**A revised mathematical model for macroalgal decomposition**

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Previously used models

|  |  |  |  |
| --- | --- | --- | --- |
| Model | Function | Parameters | Reference |
| Linear | M = b \* t + 1 |  |  |
| Exponential | M = L \* e^k \* t + R | L, k, R |  |
| Second order exponential |  | L, k1, k2, R |  |
| Logistic |  |  |  |
| Power |  |  |  |
| Logarithmic |  |  |  |

New models

|  |  |  |  |
| --- | --- | --- | --- |
| First function | Second function | Composite function | Parameters |
| Exponential | Exponential |  |  |
|  | Second order exponential |  |  |
|  | Logistic |  |  |
| Rectangular hyperbolic | Exponential |  |  |
|  | Second order exponential |  |  |
|  | Logistic |  |  |
| Hyperbolic tangent | Exponential |  |  |
|  | Second order exponential |  |  |
|  | Logistic |  |  |