

Package ‘allometry’

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>

RoxygenNote 7.3.2

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

Depends R (>= 3.5)

LazyData true

NeedsCompilation no

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Repository CRAN

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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).

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

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, blae024, doi:[10.1093/biolinnean/blae024](https://doi.org/10.1093/biolinnean/blae024).

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