Supplemental Table 1. The calculated medians (bold) and interquartile ranges, IQR, (parentheses) for the data parameters measured across all regimes of the Global Ocean Ship-Based Hydrographic Investigations Program (GO-SHIP) P06E transect, leg 2.

Parameter Type	GO-SHIP P06E Transect Data Parameters	Median	(IQR)
Energy	PATP (nM)	**2.2**	(2.1)
Biomass	PP (nM)	**18.12**	(12.23)
	total microbial cells (10^5 cells mL^{-1})	**10.100**	(5.035)
	total biovolume (10^5 μm^3 mL^{-1})	**0.45**	(0.32)
Energy to Biomass Ratios	PATP:PP	**0.11**	(0.10)
	PATP:Cell (amol $cell^{-1}$)	**2.0**	(2.3)
	PATP:Biovolume (amol μm^{-3})	**44**	(53)
Hydrography	temperature (°C)	**0.142**	(0.091)
	salinity (PSU)	**246.55**	(19.43)
	chlorophyll (mg m^{-3})	**34.7117**	(0.5232)
	oxygen (µM)	**15.2500**	(2.4865)
Nutrients	DIC (µM)	**2110.86**	(29.34)
	DOC (µM)	**60.9**	(6.8)
	TDP (µM)	**0.428**	(0.367)
	DIP (µM)	**0.297**	(0.385)
	DOP (µM)	**0.142**	(0.055)
	DIN (µM)	**1.98**	(4.39)
	nitrate (µM)	**1.79**	(4.37)
	nitrite (µM)	**0.02**	(0.11)
	silicate (µM)	**0.00**	(0.21)
	N:P ratio	**5.93**	(9.25)
Microbial Community	non-pigmented picoplankton (10^5 cells mL^{-1})	**0.487**	(0.724)
	total phytoplankton (10^5 cells mL^{-1})	**0.300**	(0.654)
	Prochlorococcus (10^5 cells mL^{-1})	**0.015**	(0.031)
	Synechococcus (10^5 cells mL^{-1})	**0.038**	(0.041)
	picoeukaryotic phytoplankton (10^5 cells mL^{-1})	**9.390**	(4.735)

Acronyms: particulate adenosine triphosphate (PATP); particulate phosphorus (PP); PATP normalized to PP (PATP:PP); PATP normalized to total microbial cells (PATP:Cell); PATP normalized to total biovolume (PATP:Biovolume); dissolved inorganic carbon (DIC); dissolved organic carbon (DOC); total dissolved phosphorus (TDP); dissolved inorganic phosphorus (DIP); dissolved organic phosphorus (DOP); dissolved inorganic nitrogen (DIN); DIN to DIP ratio (N:P ratio).