

Supplemental Figures and Tables. This file includes four figures and one table that expands upon information provided in the primary text.

Figure S1. Depth profiles of chlorophyll (Chl-a; $\mu\text{g L}^{-1}$) from this dataset parsed by year and season as listed at the bottom of each subpanel. Missing subpanels (Fall 2008 and Spring 2011) are due to a lack of profile data for those periods.

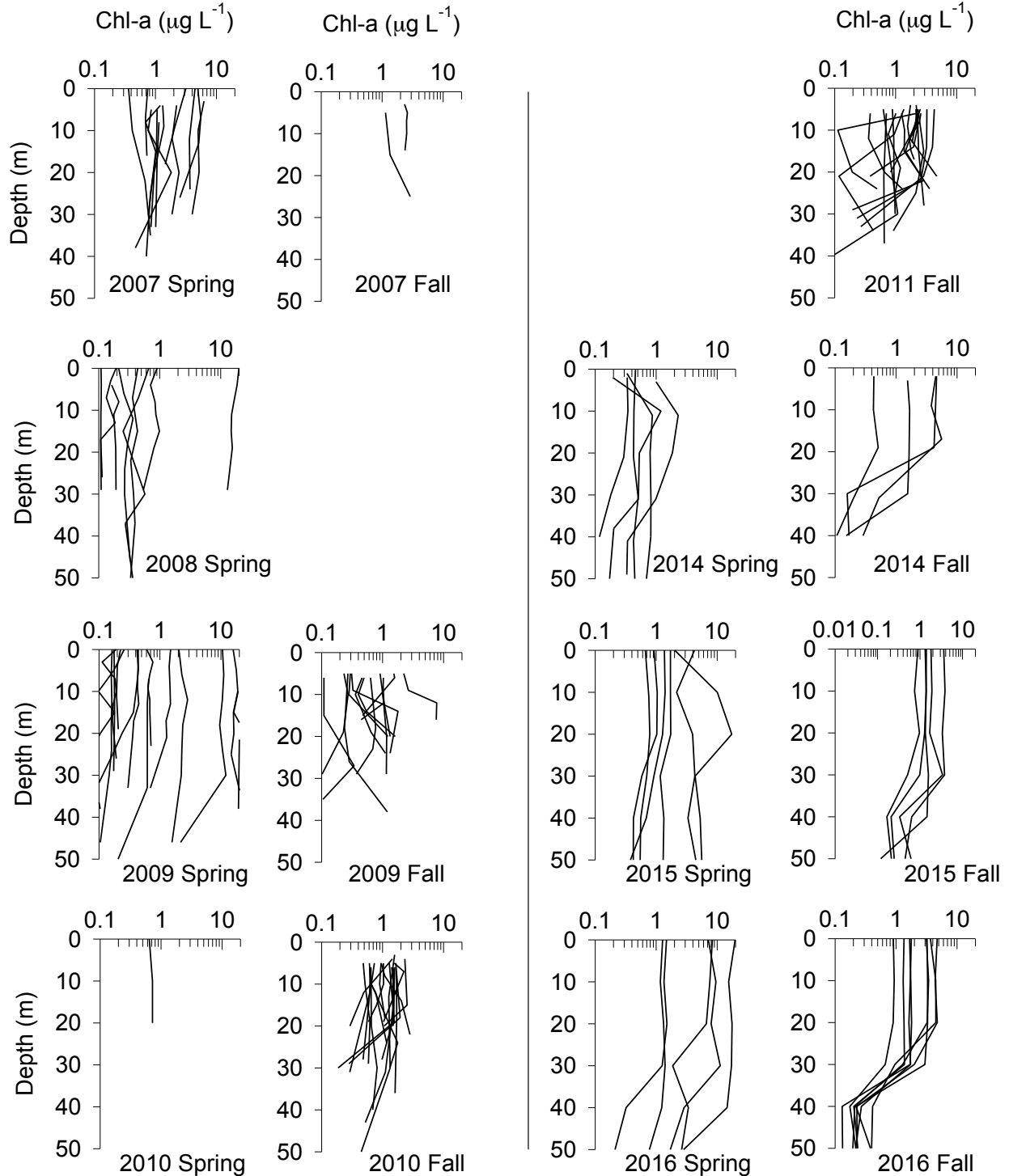


Figure S2. Depth profiles of net primary productivity ($\mu\text{gC L}^{-1} \text{h}^{-1}$) from this dataset parsed by year and season as listed at the bottom of each subpanel. Missing subpanels (Fall 2008 and Spring 2011) are due to a lack of profile data for those periods.

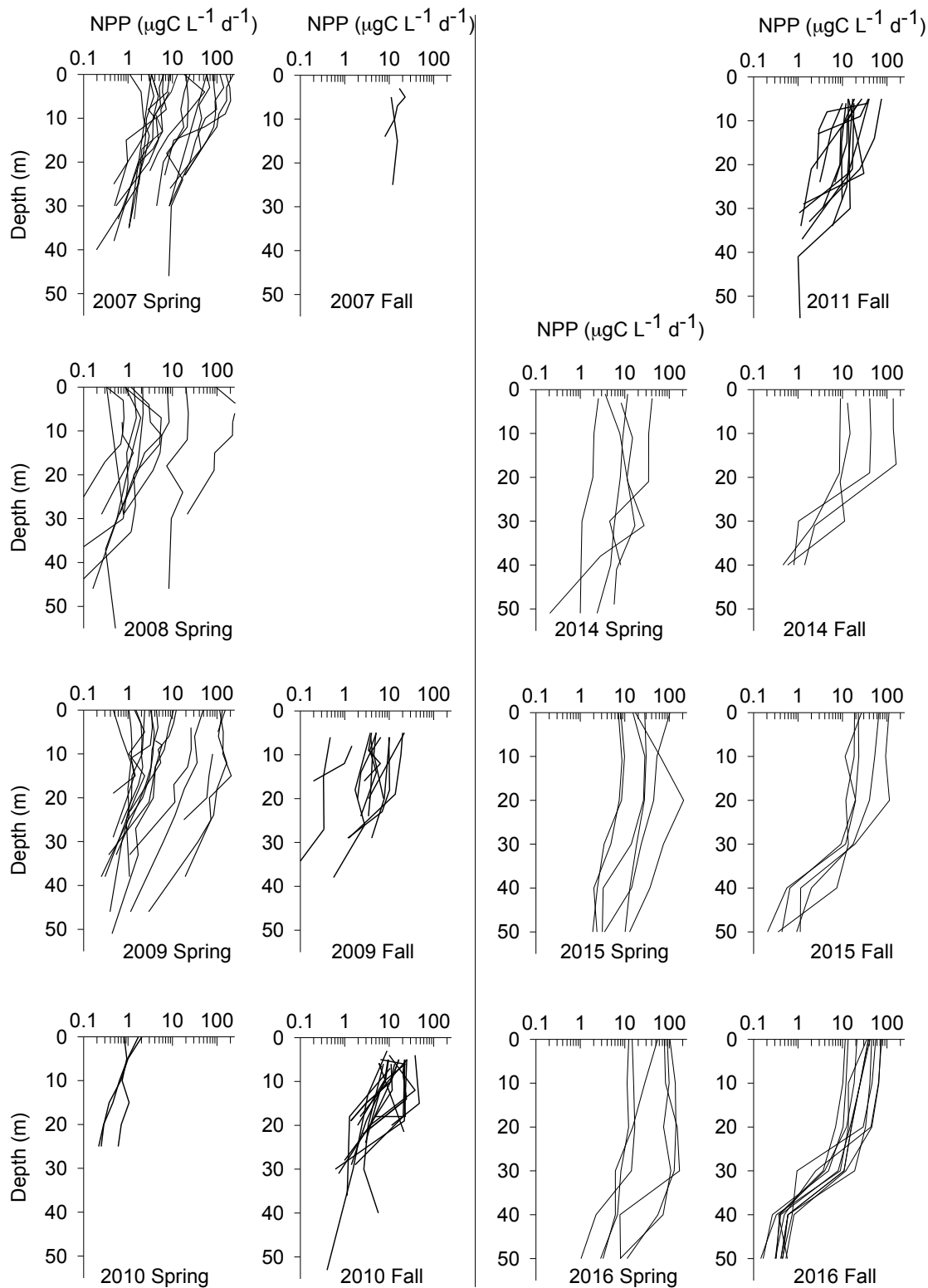


Figure S3. (A) Comparison of hourly primary production rates derived from paired 6h (x-axis) and 24h (y-axis) incubations. Each symbol type is a different cast, and multiple symbols of the same type represent incubations from different depths with shallowest incubations towards the upper right (highest rates) and deepest incubations toward the lower left (lowest rates). Thick black line is the 1:1 line, while the thin solid and dashed lines represent the linear regression and 95% confidence intervals, respectively; (B) Comparison of the same dataset as in panel A but with the 24h primary production rates represented as the measured daily rates.

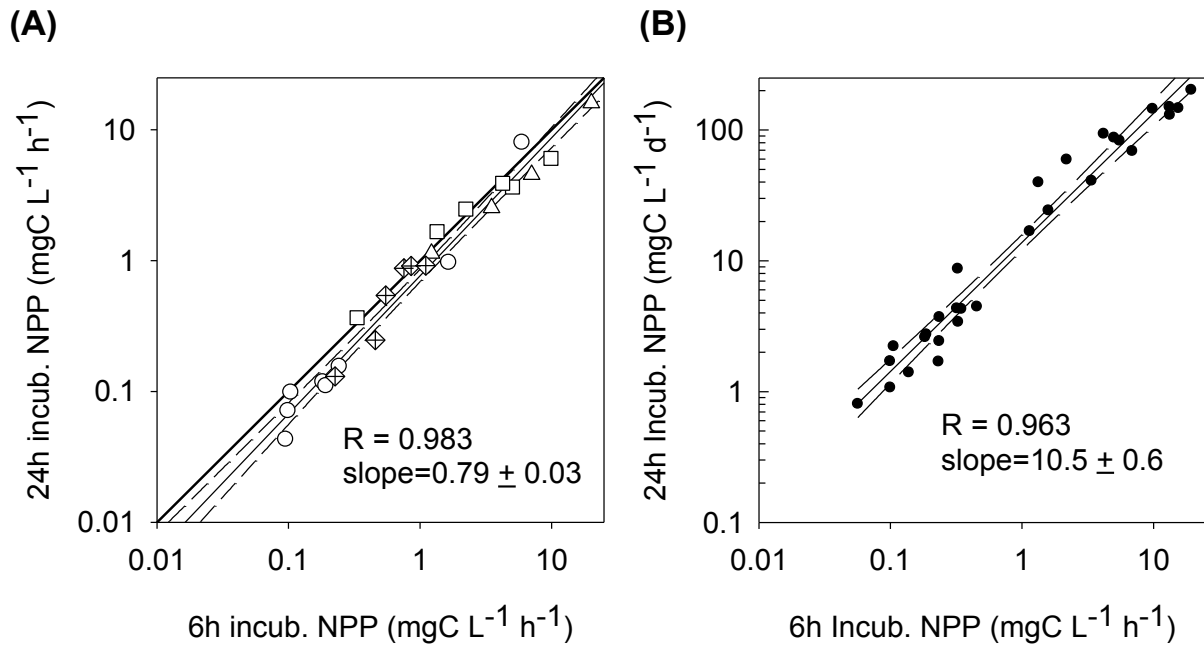


Figure S4. Bivariate plot of the 0-50 m integrated NPP ($\text{mgC m}^{-2} \text{d}^{-1}$) versus the 0-50 m depth-weighted temperature at individual stations. There is no significant relationship between these two variables.

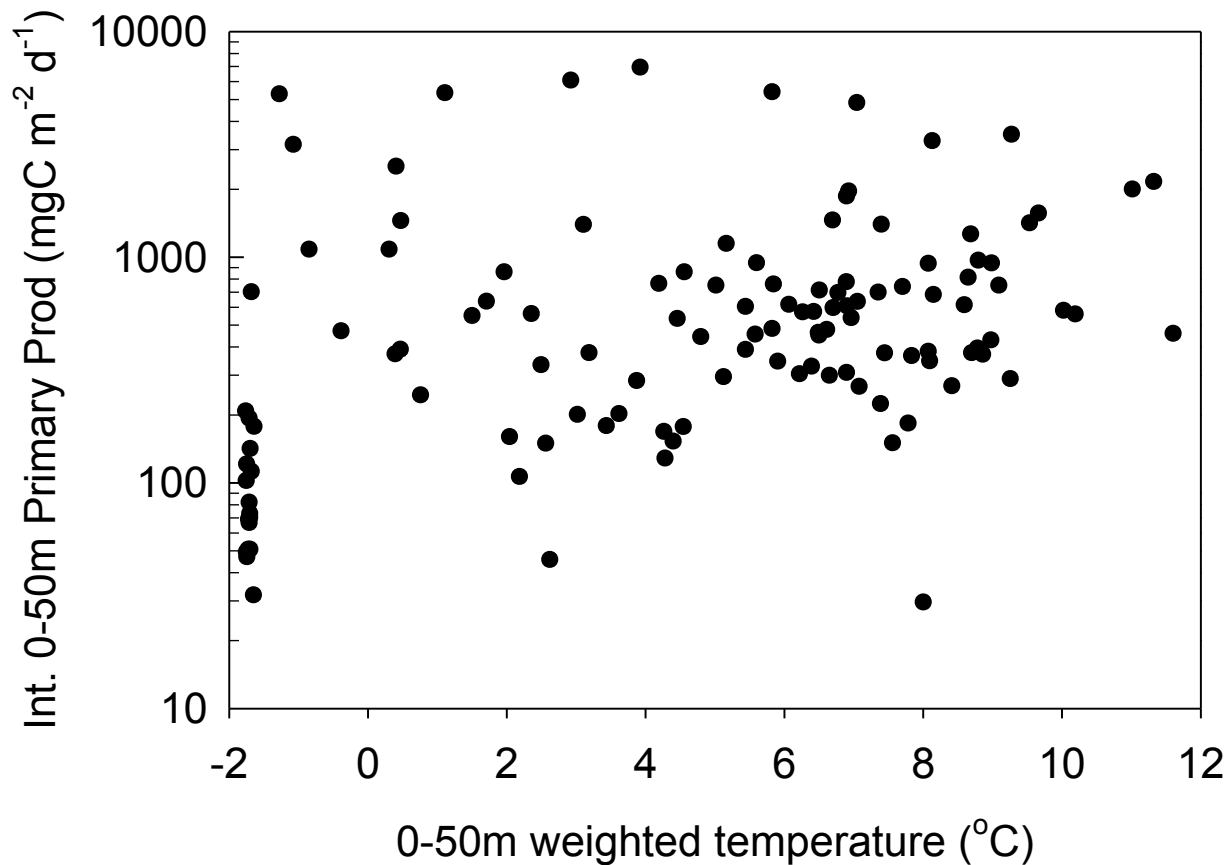


Table S1. Summary of the number (percentage of total) of Chl-a profiles at primary production stations showing a subsurface maxima (SCM), a benthos associated maxima (BAM), or a uniform or declining concentration throughout the entire profile (Profile), parsed by cold/warm years and by season (spring/fall).

Year/Season	SCM	BAM	Profile
Cold-Spring (36 profiles)	7 (19%)	4 (11%)	25 (70%)
Warm-Spring (16 profiles)	7 (44%)	2 (12%)	7 (44%)
Cold-Fall (52 profiles)	5 (10%)	20 (38%)	27 (52%)
Warm-Fall (17 profiles)	4 (24%)	0 (0%)	13 (76%)