

Length-weight relationship of *Merlangius merlangus*
 from Slovenia, sampled from 25.07.1995 to 16.01.2004
 (n = 1065, length range from 5.28 cm to 34.60 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: SL (biometry_id = 74)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 25.07.1995
- Sampled to: 16.01.2004
- n: 1065
- L min [cm]: 5.28
- L max [cm]: 34.60
- W min [g]: 1.45
- W max [g]: 417.00
- Data transformation: natural logarithm
- a: 0.0089241
- b: 3.0404990

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.3954 -0.0704 -0.0101  0.0689  0.5407
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.7190     0.0282   -167 <2e-16 ***
## ln_l_x         3.0405     0.0101    300 <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.11 on 1063 degrees of freedom
## Multiple R-squared:  0.988, Adjusted R-squared:  0.988
## F-statistic: 9e+04 on 1 and 1063 DF,  p-value: <2e-16
```

ANOVA:

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
ln_l_x	1	1091.50774	1.091508e+03	90033.93	0
Residuals	1063	12.88706	1.212329e-02	NA	NA

Visualization

