

Length-weight relationship of *Cobitis elongata*
 from Slovenia, sampled from 20.04.2010 to 01.10.2019
 (n = 300, length range from 6.50 cm to 17.90 cm,
 specimen condition: mixed)

- Authors: Bojan Marčeta, Žiga Sanda
- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 20.01.2021
- Country: SVN
- Species: *Cobitis elongata*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 20.04.2010
- Sampled to: 01.10.2019
- n: 300
- L min [cm]: 6.50
- L max [cm]: 17.90
- W min [g]: 1.30
- W max [g]: 29.00
- Data transformation: natural logarithm
- a: 0.0075940
- b: 2.8057968

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.31545 -0.07878 -0.00803  0.08206  0.31288
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.8804     0.1468   -33.2   <2e-16 ***
## ln_l_x         2.8058     0.0555    50.6   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.116 on 298 degrees of freedom
## Multiple R-squared:  0.896, Adjusted R-squared:  0.895
## F-statistic: 2.56e+03 on 1 and 298 DF, p-value: <2e-16
```

ANOVA:

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
ln_l_x	1	34.155907	34.15590679	2559.772	2.502292e-148
Residuals	298	3.976316	0.01334334	NA	NA

Visualization

