

Table 16. Change in rare element content in parts per million in ash of specific plants separated from bulk tundra clumps, Lost River valley<sup>8/</sup>

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PLANT TYPE - <i>Arenaria arctica</i>													
Lab. No.	Field No.	Al <sub>s</sub> /Al <sub>p</sub>	Ag	As	B	Be	Cu	Li <sup>2/</sup>	Nb	Pb	Sn	Zn	3/
D115366	64-ASn-388A-A	1.4	+ 3	X <sup>5/</sup>	0 <sup>6/</sup>	- 20	0	-	- 20	0	0	0	
D115326	64-ASn-395A-A	1.5	+ 7	X	+100	0	+ 50	± <sup>4/</sup>	X	+1200	0	+1300	
D115331	64-ASn-377A-A	>2	+ 5	X	+100	0	+ 40	-	- 15	+ 50	+ 20	+ 400	
D115339	64-ASn-369A-A	.5	+ 20	X	+170		+100	±	+ 20	+1800	+ 80	+500	
D115367	64-ASn-399A-A	2.3	+ 3	X	+ 50	+ 55	+ 40	-	- 30	+ 30	+ 10	X	
D115348	64-ASn-388A-A-1	<1	+ 3	X	+ 50	0	+ 20	-	0	+ 50	+ 30	X	
	64-ASn-370A-A	Sample lost											
Average gain <sup>3/</sup>			+6.8		+78.3	+55	+42		+17.5	+522	+23	+367	
Average loss			none		none	-20	none		-17.5	none			
Trend (net gain or net loss)			+ 41		+470	+35	+250	loss	0	+3130	+140	+2200	
PLANT TYPE - <i>Dryas integrifolia</i>													
D115338	64-ASn-369A-D	1	+ 2	X	+ 170	0	+100	-	+ 20	+100	+ 80	+200	
D115328	64-ASn-370A-D	1	- 1	X	+120	0	+100	-	- 20	+400	+ 80	+800	
D115345	64-ASn-370A-D	.75	+ 1	X	+120	+ 5	+100	-	- 20	+400	+ 80	+1300	
D115332	64-ASn-377A-D	>1.0	- 1.5	X	+100	+ 10	+ 70	-	- 15	+ 50	+ 20	-300	
D115369	64-ASn-377A-D	>1	- 1.5	X	+200	0	+ 40	-	+ 5	+ 50	+ 70	-300	
D115340	64-ASn-379A-D	1	+ 3.5	X	+200	+80	+120	±	+ 5	+200	+120	+400	
D115357	64-ASn-381A-D	2.3	- 1.5	X	+ 50	- 35	+ 50	-	- 20	0	+ 50	+200	
D115355	64-ASn-383A-D	2.5	X	X	+150	+ 2	+ 30	X	0	+ 40	0	X	B
D115341	64-ASn-383A-D	1.6	X	X	+150	0	+ 50	X	+ 20	+ 40	+ 20	X	B
D115322	64-ASn-384A-D	.6	X	X	+150	0	+ 50	X	X	+ 40	X	X	B
D115359	64-ASn-384A-D	.6	X	X	+100	- 2	+ 30	X	X	+ 40	X	X	B
D115361	64-ASn-384A-D	10	X	X	0	- 2	+ 10	X	X	+ 40	X	X	B
D115335	64-ASn-388A-D	1.4	+ 1	X	+ 50	- 20	+ 20	-	- 20	+ 50	+ 10	+700	
D115380	64-ASn-395A-D	1.5	+ 4	X	+100	- 30	+ 20	±	X	+400	- 50	+1300	
D115324	64-ASn-395A-D	1.5	+ 7	X	+ 50	- 30	+ 30	±	X	+700	0	+1300	
D115342	64-ASn-396A-D	1.4	+ 5	-1500	+130	+30	+100	±	+ 20	0	-100	+1000	
D115353	64-ASn-397A-D	2.3	+ 1	X	+100	- 30	+ 50	±	0	+200	0	+ 300	
Average gain			+3.06	none	+121	+22	+ 57		+14	+162	+59	+750	
Average loss			-1.4	-1500		-21	none		-19	none	-75	-300	
Trend (net gain or net loss)			+19	-1500	1940	-22	+970	loss	-25	+2750	+380	+6900	
PLANT TYPE - <i>Drepanocladus</i> sp.													
D115337	64-ASn-369A-B+E	.6	+ 3	X	+170	+35	+150	-	X	+500	+ 80	+1500	
D115327	64-ASn-370A-B+E	.5	+ 4	X	+170	+15	+150	±	- 20	+700	+130	+1300	
D115378	64-ASn-377A-B+E	1	- 1.5	X	+100	+30	+ 20	-	+ 5	+ 50	+170	- 300	
D115333	64-ASn-377A-B+E	1	+ 1.5	X	+100	+30	+ 40	-	+ 15	+ 50	+ 40	+ 400	
D115358	64-ASn-381A-B+E	<1	- 1.5	X	+ 50	0	+ 50	-	- 20	0	+150	+ 400	
D115336	64-ASn-388A-B+E	1	+ 1.	X	+150	- 20	+ 20	-	0	0	0	X	
D115325	64-ASn-395A-B+E	.66	+ 7	X	+100	- 30	+ 20	±	X	+1200	0	+1300	
Average gain			+3.3		+120	+27.5	+64		+10	+500	+114	+ 980	
Average loss			-1.5		none	-25	none		-20	none	none	-300	
Trend (net gain or net loss)			+12.5		+840	+ 60	+450	loss	-20	+2500	+570	+4600	
PLANT TYPE - <i>Saxifraga oppositifolia</i> + <i>S. eschscholtzii</i>													
D115344	64-ASn-370A-X	.5	+ 2	X	+120	0	+ 50	-	- 20	+200	+130	+800	
D115349	64-ASn-377A-X	>1	+ 5	X	+200	+130	+ 70	±	+ 5	+350	+120	+1200	
D115362	64-ASn-384A-X	.6	X	X	+ 70	0	+ 10	X	X	+ 40	X	X	B
Net gain or loss			+2.5		+390	+130	+130		- 15	+590	+250	+2000	
PLANT TYPE - <i>Drepanocladus fluitans</i>													
D115346	64-ASn-370A-B	.75	+ 1	X	+170	+15	+ 50	-	- 20	+400	+130	+1300	
D115351	64-ASn-397A-B	<1	+ 3	X	+100	+50	0	±	+ 10	+400	+ 50	+ 300	
D115365	64-ASn-396A-B	1.4	+ 20	+500	+130	+30	+200	±	+ 20	0	- 50	+2000	
Net gain or loss			+24	+500	+400	+95	+250		+10	+800	+130	+3600	
PLANT TYPE - <i>Lichen</i> sp.													
D115399	64-ASn-359-B	14	+ 3	-1500	-150	-143	-120	-	- 20	-200	-300	-1500	
D115354	64-ASn-382A-2	47	X	X	-100	- 30	0	-	- 20	- 50	-100	- 200	
D115351	64-ASn-397A-1	3.5	+ 1	X	-100	- 80	- 30	-	0	0	-100	0	
D115389	64-ASn-402-B	4.7	+ 5	X	-100	- 7	0	-	- 15	+ 30	- 30	X	
Average gain			+3	none	none	none	none	none	none	+30	none	none	
Average loss			none	-1500	-112	- 40	- 75	-	- 18	-125	-132	- 850	
Trend (net gain or net loss)			+9	-1500	-450	-260	-150	loss	-55	-230	-530	-1700	
PLANT TYPE - <i>Drepanocladus uncinatus</i>													
D115364	64-ASn-396A-E	1.4	+10.	+1500	+130	0	+200	±	X	+1500	- 50	+2000	
PLANT TYPE - <i>Eretrichium aetnoides</i>													
D115334	64-ASn-377A-G	>2	+ 5	X	+100	+10	+ 40	-	- 15	+ 50	+ 70	+ 400	
PLANT TYPE - <i>Silene acaulis</i>													
D115323	64-ASn-384A-F	.5	X	X	X	- 2	+ 10	-	X	+ 20	X	X	B
D115330	64-ASn-377A-F	>1	- 1.5	X	0	0	0	-	- 20	+ 50	+ 40	-300	

1/ Ratio of aluminum in soil over aluminum in plant ash.

2/ B signifies sample is a background sample.

3/ Average gain or loss using only those samples in which values changed.

4/ Symbol means that lithium was present in soil and in plant ash, but amount of change cannot be determined.

5/ X means that element was below the detection limit in both soil and plant ash.

6/ 0 means that element was unchanged in concentration.

7/ For lithium, value is reported in analyses only as present or absent; a minus means lithium decreased to below detection limit from an unknown concentration.

8/ Change is gain or loss with respect to concentration in the corresponding soil sample. For values in soil samples, see table 14.

9/ By semiquantitative spectrographic analyses.