

Length-weight relationship of *Squilla mantis* from Slovenia, sampled from 25.05.1999 to 29.05.2024 (n = 331, length range from 1.90 cm to 5.70 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 26.11.2024
- Country: SVN
- Species: *Squilla mantis*
- Length type: CL (biometry_id = 89)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 25.05.1999
- Sampled to: 29.05.2024
- n: 331
- L min [cm]: 1.90
- L max [cm]: 5.70
- W min [g]: 12.00
- W max [g]: 170.00
- Data transformation: natural logarithm
- a: 7.6054847
- b: 1.5899121

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.7975 -0.1543  0.0398  0.1885  0.6240
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    2.0289     0.0882   23.0    <2e-16 ***
## ln_l_x         1.5899     0.0733   21.7    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.261 on 329 degrees of freedom
## Multiple R-squared:  0.588, Adjusted R-squared:  0.587
## F-statistic: 471 on 1 and 329 DF, p-value: <2e-16
```

ANOVA:

```
##              Df    Sum Sq    Mean Sq  F value    Pr(>F)
## ln_l_x         1 32.15955 32.15954938 470.5027 2.099302e-65
## Residuals    329 22.48763  0.06835147      NA      NA
```

Visualization

