

Table S1. Structure data of tree species sampled in in the Southern Urals.
Values are means \pm SD.

Variables	Altitudinal level	Taganay	Nurgush	Iremel
Height (m)	High	0.62 \pm 0.04	0.63 \pm 0.05	0.77 \pm 0.06
	Mid	0.86 \pm 0.07	1.18 \pm 0.14	0.93 \pm 0.05
	Low	-	-	-
Crown diameter (m)	High	0.51 \pm 0.04	0.56 \pm 0.08	0.74 \pm 0.06
	Mid	0.56 \pm 0.04	1.23 \pm 0.17	0.76 \pm 0.05
	Low	-	-	-
Density (ind ha ⁻¹)	High	775	1083	950
	Mid	3820	1060	1412
	Low	-	-	-

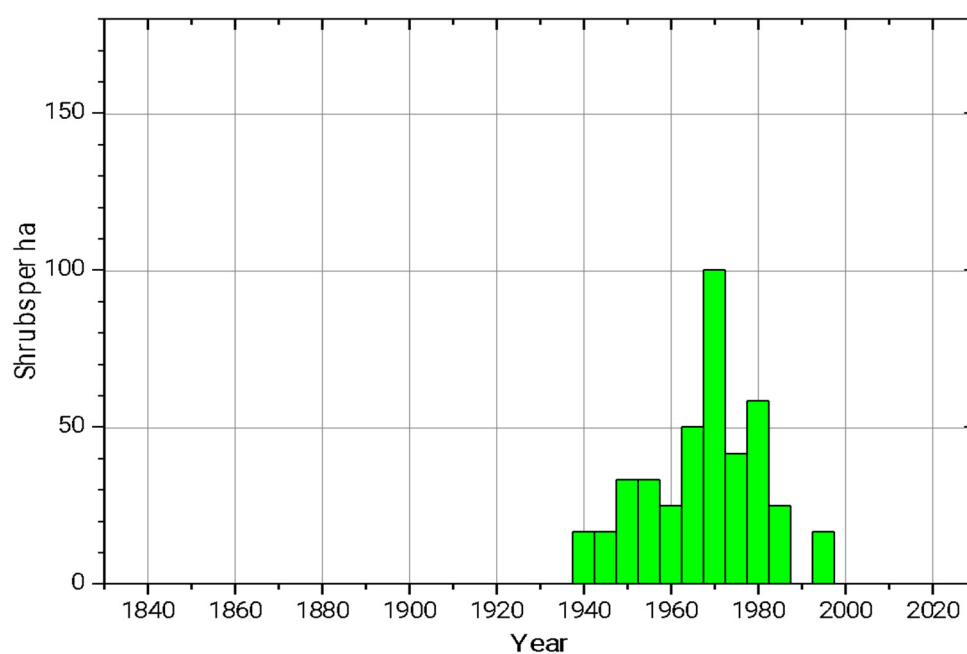


Figure S1. Age structures of *J. sibirica* at high altitudinal level in Molebnyi Kamen', Northern Urals.

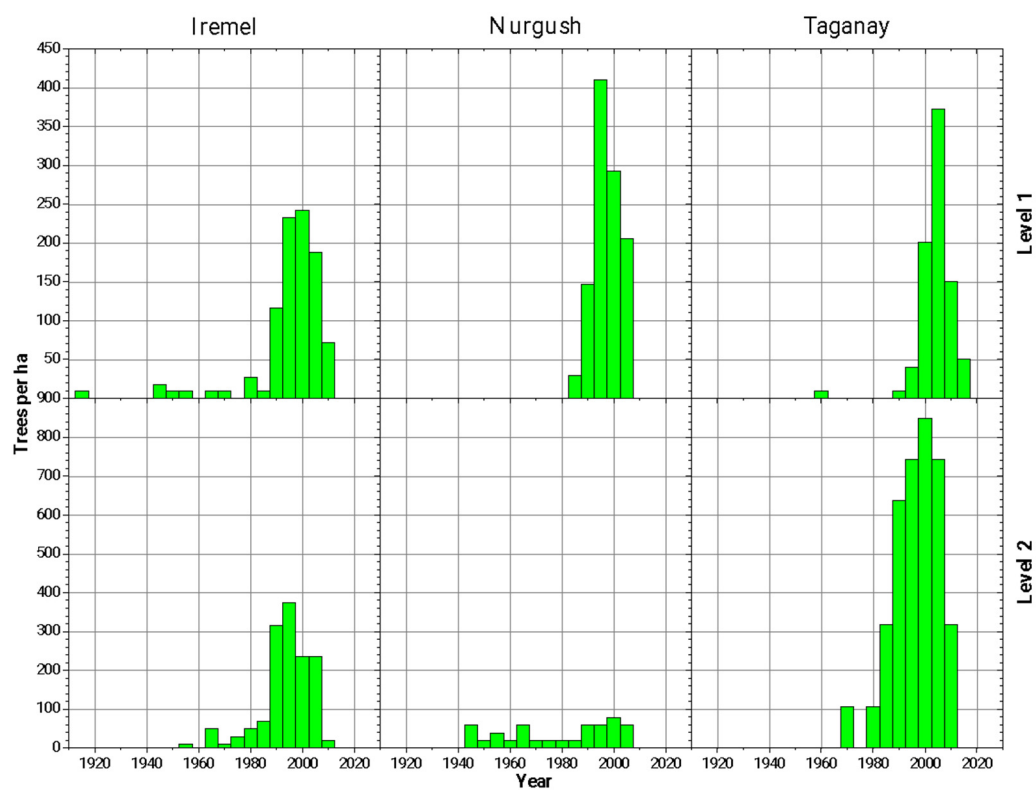


Figure S2. Age structures of trees in the Southern Urals study areas, excepting Zigalga where no trees were found in the sampled plots. Levels 1 and 2 correspond to high and mid elevations, respectively.



Figure S3. Landscape photographs taken on Zyryanovka (Northern Urals) in different seasons of the year.



Figure S4. Landscape photographs taken on Zyryanovka (Northern Urals) in different seasons of the year.



Figure S5. Landscape photographs taken on Zyryanovka (Northern Urals) in different seasons of the year.



Figure S6. Massive dieback of *J. sibirica* on the convex slope of the Dalniy Taganay, Southern Urals.