Supplementary Material

Tab. S1 - Distribution of Al fractions among soil horizons. Results of ANOVA multiple range test (95% LSD; letters a – e in columns represent homogenous groups) of all samples from Jizera Mts., and Giant Mts.

Soil horizon	KCl extract				Aqueous extract			
	$Al(X)^{1+}$	$Al(Y)^{2+}$	Al^{3+}	Al_{KCl}	$Al(X)^{1+}$	$Al(Y)^{2+}$	Al^{3+}	Al_{H2O}
F	a	a	c	b	a	a	b	a
H	a	a	a	a	a	b	a	a
A	b	b	bc	b	b	c	cd	b
Ep	cd	bc	bc	b	c	d	d	cd
Bspod	bc	bc	b	b	c	d	c	c
Bv	c	bc	bc	b	d	d	d	de
C	d	c	d	c	d	e	d	e

Tab. S2 - Results of ANOVA multiple range test (95% LSD; letters a – c in rows separately for soil horizons represent homogenous groups) comparing distribution of basic soil characteristics and Al fractions in soil horizons of grass-limed (L), grass-control (C), and native forest (F) variants. Significant differences at the P<0.05 level are in bold.

Soil horizon	F			H			Ep			B			C		
variant	L	C	F	L	C	F	L	C	F	L	C	F	L	C	F
pH_{H2O}	**a**	**ab**	**b**	**a**	**a**	**b**	**ab**	**a**	**b**	a	a	a	**a**	**a**	**b**
pH_{KCl}	**a**	**ab**	**b**	**a**	**a**	**b**	a	a	a	a	a	a	a	a	a
Mg_{AR}	a	a	a	**a**	**a**	**b**	a	a	a	a	a	a	a	a	a
Ca_{AR}	a	a	a	**a**	**b**	**b**	**b**	**a**	**b**	**a**	**a**	**b**	a	a	a
eCEC	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
$Al(X)^{1+}K$	**b**	**ab**	**a**	**b**	**b**	**a**	**b**	**a**	**a**	a	a	a	a	a	a
$Al(Y)^{2+}K$	**b**	**b**	**a**	**a**	**b**	**ab**	**a**	**a**	**b**	a	a	a	a	a	a
$Al^{3+}K$	**b**	**ab**	**a**	**b**	**b**	**a**	a	a	a	a	a	a	a	a	a
Al_{KCl}	**b**	**ab**	**a**	**b**	**b**	**a**	a	a	a	a	a	a	a	a	a
$Al(X)^{1+}A$	a	a	a	**b**	**b**	**a**	a	a	a	a	a	a	a	a	a
$Al(Y)^{2+}A$	a	a	a	**ab**	**b**	**a**	a	a	a	a	a	a	**b**	**b**	**a**
$Al^{3+}A$	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
Al_{H2O}	a	a	a	**b**	**b**	**a**	a	a	a	a	a	a	a	a	a