



Supplement of

Total organic carbon and the contribution from speciated organics in cloud water: airborne data analysis from the CAMP²Ex field campaign

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Table S3: Same as Table S1 except for the Fire case (n = 4).

Gly	1.00																					
Ace		1.00																				
For			1.00																			
Pyr				1.00																		
Glu					1.00																	
Adi						1.00																
Suc							1.00															
Mal								1.00														
Ox									1.00													
MSA										1.00												
DMA											1.00											
TOC												1.00										
Na													1.00									
NH₄														1.00								
K															1.00							
Mg																1.00						
Ca																	1.00					
Cl																		1.00				
NO₂																			1.00			
Br																				1.00		
NO₃																					1.00	
SO₄																						1.00
	Gly	Ace	For	Pyr	Glu	Adi	Suc	Mal	Ox	MSA	DMA	TOC	Na	NH₄	K	Mg	Ca	Cl	NO₂	Br	NO₃	SO₄

Table S4: Same as Table S1 except for the Clark case (n = 25).

Gly	1.00																								
Ace	-0.66	1.00																							
For	-0.60	0.92	1.00																						
Pyr	-0.50	0.60	0.55	1.00																					
Glu	-0.44	0.66	0.81	0.68	1.00																				
Adi	0.45					1.00																			
Suc	-0.43	0.64	0.86	0.41	0.90		1.00																		
Mal	-0.40			0.54				1.00																	
Ox		0.58	0.78	0.48	0.92		0.93		1.00																
MSA					0.45		0.48		0.63	1.00															
DMA							0.67				1.00														
TOC	-0.49	0.83	0.89	0.70	0.87		0.76		0.83	0.40		1.00													
Na					0.51		0.58		0.73	0.70		0.46	1.00												
NH ₄	-0.57	0.71	0.76	0.78	0.78		0.64		0.71			0.89	0.49	1.00											
K			0.49		0.68		0.74		0.81	0.57		0.53	0.85	0.47	1.00										
Mg					0.50		0.56		0.72	0.70		0.46	1.00	0.48	0.84	1.00									
Ca						0.71							0.44			0.46	1.00								
Cl					0.49		0.56		0.71	0.69		0.45	1.00	0.50	0.84	1.00	0.43	1.00							
NO ₂	-0.44	0.66						0.63		0.62								1.00							
Br					0.42		0.47		0.62	0.70		0.93	0.43	0.74	0.92		0.94						1.00		
NO ₃		0.60	0.69	0.50	0.71		0.67		0.84	0.56		0.83	0.75	0.71	0.70	0.74	0.54	0.72				0.61	1.00		
SO ₄			0.61	0.52	0.74		0.73		0.85	0.64		0.71	0.88	0.78	0.77	0.86	0.88					0.85	0.81	1.00	
Gly	Ace	For	Pyr	Glu	Adi	Suc	Mal	Ox	MSA	DMA	TOC	Na	NH ₄	K	Mg	Ca	Cl	NO ₂	Br	NO ₃	SO ₄				

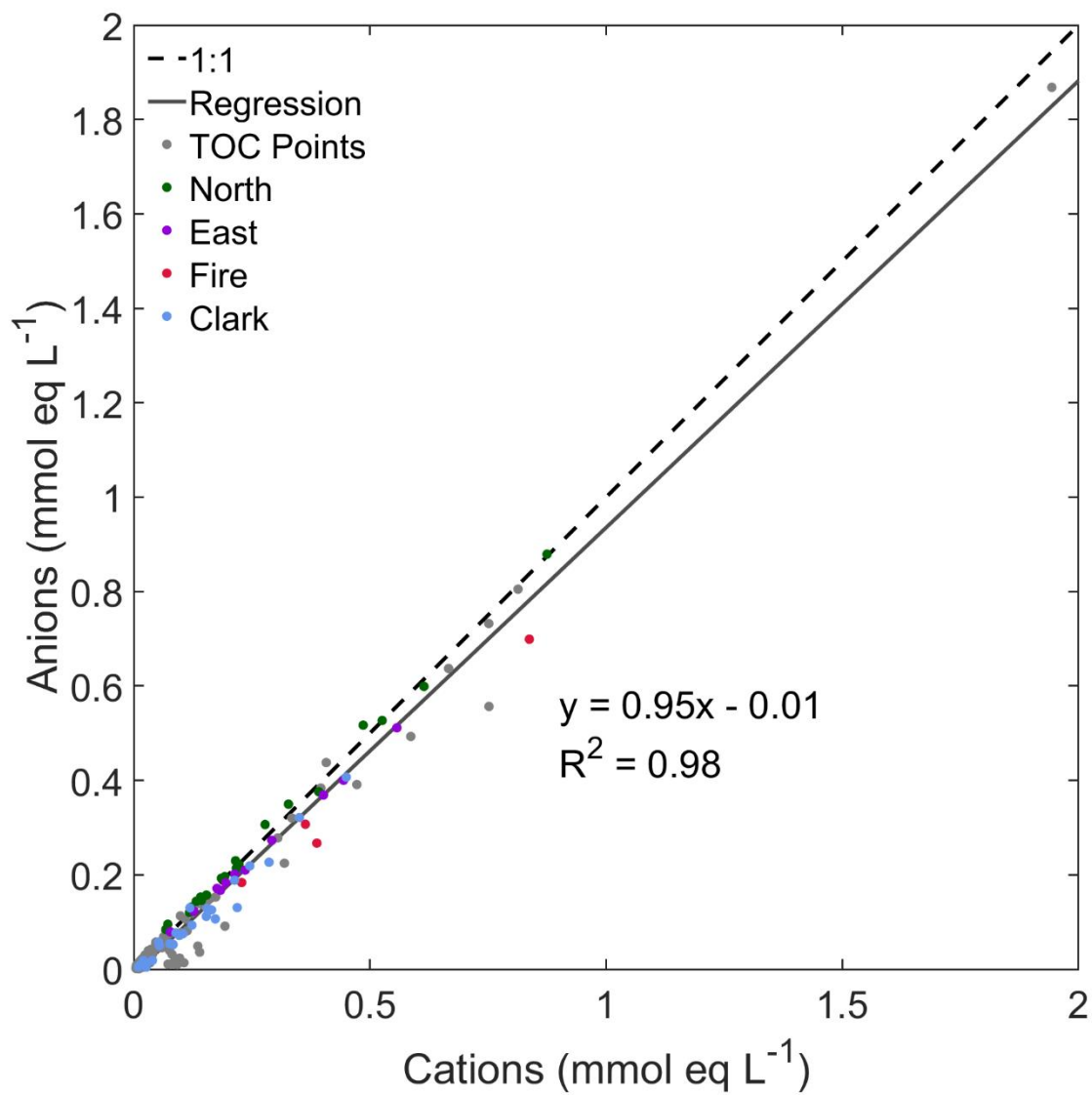


Figure S1: Charge balance summary of the 159 cloud water samples based on ion measurements of H^+ , Na^+ , NH_4^+ , DMA, K^+ , Mg^{2+} , Ca^{2+} , OH^- , glycolate, acetate, formate, MSA, pyruvate, Cl^- , NO_2^- , Br^- , NO_3^- , glutarate, adipate, succinate, maleate, SO_4^{2-} , and oxalate.