

# Package: allometry (via r-universe)

May 23, 2026

**Title** Examples of Datasets on Allometry

**Version** 0.2.0

**Description** Examples of datasets on allometry, the study of the relationship of biological traits to body size. This package contains the datasets of morphological measurement taken from 113 maritime earwigs (*Anisolabis maritima*) by Matsuzawa and Konuma (2025) <[doi:10.1093/biolinnean/blaf031](https://doi.org/10.1093/biolinnean/blaf031)>, and taken from 507 Helm's stag beetles (*Geodorcus helmsi*) collected by Grey et al. (2025) <[doi:10.1093/biolinnean/blae024](https://doi.org/10.1093/biolinnean/blae024)>.

**License** GPL (>= 3)

**Encoding** UTF-8

**URL** <https://github.com/tabe/allometry>

**BugReports** <https://github.com/tabe/allometry/issues>

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.3.2

**Suggests** testthat (>= 3.0.0)

**Config/testthat/edition** 3

**Depends** R (>= 3.5)

**LazyData** true

**Repository** <https://tabe.r-universe.dev>

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**RemoteUrl** <https://github.com/tabe/allometry>

**RemoteRef** HEAD

**RemoteSha** 6d9f785eabf443ee71f6edee82cb219ee3327aab

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earwigs	<i>Morphological measurement taken from 113 maritime earwigs (Anisolabis maritima); 68 males and 45 females.</i>
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### Description

Morphological measurement taken from 113 maritime earwigs (*Anisolabis maritima*); 68 males and 45 females.

### Usage

earwigs

### Format

A data frame with twelve variables:

id ID (integer; starting from 1, ending at 115; 11 and 12 are missing)

sex Sex (factor; male or female)

head\_width Head width (mm)

head\_length Head length (mm)

thorax\_width Thorax width (mm)

thorax\_length Thorax length (mm)

abdomen\_width Abdomen width (mm)

abdomen\_length Abdomen length (mm)

right\_forcep\_length Right forcep length (mm)

left\_forcep\_length Left forcep length (mm)

right\_forcep\_width Right forcep width (mm)

left\_forcep\_width Left forcep width (mm)

For further details, see Tomoki Matsuzawa, Junji Konuma, Positive allometry in the forceps of the female earwig *Anisolabis maritima* (Dermaptera: Anisolabididae), *Biological Journal of the Linnean Society*, Volume 145, Issue 2, June 2025, blaf031, [doi:10.1093/biolinnean/blaf031](https://doi.org/10.1093/biolinnean/blaf031).

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helmsi *Morphological measurement of 507 Helm's stag beetles (Geodorcus helmsi) from Stewart Island, New Zealand.*

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### Description

Morphological measurement of 507 Helm's stag beetles (*Geodorcus helmsi*) from Stewart Island, New Zealand.

### Usage

helmsi

### Format

A data frame with 17 variables:

`museum_number` Accession number used by museum to identify specimens (factor)

`collection` The museum or the collection event associated with specimens (factor)

`sex` Sex (factor; Male, Female, or Larva)

`body_length` The sum of the head, pronotum and elytra (mm)

`mandible_length` Length of the left mandible from the hinge to the tip (mm)

`inside_mandible_length` Length of the left mandible from the tip to the base of the mandible at the boundary between the exposed part and the semi-exposed part (mm)

`mandible_tooth_1` Length of tooth 1 on left mandible from tip to lateral edge of mandible (mm)

`mandible_tooth_2` Length of tooth 2 on left mandible from tip to lateral edge of mandible (mm)

`mandible_tooth_3` Length of tooth 3 on left mandible from tip to lateral edge of mandible (mm)

`mandible_tooth_4` Length of tooth 4 on left mandible from tip to lateral edge of mandible (mm)

`head_length` Length from the anterior margin of the clypeus to the anterior margin of the pronotum (mm)

`head_width` Width of the head from the lateral margin of each eye (mm)

`pronotum_length` Length of the pronotum from anterior margin of pronotum to the posterior margin of pronotum (mm)

`pronotum_width` Width of pronotum at widest part of pronotum (mm)

`elytra_length` Length of elytra from anterior margin of scutellum to posterior margin of elytra (mm)

`elytra_width` Width of elytra at widest point of elytra (mm)

`method` Method used from measuring beetles (factor; Callipers or Digital)

For further details, see L Grey, G I Holwell, J M Jandt, S Johnson, Weapon allometry and shape variation in the Helm's stag beetle (*Geodorcus helmsi*), *Biological Journal of the Linnean Society*, Volume 144, Issue 1, January 2025, bla024, doi:[10.1093/biolinnean/bla024](https://doi.org/10.1093/biolinnean/bla024).

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