# Package: helminthR (via r-universe)

October 29, 2026

**Type** Package

**Title** Access London Natural History Museum Host-Helminth Record Database

**Version** 1.1.0

**Depends** R (>= 3.5.0)

**Imports** utils, taxize

**Suggests** testthat, knitr, rmarkdown

**VignetteBuilder** knitr

**URL** https://docs.ropensci.org/helminthR/, https://github.com/rOpenSci/helminthR/

**BugReports** https://github.com/rOpenSci/helminthR/issues/

**Description** Access to large host-parasite data is often hampered by the availability of data and difficulty in obtaining it in a programmatic way to encourage analyses. 'helminthR' provides accesss to the London Natural History Museum's host-parasite database, one of the largest host-parasite databases existing currently.

**License** GPL-3

**LazyData** yes

**Encoding** UTF-8

**RoxygenNote** 7.3.2

**Config/pak/sysreqs** libglpk-dev libicu-dev libxml2-dev libssl-dev

**Repository** https://ropensci.r-universe.dev

**Date/Publication** 2025-09-04 14:13:45 UTC

**RemoteUrl** https://github.com/ropensci/helminthR

**RemoteRef** HEAD

**RemoteSha** 02afebbb662009790a60d6df43df201b5ac0d739

# Contents

helminthR-package . . . . . 2
cleanData . . . . . 2
loadData . . . . . 3
locations . . . . . 4

**Index** **5**

---

`helminthR-package` *Access London Natural History Museum host-helminth record database*

---

## Description

'helminthR': data from the London Natural History Museum's host-parasite database.

## Author(s)

Tad Dallas <tad.a.dallas@gmail.com>

## References

Gibson, D. I., Bray, R. A., & Harris, E. A. (Compilers) (2005). Host-Parasite Database of the Natural History Museum, London. http://www.nhm.ac.uk/research-curation/scientific-resources/taxonomy-systematics/host-parasites/

## See Also

Useful links:

- https://docs.ropensci.org/helminthR/
- https://github.com/rOpenSci/helminthR/
- Report bugs at https://github.com/rOpenSci/helminthR/issues/

---

`cleanData` *Clean helminth parasite occurrence data*

---

## Description

Given the data or a subset of the helminth interaction data (see 'loadData()'), perform various cleaning functions on the data, including validation of species names, run taxize on hosts (again, as there are already host and parasite taxonomic variables as part of this data.frame , and remove records only to genus level.

### Usage

```
cleanData(data, speciesOnly = FALSE, validateHosts = FALSE)
```

### Arguments

| | |
|---|---|
| data | helminth interaction data |
| speciesOnly | boolean flag to remove host and parasite species where data are only available at genus level (default = FALSE) |
| validateHosts | boolean flag to check host species names against Catalogue of Life information and output taxonomic information (default = FALSE) |

### Details

Use `data(locations)` for a list of possible locations.

### Value

data.frame with cleaned data

### Author(s)

Tad Dallas

---

## loadData *Load the helminth interaction data*

---

### Description

Load the helminth interaction data

### Usage

```
loadData(outdir = ".")
```

### Arguments

| | |
|---|---|
| outdir | output directory (default is the top-level of the package repo) |

### Value

data.frame of host-helminth interactions

### Author(s)

Tad Dallas

## References

Gibson, D. I., Bray, R. A., & Harris, E. A. (Compilers) (2005). Host-Parasite Database of the Natural History Museum, London.

---

`locations` *Table of geographic location names, and associated coordinates*

---

## Description

Lists geographic locations and the corresponding latitude and longitude coordinates of the country's centroid. The georeferencing was performed dynamically using the Google Maps API, but they have since restricted access. The data on locations is now provided in this data file called `locations` – `data(locations)` – and is based on an earlier usage of `ggmap`. The geographic coordinates may not be accurate, and users should check for accuracy (and feel free to file an issue or PR on Github with corrections).

## Usage

```
data(locations)
```

## Format

**Location** Name of geographic location

**Latitude** Latitude of location centroid

**Longitude** Longitude of location centroid

## References

Gibson, D. I., Bray, R. A., & Harris, E. A. (Compilers) (2005). Host-Parasite Database of the Natural History Museum, London.

# Index

∗ **data**
locations, 4

cleanData, 2

helminthR *(*helminthR-package*)*, 2
helminthR-package, 2

loadData, 3
locations, 4