

Package ‘reptiledb.data’

May 9, 2026

Title Reptile Database Data

Version 0.0.0.2

Description Provides easy access to 'The Reptile Database', a comprehensive catalogue of all living reptile species and their classification. This package includes taxonomic data for over 10,000 reptile species, approximately 2,800 of which are subspecies, covering all extant reptiles. The dataset features taxonomic names, synonyms, distribution data, type specimens, and literature references, making it ready for research and analysis. Data is sourced from 'The Reptile Database' <<http://www.reptile-database.org/>>.

License MIT + file LICENSE

Depends R (>= 4.1.0)

Suggests testthat (>= 3.0.0), knitr, rmarkdown

Config/testthat/edition 3

Encoding UTF-8

RoxygenNote 7.3.3

LazyData true

URL <https://github.com/PaulESantos/reptiledb.data>

BugReports <https://github.com/PaulESantos/reptiledb.data/issues>

Imports cli, httr, rvest, stringr

Maintainer Paul Efren Santos Andrade <paulefrens@gmail.com>

NeedsCompilation no

Author Paul Efren Santos Andrade [aut, cre] (ORCID:
<<https://orcid.org/0000-0002-6635-0375>>)

Repository CRAN

Date/Publication 2026-01-08 23:30:02 UTC

Contents

check_data_update	2
get_latest_reptile_download	3

print.reptile_update_check	4
reptiledb_012025	4
reptiledb_092025	5

Index	7
--------------	----------

check_data_update	<i>Check if reptile database data needs updating</i>
-------------------	--

Description

Compares the local reptile database version with the latest available version on The Reptile Database website and provides user-friendly feedback.

Usage

```
check_data_update(
  version_date = "2025-09-01",
  silent = FALSE,
  check_connection = TRUE
)
```

Arguments

version_date Character string indicating the most recent date of the data source.

silent Logical. If TRUE, suppresses all messages and returns only the result object. Default is FALSE.

check_connection Logical. If TRUE, verifies internet connection before attempting to check for updates. Default is TRUE.

Value

An S3 object of class "reptile_update_check" with the following components:

needs_update Logical. TRUE if update is available

local_date Date. Version date of local data

remote_date Date. Version date of remote data (if available)

days_behind Integer. Days between local and remote versions

download_url Character. URL to download latest data

status Character. One of "current", "outdated", "newer", "unknown", "no_connection"

Examples

```
# Check with user-friendly messages
check_data_update()

# Silent check for programmatic use
result <- check_data_update(silent = TRUE)
if (result$needs_update) {
  message("Update available!")
}
```

```
get_latest_reptile_download
```

Get Latest Reptile Database Download Information

Description

Retrieves information about the most recent reptile database file available for download from the official website.

Usage

```
get_latest_reptile_download(
  base_url = "http://www.reptile-database.org/data/",
  current_year = as.integer(format(Sys.Date(), "%Y")),
  file_types = c("xlsx", "xls", "zip"),
  return_info = FALSE
)
```

Arguments

<code>base_url</code>	Character. The base URL of the data page. Default: "http://www.reptile-database.org/data/"
<code>current_year</code>	Numeric. Year to prioritize in search. Default: current system year
<code>file_types</code>	Character vector. File extensions to search for. Default: c("xlsx", "xls", "zip")
<code>return_info</code>	Logical. If TRUE, returns detailed information list. If FALSE, returns only the URL string. Default: FALSE

Value

If `return_info = FALSE`: Character string with the download URL, or NULL

If `return_info = TRUE`: A list with:

- url** Complete download URL
- filename** File name
- file_type** File extension
- checked_at** Timestamp of check
- source_page** Source webpage URL

Examples

```
# Get download URL
url <- get_latest_reptile_download()

# Get detailed information
info <- get_latest_reptile_download(return_info = TRUE)
```

```
print.reptile_update_check
      Print method for reptile_update_check objects
```

Description

Print method for reptile_update_check objects

Usage

```
## S3 method for class 'reptile_update_check'
print(x, ...)
```

Arguments

x	An object of class "reptile_update_check"
...	Additional arguments (not used)

```
reptiledb_012025      Reptile Checklist with Subspecies Information - January 2025
```

Description

A comprehensive dataset extracted from [The Reptile Database](#) containing taxonomic and nomenclatural information for reptile species and their subspecies. Each row corresponds to a species–subspecies combination (or a species without subspecies), with fields for authorship, year of description, and identifiers used by The Reptile Database.

Usage

```
reptiledb_012025
```

Format

A tibble with 14,539 rows and 13 columns:

order Taxonomic order of the reptile (factor; e.g., "Sauria").

family Taxonomic family (factor; e.g., "Scincidae").

genus Genus name (factor).

epithet Species epithet (second part of the species name; factor).

species Full species name (genus + epithet; character).

species_author Primary author(s) of the species name (factor).

species_name_year Year in which the species was described (character).

subspecies_name Epithet of the subspecies, when available (character; NA if no subspecies).

subspecie_author_info Full author citation of the subspecies (character; NA if no subspecies).

subspecies_name_author Author(s) of the subspecies name (character; NA if no subspecies).

subspecies_year Year in which the subspecies was described (character; NA if no subspecies).

change Optional free-text description of taxonomic or nomenclatural changes (factor; NA when no change is recorded).

rdb_sp_id Numeric identifier assigned to the species by The Reptile Database (double).

Details

The dataset is a structured export of reptile taxonomy information from The Reptile Database. Species with multiple subspecies appear in multiple rows (one per subspecies), sharing the same species and rdb_sp_id values. Species without recognized subspecies appear in a single row with all subspecies-related fields set to NA.

This object is part of the **reptiledb.data** package and is intended to support filtering, analysis, and visualization of reptile diversity and nomenclatural history across orders, families, genera, and species.

Source

<http://www.reptile-database.org/>

reptiledb_092025

Reptile Checklist with Subspecies Information - September 2025

Description

A comprehensive dataset extracted from **The Reptile Database** containing taxonomic and nomenclatural information for reptile species and their subspecies. Each row corresponds to a species–subspecies combination (or a species without subspecies), with fields for authorship, year of description, and identifiers used by The Reptile Database.

Usage

```
reptiledb_092025
```

Format

A tibble with 14,585 rows and 13 columns:

order Taxonomic order of the reptile (factor; e.g., "Sauria").

family Taxonomic family (factor; e.g., "Scincidae").

genus Genus name (factor).

epithet Species epithet (second part of the species name; factor).

species Full species name (genus + epithet; character).

species_author Primary author(s) of the species name (factor).

species_name_year Year in which the species was described (character).

subspecies_name Epithet of the subspecies, when available (character; NA if no subspecies).

subspecie_author_info Full author citation of the subspecies (character; NA if no subspecies).

subspecies_name_author Author(s) of the subspecies name (character; NA if no subspecies).

subspecies_year Year in which the subspecies was described (character; NA if no subspecies).

change Optional free-text description of taxonomic or nomenclatural changes (factor; NA when no change is recorded).

rdb_sp_id Numeric identifier assigned to the species by The Reptile Database (double).

Details

This object corresponds to the September 2025 snapshot of the checklist.

The dataset is a structured export of reptile taxonomy information from The Reptile Database. Species with multiple subspecies appear in multiple rows (one per subspecies), sharing the same `species` and `rdb_sp_id` values. Species without recognized subspecies appear in a single row with all subspecies-related fields set to NA.

This object is part of the **reptiledb.data** package and is intended to support filtering, analysis, and visualization of reptile diversity and nomenclatural history across orders, families, genera, and species.

Source

<http://www.reptile-database.org/>

Index

* datasets

reptiledb_012025, [4](#)

reptiledb_092025, [5](#)

check_data_update, [2](#)

get_latest_reptile_download, [3](#)

print.reptile_update_check, [4](#)

reptiledb_012025, [4](#)

reptiledb_092025, [5](#)