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Photosynthetic bacterial production in lakes: The effects of light intensity¹

T. B. Parkin and T. D. Brock

Department of Bacteriology, University of Wisconsin, Madison 53706

Abstract

Primary production was measured in six lakes supporting populations of photosynthetic sulfur bacteria. Bacteriochlorophyll concentrations (Bchl *a* + Bchl *d*) ranged from 11.1 to 630 mg·m⁻³. The photosynthetic sulfur bacteria accounted for 0.26–6.3% of the total daily production in the lakes. The percentage of photosynthetic bacterial production of total production in the lakes was not correlated with either sulfide concentration or bacteriochlorophyll concentration but was related to light intensity.