also supports any curl options passed to the GET request via HttpClient.

Value

A list unless using a function with a trailing underscore, in which case json as character string is returned.

References

API docs at `https://api.iucnredlist.org/`.

See Also

Assessments by threat details: `rl_categories()`, `rl_pop_trends()`, `rl_threats()`, `rl_use_and_trade()`

Examples

```
## Not run:
# Get all stresses
rl_stresses()
# Get assessment summary for ecosystem degradation stress
rl_stresses("1_2")

## End(Not run)
```

---

rl_systems   *System assessment summary*

Description

Return the latest assessments for a given system (e.g., terrestrial, freshwater or marine).

Usage

```
rl_systems(
  code = NULL,
  key = NULL,
  parse = TRUE,
  all = TRUE,
  page = 1,
  quiet = FALSE,
  ...
)

rl_systems_(code = NULL, key = NULL, all = TRUE, page = 1, quiet = FALSE, ...)
```

Arguments

code	(character) The code of the system to look up. If not supplied, a list of all systems will be returned.
key	(character) An IUCN API token. See `rl_use_iucn()`.
parse	(logical) Whether to parse the output to list (`FALSE`) or, where possible, data.frame (`TRUE`). Default: `TRUE`.
all	(logical) Whether to retrieve all results at once or not. If `TRUE` we do the paging internally for you and bind all of the results together. If `FALSE`, only a single page of results will be retrieved.
page	(integer/numeric) Page to get if `all` is `FALSE`. Default: 1. Each page returns up to 100 records. Paging is required because it's too much burden on a server to just "get all the data" in one request.
quiet	(logical) Whether to suppress progress for multi-page downloads or not. Default: `FALSE` (that is, give progress). Ignored if `all = FALSE`.
...	Includes the following filters that are supported by the API endpoint (refer to the [API docs](#) for more information):

- year_published: (integer) Set this to return only assessments from a given year.
- latest: (logical) Set this to `TRUE` to return only the latest assessment for each taxon.
- scope_code: (integer) Set this to return only assessments from a particular [scope](#) (e.g., 1 for Global, 2 for Europe). This is similar to the `region` argument of the old Red List API and old versions of rredlist.

Also supports any [curl options](#) passed to the GET request via [HttpClient](#).

Value

A list unless using a function with a trailing underscore, in which case json as character string is returned.

References

API docs at <https://api.iucnredlist.org/>.

See Also

Assessments by habitats and systems: `rl_habitats()`

Examples

```
## Not run:
# Get list of all systems
rl_systems()
# Get assessment summary for marine system
rl_systems("2")

## End(Not run)
```

Description

Return a list of the latest assessments which are subject to a specific threat (e.g., energy production and mining, climate change, and severe weather). This will only return assessments for the threat code specified. You will need to do additional requests for sub-threats (e.g., a request for threat code 2_1 will need additional requests for codes 2_1_1, 2_1_2, etc.).

Usage

```
rl_threats(
  code = NULL,
  key = NULL,
  parse = TRUE,
  all = TRUE,
  page = 1,
  quiet = FALSE,
  ...
)

rl_threats_(code = NULL, key = NULL, all = TRUE, page = 1, quiet = FALSE, ...)
```

Arguments

code	(character) The code of the threat to look up. If not supplied, a list of all threats will be returned.
key	(character) An IUCN API token. See `rl_use_iucn()`.
parse	(logical) Whether to parse the output to list (FALSE) or, where possible, data.frame (TRUE). Default: TRUE.
all	(logical) Whether to retrieve all results at once or not. If TRUE we do the paging internally for you and bind all of the results together. If FALSE, only a single page of results will be retrieved.

page	(integer/numeric) Page to get if `all` is `FALSE`. Default: 1. Each page returns up to 100 records. Paging is required because it's too much burden on a server to just "get all the data" in one request.
quiet	(logical) Whether to suppress progress for multi-page downloads or not. Default: `FALSE` (that is, give progress). Ignored if `all = FALSE`.
...	Includes the following filters that are supported by the API endpoint (refer to the [API docs](#) for more information):

- `year_published`: (integer) Set this to return only assessments from a given year.
- `latest`: (logical) Set this to `TRUE` to return only the latest assessment for each taxon.
- `scope_code`: (integer) Set this to return only assessments from a particular [scope](#) (e.g., 1 for Global, 2 for Europe). This is similar to the `region` argument of the old Red List API and old versions of rredlist.

Also supports any [curl options](#) passed to the GET request via [HttpClient](#).

Value

A list unless using a function with a trailing underscore, in which case json as character string is returned.

References

API docs at <https://api.iucnredlist.org/>.

See Also

Assessments by threat details: `rl_categories()`, `rl_pop_trends()`, `rl_stresses()`, `rl_use_and_trade()`

Examples

```
## Not run:
# Get all threats
rl_threats()
# Get assessment summary for intentional hunting and trapping
rl_threats("5_1_1")

## End(Not run)
```

---

rl_use_and_trade   *Use and trade assessment summary*

Description

Return a list of the latest assessments which are subject to a specific use and trade.

Usage

```
rl_use_and_trade(
  code = NULL,
  key = NULL,
  parse = TRUE,
  all = TRUE,
  page = 1,
  quiet = FALSE,
  ...
)

rl_use_and_trade_(
  code = NULL,
  key = NULL,
  all = TRUE,
  page = 1,
  quiet = FALSE,
  ...
)
```

Arguments

code	(character) The code of the use and trade to look up. If not supplied, a list of all uses and trades will be returned.
key	(character) An IUCN API token. See [rl_use_iucn()](#).
parse	(logical) Whether to parse the output to list (FALSE) or, where possible, data.frame (TRUE). Default: TRUE.
all	(logical) Whether to retrieve all results at once or not. If TRUE we do the paging internally for you and bind all of the results together. If FALSE, only a single page of results will be retrieved.
page	(integer/numeric) Page to get if all is FALSE. Default: 1. Each page returns up to 100 records. Paging is required because it's too much burden on a server to just "get all the data" in one request.
quiet	(logical) Whether to suppress progress for multi-page downloads or not. Default: FALSE (that is, give progress). Ignored if all = FALSE.
...	Includes the following filters that are supported by the API endpoint (refer to the [API docs](#) for more information):

- year_published: (integer) Set this to return only assessments from a given year.
- latest: (logical) Set this to TRUE to return only the latest assessment for each taxon.
- scope_code: (integer) Set this to return only assessments from a particular [scope](#) (e.g., 1 for Global, 2 for Europe). This is similar to the region argument of the old Red List API and old versions of rredlist.

Also supports any [curl options](#) passed to the GET request via [HttpClient](#).

Value

A list unless using a function with a trailing underscore, in which case json as character string is returned.

References

API docs at https://api.iucnredlist.org/.

See Also

Assessments by threat details: `rl_categories()`, `rl_pop_trends()`, `rl_stresses()`, `rl_threats()`

Examples

```
## Not run:
# Get all stresses
rl_use_and_trade()
# Get assessment summary for medicinal use and trade
rl_use_and_trade("3")

## End(Not run)
```

---

rl_use_iucn   *Helper to get and save IUCN API key*

Description

Browse IUCN Red List API key request URL and provides instruction on how to store the key.

Usage

```
rl_use_iucn()
```

Details

Note that after filling the online form, you should receive an API key shortly but not immediately.

Value

Invisibly returns the sign-up URL for the IUCN Red List API.

Examples

```
## Not run:
# Sign up for an API key
rl_use_iucn()

## End(Not run)
```

rl_version   *Get the Red List version*

Description

Returns the current version number of the IUCN Red List of Threatened Species

Usage

```
rl_version(key = NULL, ...)
```

Arguments

key   (character) An IUCN API token. See `rl_use_iucn()`.

...   Curl options passed to HttpClient.

Value

Red List version as character string.

See Also

Red List information and statistics: `rl_api_version()`, `rl_citation()`, `rl_sp_count()`

Examples

```
## Not run:
rl_version()

## End(Not run)
```

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