

	Net primary production ( $\text{Gt C yr}^{-1}$ )		
	Bulk phytoplankton	Cyanobacteria	Total
CNTRL	49.97	3.09	53.05
RETRO	48.02	3.73	51.75
	Export flux		
	Organic matter ( $\text{Gt C yr}^{-1}$ )	Opal shells ( $\text{kmol Si s}^{-1}$ )	Calcite shells ( $\text{Gt C yr}^{-1}$ )
CNTRL	7.58	3464.0	0.54
RETRO	7.78	3422.7	0.49
	Volume of OMZ ( $10^{16} \text{ m}^3$ )	Denitrification ( $\text{Tg N yr}^{-1}$ )	$R_{\text{den}}$ (%)
	CNTRL	3.90	109
RETRO	3.83	154	1.46