Using an Ultraviolet-Enabled Boat to Reduce Microcystin and Suppress Cyanobacterial Growth in Harmful Algal Bloom-Impacted Surface Waters

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Supporting Information

Table S1. Changes in chlorophyll *a* are shown by the concentration of chlorophyll *a* (µg/L) over 9-day period post-field trial.

Dose (mJ/cm^2)	Front/Rear	Day	Average Chlorophyll (µg/L)
0	Front	1	22.78 ± 0.84
		2	22.05 ± 1.31
		3	17.99 ± 1.18
		4	17.00 ± 0.67
		5	15.23 ± 0.38
		6	16.49 ± 1.40
		7	17.11 ± 0.71
		8	15.97 ± 1.29
		9	15.12 ± 0.64
0	Rear	1	21.46 ± 2.45
		2	20.00 ± 0.85
		3	19.70 ± 0.59
		4	17.22 ± 0.89
		5	17.21 ± 0.31
		6	15.89 ± 0.80
		7	13.28 ± 0.50
		8	13.22 ± 1.44
		9	11.99 ± 0.62
15	Front	1	18.44 ± 1.02
		2	16.22 ± 0.87
		3	19.18 ± 0.55
		4	15.78 ± 1.08
		5	15.28 ± 1.10
		6	16.53 ± 0.57
		7	15.67 ± 2.03
		8	13.15 ± 0.50
		9	11.66 ± 0.80
15	Rear	1	16.21 ± 0.59
		2	17.45 ± 0.87
		3	17.81 ± 0.45
		4	16.08 ± 1.07
		5	16.01 ± 1.26
		6	17.44 ± 1.48
		7	16.06 ± 1.02
		8	13.81 ± 1.61
		9	11.07 ± 0.49
30	Front	1	20.85 ± 0.44
		2	19.63 ± 0.43
		3	18.83 ± 1.13
		4	20.48 ± 0.67
		5	19.95 ± 2.02

		6	17.11 ± 0.18
		7	15.58 ± 0.29
		8	14.13 ± 0.78
		9	14.45 ± 1.52
30	Rear	1	19.62 ± 1.45
		2	18.69 ± 1.44
		3	20.2 ± 0.61
		4	18.83 ± 0.68
		5	17.30 ± 0.52
		6	16.12 ± 0.92
		7	20.01 ± 2.44
		8	16.72 ± 1.27
		9	14.87 ± 0.75
45	Front	1	18.10 ± 1.43
		2	20.21 ± 0.65
		3	17.97 ± 0.58
		4	17.00 ± 1.12
		5	17.73 ± 0.55
		6	19.04 ± 1.14
		7	16.20 ± 2.11
		8	11.84 ± 0.70
		9	11.53 ± 0.93
45	Rear	1	17.65 ± 0.18
		2	16.21 ± 0.88
		3	16.85 ± 0.29
		4	18.01 ± 1.65
		5	18.29 ± 2.26
		6	16.27 ± 0.30
		7	15.39 ± 0.59
		8	15.98 ± 1.78
		9	13.41 ± 0.08

Table S2. Changes in phycocyanin are shown by the concentration of phycocyanin (µg/L) over 9-day period post-field trial.

Dose (mJ/cm^2)	Front/Rear	Day	Average Phycocyanin (µg/L)
0	Front	1	13.80 ± 0.51
		2	13.67 ± 0.91
		3	11.10 ± 0.13
		4	11.08 ± 0.78
		5	9.12 ± 0.09
		6	12.48 ± 1.84
		7	11.99 ± 0.05
		8	11.43 ± 0.41
		9	11.11 ± 0.08
0	Rear	1	12.36 ± 1.54

		2	10.53 ± 0.68
		3	10.72 ± 0.14
		4	9.42 ± 0.26
		5	10.44 ± 0.47
		6	10.95 ± 0.99
		7	8.92 ± 1.24
		8	9.51 ± 0.30
		9	9.71 ± 0.58
15	Front	1	13.17 ± 0.11
		2	10.68 ± 0.51
		3	13.00 ± 0.25
		4	11.32 ± 0.89
		5	11.15 ± 0.80
		6	12.43 ± 0.49
		7	11.20 ± 1.02
		8	8.97 ± 0.70
		9	8.33 ± 1.73
15	Rear	1	12.16 ± 1.49
		2	12.38 ± 0.30
		3	11.90 ± 0.74
		4	10.54 ± 1.57
		5	11.08 ± 0.97
		6	12.58 ± 0.74
		7	12.12 ± 0.49
		8	10.35 ± 1.34
		9	8.07 ± 0.70
30	Front	1	10.67 ± 0.58
		2	10.50 ± 0.33
		3	11.46 ± 0.41
		4	12.89 ± 0.34
		5	12.05 ± 1.28
		6	10.77 ± 0.34
		7	10.16 ± 0.27
		8	11.16 ± 0.66
		9	10.76 ± 0.78
30	Rear	1	11.62 ± 1.11
		2	12.85 ± 0.34
		3	12.35 ± 0.53
		4	11.57 ± 0.65
		5	12.00 ± 0.42
		6	11.78 ± 1.15
		7	13.10 ± 1.66
		8	10.67 ± 0.38
		9	10.02 ± 0.73
45	Front	1	10.27 ± 0.86
		2	13.73 ± 0.39

		3	11.38 ± 0.23
		4	11.01 ± 1.10
		5	10.72 ± 0.48
		6	13.24 ± 0.56
		7	10.57 ± 1.74
		8	7.69 ± 0.30
		9	8.11 ± 0.83
45	Rear	1	12.13 ± 0.38
		2	11.26 ± 0.41
		3	11.51 ± 0.09
		4	11.34 ± 0.87
		5	13.21 ± 0.55
		6	11.78 ± 0.85
		7	9.52 ± 0.71
		8	10.40 ± 1.12
		9	8.61 ± 0.60