Creching age

|  | Estimated coefficients (95% CI) | | |  | |
| --- | --- | --- | --- | --- | --- |
| Model structure | Hatch date | Growth rate | Year | Δ AICc1 | Adj. R2 |
| Hatch date + Year | -0.50 (-0.63; -0.37) | NA | -1.91 (-3.05; -0.78) | 0.00 | 0.46 |
| Mass growth + Hatch date + Year | -0.53 (-0.67; -0.39) | -0.01 (-0.03; 0.01) | -2.25 (-3.57; -0.94) | 1.18 | 0.46 |
| Flipper growth + Hatch date + Year | -0.52 (-0.65; -0.38) | -0.27 (-0.80; 0.27) | -2.11 (-3.32; -0.90) | 1.25 | 0.46 |
| Tibiotarsus growth + Hatch date + Year | -0.50 (-0.63; -0.37) | -0.13 (-0.91; 0.64) | -1.92 (-3.07; -0.78) | 2.14 | 0.45 |
| 1next best model Δ AICc = 43.18 | | | | | |

Creching size

|  | Estimated coefficients (95% CI) | | | |  |
| --- | --- | --- | --- | --- | --- |
| Model structure | Creching age | Growth rate | Sex | Year | Adj. R2 |
| Competitive creching mass model |  |  |  |  |  |
| Creching age + Mass growth + Sex + Year | 60.17 (41.62; 78.71) | 9.20 (7.02; 11.39) | 69.22 (-54.12; 192.57) | -256.96 (-404.12; -109.80) | 0.76 |
| next best model Δ AICc = 21.94 |  |  |  |  |  |
| Competitive creching flipper length model |  |  |  |  |  |
| Creching age + Flipper growth + Year | 4.03 (3.14; 4.93) | 6.53 (3.73; 9.33) | NA | -17.27 (-23.94; -10.60) | 0.71 |
| next best model Δ AICc = 17.81 |  |  |  |  |  |
| Competitive creching tibiotarsus length models |  |  |  |  |  |
| Creching age + Tibiotarsus growth + Year | 2.45 (1.82; 3.07) | 3.09 (0.25; 5.93) | NA | -10.11 (-14.53; -5.70) | 0.58 |
| next best model Δ AICc = 2.52 |  |  |  |  |  |

Creche period survival

|  | Estimated coefficients (95% CI)1 | | |  |
| --- | --- | --- | --- | --- |
| Model structure | Year | Hatch day | Growth rate | Δ QAICc |
| Year + Hatch date + TT + Creching flipper | -0.20 (-1.18; 0.78) | 0.023 (-0.087; 0.133) | 0.0387 (0.0153; 0.0622) | 0.00 |
| Year + Hatch date + TT + Creching mass | -0.40 (-1.32; 0.52) | -0.006 (-0.105; 0.093) | 0.0017 (0.0006; 0.0028) | 0.62 |
| Year + Hatch date + TT + Creching tibiotarsus | -0.46 (-1.36; 0.45) | 0.002 (-0.101; 0.106) | 0.0580 (0.0215; 0.0946) | 0.89 |
| 1Values for main and quadratic time effects not shown. | | | | |