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Spatial variations in snowpack chemistry, isotopic composition of NO_3^- and nitrogen deposition from the ice sheet margin to the coast of western Greenland

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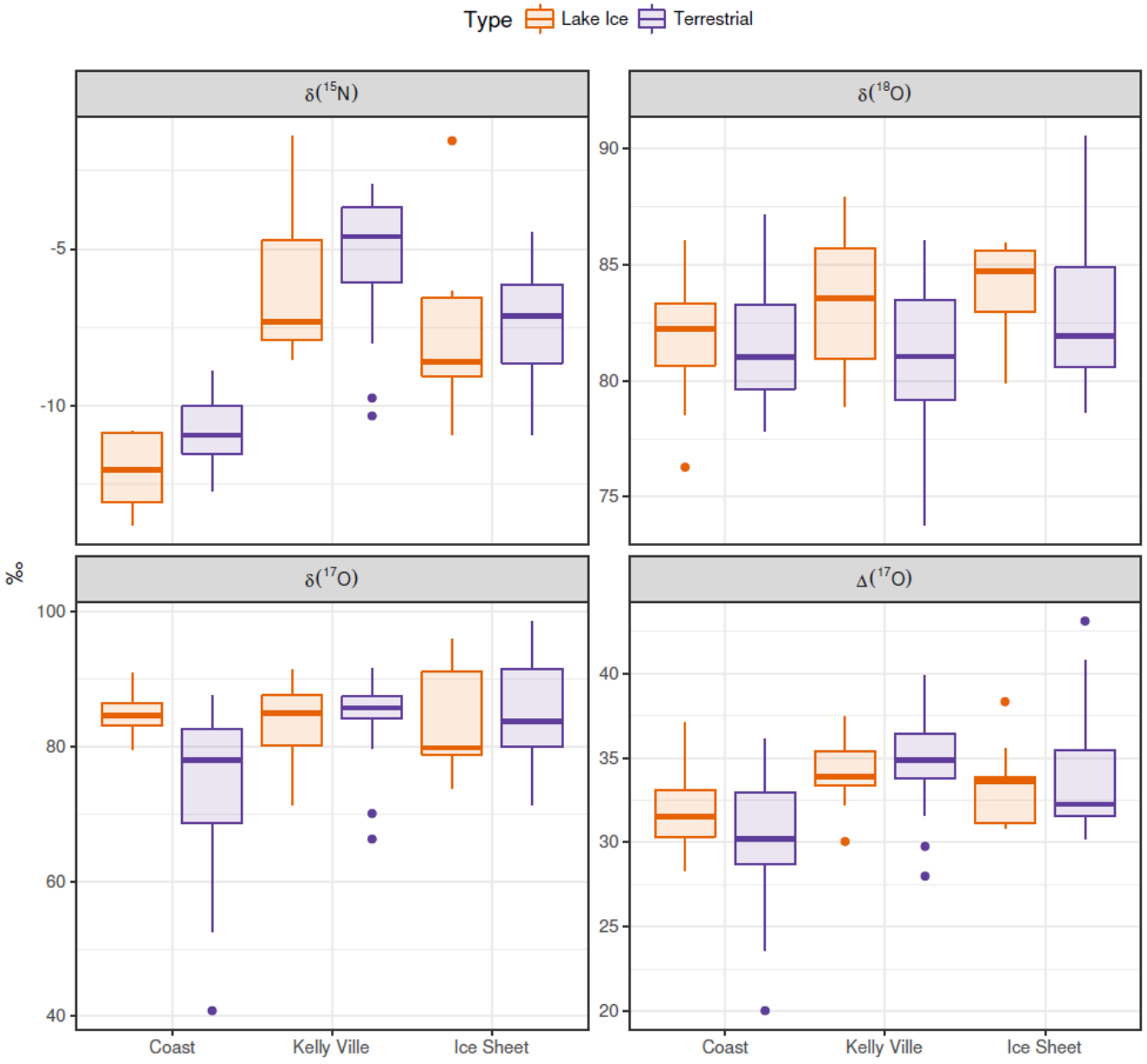

Figure S.I. 1: Comparison of stable isotopes of nitrate in terrestrial and lake ice snowpack by region

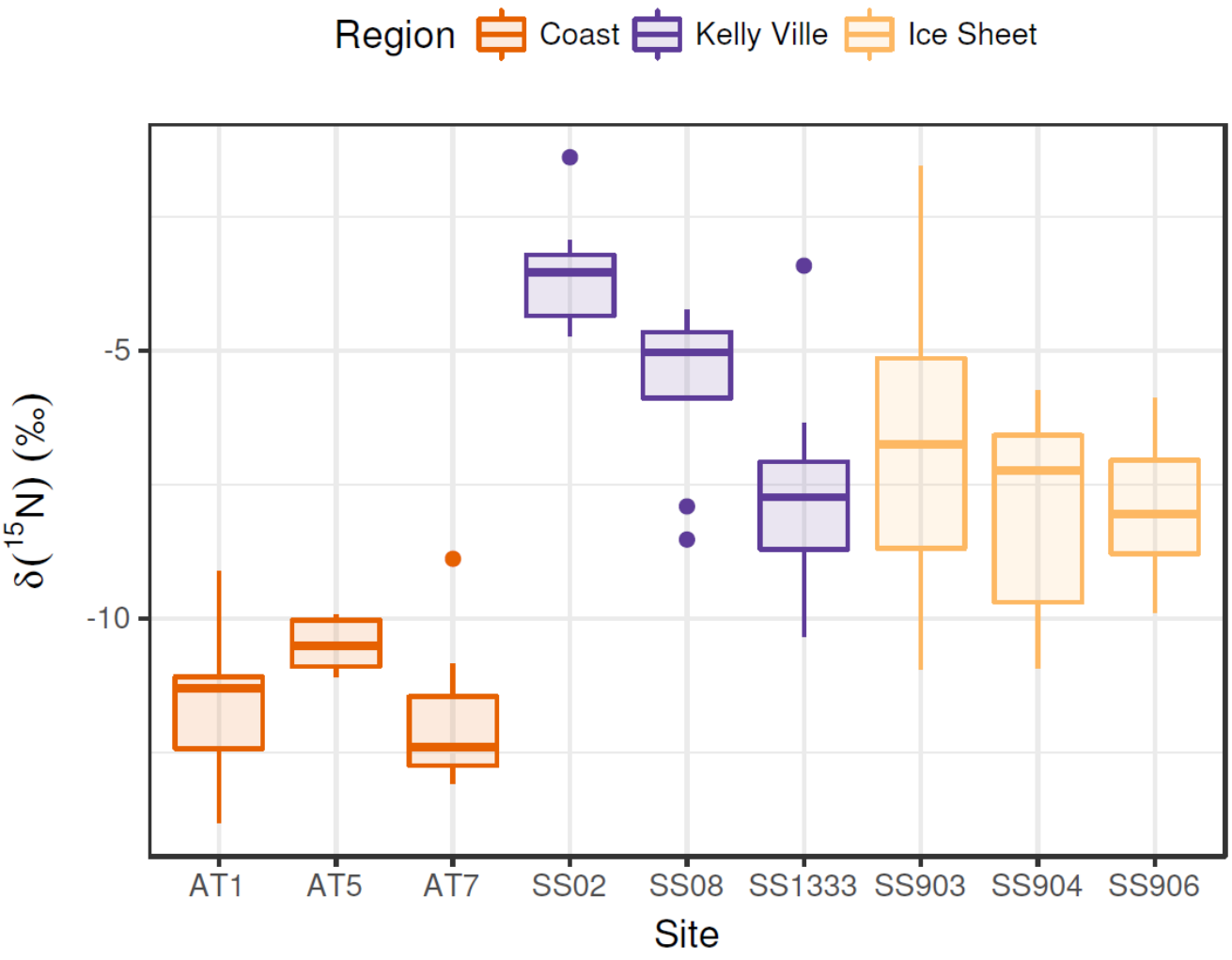

Figure S.I. 2: $\delta(^{15}N)$ of snowpack for individual catchments sampled within each region

Table S.I. 1: Summary statistics for catchment and lake ice snowpack chemistry and NO_3^- isotopes (concentrations in µmol L^{-1}, isotope δ/Δ notation in ‰, nss = non-sea salt component)

REGION:	Coast				Ice Sheet				Kelly Ville			
SAMPLE:	Snow		Lake Snow		Snow		Lake Snow		Snow		Lake Snow	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
NO_3^-	**1.4**	0.4	**1.7**	0.3	**2.2**	0.5	**2.7**	0.7	**2.0**	0.4	**2.7**	0.7
NO_2^-	**0.0**	0.0	**0.0**	0.0	**0.0**	0.1	**0.3**	0.7	**0.0**	0.0	**0.0**	0.0
NH_4^+	**2.4**	0.9	**3.2**	0.5	**1.7**	0.4	**2.2**	1.2	**1.2**	0.3	**1.6**	0.5
PO_4^{3-}	**0.0**	0.0	**0.0**	0.0	**0.1**	0.2	**0.1**	0.0	**0.1**	0.1	**0.1**	0.0
Ca^{2+}	**2.5**	1.5	**5.2**	1.8	**2.8**	1.2	**1.9**	0.4	**1.7**	0.8	**2.2**	0.8
K^+	**2.3**	1.5	**3.5**	0.9	**0.9**	0.5	**0.6**	0.3	**0.8**	0.4	**0.8**	0.3
Mg^{2+}	**11.2**	7.9	**18.1**	4.1	**2.8**	1.2	**2.2**	0.8	**2.5**	1.3	**2.7**	1.1
Na^+	**73.1**	52.4	**109.9**	31.7	**7.0**	2.8	**7.2**	3.7	**12.1**	6.3	**12.5**	6.0
Cl^-	**96.9**	66.2	**143.5**	38.7	**10.1**	4.2	**10.5**	4.6	**17.1**	8.9	**17.5**	8.5
SO_4^{2-}	**5.9**	4.0	**10.8**	2.4	**1.8**	0.6	**1.9**	0.7	**2.7**	3.3	**2.0**	0.50
nss-Ca^{2+}	**0.7**	0.3	**2.5**	1.9	**2.6**	1.2	**1.8**	0.4	**1.4**	0.7	**1.9**	0.8
nss-K^+	**0.6**	0.4	**0.9**	0.3	**0.7**	0.5	**0.4**	0.3	**0.5**	0.3	**0.5**	0.2
nss-Mg^{2+}	**1.5**	1.3	**3.8**	1.7	**1.8**	1.0	**1.2**	0.6	**0.8**	0.5	**1.0**	0.4
nss-Na^+	**-10.3**	5.1	**-13.5**	2.1	**-1.7**	1.0	**-1.9**	1.3	**-2.4**	1.3	**-2.6**	1.4
nss-SO_4^{2-}	**0.8**	0.7	**3.4**	2.1	**1.2**	0.5	**1.3**	0.6	**1.0**	0.5	**1.1**	0.2
$\delta(^{15}N)$	**-10.9**	1.2	**-12.1**	1.2	**-7.4**	1.8	**-7.7**	2.8	**-5.4**	2.4	**-6.1**	2.4
$\delta(^{18}O)$	**81.5**	2.7	**81.8**	3.0	**82.9**	3.2	**84.0**	2.3	**81.0**	3.5	**83.4**	3.2
$\delta(^{17}O)$	**74.1**	13.0	**84.8**	3.3	**85.1**	8.3	**83.2**	8.5	**83.7**	7.2	**83.2**	6.4
$\Delta(^{17}O)$	**30.2**	4.1	**31.9**	2.5	**33.9**	3.7	**33.5**	2.4	**34.6**	3.2	**34.2**	2.3