

Length-weight relationship of *Squilla mantis*
from Slovenia, sampled from 25.05.1999 to 29.05.2024
(n = 326, length range from 9.10 cm to 20.60 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: TL (biometry_id = 88)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 25.05.1999
- Sampled to: 29.05.2024
- n: 326
- L min [cm]: 9.10
- L max [cm]: 20.60
- W min [g]: 12.00
- W max [g]: 110.00
- Data transformation: natural logarithm
- a: 0.0192120
- b: 2.8469138

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.6990 -0.0704  0.0040  0.0842  0.8435
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -3.9522     0.1814   -21.8   <2e-16 ***
## ln_l_x         2.8469     0.0657    43.3   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.158 on 324 degrees of freedom
## Multiple R-squared:  0.853, Adjusted R-squared:  0.852
## F-statistic: 1.88e+03 on 1 and 324 DF, p-value: <2e-16
```

ANOVA:

```
##              Df    Sum Sq    Mean Sq  F value    Pr(>F)
## ln_l_x         1 46.674769 46.67476859 1876.729 7.819661e-137
## Residuals    324  8.057969  0.02487027      NA      NA
```

Visualization

