Table 1. Rate estimates integrated over the water column at the equator in the Pacific (140°W).

Date	Conditions*	*Prochlorococcus* division rate μ_{cc} integrated† (day^{-1})	*Prochlorococcus* production integrated‡ (mg of C m^{-2} day^{-1})	Total production integrated§ (mg of C m^{-2} day^{-1})		*Prochlorococcus* (% of production integrated)	
				Net	Gross	Net	Gross
1 April 1992	Warm El Niño	0.51	498	1033	2583	48	19
8 April 1992	Warm El Niño	0.63	347	981	2453	35	14
5 October 1992	Cold tongue	0.58	174	1385	3463	13	5
11 October 1992	Cold tongue	0.60	322	1843	4608	17	7
17 October 1992	Cold tongue	0.53	265	1571	3928	17	7

*According to Murray *et al.* (*11*). †Estimates of integrated division rates were computed as $\mu_{cc} = \ln\left[\int_0^{200} N_{1700}(z) \cdot \exp[\mu_{cc}(z)] \cdot dz / \int_0^{200} N_{1700}(z) \cdot dz\right]$, where z is the water depth, $\mu_{cc}(z)$ is obtained from Fig. 4, and N_{1700} is the cell concentration just before division. Such a procedure, which weighs division rates by cell concentrations just before division, is more accurate than a simple depth-averaged rate. ‡Depth-integrated daily production rates for *Prochlorococcus* were computed from the estimated production at each depth, as $P = \int_0^{200} C_{cell} \cdot N_{1700}(z) \cdot \left\{\exp[\mu_{cc}(z)] - 1\right\} \cdot dz$, where C_{cell} is the intracellular carbon content of *Prochlorococcus* estimated as 53 fg of C per cell (*20*). §Depth-integrated daily net production rates for the total community were computed from ^{14}C estimates (*21*). Gross production was obtained from net production divided by 0.4 (*18*).

11. J. W. Murray, R. T. Barber, M. R. Roman, M. P. Bacon, R. A. Feely, *Science* **266**, 58 (1994).
18. M. Bender, J. Orchado, M.-L. Dickson, M. E. Carr, *Eos* **75**, 29 (1994).
20. L. Campbell, H. A. Nolla, D. Vaulot, *Limnol. Oceanogr.* **39**, 954 (1994).
21. R. T. Barber, personal communication.