# Supplementary information

**Pacific oysters do not compensate growth retardation following extreme acidification events**

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**Table S1** Recovery capacity of oysters in total body weight as a function of pH (factor) for each date of measurement (group). The retained model is specified for each set of variables (total body weight, slopes) and factor (pH, time) and each date of measurement. Important parameters of the different models are shown: tipping point and its 95% confidence interval, R2, left slope (factor < tipping point) and right slope (factor > tipping point) and level of significance of Student’s t test (P< 0.001 \*\*\*, < 0.01 \*\*, < 0.05 \*, < 0.1 **.**). The tipping point is the pH value where the dependent variable tips. In the case of basic linear model, “left” slope represents the unique slope of the model. Abbreviations: piecewise = piecewise linear regression, conf. interval = 95% confidence interval.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Variable** | **Factor** | **Group** (time, d) | **Model** |  | **Tipping Point** |  | **R**2 |  | **Slope 1** |  | **Slope 2** |
|  |  | *conf. interval* |  |  |  |
|  | *upper* | *lower* |  |  |  | *t test* |  |  | *t test* |
| **Total body weight** (g) | pHT | -14 | piecewise |   | 7.10 | 7.50 | 6.70 |   | 0.76 |   | 0.271 | \*\* |   | 0.022 | n.s. |
| -10 | piecewise |   | 7.10 | 7.40 | 6.80 |   | 0.88 |   | 0.450 | \*\*\* |   | 0.070 | n.s. |
| -6 | piecewise |   | 7.10 | 7.33 | 6.87 |   | 0.93 |   | 0.802 | \*\*\* |   | 0.110 | n.s. |
| 0 | piecewise |   | 7.11 | 7.34 | 6.90 |   | 0.95 |   | 1.234 | \*\*\* |   | 0.289 | n.s. |
| 4 | piecewise |   | 7.15 | 7.34 | 6.95 |   | 0.93 |   | 1.680 | \*\*\* |   | 0.051 | n.s. |
| 7 | piecewise |   | 7.13 | 7.30 | 6.96 |   | 0.95 |   | 1.990 | \*\*\* |   | 0.092 | n.s. |
| 9 | piecewise |   | 7.13 | 7.31 | 6.96 |   | 0.94 |   | 2.040 | \*\*\* |   | 0.068 | n.s. |
| 11 | piecewise |   | 7.14 | 7.28 | 7.01 |   | 0.95 |   | 2.350 | \*\*\* |   | -0.239 | n.s. |
| 14 | piecewise |   | 7.14 | 7.27 | 7.01 |   | 0.95 |   | 2.530 | \*\*\* |   | -0.207 | n.s. |
| 18 | piecewise |   | 7.13 | 7.26 | 7.00 |   | 0.95 |   | 2.960 | \*\*\* |   | -0.213 | n.s. |
| 22 | piecewise |   | 7.12 | 7.25 | 6.99 |   | 0.96 |   | 3.480 | \*\*\* |   | -0.169 | n.s. |
| 28 | piecewise |   | 7.14 | 7.27 | 7.00 |   | 0.96 |   | 3.930 | \*\*\* |   | -0.140 | n.s. |
| 36 | piecewise |   | 7.10 | 7.25 | 6.95 |   | 0.95 |   | 4.880 | \*\*\* |   | 0.124 | n.s. |
| 42 | piecewise |   | 7.08 | 7.25 | 6.91 |   | 0.94 |   | 5.390 | \*\*\* |   | 0.380 | n.s. |
| **Weight difference** (g.pHT-1) | Left slope | Time (d) | n.a. | linear |   | n.a. | n.a. | n.a. |   | 0.99 |   | 0.087 | \*\*\* |   | n.a. | n.a. |
| Right slope | n.a. | none |   | n.a. | n.a. | n.a. |   | n.a. |   | n.a. | n.a. |   | n.a. | n.a. |