

Table S19. Analysis of Variance table of type 3 with Satterthwaite approximation for degrees of freedom of the linear mixed effects models for the differences of Evaporation as a function of exploratory, management intensity, roof (main roof vs. satellite roof) and the interaction of management and roof. These tests were performed to exclude differences between the main and satellite roof replicated measurements.

Evaporation	spring 2012				late summer 2012			early summer 2013			late summer 2013		
Fixed factors	Num df	den DF ^b	F-value or z - score		den DF ^b	F-value or z - score		den DF ^b	F-value or z - score		denDF ^b	F-value or z - score	
			p ^a	p ^a		p ^a	p ^a		p ^a	p ^a			
exploratory	2	3	1.656	0.328	3.10	0.081	0.924	0	3.096	NA	0	0.656	NA
management	2	3	1.500	0.354	3.04	4.171	0.134	0	2.223	NA	0	1.018	NA
roof	1	5	0.500	0.511	5.15	0.074	0.797	4	3.575	0.132	15	0.796	0.386
management * roof	2	5	0.648	0.562	5.16	0.216	0.813	4	0.340	0.731	15	0.467	0.636

^a Significant probabilities (< 0.05) are shown in bold.

^b denDF is the number of degrees of freedom associated with the model errors.

Note: In late summer 2013 at beech unmanaged and at the beech managed stand we could not measure the transpiration rates because the device was broken. Plot Schorfheide beech unmanaged had no understory vegetation.