**Supplemental Information S2. Temperature factor pairwise comparisons.** Tukey adjusted P-value plots of estimated marginal means for gross and net photosynthesis, respiration rates and the P:R ratio of *X. umbellata* corals under simulated warming and DOC additions.

**Figure S2.1.** Temperature pairwise comparison for *X. umbellata*gross photosynthesis. Tukey adjusted P-value plot.



**Figure S2.2.** Temperature pairwise comparison for *X. umbellata*respiration. Tukey adjusted P-value plot.

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**Figure S2.3.** Temperature pairwise comparison for *X. umbellata*net photosynthesis. Tukey adjusted P-value plot.

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**Figure S2.4.** Temperature pairwise comparison for *X. umbellata*P:R ratio. Tukey adjusted P-value plot.

