

Table 1

Concentrations and isotopic compositions of measured carbon species.

Sample ID <sup>a</sup>	Site <sup>b</sup>	Measured							
		Max. Temp. (°C)	Mg (mmol/kg)	DOC ( $\mu\text{mol/L}$ ) <sup>c</sup>	<sup>13</sup> C (‰) <sup>d</sup>	Formate ( $\mu\text{mol/L}$ ) <sup>d</sup>	SD ( $n = 2$ )	Acetate ( $\mu\text{mol/L}$ ) <sup>d</sup>	SD ( $n = 2$ )
3865m23	Seawater		54.1	46	-22.5	bd		bd	
3870p23	LC-8	39.5	31.6	74	-	14	1	9	1
3877m23	LC-H	-	43.8	68	-19.7	-		-	
3878b8	LC-H	31.2	34.2	80	-18.0	37	10	13	3
3878b9	LC-H	24.0	41.4	58	-21.0	-		-	
3878bf11	LC-H	46.9	28.3	71	-16.8	-		-	
3870b8	LC-IF/2	56.5	12.9	94	-	93	52	7.5	0.8
3874bf14	LC-C	67.5	15.1	84	-12.8	82	6	5.9	0.4
3874p22	LC-C	68.7	13.0	89	-	86	4	5.8	0.8
3874pf23	LC-B	90.9	2.1	101	-	140	7	8.3	0.4
3874pf24	LC-B	91.0	3.4	98	-12.8	-		-	
3876m23	LC-B	90.7	2.3	88	-10.5	140	8	7	1
3876m24	LC-B	90.7	0.6	102	-	144	8	9	2
3876m14	LC-B	90.7	1.2	106	-13.8	-		-	
3876m4	LC-B	90.7	0.9	92	-13.6	-		-	
3863m24	LC-3	81.0	34.5	68	-18.6	54	6	1.3	1.3
3878p4	LC-3	37.1	37.9	67	-	bd		bd	
3878b18	LC-3	50.8	30.6	75	-	bd		bd	
3863m11	LC-3	81.0	3.0	97	-12.3	-		-	
3878pf24	LC-3	73.2	16.9	91	-14.5	-		-	

<sup>a</sup> Samples were collected using a variety of sampling devices: m, titanium major bottles; b or p, HFPS; bf, filtered HFPS samples.

<sup>b</sup> Marker 2 and IF are the same location; both labels have been used in the literature.

<sup>c</sup> For brevity, not all measured DOC concentrations are reported. All are presented in Fig. 2a.

<sup>d</sup> bd, below detection (1  $\mu\text{M}$ ); -, not determined.