

Table S10. Seasonal and species variations in major elements uptake by both plant species, namely *A. frigida* (AF, n=11) and *S. krylovii* (SK, n=12) as determined by the Kruskal-Wallis test.

Element	Seasonal variation				Species variation			
	Similar distribution (Median)		Non-similar distribution (Mean rank)		Similar distribution (Median)		Non-similar distribution (Mean rank)	
	Winter	Spring	Winter	Spring	AF	SK	AF	SK
Na			10.25	13.91			13.27	10.83
Mg*			11.93	12.09	2721.15	1495.10		
Al*			10.75	13.36			15.91	8.42
P*			9.75	14.45			15.00	9.25
K*			10.33	13.82	15873.33	6599.99		
Ca	5147.49	3911.12					12.73	11.33
Mn*	91.00	88.93			109.78	70.46		
Fe*			11.00	13.09			15.55	8.75

*Element with significant differences between *S. krylovii* and *A. frigida*. Given, Fe ($\chi^2(2) = 5.761$, $p = 0.016$), K ($\chi^2(2) = 6.682$, $p = 0.010$), Mg ($\chi^2(2) = 9.852$, $p = 0.002$), P ($\chi^2(2) = 4.125$, $p = 0.042$), Mn ($\chi^2(2) = 5.470$, $p = 0.019$), and Al ($\chi^2(2) = 7.004$, $p = 0.008$).