Colorimetric detection of caspase 3 activity and reactive oxygen derivatives: potential early indicators of thermal stress in corals.

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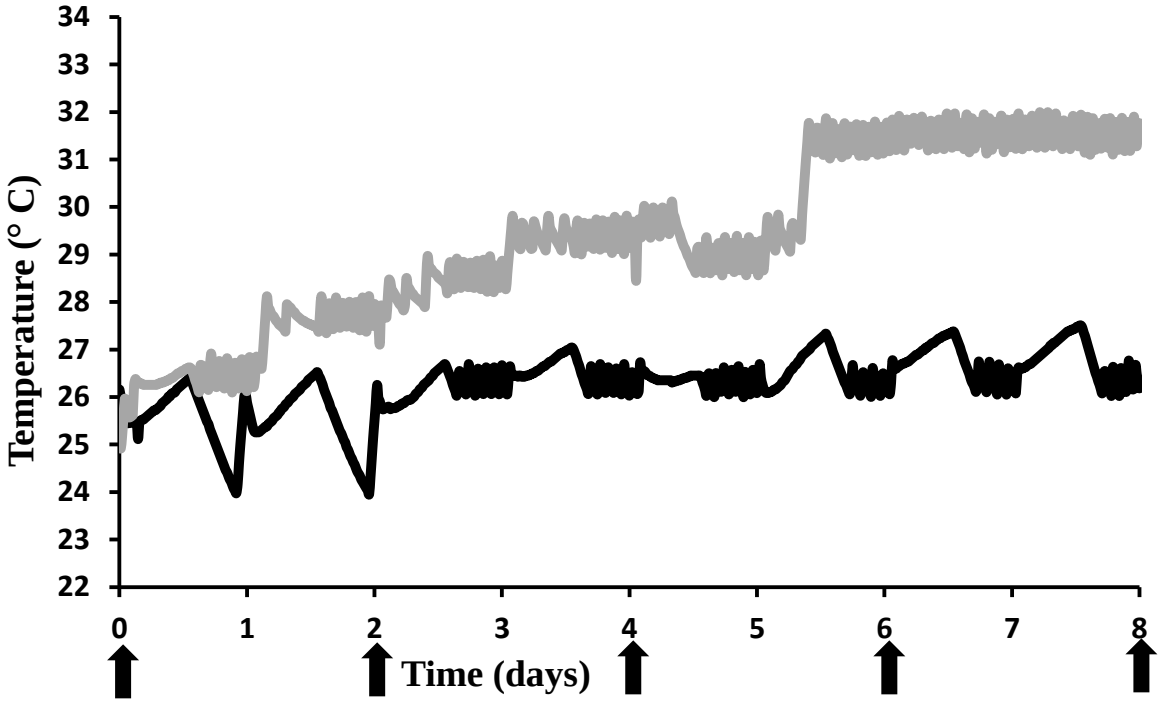
Supplementary Information

Supplementary Table S1:

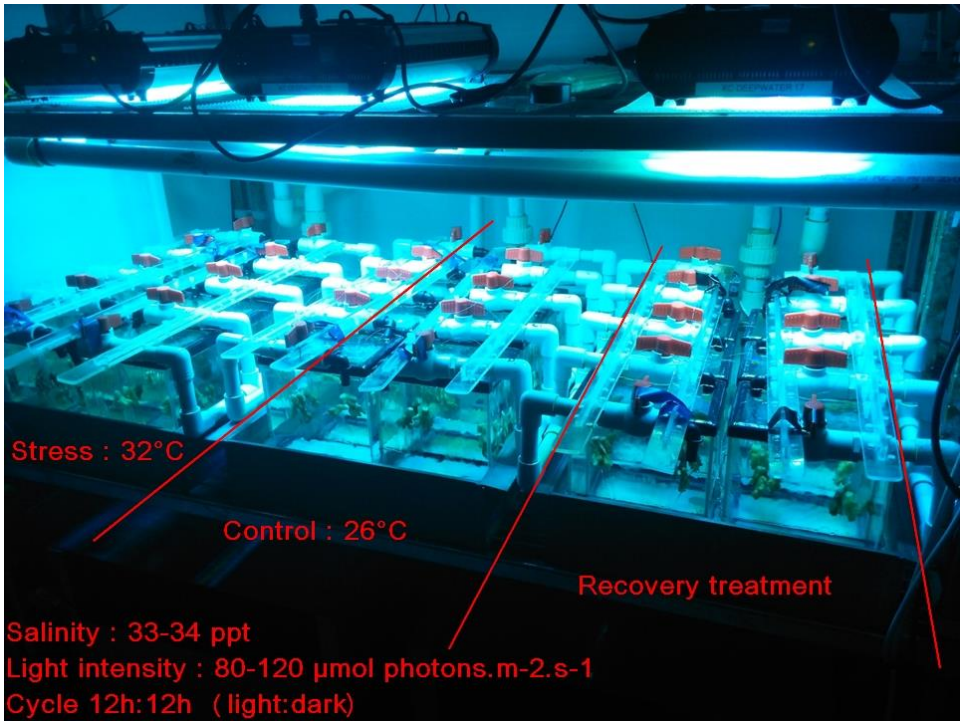
Volume of reagents (µL) added into the 96-well plates for the caspase 3 detection assay.

Components to be added / Sample type	Assay buffer	200 µM caspase 3 inhibitor	2 mM caspase 3 substrate	5 µg/ml commercial caspase 3	Coral host tissue samples	Total volume
Blank	90	0	10	0	0	100
Positive control	85	0	10	5	0	100
Negative control for the commercial caspase	75	10	10	5	0	100
Coral host tissue samples	40	0	10	0	50	100
Negative control for the coral host tissue samples	30	10	10	0	50	100



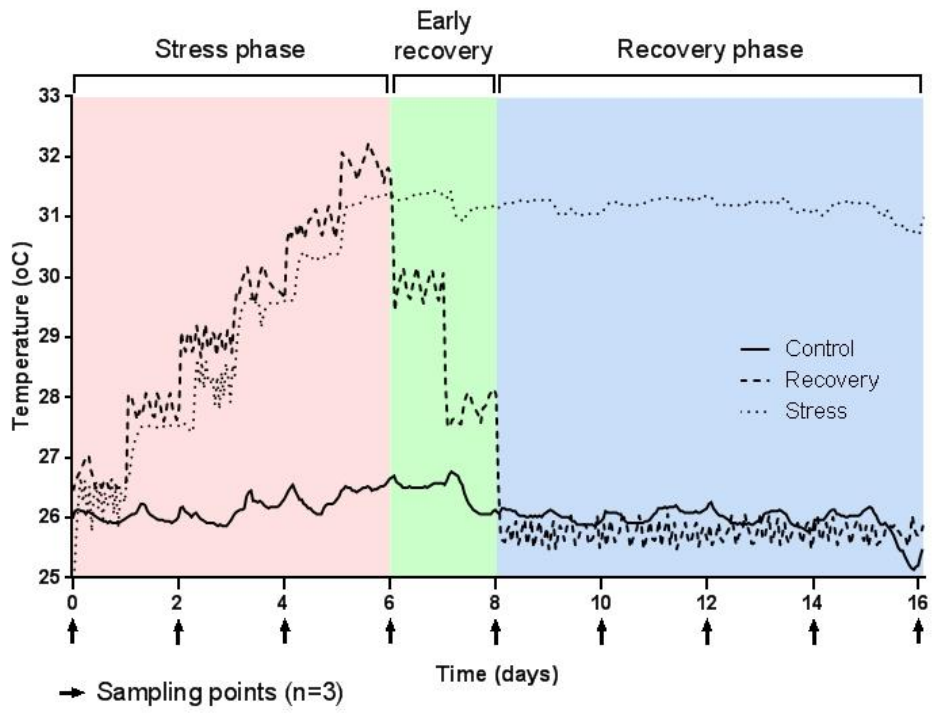
Supplementary Figure S1:

Temperature in treatments during the experimental period. The control treatment (black line) indicates relatively constant temperature (mean 26 +/- 0.5 °C) while the stress treatment shows an average 0.5°C increase every 12 hours until stabilization at 32°C on day 6. Arrows indicate the sampling events.



Supplementary Figure S2:

Configuration of the different incubation tanks.



Supplementary Figure S3:

Temperature in treatments during the thermal-induce stress and recovery experiment.