

Variables

ID_LabExp: specimens ID from laboratory experiment at NIOZ (The Netherlands)

SEM: specimens analyzed by Scanning Electron Microscope (SEM) (1=yes, 0 =no)

Initial_Height_mm: Average measured height (height was measured 3 times due to the small size of the individuals, millimeters)

Shell_growth_mm : Shell growth was measured as the width between the ventral edge and the calcein mark at the end of the experimental period (mm)

CI: Condition index (CI = dry soft tissue mass / dry shell mass) of each specimen calculated at the end of the experimental period

Na/Ca, Mg/Ca, Sr/Ca, Ba/Ca : Elemental concentrations reported relative to Ca in mmol/mol for Sr, Mg and Na, and $\mu\text{mol/mol}$ for Ba

Food_level : 3 different food concentrations(0.62, 5, and 14 mg dry weight of Mixalgae per individual per day)

Temperature: as a factor ($^{\circ}\text{C}$)

Treal: average of daily measured temperatures during the experimental period ($^{\circ}\text{C}$)

EC: electrical conductivity (micro-Siemens per centimeter, $\mu\text{S/cm}$)

Box: aquarium number

Phyto_cells: average of phytoplankton cells concentration ($\times 10^6$) per aquarium during the experimental period

NOTE: "Mixalgae" is a commercial mix of marine microalgae containing *Isochrysis* sp., *Tetraselmis* sp., *Pavlova* sp., *Thalassiosira* sp. and *Nannochloropsis* spp ([www. acuinuga.com](http://www.acuinuga.com))