

Package: wcvpdata (via r-universe)

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Type Package

Title World Checklist of Vascular Plants Data

Version 0.7.0

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Description Provides a local interface to the 'World Checklist of Vascular Plants' (WCVP)
<<https://powo.science.kew.org/about-wcvp>> (Version 16, June 2026), sourced from 'Plants of the World Online'
<<https://powo.science.kew.org/>>. Bundles standardized snapshots of global taxonomic and geographic distribution data for vascular plants, designed to support large-scale botanical research and biodiversity analysis directly in 'R'.

License GPL (>= 3)

Encoding UTF-8

Depends R (>= 4.1)

Imports arrow, cli, curl, glue, httr, lifecycle, rvest, stringr

Suggests testthat (>= 3.3.2), withr

Config/testthat/edition 3

Roxygen list(markdown = TRUE)

URL <https://github.com/PaulESantos/wcvpdata>

BugReports <https://github.com/PaulESantos/wcvpdata/issues>

Config/roxygen2/version 8.0.0

Config/pak/sysreqs cmake libicu-dev libxml2-dev libssl-dev

Repository <https://paulesantos.r-universe.dev>

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RemoteUrl <https://github.com/PaulESantos/wcvpdata>

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wcvp_check_version	<i>Check if the packaged version of WCVp is up to date.</i>
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Description

[Stable]

Usage

```
wcvp_check_version(silent = FALSE)
```

Arguments

silent Suppress all messages and warnings.

Value

A logical value; TRUE if the packaged version is up to date, FALSE otherwise.

Examples

```
wcvp_check_version()
```

wcvp_distribution	<i>WCVP geographic distribution records</i>
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Description

Geographic records mapped to TDWG WGSRPD levels.

Usage

```
wcvp_distribution(as_data_frame = FALSE, columns = NULL)
```

Arguments

as_data_frame	If FALSE (the default), return a lazy Arrow Dataset. If TRUE, materialize the selected columns as a tibble.
columns	Optional character vector of columns to read when as_data_frame = TRUE.

Value

An arrow::Dataset or a tibble.

wcvp_distribution_names	<i>WCVP taxonomic data for distribution joins</i>
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Description

Taxonomic identifiers and hierarchy needed to join geographic records.

Usage

```
wcvp_distribution_names(as_data_frame = FALSE, columns = NULL)
```

Arguments

as_data_frame	If FALSE (the default), return a lazy Arrow Dataset. If TRUE, materialize the selected columns as a tibble.
columns	Optional character vector of columns to read when as_data_frame = TRUE.

Value

An arrow::Dataset or a tibble.

wcvp_matching_names	<i>WCVP matching backbone</i>
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Description

A compact taxonomic backbone for matching plant names. Unlike the legacy lazy-data object, this reads no data until requested.

Usage

```
wcvp_matching_names(as_data_frame = FALSE, columns = NULL)
```

Arguments

as_data_frame	If FALSE (the default), return a lazy Arrow Dataset. If TRUE, materialize the selected columns as a tibble.
columns	Optional character vector of columns to read when as_data_frame = TRUE.

Value

An arrow::Dataset or a tibble.

wcvp_open_dataset	<i>Open a packaged WCVP Parquet dataset</i>
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Description

Opens one of the columnar WCVP tables bundled with the package. The returned Arrow Dataset is lazy: columns and rows are read only when a query is collected.

Usage

```
wcvp_open_dataset(table)
```

Arguments

table	One of "matching_names", "synonym_index", "distribution_names", or "distribution".
-------	--

Value

An arrow::Dataset.

Examples

```
## Not run:
wcvp_open_dataset("matching_names")

## End(Not run)
```

wcvp_synonym_index	<i>WCVP synonym index</i>
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Description

Accepted names and their nomenclatural synonym records.

Usage

```
wcvp_synonym_index(as_data_frame = FALSE, columns = NULL)
```

Arguments

as_data_frame	If FALSE (the default), return a lazy Arrow Dataset. If TRUE, materialize the selected columns as a tibble.
columns	Optional character vector of columns to read when as_data_frame = TRUE.

Value

An arrow::Dataset or a tibble.

wcvp_validate_data	<i>Validate the local WCVP data against package metadata.</i>
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Description

[Stable]

Usage

```
wcvp_validate_data(silent = FALSE)
```

Arguments

silent	Suppress all messages and warnings.
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Details

This function checks the bundled Parquet tables against package metadata and basic integrity constraints. It materializes identifier columns only.

Value

A logical value; TRUE if the local data matches the metadata and satisfies integrity checks, FALSE otherwise.

Examples

```
wcvp_validate_data()
```

wcvp_version	<i>Functions to help check the WCVp data is okay and up to date. View the version of WCVp available.</i>
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Description

[Stable]

Usage

```
wcvp_version(long = TRUE)
```

Arguments

long	Whether to return the version date with version number.
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Value

A character string containing the version and date.

Examples

```
wcvp_version()
```

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