

Length-weight relationship of *Cobitis elongata* from Slovenia, sampled from 20.04.2010 to 09.07.2024 (n = 795, length range from 4.70 cm to 17.90 cm, specimen condition: mixed)

- Authors: Bojan Marčeta, Žiga Sanda, Petra Pavšič
- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 08.11.2024
- 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: 09.07.2024
- n: 795
- L min [cm]: 4.70
- L max [cm]: 17.90
- W min [g]: 0.45
- W max [g]: 29.00
- Data transformation: natural logarithm
- a: 0.0029265
- b: 3.1687199

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
```

	Min	1Q	Median	3Q	Max
	-0.4469	-0.1053	-0.0085	0.0940	0.8921

```
##
## Coefficients:
```

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	-5.8339	0.0520	-112	<2e-16 ***
ln_l_x	3.1687	0.0208	152	<2e-16 ***

```
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.134 on 793 degrees of freedom
## Multiple R-squared:  0.967, Adjusted R-squared:  0.967
## F-statistic: 2.32e+04 on 1 and 793 DF, p-value: <2e-16
```

ANOVA:

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
ln_l_x	1	414.77448	414.77447507	23164.46	0
Residuals	793	14.19917	0.01790564	NA	NA

Visualization

