

Modest increase in the C:N ratio of N-limited phytoplankton in the California Current in response to high CO₂

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Supplement. Additional data including normalized and pooled data (Fig. S1), pigment concentrations (Fig. S2), and total protein concentrations (Fig. S3)

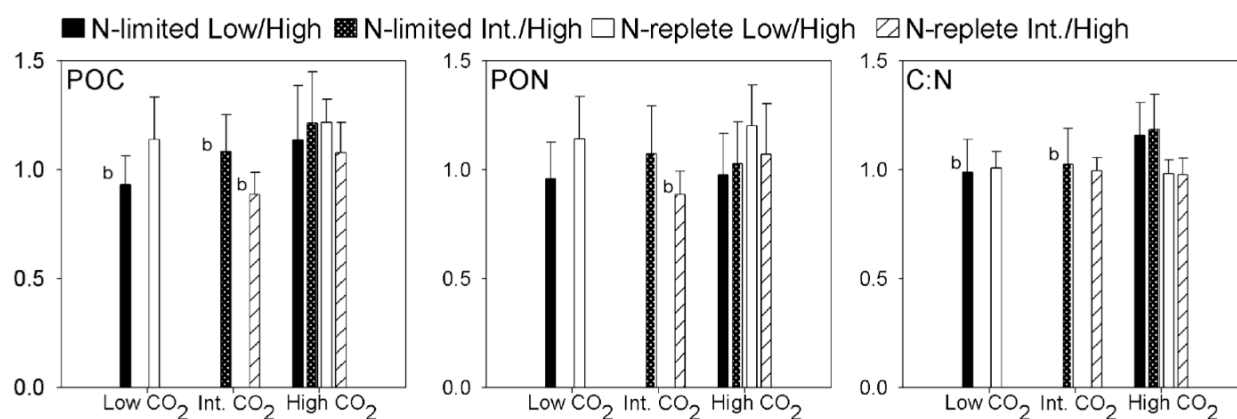


Fig. S1. POC, PON, and C:N ratios. Values are means from pooled and normalized data points from all experiments (see Materials and methods). Only bars of the same pattern should be compared. The key describes which nitrogen treatments and CO₂ treatments were compared. The 3 CO₂ treatments correspond roughly to 1/2 atmospheric CO₂, atmospheric CO₂, and 2× atmospheric CO₂ (see Table 1 for exact values). Within each nitrogen treatment, differences were assessed using *t*-tests independently comparing low and high CO₂ or intermediate and high CO₂; ^b: *t*-tests with *p* < 0.05

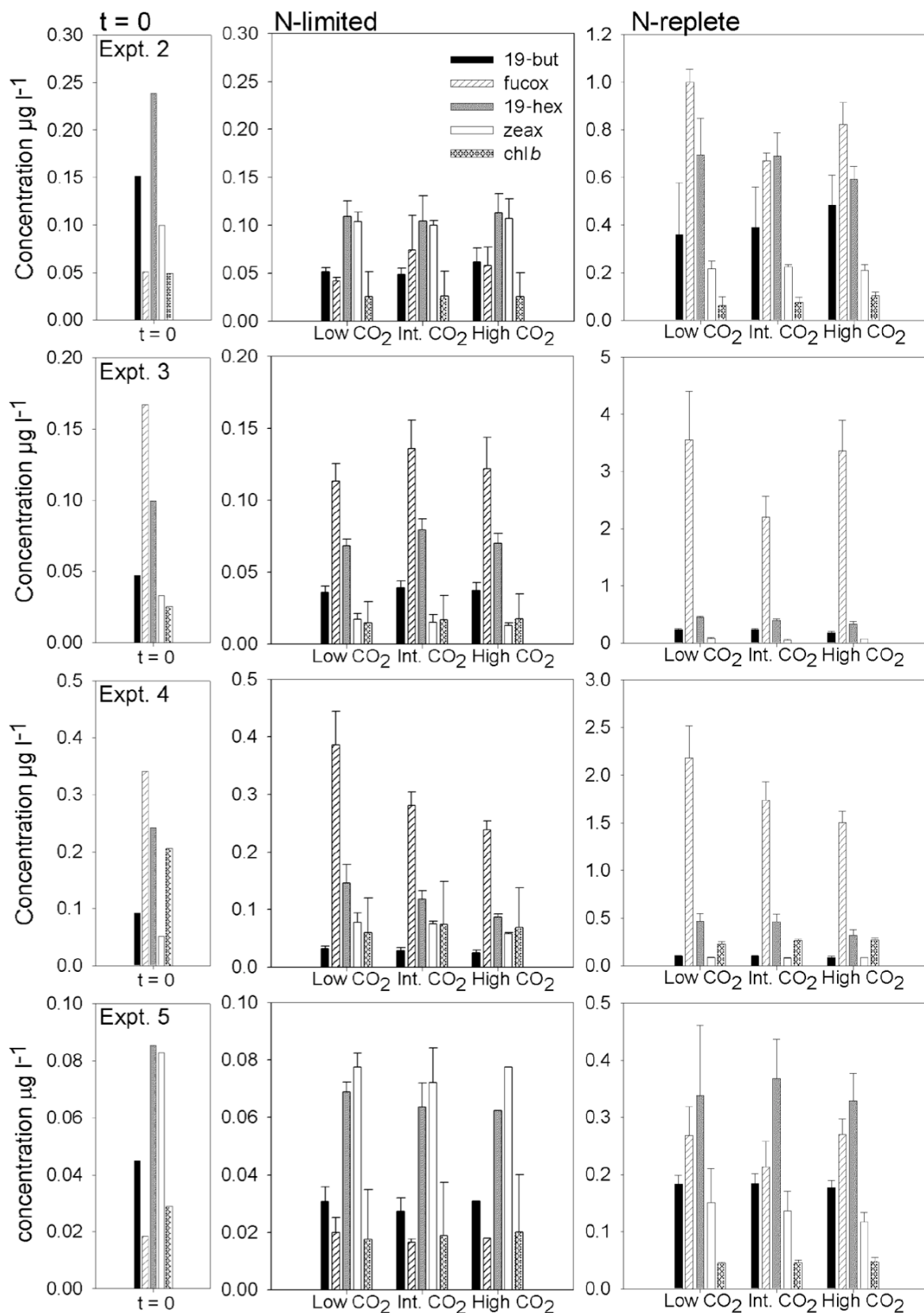


Fig. 2. Phytoplankton pigment concentrations at the initial and final time point of Expts 2–5. Pigments indicate the following taxa: 19-butanoyloxyfucoxanthin (19-but): pelagophytes, prymnesiophytes; fucoxanthin (fucox): diatoms, prymnesiophytes; 19-hexanoyloxyfucoxanthin (19-hex): prymnesiophytes; zeaxanthin (zeax): cyanobacteria; chlorophyll *b* (chl *b*): chlorophytes. Pigments shown are the 5 highest in concentration across all experiments. Final time point data are averages of triplicate bottles with error bars representing the standard deviation between replicates. Initial time point data are from a single sample. The 3 CO₂ treatments correspond roughly to ½ atmospheric CO₂, atmospheric CO₂, and 2× atmospheric CO₂ (see Table 1 for exact values)

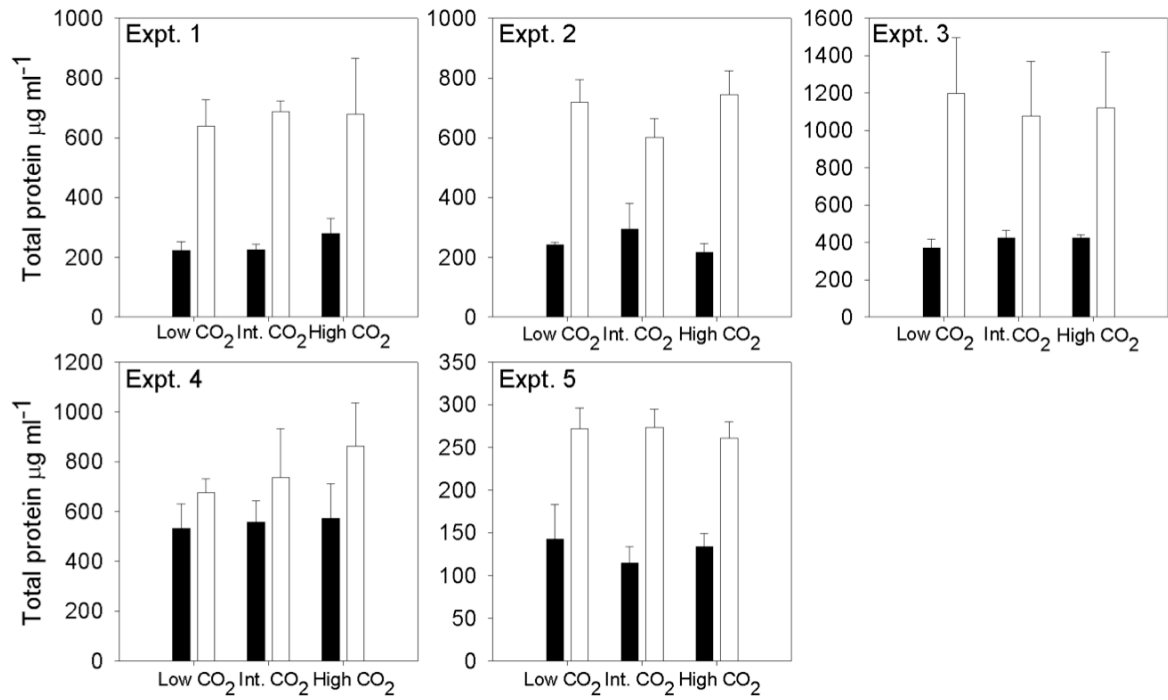


Fig. S3. Total protein concentrations at the final time point from all experiments. All data are means of triplicate bottles with error bars representing the standard deviation between replicates. The black bars are N-limited treatments and the white bars are the N-replete treatments. The 3 CO₂ treatments correspond roughly to $\frac{1}{2}$ atmospheric CO₂, atmospheric CO₂, and 2 \times atmospheric CO₂ (see Table 1 for exact values)