

Length-weight relationship of *Romanogobio uranoscopus* from Slovenia, sampled from 20.04.2010 to 29.08.2024 (n = 241, length range from 3.10 cm to 12.20 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 08.11.2024
- Country: SVN
- Species: *Romanogobio uranoscopus*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 20.04.2010
- Sampled to: 29.08.2024
- n: 241
- L min [cm]: 3.10
- L max [cm]: 12.20
- W min [g]: 0.15
- W max [g]: 17.00
- Data transformation: natural logarithm
- a: 0.0049428
- b: 3.2270916

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.4519 -0.0766 -0.0190  0.0552  0.6699
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -5.3098     0.0923   -57.5   <2e-16 ***
## ln_l_x         3.2271     0.0409    79.0   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.142 on 239 degrees of freedom
## Multiple R-squared:  0.963, Adjusted R-squared:  0.963
## F-statistic: 6.23e+03 on 1 and 239 DF, p-value: <2e-16
```

ANOVA:

```
##              Df      Sum Sq      Mean Sq  F value      Pr(>F)
## ln_l_x         1 126.571013 126.57101347 6234.243 3.234938e-173
## Residuals 239    4.852309    0.02030255      NA      NA
```

Visualization

