

Online Resources 3: Dry weight (% of wet weight) and Ash (mg g⁻¹ DW) for all locations and all sampling dates. Mean $\pm$ SE, n=3, **n=2, *n=1

		DW (% of WW)		Ash (mg g ⁻¹ DW)	
Location		1-2 m	8-9 m	1-2 m	8-9 m
1-58°N	2-May	10.4 $\pm$ 0.4	7.4 $\pm$ 0.1	352.7 $\pm$ 17.8	518.9 $\pm$ 8.0
	18-May	11.6 $\pm$ 1.4	8.8 $\pm$ 0.9	347.0 $\pm$ 50.3	456.9 $\pm$ 35.4
	12-Jun	14.9 $\pm$ 0.6	11.7 $\pm$ 0.1	278.3 $\pm$ 29.9	405.2 $\pm$ 29.6
	03-Jul	16.5 $\pm$ 0.6	13.6 $\pm$ 0.4	367.4 $\pm$ 8.3	450.7 $\pm$ 15.6
	06-Sep	16.0 $\pm$ 2.5	16.6 $\pm$ 1.3	350.7 $\pm$ 41.1	374.2 $\pm$ 10.5
2-60°N	18-Apr	11.0 $\pm$ 0.9	8.4 $\pm$ 0.7	406.4 $\pm$ 7.7	505.9 $\pm$ 29.6
	03-May	14.4 $\pm$ 2.0	9.9 $\pm$ 1.4	318.9 $\pm$ 17.3	437.2 $\pm$ 35.5
	15-May	13.6 $\pm$ 0.1	9.5 $\pm$ 0.2	301.1 $\pm$ 18.7	416.5 $\pm$ 24.8
	02-Jun	11.5 $\pm$ 0.4	12.3 $\pm$ 0.8	403.3 $\pm$ 33.7	327.5 $\pm$ 3.9
	14-Jun	12.7 $\pm$ 1.1	12.9 $\pm$ 1.0	416.0 $\pm$ 12.6	384.8 $\pm$ 1.1
3-60°N	14-Jul	17.8 $\pm$ 2.0		386.1 $\pm$ 14.3	
	18-Apr	13.2 $\pm$ 1.8	10.4 *	367.8 $\pm$ 47.9	388.9*
	04-May	13.2 $\pm$ 0.7	11.6 $\pm$ 3.2	292.4 $\pm$ 8.6	477.7 $\pm$ 24.7
	16-May	13.7 $\pm$ 1.6	8.9 $\pm$ 0.6	323.1 $\pm$ 25.2	427.2 $\pm$ 28.6
	01-Jun	14.5 $\pm$ 2.3	15.2 $\pm$ 1.4	309.6 $\pm$ 30.7	350.1 $\pm$ 22.7
4-60°N	13-Jun	13.9 $\pm$ 0.3	12.3 $\pm$ 0.7	411.4 $\pm$ 31.2	418.6 $\pm$ 21.2
	05-Jul	16.0 $\pm$ 0.5	17.0 $\pm$ 1.4	389.5 $\pm$ 4.2	402.8 $\pm$ 11.7
	09-Aug	20.0 $\pm$ 0.1	14.4 $\pm$ 1.5	348.2 $\pm$ 1.8	438.1 $\pm$ 42.8
	04-Sep	15.1 $\pm$ 1.0	17.2 $\pm$ 0.2	358.5 $\pm$ 21.3	366.7 $\pm$ 4.2
	17-Apr	11.8 $\pm$ 1.8	11.3 $\pm$ 0.5	316.7 $\pm$ 21.7	292.5 $\pm$ 19.2
5-61°N	04-May	14.6 $\pm$ 0.5	11.5 $\pm$ 0.2	232.8 $\pm$ 8.9	315.4 $\pm$ 6.9
	18-May	14.9 $\pm$ 1.3	7.9 $\pm$ 0.4	205.2 $\pm$ 4.0	344.1 $\pm$ 20.2
	01-Jul	18.4 $\pm$ 0.9	6.8 $\pm$ 0.3	118.2 $\pm$ 8.1	283.9 $\pm$ 8.4
	13-Jun	27.1 $\pm$ 2.6	12.7 $\pm$ 1.2	142.0 $\pm$ 11.1	298.0 $\pm$ 21.8
	09-Jul	19.1 $\pm$ 3.0	10.3 $\pm$ 0.4	140.2 $\pm$ 27.2	343.0 $\pm$ 3.6
6-63°N	3-May	11.7 $\pm$ 1.1	8.4 $\pm$ 0.5	367.1 $\pm$ 41.9	480.9 $\pm$ 25.4
	29-May	18.3 $\pm$ 2.2	14.8 $\pm$ 2.6	274.8 $\pm$ 11.5	297.4 $\pm$ 22.6
7-67°N	25-Apr	21.6 $\pm$ 0.8	12.4 $\pm$ 2.6	360.8 $\pm$ 29.9	441.2 $\pm$ 31.5
	04-May	14.1 $\pm$ 1.4	13.8 $\pm$ 2.3	339.1 $\pm$ 69.1	366.8 $\pm$ 79.8
	18-May	13.9 $\pm$ 1.9	13.5 $\pm$ 1.5	335.8 $\pm$ 155.0	369.1 $\pm$ 76.9
	31-May	15.3 $\pm$ 2.0	12.5 $\pm$ 1.6	418.8 $\pm$ 59.6	409.9 $\pm$ 90.1
	15-Jun	23.4 $\pm$ 0.4	12.9 $\pm$ 1.0	242.4 $\pm$ 54.8	440.9 $\pm$ 42.2
8-67°N	03-Jul	21.9 $\pm$ 3.0	14.6 $\pm$ 1.1	309.4 $\pm$ 69.0	432.6 $\pm$ 34.0
	09-Aug	23.6 $\pm$ 2.9	14.8 $\pm$ 1.5	312.5 $\pm$ 19.2	411.3 $\pm$ 27.0
	27-Apr	21.4 $\pm$ 4.8	18.9 $\pm$ 3.0	356.2 $\pm$ 21.0	406.3 $\pm$ 42.6
	04-May	18.1 $\pm$ 0.7	11.8 $\pm$ 1.8	400.9 $\pm$ 18.8	428.7 $\pm$ 7.9
	22-May	23.0 $\pm$ 10.8	11.9 $\pm$ 1.6	286.2 $\pm$ 78.0	455.3 $\pm$ 20.0
9-67°N	30-May	16.0 $\pm$ 1.7	9.1 $\pm$ 0.7	317.0 $\pm$ 26.0	473.8 $\pm$ 20.6
	16-Jun	15.3 $\pm$ 1.8	10.6 $\pm$ 0.5	206.8 $\pm$ 22.8	405.7 $\pm$ 14.3
	07-Jul	22.8 $\pm$ 4.3	10.8 $\pm$ 2.7	146.1 $\pm$ 14.1	384.5 $\pm$ 16.3
	18-Aug	16.6 $\pm$ 6.2	21.8 $\pm$ 2.4	349.1 $\pm$ 75.5	212.3 $\pm$ 22.7

		DM (% of WW)		Ash (mg g ⁻¹ DW)	
Location		1-2 m	8-9 m	1-2 m	8-9 m
8-67°N**	23-Apr	9.9 ± 0.3	10.8 ± 2.5	390.3 ± 11.7	364.3 ± 59.0
	14-May	10.4 ± 1.1	9.4 ± 0.1	366.4 ± 34.5	436.6 ± 18.0
	04-Jun	9.6 ± 1.2	10.8 ± 1.8	335.0 ± 41.4	313.2 ± 28.3
	17-Jun	9.6 ± 1.0	15.9 ± 5.2	332.7 ± 7.5	267.4 ± 8.9
	10-Jul	12.0 ± 0.3	23.7 ± 4.7	300.6 ± 7.1	286.2 ± 1.7
9-69°N	**21-Apr	11.8 ± 1.0	8.8 ± 0.4	350.8 ± 35.3	434.5 ± 36.1
	**5-May	14.5 ± 2.0	8.1 ± 1.6	263.4 ± 69.3	473.3 ± 19.6
	16-May	12.5 ± 0.6	10.0 ± 0.7	427.6 ± 40.7	474.3 ± 27.1
	31-May	12.4 ± 2.6	11.6 ± 1.3	420.4 ± 58.6	442.5 ± 39.2
	14-Jun	22.6 ± 2.3	13.3 ± 0.7	228.3 ± 1.5	398.0 ± 13.2
	05-Jul	13.6 ± 0.8	12.6 ± 0.9	401.0 ± 17.6	474.3 ± 6.9
	09-Aug	14.1 ± 1.8	15.5 ± 3.7	407.0 ± 45.8	375.9 ± 31.2
	05-Sep	22.6 ± 3.5	10.8 ± 1.5	324.1 ± 42.1	454.7 ± 24.1
	28-Sep	22.7 ± 3.9	14.6 ± 1.7	264.1 ± 39.4	448.5 ± 32.7