

Table 16. Change in rare element content in parts per million in ash of specific plants
separated from bulk tundra clumps, Lost River valley^{8/}Analysts: J. C. Hamilton and Barbara Tobin, U. S. Geological Survey^{9/}

PLANT TYPE - <i>Arenaria arctica</i>													
Lab. No.	Field No.	Al _s /Al _p	Ag	As	B	Be	Cu	Li ^{2/}	Nb	Pb	Sn	Zn	3/
D115366	64-ASn-388A-A	1.4	+ 3	X ^{5/}	0 ^{6/}	-20	0	-	-20	0	0	0	
D115326	64-ASn-395A-A	1.5	+ 7	X	+100	0	+50	± ^{4/}	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	+800	+80	+500	
D115347	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 ^{3/}		-	+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	1.0	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	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>Eretichium aretoides</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.