

Appendix S1. Details of Principal Components Analyses (PCAs) conducted for local- and landscape-level attributes of study sites.

Methods: We used Principal Components Analysis (PCA) to reduce the number of explanatory variables to be included in statistical models. We conducted a PCA for all local-level attributes (described in main manuscript Section 2.2) and separate PCAs for landscape-level attributes (described in main manuscript Sections 2.3 and 2.5.1). We conducted two sets of landscape-level PCAs; both sets included distance to nearest woodland (any type), ancient woodland and broadleaved woodland, and proportion of land covered by agriculture, semi-natural habitats, urban areas and water bodies (main manuscript Table 1, variables 19-25). In addition, the first landscape-level PCA incorporated the proportion of land covered by woodland (any type), ancient woodland and broadleaved woodland (main manuscript Table 1, variables 13-15), whereas the second incorporated inter-patch connectivity values for these woodland types instead (main manuscript Table 1, variables 16-18). Variables in PCAs were scaled to standardise the weights of components. (Jongman, Ter Braak & Van Tongeren 1995). Different bat species are influenced differently by the proportion of different land types (and at different spatial scales); hence, the selected spatial scales for each set of landscape-level variables differed for each response variable (i.e. for each bat species and within each study area; see main manuscript Section 2.5.1) and we performed separate landscape-level PCAs for each bat species within each study area.

Literature cited: Jongman, R.H.G., Ter Braak, C.J.F. & Van Tongeren, O.F.R. (1995) *Data analysis in community and landscape ecology*. Cambridge University Press, Cambridge.

Tables' legend: Loadings of Principal Components obtained from local and landscape-level PCAs for each bat species within each study area.

Figures' legend: PCA biplots showing the most relevant Principal Components for local and landscape-level PCAs for each bat species within each study area.

LOCAL.Sco	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	PC10	PC11	PC12
Area	0.03	0.27	0.39	0.09	-0.51	-0.40	0.31	-0.19	-0.44	-0.15	-0.03	0.00
Shape	0.04	-0.04	0.61	-0.07	-0.39	0.08	-0.34	0.38	0.38	0.23	0.03	-0.01
Edge.arable.IG	0.16	-0.58	0.09	-0.15	0.09	-0.31	-0.05	-0.02	-0.15	0.03	-0.03	-0.69
Edge.seminat	-0.15	0.60	-0.07	0.22	0.02	0.21	-0.03	0.07	0.10	-0.04	-0.08	-0.71
Edge.urban	-0.09	-0.15	-0.23	-0.43	-0.48	0.49	0.43	-0.02	-0.03	0.18	0.14	-0.13
Tree.sp	0.06	-0.14	0.53	0.13	0.32	0.34	0.46	-0.33	0.28	-0.23	-0.06	-0.03
Tree.dens	0.47	0.10	0.03	0.16	0.02	0.19	-0.15	-0.43	-0.18	0.67	-0.12	0.01
Tree.dbh.mean	-0.52	-0.17	0.10	0.04	0.02	0.16	-0.05	0.07	-0.27	0.16	-0.74	0.06
Tree.dbh.sd	-0.47	-0.13	0.20	0.25	0.12	0.21	-0.18	-0.06	-0.40	0.14	0.62	-0.02
Under.cover	0.07	-0.22	-0.17	0.68	-0.10	-0.09	0.43	0.42	0.09	0.25	0.02	0.01
Canopy.cover	0.28	-0.25	-0.12	0.35	-0.35	0.40	-0.35	-0.08	-0.15	-0.52	-0.11	-0.01
AGE	-0.38	-0.14	-0.18	0.20	-0.31	-0.26	-0.12	-0.57	0.50	0.08	0.02	-0.04
Standard deviation	1.70	1.51	1.27	1.10	1.02	0.97	0.85	0.71	0.60	0.57	0.35	0.15
Proportion of Variance	0.24	0.19	0.13	0.10	0.09	0.08	0.06	0.04	0.03	0.03	0.01	0.00
Cumulative Proportion	0.24	0.43	0.56	0.66	0.75	0.83	0.89	0.93	0.96	0.99	1.00	1.00

LANDSCAPE1.Paur.Sco	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	PC10
Any.wood.1500	-0.37	-0.12	0.14	-0.35	0.33	-0.17	0.53	-0.54	-0.03	0.03
BL.1500	-0.31	-0.47	-0.03	-0.14	-0.36	-0.02	0.43	0.58	0.12	-0.02
ASNW.500	-0.19	-0.09	-0.15	0.59	0.08	-0.75	-0.01	0.00	-0.09	0.01
Near.any.w	0.30	-0.29	-0.57	-0.10	-0.13	0.05	0.12	-0.17	-0.66	0.00
Near.BL	0.35	-0.08	-0.55	-0.18	0.16	-0.18	0.08	-0.06	0.69	0.02
Near.ASNW	0.23	0.49	0.04	-0.40	0.26	-0.38	0.19	0.48	-0.26	-0.01
Urban.100	-0.13	-0.41	0.09	-0.50	0.06	-0.31	-0.67	0.01	-0.05	-0.07
Arable.IG.100	0.47	-0.21	0.39	0.06	-0.13	-0.16	0.17	-0.12	0.04	-0.70
Seminat.100	-0.46	0.24	-0.40	-0.01	0.15	0.17	-0.09	0.07	-0.01	-0.71
Water.100	-0.12	0.40	-0.08	-0.23	-0.78	-0.27	-0.01	-0.29	0.07	-0.01
Standard deviation	1.69	1.24	1.19	1.09	0.96	0.87	0.83	0.60	0.50	0.21
Proportion of Variance	0.28	0.15	0.14	0.12	0.09	0.08	0.07	0.04	0.02	0.00
Cumulative Proportion	0.28	0.44	0.58	0.70	0.79	0.87	0.93	0.97	1.00	1.00

LANDSCAPE2.Paur.Sco	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	PC10
Interconnectivity.any.wood.1500	0.11	0.21	-0.25	0.46	-0.68	0.32	-0.31	0.08	-0.04	0.01
Interconnectivity.BL.1500	0.34	0.38	0.17	0.02	-0.05	-0.16	0.40	0.72	0.00	0.01
Interconnectivity.ASNW.500	0.26	0.17	0.21	-0.46	-0.15	-0.38	-0.68	0.04	-0.11	0.01
Near.any.w	-0.34	-0.06	0.57	0.16	-0.27	-0.12	0.15	-0.07	-0.64	-0.01
Near.BL	-0.40	-0.20	0.46	0.10	-0.16	-0.02	-0.17	0.26	0.67	0.02
Near.ASNW	-0.29	-0.42	-0.34	-0.02	0.18	0.05	-0.29	0.63	-0.34	0.00
Urban.100	0.08	0.19	0.11	0.70	0.52	-0.26	-0.32	-0.04	-0.02	-0.07
Arable.IG.100	-0.47	0.42	-0.23	-0.11	-0.05	-0.19	0.03	0.00	0.04	-0.71
Seminat.100	0.46	-0.43	0.24	0.04	-0.01	0.23	-0.02	0.02	-0.01	-0.70

Water.100	0.11	-0.40	-0.28	0.19	-0.32	-0.75	0.19	-0.08	0.10	-0.01
Standard deviation	1.63	1.27	1.19	1.03	0.96	0.88	0.86	0.73	0.50	0.21
Proportion of Variance	0.26	0.16	0.14	0.11	0.09	0.08	0.07	0.05	0.02	0.00
Cumulative Proportion	0.26	0.43	0.57	0.67	0.77	0.84	0.92	0.97	1.00	1.00

LANDSCAPE1.Ppyg.Sco	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	PC10
Any.w.1000	-0.43	0.18	-0.16	0.02	-0.29	0.29	-0.25	0.68	-0.19	0.13
BL.1000	-0.39	-0.23	0.07	-0.10	-0.41	0.57	0.06	-0.50	0.19	-0.04
ASNW.3000	-0.22	-0.50	0.10	-0.29	0.13	-0.28	-0.70	-0.09	-0.10	0.03
Near.any.w	0.25	-0.47	-0.42	0.08	-0.26	0.02	0.21	-0.05	-0.64	0.06
Near.BL	0.34	-0.25	-0.49	0.11	-0.23	-0.01	-0.20	0.18	0.67	0.01
Near.ASNW	0.25	0.49	-0.19	0.30	-0.07	0.17	-0.57	-0.40	-0.22	0.02
Urban.1000	0.03	-0.36	0.21	0.61	0.44	0.42	-0.09	0.16	-0.01	-0.22
Arable.IG.1000	0.42	0.04	0.21	-0.44	-0.16	0.25	-0.12	0.19	-0.09	-0.66
Seminat.1000	-0.44	0.08	-0.37	0.21	0.00	-0.33	0.06	-0.10	0.00	-0.70
Water.1000	0.07	-0.07	0.53	0.43	-0.62	-0.36	-0.05	0.06	0.00	-0.04
Standard deviation	1.82	1.27	1.16	1.12	0.86	0.78	0.72	0.54	0.50	0.27
Proportion of Variance	0.33	0.16	0.13	0.12	0.07	0.06	0.05	0.03	0.03	0.01
Cumulative Proportion	0.33	0.49	0.63	0.75	0.83	0.89	0.94	0.97	0.99	1.00

LANDSCAPE2.Ppyg.Sco	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	PC10
Interconnectivity.any.wood.1000	0.11	0.27	0.15	-0.09	-0.90	0.16	-0.21	0.06	-0.02	-0.02
Interconnectivity.BL.1000	0.43	0.01	0.18	-0.06	-0.01	0.22	0.75	0.41	-0.04	-0.10
Interconnectivity.ASNW.3000	0.32	-0.15	0.47	-0.16	0.25	0.00	-0.56	0.47	-0.16	0.09
Near.any.w	-0.31	-0.57	0.24	0.00	-0.16	0.21	0.14	-0.19	-0.63	0.03
Near.BL	-0.39	-0.44	0.14	0.16	-0.12	0.27	-0.01	0.32	0.65	-0.01
Near.ASNW	-0.31	0.22	-0.45	0.35	0.02	0.13	-0.08	0.61	-0.38	0.04
Urban.1000	-0.06	-0.34	-0.35	-0.54	-0.19	-0.54	0.04	0.28	-0.01	-0.24
Arable.IG.1000	-0.42	0.36	0.42	-0.09	0.13	-0.07	0.04	0.04	-0.06	-0.70
Seminat.1000	0.42	-0.30	-0.27	0.34	-0.03	0.20	-0.23	-0.12	-0.01	-0.66
Water.1000	-0.07	0.09	-0.29	-0.62	0.18	0.68	-0.11	-0.06	0.02	-0.05
Standard deviation	1.71	1.20	1.16	1.13	0.98	0.84	0.74	0.69	0.50	0.26
Proportion of Variance	0.29	0.14	0.13	0.13	0.10	0.07	0.05	0.05	0.03	0.01
Cumulative Proportion	0.29	0.44	0.57	0.70	0.80	0.87	0.92	0.97	0.99	1.00

LANDSCAPE1.Ppip.Sco	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	PC10
Any.w.250	-0.45	0.18	-0.14	-0.17	0.17	-0.30	-0.38	-0.23	-0.16	-0.62
BL.250	-0.45	0.21	-0.01	0.05	0.03	-0.24	-0.41	0.42	0.24	0.53
ASNW.500	-0.18	-0.34	-0.13	0.06	0.85	0.00	0.29	0.07	0.11	0.05
Near.any.w	0.41	-0.32	-0.12	-0.15	0.04	0.02	-0.49	0.06	0.64	-0.21
Near.BL	0.41	-0.11	-0.20	-0.40	0.18	-0.21	-0.27	0.24	-0.61	0.21
Near.ASNW	0.12	0.50	0.05	-0.64	0.10	-0.19	0.39	0.03	0.33	0.01

Urban.1000	0.13	-0.22	0.64	0.11	0.04	-0.66	0.00	-0.25	0.02	0.09
Arable.IG.2000	0.29	0.48	-0.16	0.28	0.32	0.07	-0.24	-0.58	0.02	0.30
Seminat.1000	-0.33	-0.37	-0.02	-0.50	-0.14	0.21	-0.08	-0.54	0.02	0.37
Water.100	-0.01	0.16	0.69	-0.16	0.28	0.53	-0.28	0.13	-0.11	-0.09
Standard deviation	1.82	1.24	1.16	1.00	0.94	0.81	0.72	0.62	0.51	0.33
Proportion of Variance	0.33	0.15	0.13	0.10	0.09	0.06	0.05	0.04	0.03	0.01
Cumulative Proportion	0.33	0.49	0.62	0.72	0.81	0.87	0.92	0.96	0.99	1.00

LANDSCAPE2.Ppip.Sco	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	PC10
Interconnectivity.any.wood.250	0.16	0.16	-0.10	0.52	-0.71	0.33	-0.19	0.11	-0.05	-0.02
Interconnectivity.BL.250	0.37	0.22	0.21	-0.17	0.02	-0.42	-0.61	0.29	-0.29	-0.12
Interconnectivity.ASNW.500	0.27	-0.35	0.06	-0.32	0.13	0.68	-0.41	-0.20	-0.07	0.09
Near.any.w	-0.42	-0.45	-0.04	0.07	-0.07	-0.10	-0.15	0.40	-0.34	0.55
Near.BL	-0.46	-0.30	0.05	0.23	0.11	0.01	-0.40	0.09	0.26	-0.62
Near.ASNW	-0.23	0.44	0.00	0.45	0.45	0.09	-0.31	-0.37	-0.14	0.29
Urban.1000	-0.11	-0.08	-0.70	-0.21	-0.22	-0.25	-0.17	-0.47	-0.28	-0.13
Arable.IG.2000	-0.41	0.32	0.25	-0.29	-0.11	0.30	0.19	0.05	-0.59	-0.31
Seminat.1000	0.37	-0.32	-0.12	0.44	0.34	0.01	0.28	0.07	-0.51	-0.29
Water.100	0.00	0.31	-0.61	-0.12	0.29	0.27	-0.02	0.58	0.12	-0.04
Standard deviation	1.63	1.20	1.15	0.99	0.99	0.90	0.83	0.76	0.54	0.49
Proportion of Variance	0.27	0.15	0.13	0.10	0.10	0.08	0.07	0.06	0.03	0.02
Cumulative Proportion	0.27	0.41	0.54	0.64	0.74	0.82	0.89	0.95	0.98	1.00

LANDSCAPE1.Mysp.Sco	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	PC10
Any.w.250	-0.44	0.21	-0.06	0.27	0.15	0.33	-0.11	0.11	-0.73	-0.03
BL.250	-0.42	0.25	0.02	-0.05	0.24	0.57	-0.05	-0.16	0.59	-0.03
ASNW.2500	-0.10	-0.43	0.44	-0.15	-0.40	0.24	-0.60	-0.09	-0.06	0.02
Near.any.w	0.39	-0.28	-0.01	0.28	0.10	0.40	0.27	-0.65	-0.15	-0.05
Near.BL	0.38	-0.12	-0.17	0.48	-0.08	0.38	-0.12	0.61	0.20	-0.01
Near.ASNW	0.12	0.35	-0.58	0.14	-0.27	-0.12	-0.54	-0.36	0.05	0.01
Urban.1500	0.11	-0.38	-0.31	-0.31	0.71	-0.01	-0.37	0.07	-0.07	0.08
Arable.IG.250	0.37	0.41	0.21	-0.27	0.02	0.23	-0.03	0.04	-0.14	0.70
Seminat.250	-0.39	-0.38	-0.20	0.33	-0.08	-0.16	0.12	-0.07	0.13	0.70
Water.100	-0.08	-0.19	-0.51	-0.53	-0.41	0.35	0.31	0.11	-0.12	-0.02
Standard deviation	1.87	1.38	1.19	1.03	0.87	0.69	0.67	0.50	0.39	0.17
Proportion of Variance	0.35	0.19	0.14	0.11	0.08	0.05	0.05	0.03	0.02	0.00
Cumulative Proportion	0.35	0.54	0.68	0.79	0.86	0.91	0.96	0.98	1.00	1.00

LANDSCAPE2.Mysp.Sco	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	PC10
Interconnectivity.any.wood.250	0.12	0.11	0.16	-0.69	0.62	-0.17	0.22	0.03	0.02	0.02
Interconnectivity.BL.250	0.29	0.35	0.10	0.02	-0.16	0.65	0.57	0.09	0.04	0.01
Interconnectivity.ASNW.2500	0.24	0.03	-0.57	-0.04	-0.20	-0.42	0.29	0.55	0.14	0.00

Near.any.w	-0.41	-0.35	-0.28	-0.04	0.09	0.16	0.31	-0.27	0.66	0.03
Near.BL	-0.44	-0.29	-0.09	0.19	0.24	0.06	0.42	0.19	-0.63	0.01
Near.ASNW	-0.23	0.02	0.61	0.28	0.10	-0.14	0.05	0.56	0.37	0.00
Urban.1500	-0.07	-0.46	0.05	-0.52	-0.31	0.40	-0.28	0.41	-0.05	-0.09
Arable.IG.250	-0.46	0.43	-0.03	-0.20	-0.22	-0.10	0.04	-0.04	-0.02	-0.71
Seminat.250	0.46	-0.40	0.03	0.25	0.28	0.05	0.04	-0.02	0.06	-0.70
Water.100	0.12	-0.31	0.42	-0.16	-0.50	-0.39	0.42	-0.30	-0.08	0.01
Standard deviation	1.65	1.32	1.22	1.01	0.96	0.89	0.75	0.69	0.49	0.17
Proportion of Variance	0.27	0.17	0.15	0.10	0.09	0.08	0.06	0.05	0.02	0.00
Cumulative Proportion	0.27	0.45	0.59	0.70	0.79	0.87	0.92	0.97	1.00	1.00

LOCAL.Eng	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	PC10	PC11	PC12
Area	0.31	0.26	0.25	-0.01	0.04	-0.25	0.80	-0.17	0.07	-0.13	0.03	-0.11
Shape	0.30	0.13	-0.25	0.12	-0.65	-0.55	-0.16	0.15	-0.05	0.19	0.03	-0.03
Edge.arable.IG	-0.23	-0.46	-0.11	0.39	-0.10	-0.05	0.13	-0.09	0.02	-0.14	-0.14	-0.71
Edge.seminat	0.26	0.32	-0.07	-0.53	0.05	0.16	-0.26	-0.21	0.03	0.11	0.01	-0.63
Edge.urban	0.02	0.36	0.43	0.29	0.20	-0.05	-0.18	0.63	-0.24	-0.08	-0.07	-0.26
Tree.sp	0.11	0.37	-0.26	0.30	-0.36	0.63	0.13	-0.03	-0.05	-0.20	-0.31	0.06
Tree.dens	0.33	-0.26	0.40	0.05	-0.14	0.20	-0.06	0.14	0.64	0.31	-0.28	0.01
Tree.dbh.mean	-0.42	0.15	-0.03	-0.38	-0.08	-0.29	0.04	0.14	0.20	-0.24	-0.67	0.04
Tree.dbh.sd	-0.44	0.25	-0.04	-0.04	-0.24	0.10	0.10	0.23	0.51	-0.08	0.58	-0.10
Under.cover	-0.05	0.38	-0.02	0.47	0.29	-0.26	-0.33	-0.48	0.37	-0.04	-0.07	0.04
Canopy.cover	-0.11	-0.04	0.63	-0.07	-0.45	0.02	-0.23	-0.37	-0.19	-0.36	0.10	0.04
AGE	-0.44	0.20	0.19	0.07	-0.13	0.06	0.17	-0.19	-0.23	0.76	-0.11	-0.04
Standard deviation	1.84	1.60	1.29	1.21	0.86	0.76	0.71	0.66	0.55	0.45	0.30	0.23
Proportion of Variance	0.28	0.21	0.14	0.12	0.06	0.05	0.04	0.04	0.03	0.02	0.01	0.00
Cumulative Proportion	0.28	0.50	0.63	0.76	0.82	0.87	0.91	0.95	0.97	0.99	1.00	1.00

LANDSCAPE1.Paur.Eng	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	PC10
Any.wood.1500	0.48	-0.06	-0.11	0.14	-0.16	0.23	-0.34	0.53	-0.46	0.23
BL.1000	0.44	-0.10	-0.13	-0.26	-0.16	0.69	0.15	-0.30	0.30	-0.13
ASNW.1000	0.33	-0.05	-0.35	-0.46	-0.20	-0.52	0.44	0.24	0.06	0.01
Near.any.w	-0.17	0.51	-0.40	0.06	0.03	0.19	0.37	-0.25	-0.40	0.38
Near.BL	-0.18	0.56	-0.27	0.06	-0.04	0.16	-0.10	0.51	0.39	-0.35
Near.ASNW	-0.25	0.13	0.41	-0.11	-0.85	0.06	0.09	0.03	-0.10	0.03
Urban.100	0.25	-0.08	0.03	0.77	-0.14	-0.07	0.48	0.01	0.02	-0.27
Arable.IG.100	-0.37	-0.38	-0.29	-0.14	-0.01	0.18	0.10	0.08	-0.48	-0.58
Seminat.100	0.36	0.44	0.05	-0.07	-0.05	-0.27	-0.33	-0.41	-0.29	-0.48
Water.250	0.13	0.22	0.60	-0.26	0.41	0.17	0.41	0.28	-0.22	-0.14
Standard deviation	1.88	1.47	1.26	1.06	0.80	0.58	0.56	0.46	0.26	0.18
Proportion of Variance	0.35	0.22	0.16	0.11	0.06	0.03	0.03	0.02	0.01	0.00
Cumulative Proportion	0.35	0.57	0.73	0.84	0.90	0.94	0.97	0.99	1.00	1.00

LANDSCAPE2.Paur.Eng	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	PC10
Interconnectivity.any.wood.1500	0.43	0.04	0.25	-0.10	0.41	-0.13	0.52	0.18	0.24	-0.44
Interconnectivity.BL.1000	0.46	0.08	0.18	-0.16	0.19	0.23	-0.28	0.52	-0.33	0.41
Interconnectivity.ASNW.1000	0.42	0.07	0.13	-0.34	-0.19	0.47	0.00	-0.65	0.05	0.02
Near.any.w	-0.11	-0.58	0.32	0.01	-0.13	0.37	-0.33	0.22	0.07	-0.48
Near.BL	-0.12	-0.62	0.19	-0.03	0.02	0.03	0.54	-0.06	-0.11	0.50
Near.ASNW	-0.21	-0.15	-0.49	-0.18	0.72	0.35	-0.09	-0.11	0.04	-0.01
Urban.100	0.14	0.12	-0.03	0.82	0.04	0.46	0.14	0.01	0.21	0.12
Arable.IG.100	-0.38	0.28	0.33	-0.28	0.01	0.18	-0.01	0.19	0.66	0.29
Seminat.100	0.39	-0.37	-0.09	0.11	0.11	-0.42	-0.41	-0.15	0.52	0.23

Water.250	0.20	-0.12	-0.63	-0.22	-0.46	0.17	0.23	0.39	0.25	-0.02
Standard deviation	1.94	1.45	1.21	1.10	0.82	0.59	0.47	0.36	0.22	0.14
Proportion of Variance	0.38	0.21	0.15	0.12	0.07	0.03	0.02	0.01	0.00	0.00
Cumulative Proportion	0.38	0.59	0.73	0.86	0.92	0.96	0.98	0.99	1.00	1.00

LANDSCAPE1.Ppyg.Eng	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	PC10
Any.w.1000	0.42	0.19	-0.17	0.06	-0.30	0.41	-0.08	0.66	-0.09	-0.21
BL.500	0.47	0.03	-0.03	0.02	-0.11	-0.20	-0.70	-0.19	-0.02	0.44
ASNW.1000	0.31	0.21	-0.34	0.20	0.20	-0.72	0.32	0.20	0.03	-0.07
Near.any.w	-0.25	0.56	0.12	0.09	0.26	-0.09	-0.47	-0.04	-0.11	-0.53
Near.BL	-0.30	0.56	0.20	0.08	0.05	0.06	0.11	0.30	0.17	0.65
Near.ASNW	-0.20	-0.16	0.47	0.25	-0.63	-0.43	-0.07	0.21	-0.05	-0.12
Urban.1500	0.14	-0.25	0.34	0.63	0.46	0.15	0.02	0.11	-0.39	0.11
Arable.IG.500	-0.40	-0.04	-0.49	-0.03	-0.14	-0.07	-0.08	0.08	-0.72	0.20
Seminat.250	0.33	0.44	0.22	-0.01	-0.29	0.10	0.38	-0.49	-0.41	-0.01
Water.2000	0.14	-0.08	0.41	-0.70	0.26	-0.20	0.01	0.31	-0.33	0.02
Standard deviation	1.86	1.37	1.18	1.08	0.87	0.77	0.59	0.48	0.37	0.22
Proportion of Variance	0.35	0.19	0.14	0.12	0.08	0.06	0.03	0.02	0.01	0.00
Cumulative Proportion	0.35	0.53	0.67	0.79	0.86	0.92	0.96	0.98	1.00	1.00

LANDSCAPE2.Ppyg.Eng	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	PC10
Interconnectivity.any.wood.1000	0.41	0.19	-0.09	0.36	-0.30	0.20	-0.43	0.25	0.32	0.43
Interconnectivity.BL.500	0.48	0.07	-0.03	0.11	-0.01	0.26	0.53	0.19	0.31	-0.52
Interconnectivity.ASNW.1000	0.44	0.10	-0.22	-0.16	0.07	0.46	-0.09	-0.31	-0.63	0.04
Near.any.w	-0.18	0.59	0.15	-0.08	0.32	0.21	0.43	-0.03	0.10	0.49
Near.BL	-0.20	0.60	0.20	-0.08	0.06	0.11	-0.47	0.20	-0.07	-0.52
Near.ASNW	-0.20	-0.09	0.47	-0.20	-0.71	0.39	0.15	-0.04	-0.06	0.04
Urban.1500	0.07	-0.32	0.59	0.24	0.46	0.32	-0.22	-0.29	0.20	-0.03
Arable.IG.500	-0.37	0.07	-0.49	0.16	-0.12	0.31	-0.06	-0.56	0.37	-0.16
Seminat.250	0.33	0.33	0.28	0.11	-0.24	-0.52	0.05	-0.59	0.03	-0.06
Water.2000	0.24	-0.05	-0.03	-0.83	0.07	-0.01	-0.20	-0.08	0.45	0.06
Standard deviation	1.94	1.40	1.17	1.04	0.88	0.74	0.48	0.39	0.30	0.17
Proportion of Variance	0.38	0.20	0.14	0.11	0.08	0.05	0.02	0.02	0.01	0.00
Cumulative Proportion	0.38	0.57	0.71	0.82	0.90	0.95	0.97	0.99	1.00	1.00

LANDSCAPE1.Ppip.Eng	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	PC10
Any.w.500	0.37	0.23	-0.17	0.36	0.35	-0.20	-0.37	0.60	-0.02	-0.01
BL.2000	0.44	0.18	0.09	-0.29	-0.34	-0.02	-0.08	-0.03	-0.72	0.19
ASNW.250	0.06	-0.16	-0.23	-0.60	0.67	0.26	0.14	0.10	-0.13	0.03
Near.any.w	-0.33	0.55	-0.08	-0.09	-0.07	0.04	0.26	0.22	-0.21	-0.63
Near.BL	-0.37	0.54	0.04	-0.05	0.06	0.03	0.13	0.13	0.08	0.73
Near.ASNW	-0.26	-0.16	0.48	0.35	0.19	0.58	-0.17	0.11	-0.38	-0.01

Urban.100	0.29	0.11	-0.33	0.52	0.18	0.18	0.56	-0.33	-0.16	0.08
Arable.IG.2000	-0.43	-0.03	-0.25	0.12	0.28	-0.45	-0.34	-0.41	-0.41	0.00
Seminat.250	0.27	0.51	0.24	-0.09	0.23	0.21	-0.37	-0.53	0.27	-0.15
Water.100	0.11	-0.01	0.67	0.00	0.33	-0.53	0.39	0.00	-0.04	-0.05
Standard deviation	1.76	1.32	1.19	1.08	0.95	0.76	0.72	0.52	0.47	0.34
Proportion of Variance	0.31	0.17	0.14	0.12	0.09	0.06	0.05	0.03	0.02	0.01
Cumulative Proportion	0.31	0.48	0.62	0.74	0.83	0.89	0.94	0.97	0.99	1.00

LANDSCAPE2.Ppip.Eng	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	PC10
Interconnectivity.any.wood.500	0.40	-0.32	0.00	-0.15	0.42	-0.30	0.23	0.23	-0.39	-0.44
Interconnectivity.BL.2000	0.49	-0.19	0.01	-0.02	0.18	0.24	-0.06	0.49	0.44	0.44
Interconnectivity.ASNW.250	0.13	0.07	0.30	-0.67	-0.55	-0.28	-0.16	0.19	-0.02	0.00
Near.any.w	-0.29	-0.55	0.12	0.11	-0.19	0.21	-0.24	0.20	0.34	-0.55
Near.BL	-0.30	-0.58	-0.02	0.03	-0.12	0.00	-0.05	0.11	-0.52	0.52
Near.ASNW	-0.26	0.08	-0.56	0.00	0.13	-0.58	-0.35	0.30	0.19	0.03
Urban.100	0.19	0.11	0.23	0.70	-0.42	-0.35	0.15	0.30	-0.08	-0.01
Arable.IG.2000	-0.43	-0.06	0.18	-0.15	0.11	-0.21	0.74	0.15	0.35	0.12
Seminat.250	0.33	-0.44	-0.18	0.04	-0.20	-0.34	0.10	-0.62	0.31	0.11
Water.100	0.11	0.02	-0.68	-0.09	-0.44	0.32	0.40	0.18	-0.10	-0.14
Standard deviation	1.76	1.38	1.18	1.05	0.91	0.81	0.72	0.51	0.44	0.21
Proportion of Variance	0.31	0.19	0.14	0.11	0.08	0.07	0.05	0.03	0.02	0.00
Cumulative Proportion	0.31	0.50	0.64	0.75	0.83	0.90	0.95	0.98	1.00	1.00

LANDSCAPE1.Mysp.Eng	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	PC10
Any.w.1000	0.37	0.16	0.05	-0.01	0.06	-0.77	-0.40	0.27	-0.06	-0.09
BL.2000	0.45	0.15	-0.07	-0.16	-0.03	0.16	0.41	0.52	0.51	0.12
ASNW.1000	0.35	0.28	-0.11	0.06	0.41	0.55	-0.53	-0.01	-0.06	-0.18
Near.any.w	-0.24	0.48	-0.45	-0.12	-0.11	0.03	0.16	0.37	-0.56	0.07
Near.BL	-0.28	0.43	-0.41	-0.23	0.00	-0.18	-0.13	-0.39	0.56	-0.01
Near.ASNW	-0.24	-0.34	-0.19	-0.25	0.81	-0.15	0.16	0.17	0.00	-0.05
Urban.1500	0.12	-0.42	-0.61	0.32	-0.11	0.00	-0.25	0.05	0.06	0.50
Arable.IG.1500	-0.37	0.27	0.44	0.14	0.19	0.04	-0.23	0.24	0.13	0.64
Seminat.1500	0.44	0.21	0.03	-0.08	0.25	-0.11	0.34	-0.53	-0.26	0.47
Water.250	0.06	-0.23	0.07	-0.84	-0.23	0.12	-0.31	0.01	-0.11	0.23
Standard deviation	2.01	1.36	1.12	1.07	0.80	0.76	0.47	0.36	0.33	0.21
Proportion of Variance	0.40	0.19	0.13	0.11	0.06	0.06	0.02	0.01	0.01	0.00
Cumulative Proportion	0.40	0.59	0.71	0.83	0.89	0.95	0.97	0.99	1.00	1.00

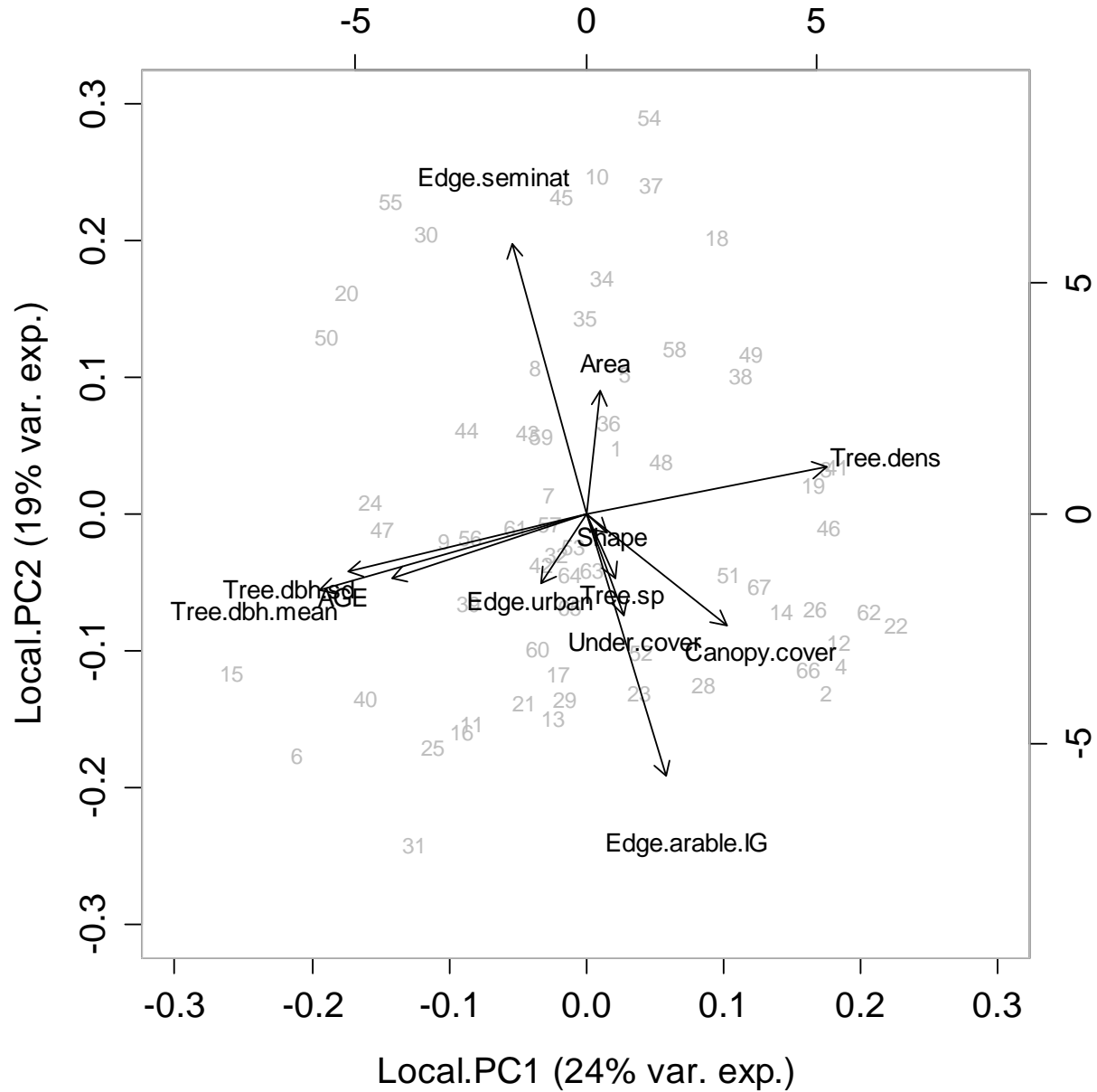
LANDSCAPE2.Mysp.Eng	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	PC10
Interconnectivity.any.wood.1000	0.39	0.26	-0.02	0.06	0.46	-0.19	0.54	-0.22	0.13	0.42
Interconnectivity.BL.2000	0.46	0.17	-0.07	0.01	0.03	0.07	-0.27	-0.55	-0.52	-0.32
Interconnectivity.ASNW.1000	0.40	0.18	-0.09	-0.20	-0.16	-0.70	-0.25	0.34	0.18	-0.16

Near.any.w	-0.21	0.50	-0.44	0.13	-0.17	0.07	-0.41	-0.26	0.29	0.38
Near.BL	-0.24	0.48	-0.45	0.00	0.05	0.06	0.41	0.30	-0.25	-0.42
Near.ASNW	-0.22	-0.25	-0.32	-0.31	0.75	-0.11	-0.34	0.03	-0.04	-0.02
Urban.1500	0.08	-0.46	-0.49	0.44	-0.08	-0.15	0.17	-0.26	0.35	-0.32
Arable.IG.1500	-0.36	0.28	0.45	-0.08	0.16	-0.21	0.03	-0.40	0.39	-0.45
Seminat.1500	0.43	0.15	0.06	0.08	0.25	0.57	-0.18	0.29	0.46	-0.26
Water.250	0.11	-0.12	-0.23	-0.80	-0.28	0.21	0.24	-0.23	0.22	-0.02
Standard deviation	2.05	1.39	1.12	1.10	0.84	0.55	0.49	0.30	0.22	0.20
Proportion of Variance	0.42	0.19	0.12	0.12	0.07	0.03	0.02	0.01	0.00	0.00
Cumulative Proportion	0.42	0.61	0.74	0.86	0.93	0.96	0.98	0.99	1.00	1.00

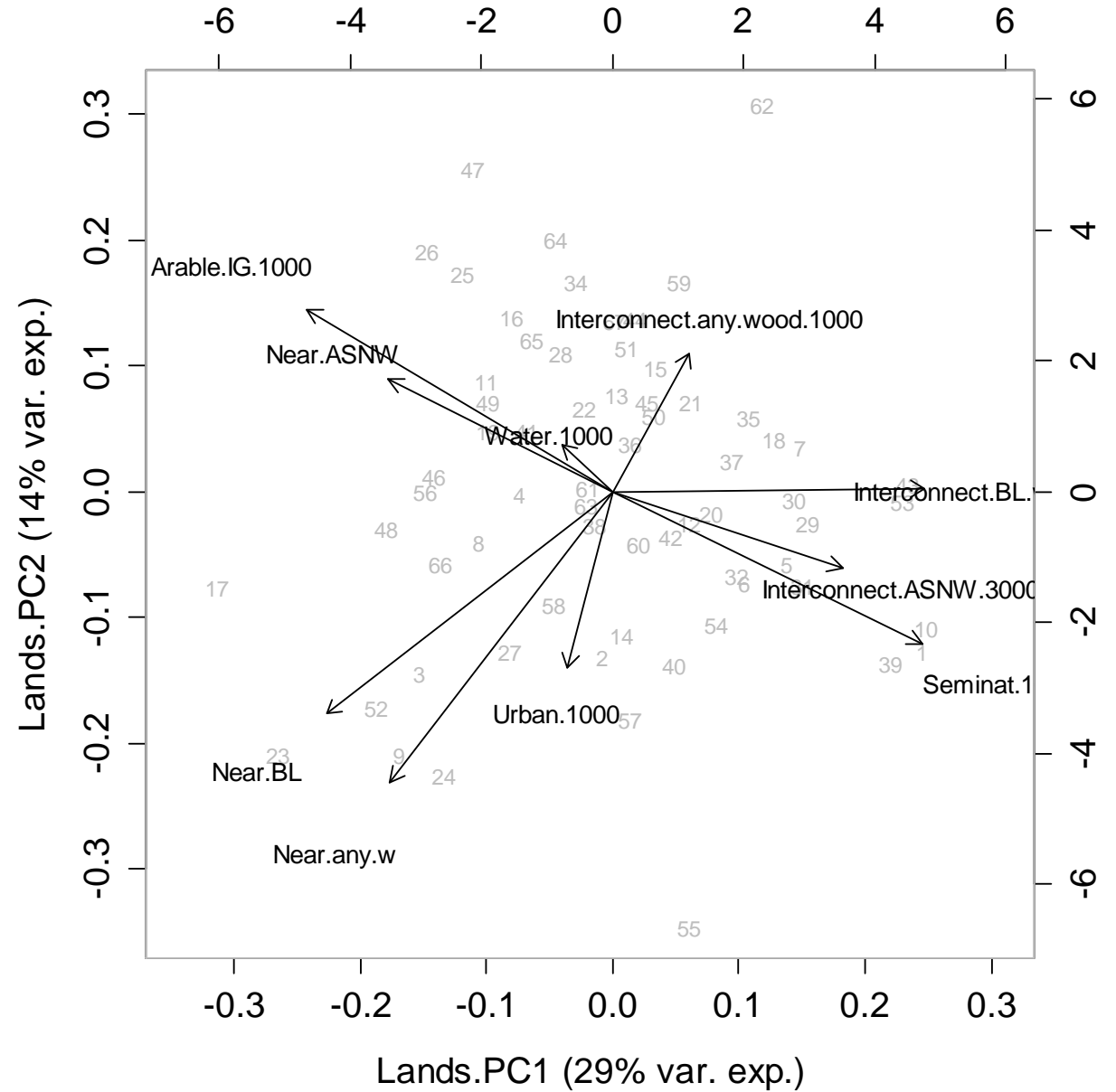
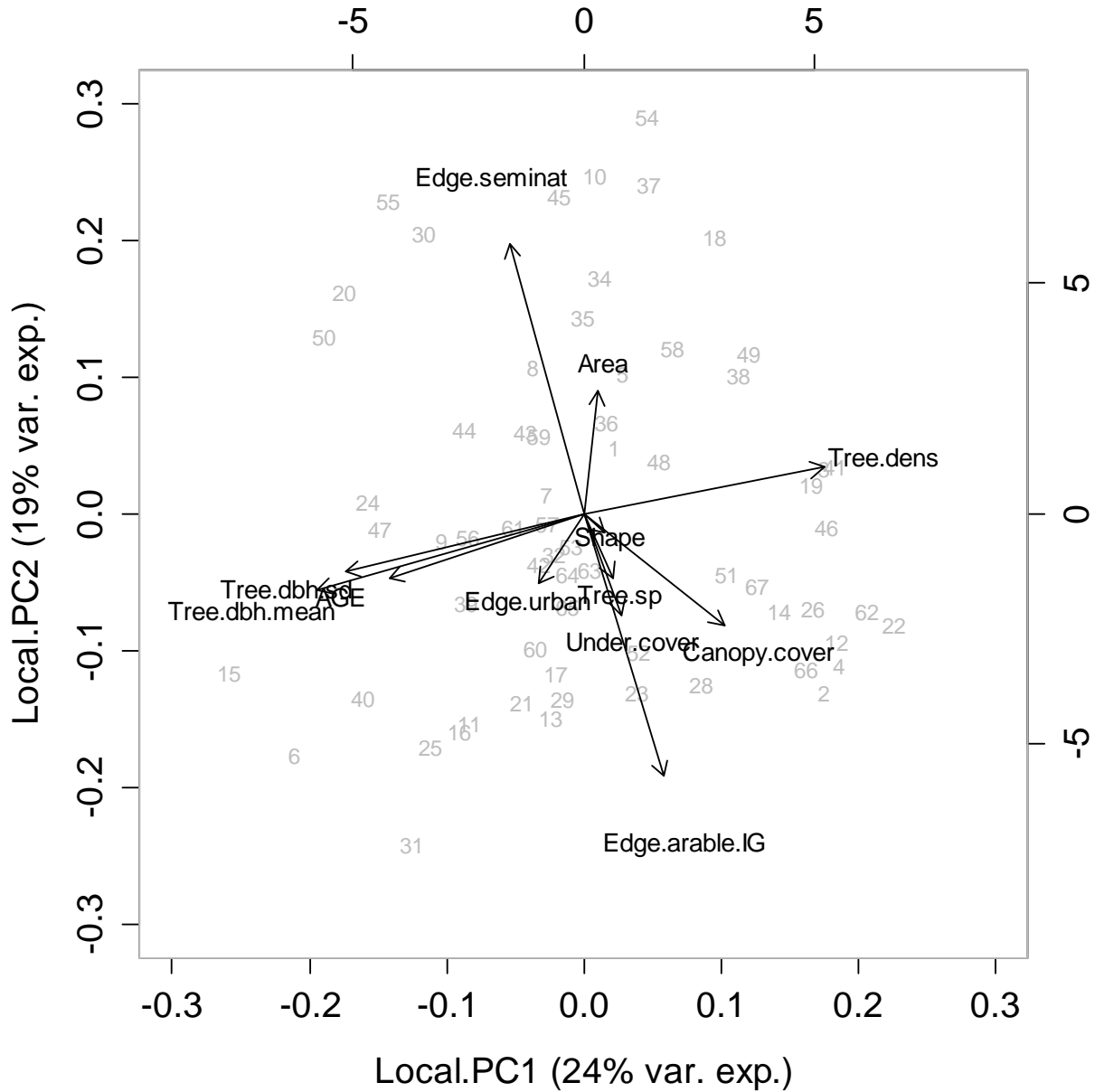
LANDSCAPE1.Nyct.Eng	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	PC10
Any.w.1000	0.48	-0.16	0.11	-0.07	0.03	-0.05	0.06	-0.73	0.03	-0.42
BL.1000	0.46	-0.07	0.11	-0.01	-0.38	-0.01	-0.44	0.16	-0.62	0.17
ASNW.250	-0.01	0.29	0.23	0.67	0.09	-0.61	-0.14	-0.07	0.04	0.01
Near.any.w	-0.23	-0.60	0.14	0.21	-0.02	0.08	-0.45	0.21	0.17	-0.48
Near.BL	-0.26	-0.61	0.05	0.14	-0.02	-0.10	0.16	-0.37	-0.15	0.58
Near.ASNW	-0.25	0.00	-0.31	-0.55	-0.09	-0.63	-0.34	-0.12	0.04	-0.04
Urban.100	0.28	-0.06	0.00	-0.12	0.83	0.06	-0.37	0.05	0.05	0.27
Arable.IG.100	-0.29	0.33	0.48	-0.13	-0.18	0.33	-0.44	-0.36	0.22	0.21
Seminat.1000	0.46	-0.18	0.13	-0.08	-0.30	-0.16	0.03	0.22	0.69	0.30
Water.2500	0.07	0.08	-0.75	0.37	-0.15	0.26	-0.31	-0.23	0.19	0.12
Standard deviation	1.88	1.34	1.12	1.05	0.98	0.85	0.52	0.44	0.32	0.24
Proportion of Variance	0.35	0.18	0.13	0.11	0.10	0.07	0.03	0.02	0.01	0.01
Cumulative Proportion	0.35	0.53	0.66	0.77	0.86	0.94	0.96	0.98	0.99	1.00

LANDSCAPE2.Nyct.Eng	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	PC10
Interconnectivity.any.wood.1000	0.45	-0.20	0.20	-0.12	0.25	-0.05	-0.57	0.35	0.07	0.43
Interconnectivity.BL.1000	0.50	-0.13	0.08	-0.18	0.13	0.11	0.28	0.34	-0.39	-0.57
Interconnectivity.ASNW.250	0.08	0.21	0.46	-0.26	-0.49	-0.64	0.11	0.09	0.07	0.00
Near.any.w	-0.22	-0.61	0.14	0.01	-0.20	0.09	0.44	0.23	-0.24	0.45
Near.BL	-0.25	-0.63	0.07	-0.04	-0.09	-0.10	-0.30	-0.01	0.41	-0.51
Near.ASNW	-0.25	-0.01	-0.35	-0.11	0.56	-0.60	0.20	0.30	0.05	0.02
Urban.100	0.20	0.05	-0.26	0.73	-0.32	-0.11	0.03	0.45	0.19	-0.05
Arable.IG.100	-0.32	0.31	0.45	-0.03	0.20	0.38	0.17	0.47	0.40	-0.06
Seminat.1000	0.47	-0.16	0.12	0.11	0.24	-0.04	0.47	-0.37	0.54	0.11
Water.2500	0.13	0.04	-0.55	-0.57	-0.35	0.21	0.09	0.21	0.35	0.10
Standard deviation	1.83	1.35	1.13	1.07	1.01	0.86	0.53	0.52	0.32	0.17
Proportion of Variance	0.33	0.18	0.13	0.11	0.10	0.07	0.03	0.03	0.01	0.00
Cumulative Proportion	0.33	0.51	0.64	0.76	0.86	0.93	0.96	0.99	1.00	1.00

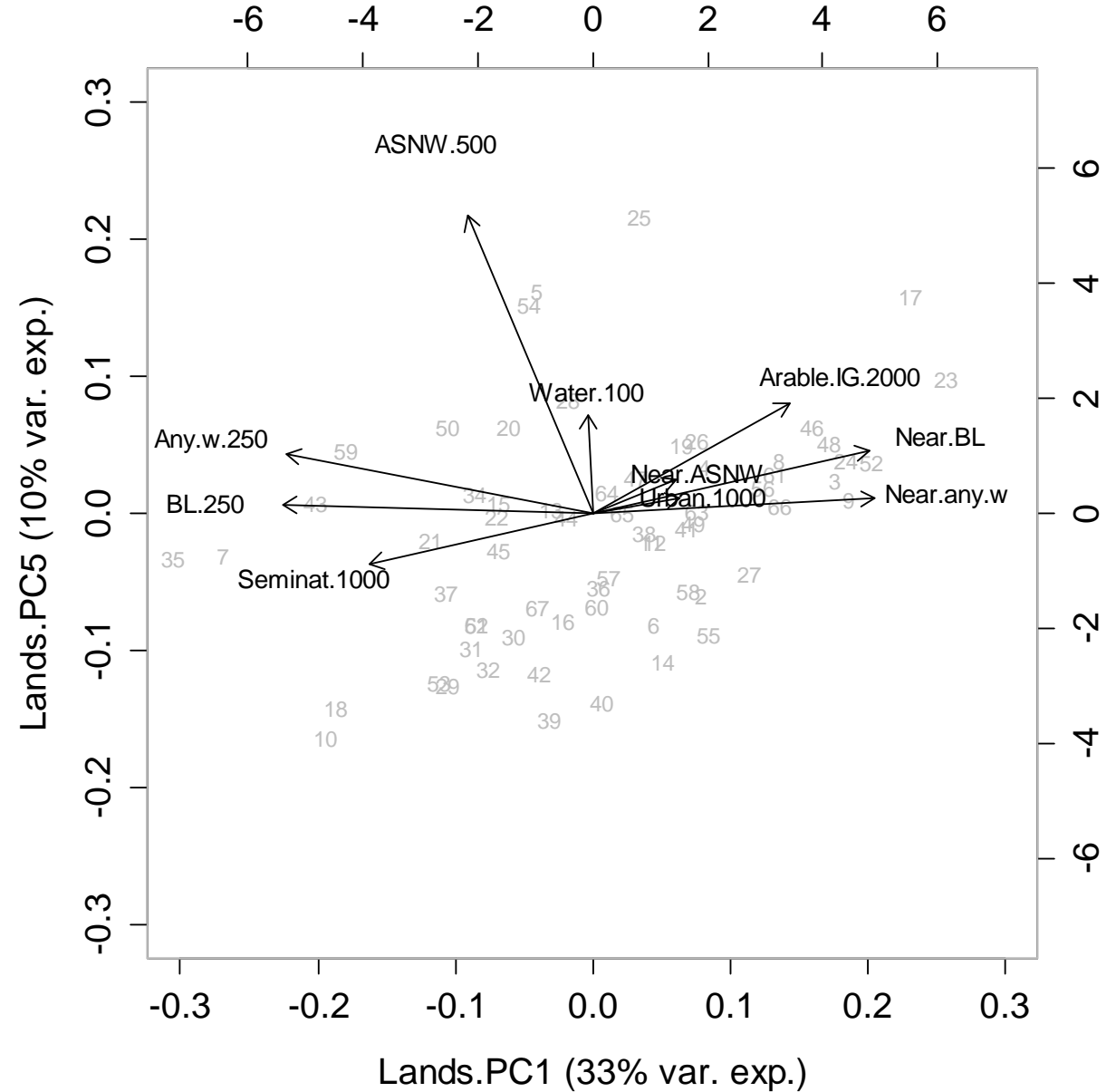
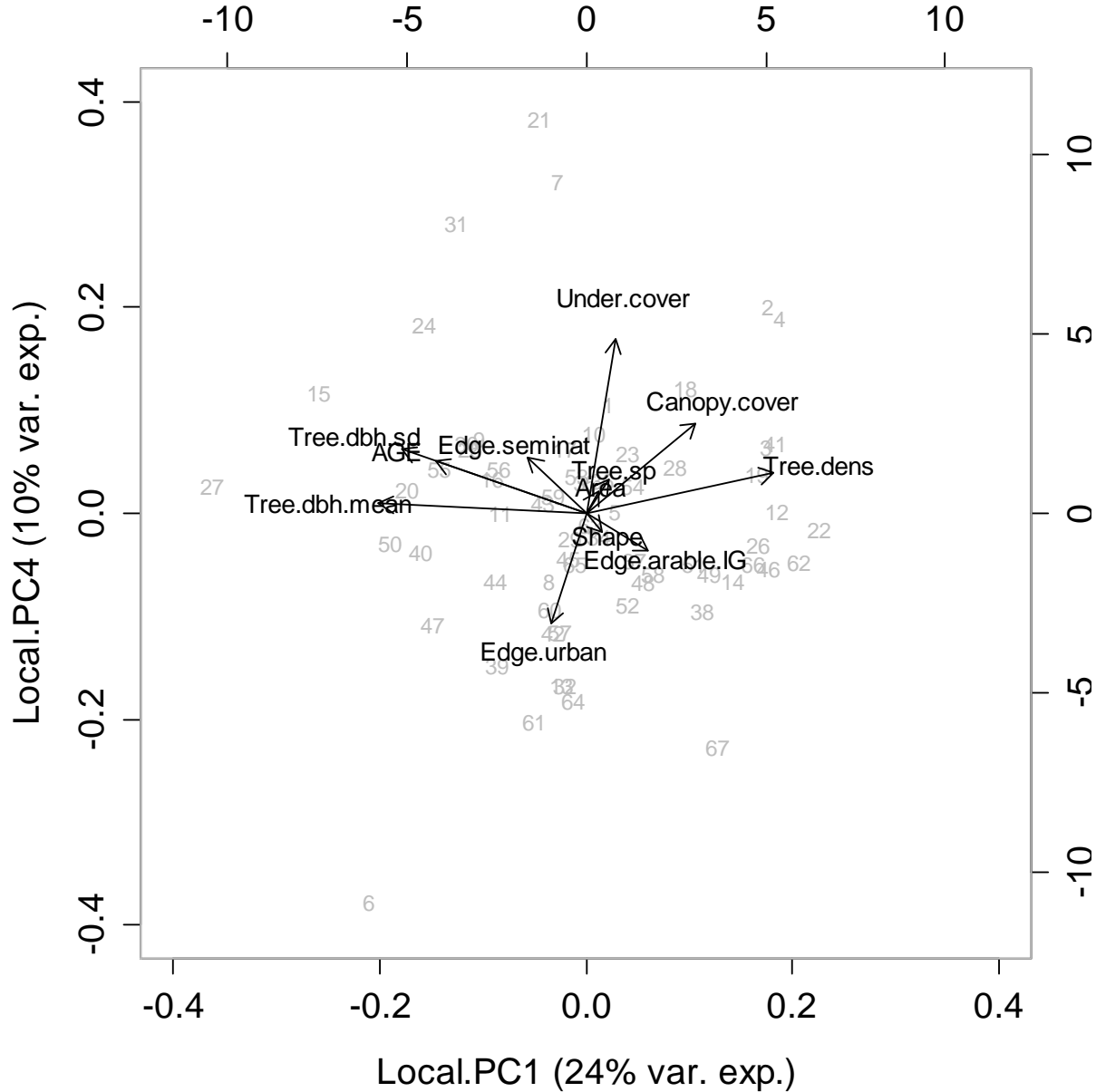
a) *P. auritus* – Scotland



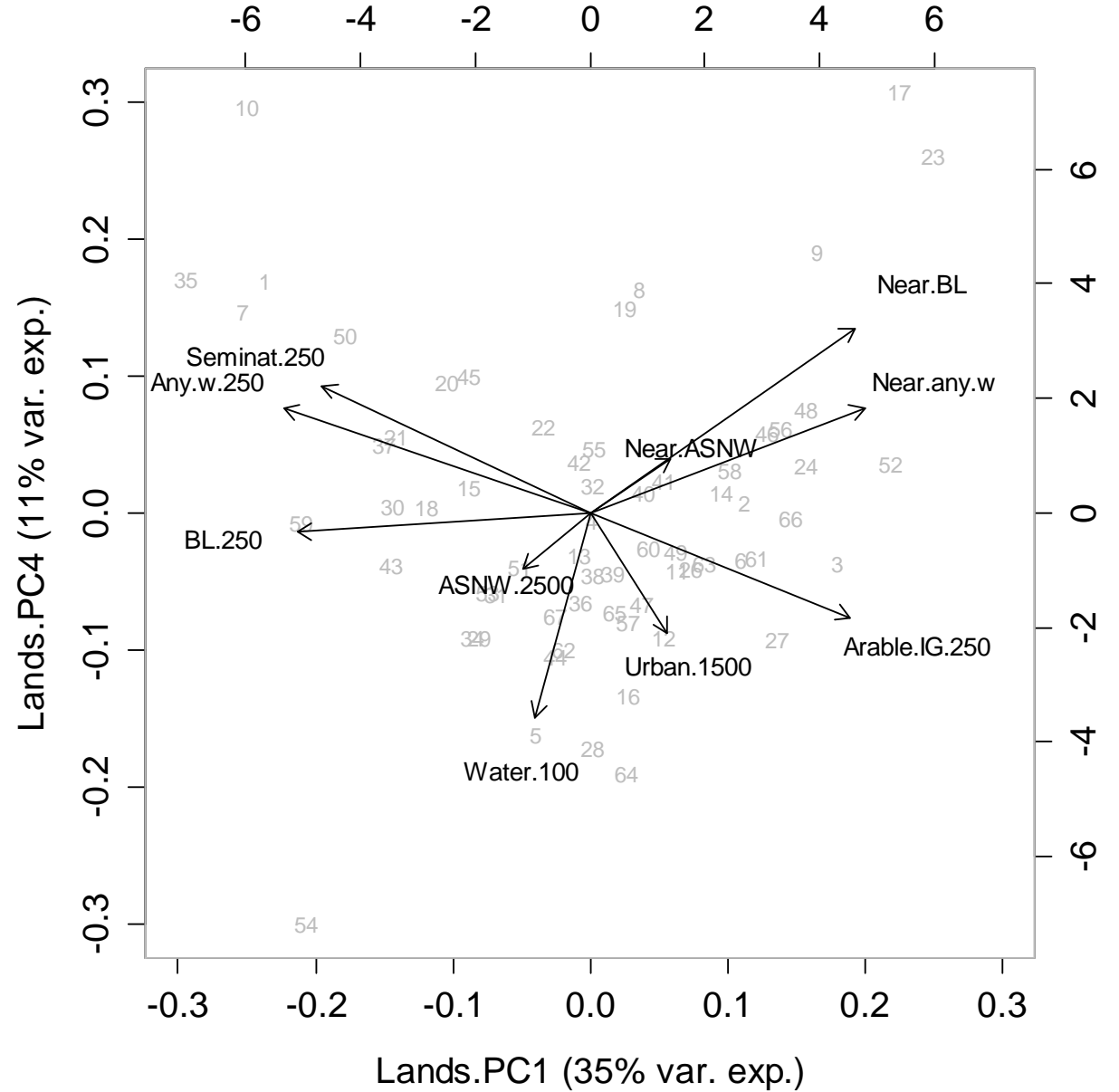
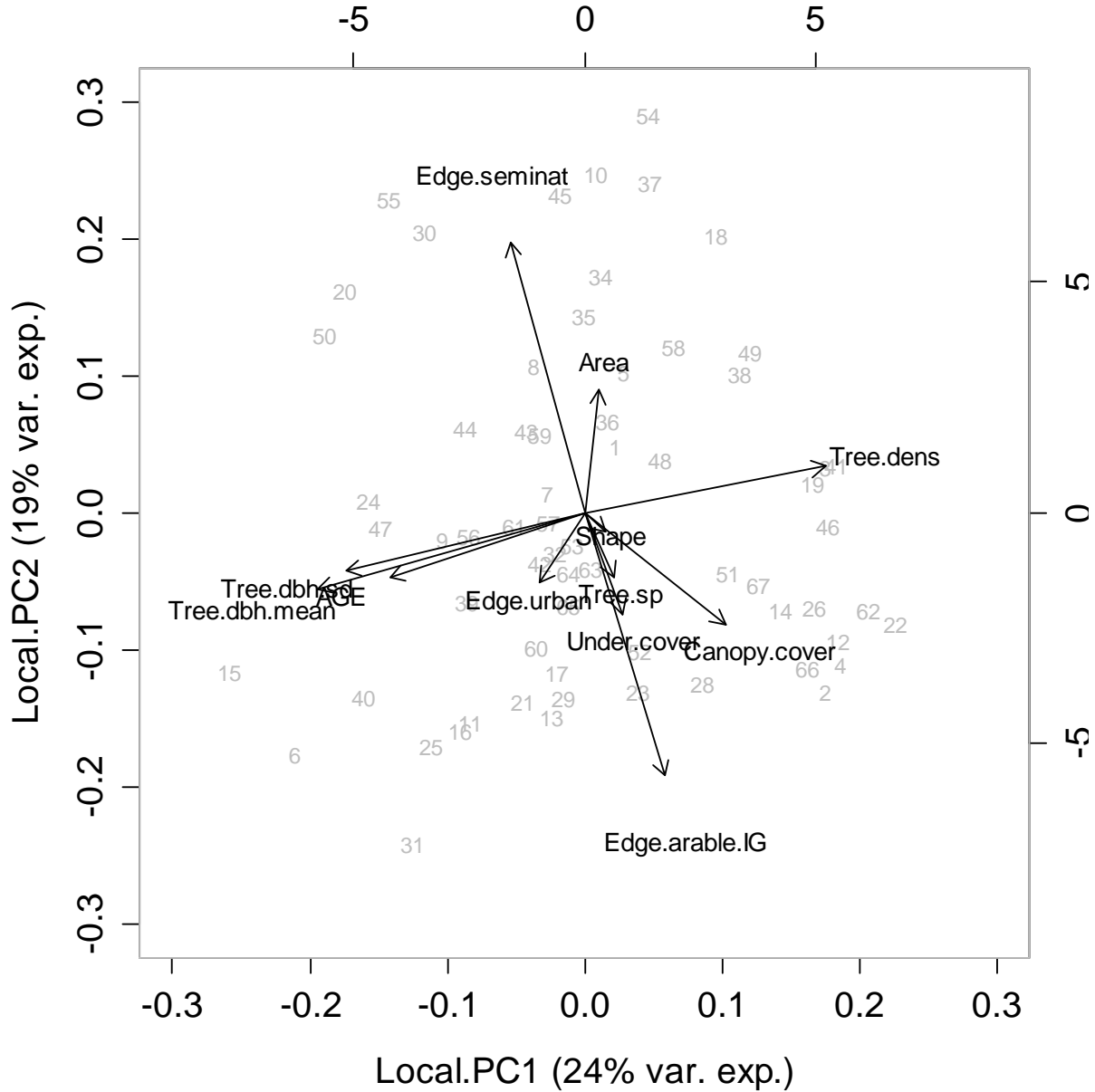
b) *P. pygmaeus* – Scotland



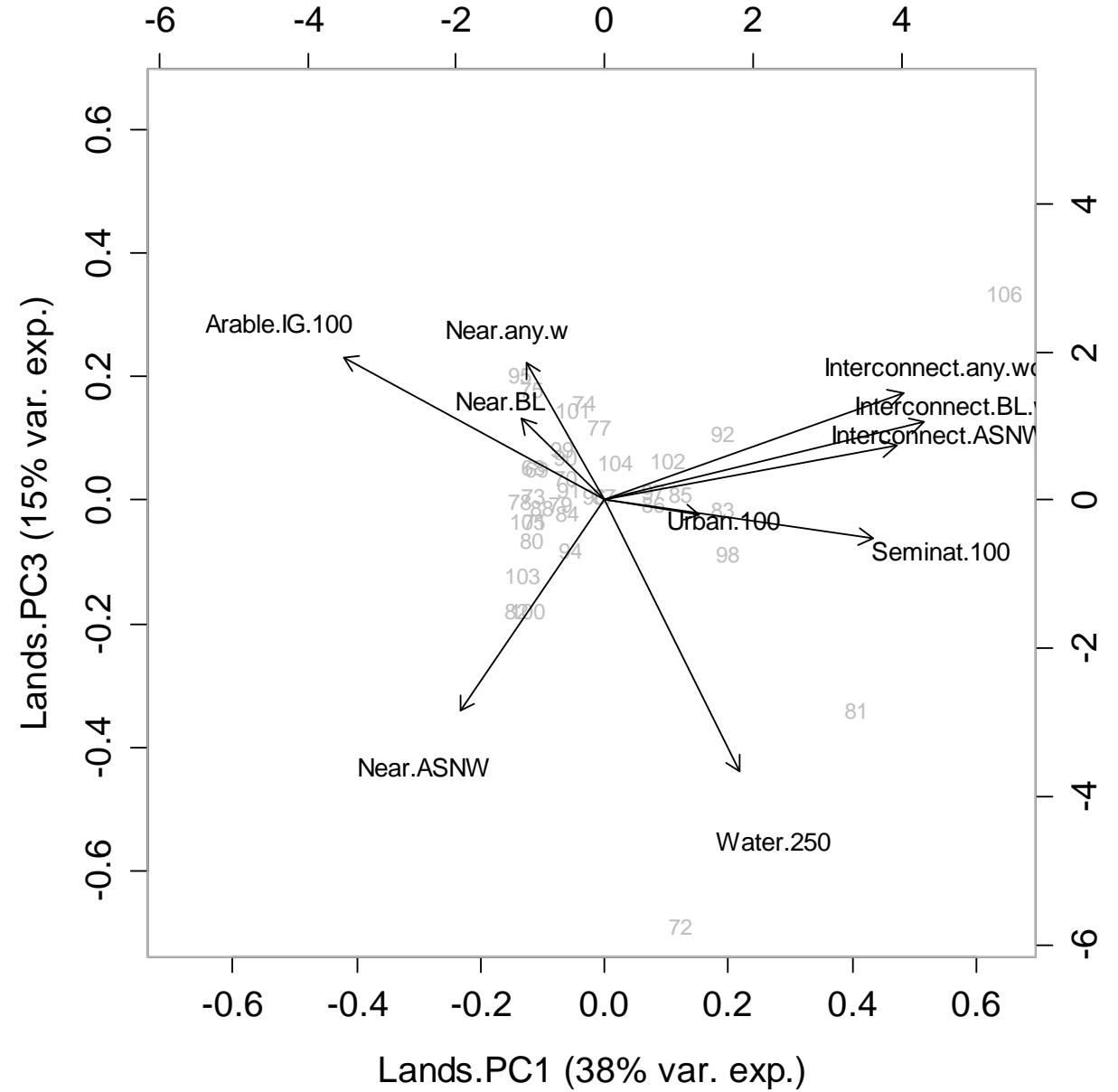
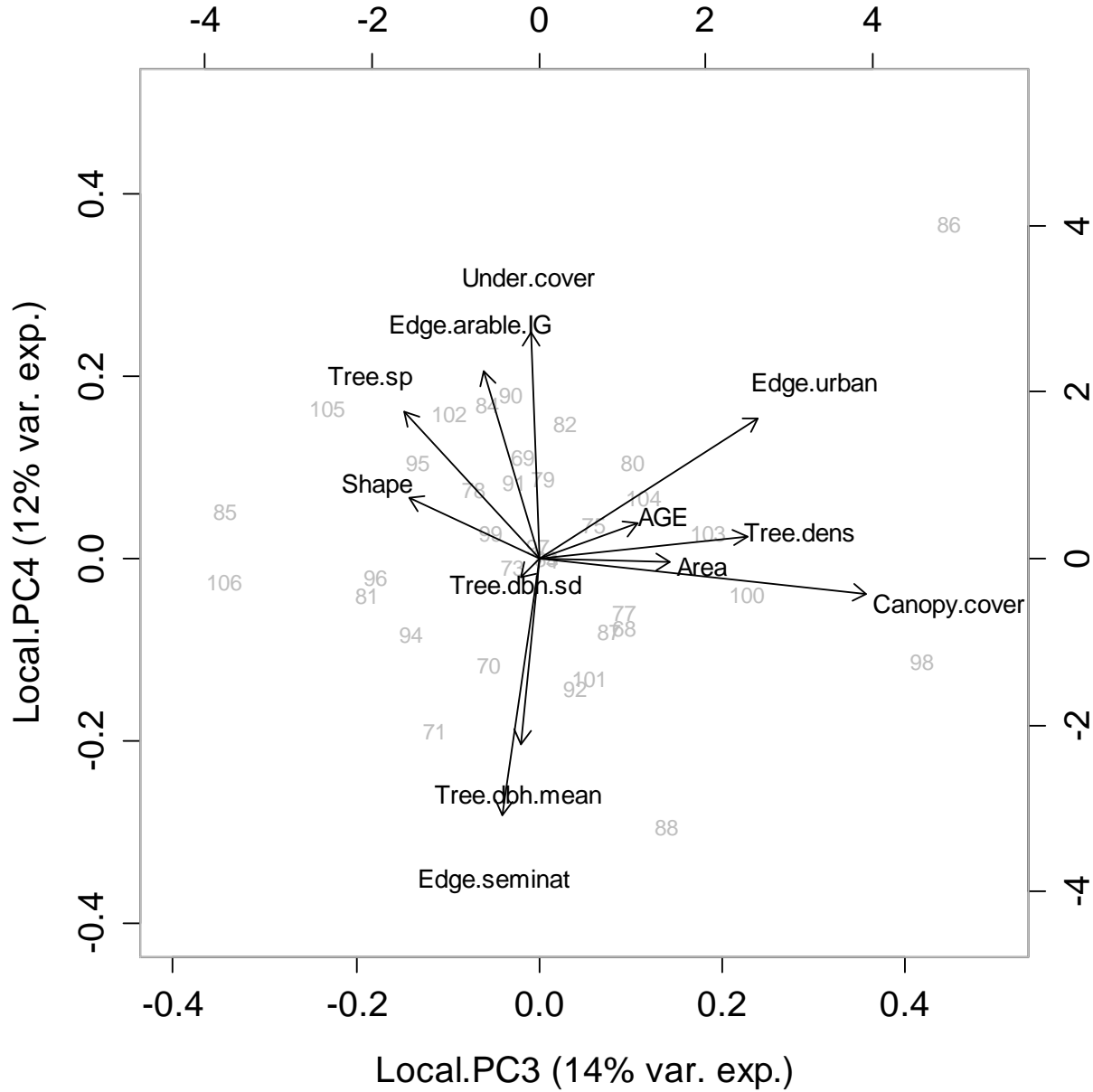
c) *P. pipistrellus* – Scotland



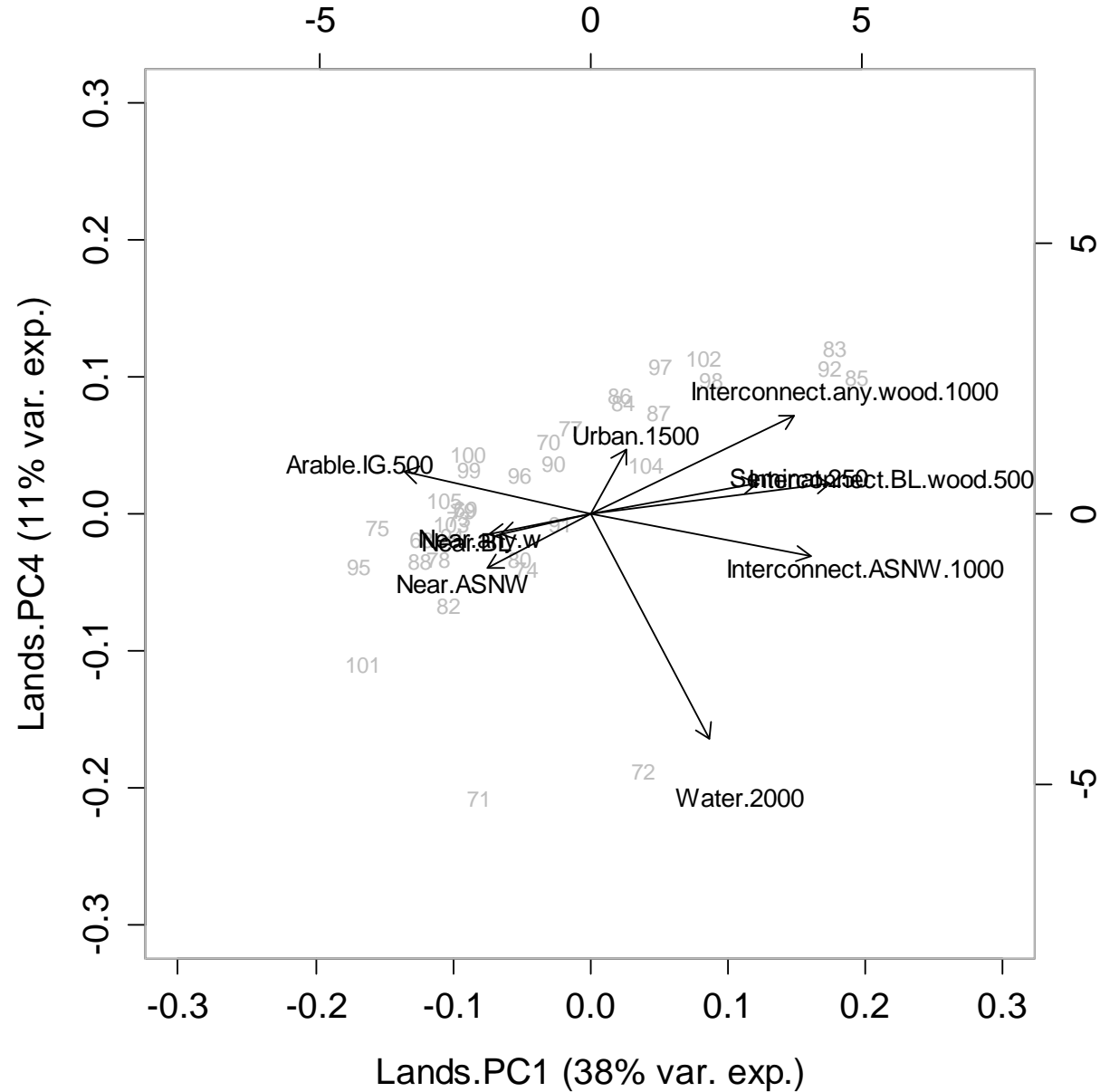
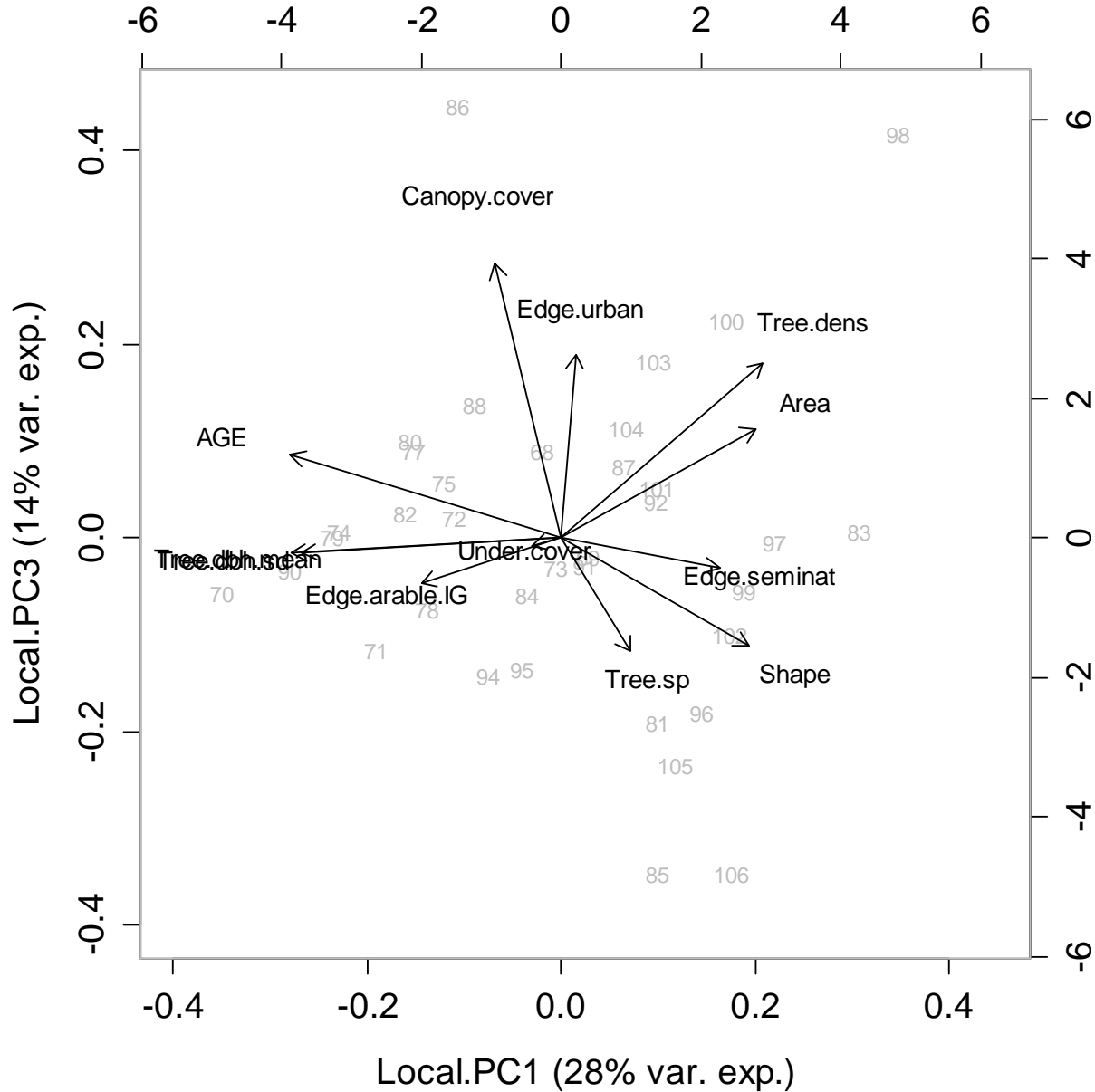
d) *Myotis sp.* – Scotland



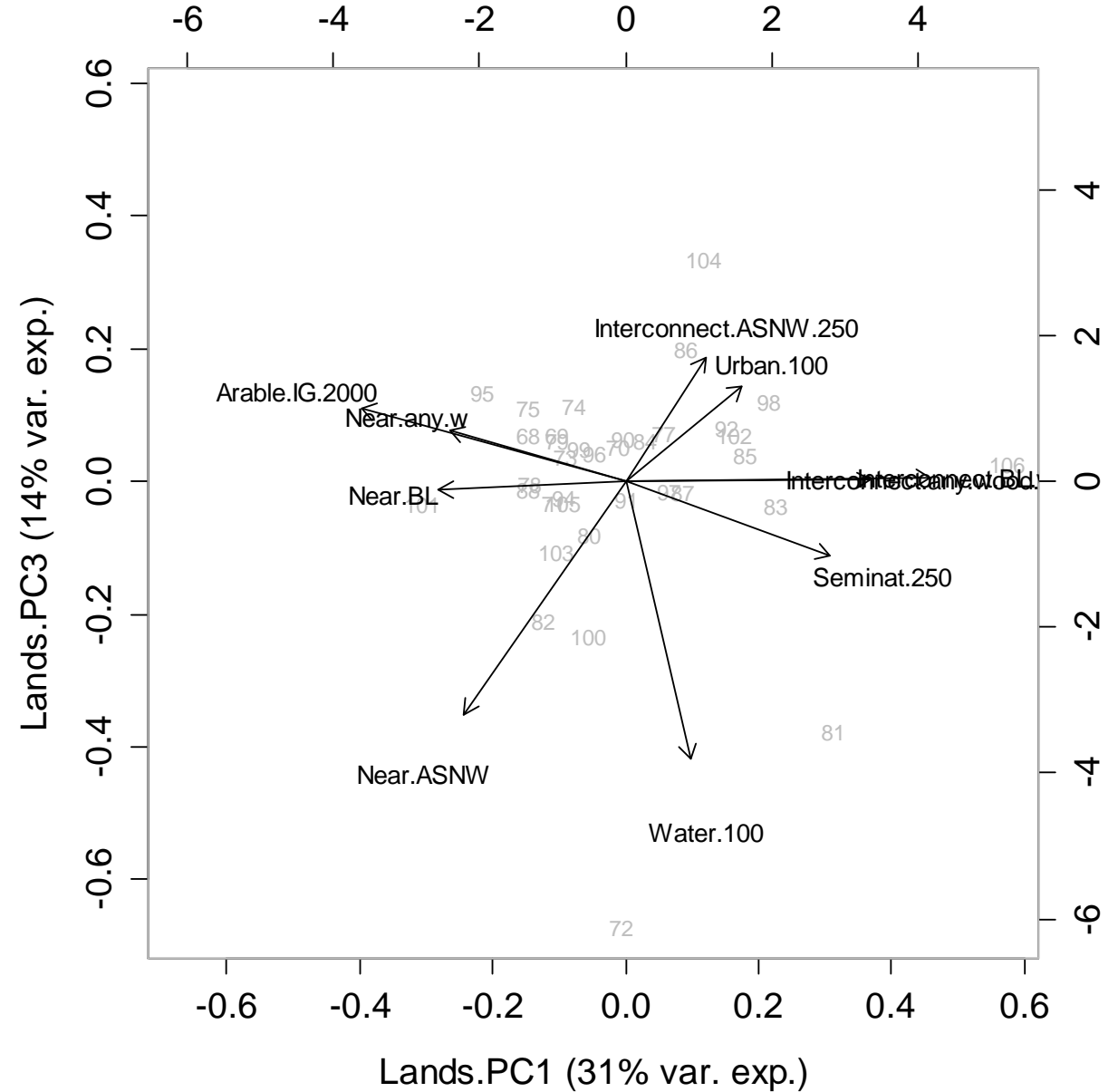
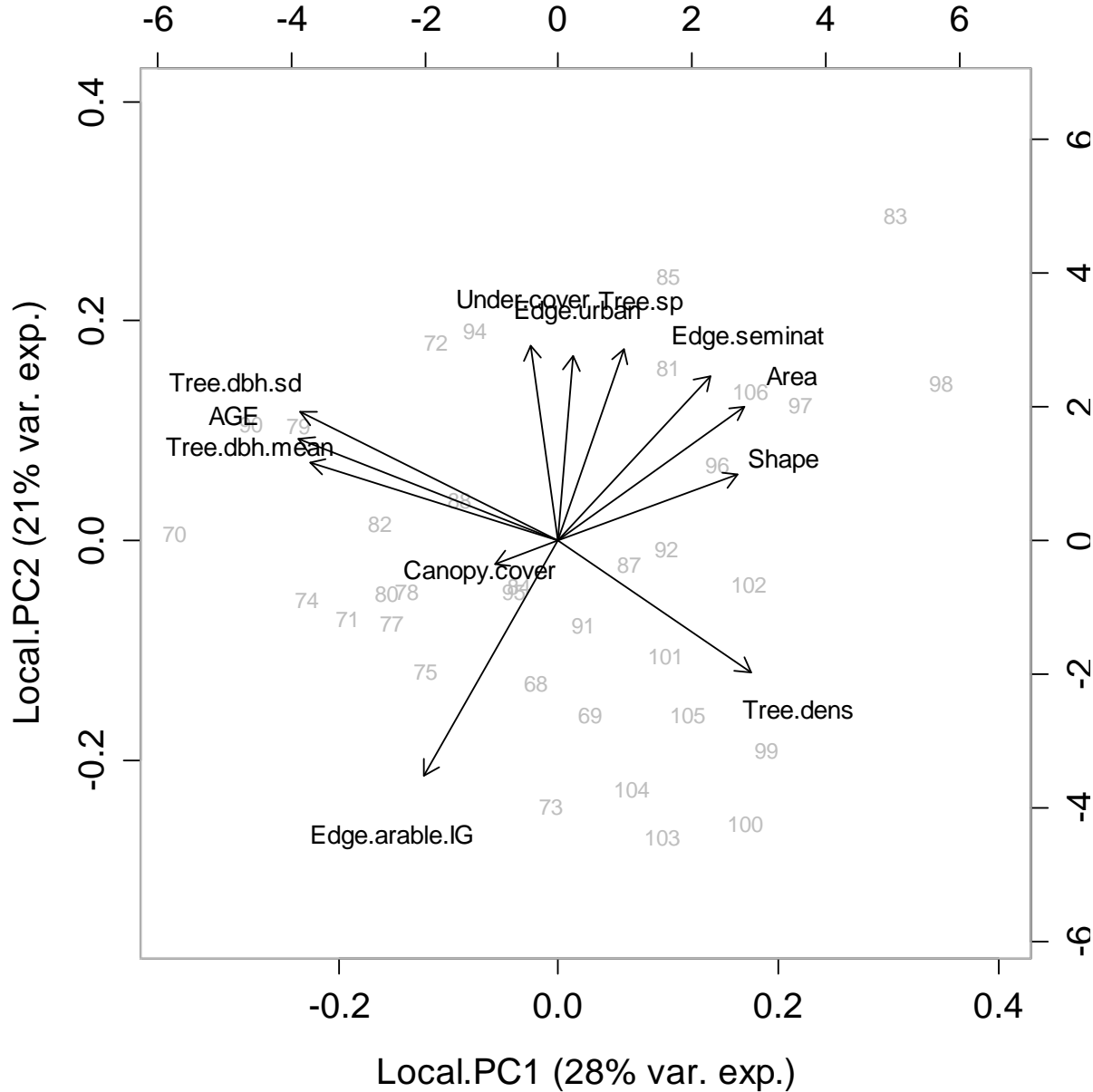
e) *P. auritus* – England



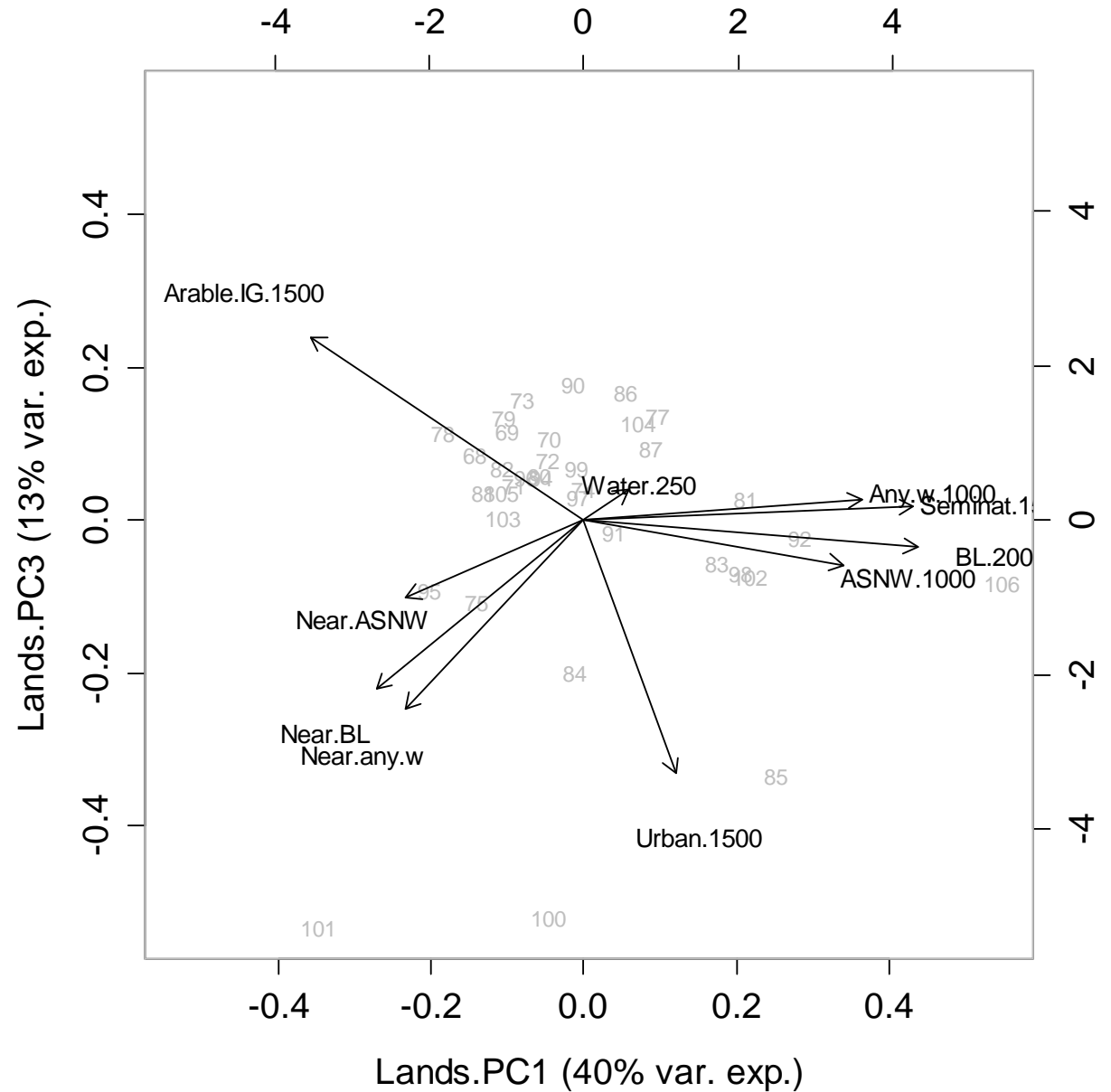
f) *P. pygmaeus* – England



g) *P. pipistrellus* – England



h) *Myotis sp.* – England



i) *Nyctalus sp.* – England

