

PeerJ

Using lidar to assess the development of structural diversity in forests undergoing passive rewilding in temperate Northern Europe

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Table S3. Results from pairwise tests of medians and variance of PCA_30m values between all forests and zones.

area	axis	variance (σ^2)	V_O1	V_O2	V_O3	Sten_M/O	V_M2	V_M1	V_Y1	V_Y2	Tran_Y3	Fløj_Y4
V_O1	Dissim.			4	0	7	2	9	6	7	10	3
V_O1	PC1	21.63	x	***	non-sign.	*** / +++	***	*** / +++	***	***	*** / +++	***
V_O1	PC2	1.55	x	***	non-sign.	*	non-sign.	*** / +	***	***	*** / +++	*
V_O1	PC3	1.85	x	non-sign.	non-sign.	***	non-sign.	***	***	***	*** / +++	non-sign.
V_O1	PC4	0.41	x	***	non-sign.	***	non-sign.	*** / ++	+++	*** / +	*** / +++	*
V_O1	PC5	2.78	x	***	non-sign.	*** / +++	++	* / +++	*** / +++	*** / +++	** / +++	non-sign.
V_O2	Dissim.		4		0	2	4	5	5	4	5	3
V_O2	PC1	8.94	***	x	non-sign.	non-sign.	non-sign.	non-sign.	non-sign.	non-sign.	*** / +++	**
V_O2	PC2	0.82	***	x	non-sign.	***	***	** / +	*** / +	* / +	+++	**
V_O2	PC3	0.58	non-sign.	x	non-sign.	***	***	*** / +	***	***	*	non-sign.
V_O2	PC4	0.28	***	x	non-sign.	non-sign.	*	non-sign.	+++	non-sign.	non-sign.	non-sign.
V_O2	PC5	0.55	***	x	non-sign.	non-sign.	***	***	*	***	***	***
V_O3	Dissim.		0	0		0	0	0	0	0	0	0
V_O3	PC1	0.56	non-sign.	non-sign.	x	non-sign.	non-sign.	non-sign.	non-sign.	non-sign.	non-sign.	non-sign.
V_O3	PC2	0.39	non-sign.	non-sign.	x	non-sign.	non-sign.	non-sign.	non-sign.	non-sign.	non-sign.	non-sign.
V_O3	PC3	0.37	non-sign.	non-sign.	x	non-sign.	non-sign.	non-sign.	non-sign.	non-sign.	non-sign.	non-sign.
V_O3	PC4	0.32	non-sign.	non-sign.	x	non-sign.	non-sign.	non-sign.	non-sign.	non-sign.	non-sign.	non-sign.
V_O3	PC5	0.42	non-sign.	non-sign.	x	non-sign.	non-sign.	non-sign.	non-sign.	non-sign.	non-sign.	non-sign.
Sten_M/O	Dissim.		7	2	0		7	10	8	8	10	4
Sten_M/O	PC1	3.52	*** / +++	non-sign.	non-sign.	x	***	*** / +	+	** / +	*** / ++	*
Sten_M/O	PC2	1.03	*	***	non-sign.	x	*** / +++	*** / +++	*** / +++	*** / +++	*** / +++	***
Sten_M/O	PC3	1.39	***	***	non-sign.	x	***	*** / +++	***	***	*** / +++	***
Sten_M/O	PC4	0.44	***	non-sign.	non-sign.	x	*** / +	*** / +++	** / +++	+++	** / ++	non-sign.
Sten_M/O	PC5	0.80	*** / +++	non-sign.	non-sign.	x	***	*** / +	*** / ++	*** / ++	*** / +++	***
V_M2	Dissim.		2	4	0	7		4	4	4	9	1
V_M2	PC1	8.65	***	non-sign.	non-sign.	***	x	non-sign.	non-sign.	non-sign.	*** / +++	***
V_M2	PC2	3.93	non-sign.	***	non-sign.	*** / +++	x	***	***	***	*** / +++	non-sign.
V_M2	PC3	1.07	non-sign.	***	non-sign.	***	x	*** / ++	***	*	*** / +++	non-sign.
V_M2	PC4	0.98	non-sign.	*	non-sign.	*** / +	x	***	++	*	*** / +++	non-sign.
V_M2	PC5	0.91	++	***	non-sign.	***	x	non-sign.	***	*	+	non-sign.
V_M1	Dissim.		9	5	0	10	4		4	0	8	5
V_M1	PC1	6.09	*** / +++	non-sign.	non-sign.	*** / +	non-sign.	x	*	non-sign.	*** / +++	*** / +
V_M1	PC2	3.57	*** / +	** / +	non-sign.	*** / +++	***	x	non-sign.	non-sign.	*** / +++	*** / ++
V_M1	PC3	2.58	***	*** / +	non-sign.	*** / +++	*** / ++	x	non-sign.	non-sign.	*** / +++	***
V_M1	PC4	1.68	*** / ++	non-sign.	non-sign.	*** / +++	***	x	*** / +	non-sign.	+++	non-sign.
V_M1	PC5	1.68	* / +++	***	non-sign.	*** / +	non-sign.	x	**	non-sign.	+	non-sign.
V_Y1	Dissim.		6	5	0	8	4	4		0	8	6
V_Y1	PC1	7.55	***	non-sign.	non-sign.	+	non-sign.	*	x	non-sign.	*** / +++	*
V_Y1	PC2	3.15	***	*** / +	non-sign.	*** / +++	***	non-sign.	x	non-sign.	*** / +++	*** / +
V_Y1	PC3	1.56	***	***	non-sign.	***	***	non-sign.	x	non-sign.	*** / +++	***
V_Y1	PC4	2.38	+++	+++	non-sign.	** / +++	++	*** / +	x	non-sign.	** / +++	+++
V_Y1	PC5	0.28	*** / +++	*	non-sign.	*** / ++	***	**	x	non-sign.	non-sign.	*

Table S3 continued

area	axis	variance (σ^2)	V_O1	V_O2	V_O3	Sten_M/O	V_M2	V_M1	V_Y1	V_Y2	Tran_Y3	Fløj_Y4
V_Y2	Dissim.		7	4	0	8	4	0	0		7	5
V_Y2	PC1	6.88	***	non-sign.	non-sign.	** / +	non-sign.	non-sign.	non-sign.	x	*** / +++	*** / +
V_Y2	PC2	2.88	***	* / +	non-sign.	*** / +++	***	non-sign.	non-sign.	x	*** / +++	*** / ++
V_Y2	PC3	1.56	***	***	non-sign.	***	*	non-sign.	non-sign.	x	*** / +++	**
V_Y2	PC4	2.49	*** / +	non-sign.	non-sign.	+++	*	non-sign.	non-sign.	x	+++	non-sign.
V_Y2	PC5	0.20	*** / +++	***	non-sign.	*** / ++	*	non-sign.	non-sign.	x	non-sign.	non-sign.
Tran_Y3	Dissim.		10	5	0	10	9	8	8	7		3
Tran_Y3	PC1	1.00	*** / +++	*** / +++	non-sign.	*** / ++	*** / +++	*** / +++	*** / +++	*** / +++	x	***
Tran_Y3	PC2	0.07	*** / +++	+++	non-sign.	*** / +++	*** / +++	*** / +++	*** / +++	*** / +++	x	***
Tran_Y3	PC3	0.29	*** / +++	*	non-sign.	*** / +++	*** / +++	*** / +++	*** / +++	*** / +++	x	*
Tran_Y3	PC4	0.09	*** / +++	non-sign.	non-sign.	** / ++	*** / +++	+++	** / +++	+++	x	non-sign.
Tran_Y3	PC5	0.19	** / +++	***	non-sign.	*** / +++	+	+	non-sign.	non-sign.	x	non-sign.
Fløj_Y4	Dissim.		3	3	0	4	1	5	6	5	3	
Fløj_Y4	PC1	0.65	***	**	non-sign.	*	***	*** / +	*	*** / +	***	x
Fløj_Y4	PC2	0.23	*	**	non-sign.	***	non-sign.	*** / ++	*** / +	*** / ++	***	x
Fløj_Y4	PC3	0.74	non-sign.	non-sign.	non-sign.	***	non-sign.	***	***	**	*	x
Fløj_Y4	PC4	0.16	*	non-sign.	non-sign.	non-sign.	non-sign.	non-sign.	+++	non-sign.	non-sign.	x
Fløj_Y4	PC5	0.35	non-sign.	***	non-sign.	***	non-sign.	non-sign.	*	non-sign.	non-sign.	x

All managed forests and zones of Vorsø were tested pairwise according to medians and variance of the first five axes of the PCA_30m (PCA of all 30-meter cells in the seven Vorsø zones and the three managed forests). We used Kruskal-Wallis to test for different medians and Levene's test to test for different variances. Asterisks indicate significance for medians and plusses indicate significance for variance. *Non-sig.* indicates non-significance of both medians and variance. Significance levels have been Bonferroni corrected by dividing 0.05 with 225. The corrected level of significance used here was 0.000222. */+ = below 0.000222, **/++ = below 0.00001, ***/+++ = below 0.000001. The column of variance (σ^2) lists variance values. The rows marked *dissim.* list how many of the 10 pairwise tests are significant as a measure of dissimilarity between two areas.