

Length-weight relationship of *Merlangius merlangus*
from Slovenia, sampled from 25.07.1995 to 15.12.2020
(n = 10218, length range from 5.00 cm to 38.00 cm,
specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 13.01.2021
- Country: SVN
- Species: *Merlangius merlangus*
- Length type: TLmax (biometry_id = 78)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 25.07.1995
- Sampled to: 15.12.2020
- n: 10218
- L min [cm]: 5.00
- L max [cm]: 38.00
- W min [g]: 1.00
- W max [g]: 417.00
- Data transformation: natural logarithm
- a: 0.0055044
- b: 3.1085150

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.6482 -0.0675 -0.0003  0.0667  0.6177
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -5.20222    0.01013   -513 <2e-16 ***
## ln_l_x       3.10851    0.00349    890 <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.109 on 10216 degrees of freedom
## Multiple R-squared:  0.987, Adjusted R-squared:  0.987
## F-statistic: 7.93e+05 on 1 and 10216 DF, p-value: <2e-16
```

ANOVA:

```
##              Df  Sum Sq  Mean Sq F value Pr(>F)
## ln_l_x         1 9471.816  9.471816e+03  792843    0
## Residuals 10216  122.047  1.194665e-02    NA    NA
```

Visualization

