

Differences in the Effects of Storms on Dissolved Organic Carbon (DOC) in Boreal Lakes during an Early Summer Storm and an Autumn Storm

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Table S1 Initial pre-storm values and percent change for P1 and P2 samplings for [DOC], SUVA₂₅₄, a^*_{320} , a^*_{380} , $E_2:E_3$, and $S_{275-295}$, for each of the six study lakes and mean initial values and mean percent change ($\pm$ standard error) of the six study lakes for P1 and P2 samplings for the same DOC metrics. White columns indicate the Early Summer storm and gray columns indicate the Autumn storm

Lake	[DOC] (mg L ⁻¹)		SUVA ₂₅₄ (L mg-C ⁻¹ m ⁻¹)		a^*_{320} (L mg-C ⁻¹ m ⁻¹)		a^*_{380} (L mg-C ⁻¹ m ⁻¹)		$E_2:E_3$		$S_{275-295}$ (nm ⁻¹)	
	<i>Early Summer</i>	<i>Autumn</i>	<i>Early Summer</i>	<i>Autumn</i>	<i>Early Summer</i>	<i>Autumn</i>	<i>Early Summer</i>	<i>Autumn</i>	<i>Early Summer</i>	<i>Autumn</i>	<i>Early Summer</i>	<i>Autumn</i>
Jordan												
Initial value	1.8	1.6	5.04	3.95	1.50	0.99	0.63	0.27	7.1	9.7	0.022	0.027
P1 (% change)	1.8	1.4	-10.0	-0.1	-11.9	2.2	-21.4	5.8	-5.3	6.0	6.3	-2.3
P2 (% change)	1.8	0.6	-10.0	1.4	-14.4	6.1	-33.9	23.3	18.5	-8.4	8.1	-2.6
Bubble												
Initial value	1.7	1.6	5.00	3.10	1.48	0.75	0.53	0.23	7.1	9.6	0.022	0.026
P1 (% change)	5.7	2.3	-7.0	12.7	-7.3	26.6	-16.2	16.4	4.9	-4.2	1.8	-5.7
P2 (% change)	0.4	5.7	-4.4	11.6	-4.9	32.0	-15.1	36.6	15.4	-18.3	3.6	-9.1
Eagle												
Initial value	1.9	1.7	4.13	3.05	1.13	0.70	0.42	0.18	7.8	11.3	0.024	0.028
P1 (% change)	14.0	-3.4	-10.3	7.0	-8.6	5.9	-11.2	62.8	-2.3	-0.7	1.7	-0.4
P2 (% change)	-3.6	-5.7	-3.6	9.4	-7.4	12.9	-18.6	35.9	12.6	-9.9	5.8	-0.4
Echo												
Initial value	2.7	2.3	5.47	4.31	1.68	1.09	0.57	0.36	7.4	9.4	0.022	0.025

P1 (% change)	3.3	-0.4	-4.6	0.0	-3.0	-1.8	8.8	7.6	-9.9	-6.3	0.0	1.1
P2 (% change)	-2.5	-1.4	-3.2	10.2	-6.9	32.1	-11.5	75.3	10.9	-34.4	4.6	-7.9
Long												
Initial value	2.9	2.6	6.27	5.14	2.17	1.55	0.78	0.51	6.3	7.4	0.019	0.022
P1 (% change)	0.7	-0.9	-1.8	1.4	0.1	1.3	-0.7	-3.8	-2.3	6.7	-3.6	-0.9
P2 (% change)	-2.7	-3.2	-2.4	3.5	-3.8	3.2	-7.0	-0.6	5.1	3.4	3.1	-0.5
Seal Cove												
Initial value	4.3	3.8	6.26	4.52	2.16	1.29	0.73	0.41	6.5	8.2	0.019	0.023
P1 (% change)	-4.8	-7.0	0.7	10.8	-0.5	21.2	-1.6	53.1	2.4	-19.5	1.6	-6.1
P2 (% change)	-6.1	-5.6	0.8	3.4	-2.0	2.4	-4.0	4.0	6.0	1.4	2.6	1.3
Mean												
Initial value	2.6 ± 0.4	2.3 ± 0.3	5.36 ± 0.3	4.01 ± 0.3	1.69 ± 0.2	1.06 ± 0.1	0.61 ± 0.05	0.33 ± 0.05	7.0 ± 0.2	9.3 ± 0.5	0.021 ± 0	0.025 ± 0
P1 (% change)	3.4 ± 2.5	-1.3 ± 1.4	-5.5 ± 1.8	5.3 ± 2.3	-5.2 ± 2.0	9.2 ± 4.8	-7.1 ± 4.6	23.7 ± 11.2	-2.1 ± 2.2	-3.0 ± 3.9	1.3 ± 1.3	-2.4 ± 1.2
P2 (% change)	-2.1 ± 1.1	-1.6 ± 1.8	-3.8 ± 1.4	6.6 ± 1.8	-6.6 ± 1.8	14.8 ± 5.7	-15.0 ± 4.3	29.1 ± 11.2	11.4 ± 2.1	-11.0 ± 5.7	4.7 ± 0.8	-3.0 ± 1.8

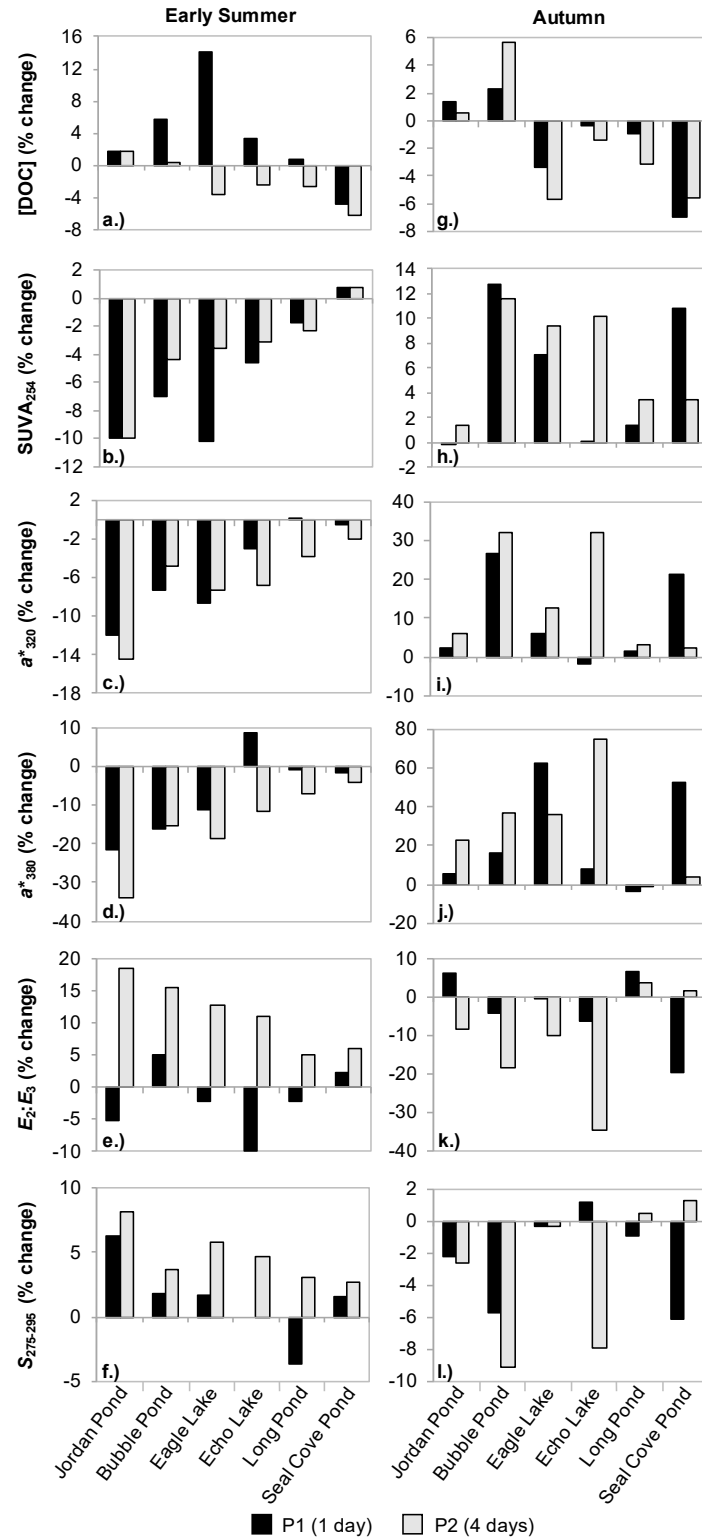


Figure S1 Percent change for each lake in response to the Early Summer storm (a–f) and to the Autumn storm (g–l) for [DOC] (a,g), SUVA₂₅₄ (b,h), a^*_{320} (c,i), a^*_{380} (d,j), $E_2:E_3$ (e,k), and $S_{275-295}$ (f,l) during P1 and P2 samplings indicated by black and gray respectively