

Length-weight relationship of *Alloteuthis media* from Slovenia, sampled from 25.07.1995 to 29.05.2024 (n = 4021, length range from 1.50 cm to 10.60 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 26.11.2024
- Country: SVN
- Species: *Alloteuthis media*
- Length type: ML (biometry_id = 184)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 25.07.1995
- Sampled to: 29.05.2024
- n: 4021
- L min [cm]: 1.50
- L max [cm]: 10.60
- W min [g]: 0.40
- W max [g]: 18.00
- Data transformation: natural logarithm
- a: 0.1875619
- b: 1.9875153

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.8320 -0.1154  0.0009  0.1222  0.8838
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -1.6736     0.0175   -95.8   <2e-16 ***
## ln_l_x         1.9875     0.0107   185.8   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.199 on 4019 degrees of freedom
## Multiple R-squared:  0.896, Adjusted R-squared:  0.896
## F-statistic: 3.45e+04 on 1 and 4019 DF, p-value: <2e-16
```

ANOVA:

```
##              Df    Sum Sq    Mean Sq  F value Pr(>F)
## ln_l_x         1 1371.5173 1.371517e+03 34512.33    0
## Residuals 4019  159.7147 3.973992e-02      NA     NA
```

Visualization

