

Supporting Information for “Origin and temporal variability of unusually low $\delta^{13}\text{C}$ -DOC values in two high Arctic catchments”

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Contents of this file

1. Table S1

Introduction This supporting information provides the data used to construct Figure 3 in the main article.

Table S1. Summary of concentration and C isotopic compositions for DOC, DIC and POC.

Sample	Time (local)	Runoff (m^3/s)	pH	Alkalinity ($\mu\text{molC/L}$)	DIC ¹ ($\mu\text{molC/L}$)	DOC ($\mu\text{molC/L}$)	POC (mmolC/L)	$\delta^{13}\text{C}$ -DOC ‰	$\delta^{13}\text{C}$ -DIC ‰	$\delta^{13}\text{C}$ -POC ‰
Dryadreen (glaciated)										
20120615D	11:26	0.29	6.9	263	372	284	3392	-39.3	-8.0	-26.1
20120616D	18:18		6.1	212	834					
20120617D	10:20	0.39	5.9	195	948	219	2400	-38.7	-4.3	-26.3
20120618D	09:40		6.8	210	448					
20120725D	10:10		6.8	315	432	2071	1942	-43.6	-5.1	-26.2
20120726D	20:11	0.43	7.3	331	378					
20120727D	09:00		7.2	372	439	908	1808	-41.6	-5.6	-26.2
20120728D	19:28	0.50	6.7	249	349					
20120729D	08:45	0.35	6.3	284	456	1418	2200	-43.8	-4.0	-26.2
20120730D	19:22	0.46	6.9	307	392					
20120731D	08:37	0.25	6.9	349	451	443	1917	-41.2	-2.1	-26.2
20120801D	16:17	0.39	6.9	212	280					
20120802D	08:50	0.36	6.9	299	389	132	2117	-27.6	-5.1	-26.4
20120803D	19:10	0.38	6.7	346	485					
Fardalen (unglaciated)										
20120614F	10:26		7.4	130	147	662		-41.0	-8.0	
20120615F	17:46		7.3	151	171					
20120616F	10:25		7.2	116	135	1159	2025	-41.0		-26.4
20120617F	16:28		5.7	124	231					
20120618F	09:35	0.90	6.2	134	225	433	1683	-39.0	-14.7	-26.6
20120725F	18:51		7.1	225	271					
20120726F	09:10	0.24	6.3	241	392	1191	2158	-41.8	-4.0	-26.8
20120727F	19:32	0.27		219						
20120728F	09:05	0.14	5.8	135	247	565	2192	-40.9	-8.5	-26.0
20120729F	19:19	0.38	6.3	239	393					
20120730F	09:30	0.26	6.7	201	282	537	2075	-40.9	-4.1	-26.5
20120731F	18:10	0.38	6.8	259	346					
20120801F	08:35	0.23	7.2	223	265	113	3292	-28.1	-11.6	
20120802F	19:35	0.14	6.9	269	356					
20120803F	08:55	0.14	6.9	265	347	766		-41.0	-3.8	
Supra-glacial sample										
20120801SG	13:50					73		-27.1		

¹ Calculated using measured pH and alkalinity.