**Table S2.** **Experimental design of CO2 enrichment experiments.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Dates | Duration | Handheld meter | Calibration buffers for pH | Water bath type | Shade method | PAR |
| 9/20/2009 to 10/3/2009 | 14 days | YSI Quatro\* | NIST, 3 points | Recirculating  | Incident light | 150 ± 30 |
| 6/26/2010 to 7/5/2010 | 9 days | YSI Quatro | NIST, 3 points | Recirculating  | Incident light | 178 ± 51 |
| 9/16/2011 to 10/2/2011 | 17 days | Hach§ | TRIS, 1 point | Flow-through  | Direct w/shade cloth (1 layer) | 868 ± 72 |
| 9/14/2012 to 9/29/2012 | 15 days | Hach | TRIS, 1 point | Flow-through  | Direct w/shade cloth(2 layers) | 572 ± 20 |

\* The YSI Environmental Quatro measures temperature (± 0.15 °C accuracy), salinity (± 0.1 ppt), pH (± 0.2), and dissolved oxygen using a polarographic electrode (± 0.2 mg L-1)

§ The Hach handheld meter measures temperature (± 0.3 °C accuracy), pH (± 0.1), and dissolved oxygen using an optode (± 0.01 mg L-1)