

Length-weight relationship of *Cepola macrophthalma*
from Slovenia, sampled from 24.04.1995 to 21.10.2020
(n = 1306, length range from 14.80 cm to 64.50 cm,
specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 13.01.2021
- Country: SVN
- Species: *Cepola macrophthalma*
- Length type: TLmax (biometry_id = 78)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 24.04.1995
- Sampled to: 21.10.2020
- n: 1306
- L min [cm]: 14.80
- L max [cm]: 64.50
- W min [g]: 4.70
- W max [g]: 119.00
- Data transformation: natural logarithm
- a: 0.0721152
- b: 1.6457971

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.7716 -0.1212 -0.0036  0.1063  0.7183
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -2.6295     0.0731   -36.0   <2e-16 ***
## ln_l_x         1.6458     0.0211    77.9   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.192 on 1304 degrees of freedom
## Multiple R-squared:  0.823, Adjusted R-squared:  0.823
## F-statistic: 6.06e+03 on 1 and 1304 DF, p-value: <2e-16
```

ANOVA:

```
##           Df Sum Sq Mean Sq F value Pr(>F)
## ln_l_x     1 223.8504 223.85038419 6063.659    0
## Residuals 1304  48.1394  0.03691672    NA    NA
```

Visualization

