Best current version of DEBkiss model of *Menidia menidia*

Description: DEBkiss model with survival as a state variable, but not survival data included yet. Tested leaving different parameters free to see which ones had the greatest effect on model fit (AIC).

Data and settings

* Total length over time at 24C (length in mm, time in dpf)
* Cumulative reproduction over time (number of eggs)
* glo.stiff = [0 3]

Initial parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Initial parameters** | **Parameters estimated from ODE** | **AIC** | **Negative Log-Likelihood** |
| delM | 0.1066 (data) |  |  |  |
| dV | 0.1 |  |  |  |
| sJAm | 0.27 |  |  |  |
| sJM | 0.015 |  |  |  |
| WB0 | 0.1 |  |  |  |
| Lwp | 120 (data) |  |  |  |
| yAV | 0.8 |  |  |  |
| yBA | 0.95 |  |  |  |
| yVA | 0.2 |  |  |  |
| kappa | 0.75 |  |  |  |
| f | 1 (ad libitum) |  |  |  |
| fB | 0.5 |  |  |  |
| Lwf | 0 |  |  |  |

Plots