Methods

* *Muusoctopus leioderma* were collected in Burrows Bay, Washington.
* (number of octopuses) were treated in 1000 and 1800 pCO2 seawater
* Octopuses were OA treated for 24 hr and 7 day intervals.
* Metabolic rates were monitored by measuring routine metabolic rate (RMR) and critical partial pressure (pCrit).
* RMR was measured using open circuit respirometry, while pCrit was measured using closed circuit respirometry.
* Oxygen concentration percentages were logged using PreSens Microsensor Oxygen Meter.
* pH in OA tanks was calibrated daily using mass spectrometry
* Alkalinity was measured using an autotitrator weekly.
* Both pH and Alkalinity values were used to calculate pCO2 and daily OA tank pH setpoint.
* Data were analyzed, and figures were created in rstats and RStudio.