

**APPENDIX 3** Inter set correlations of environmental variables with axes.

**(a) Great Britain (all squares)**

<b>Environmental variable</b>	<b>Axis 1</b>	<b>Axis 2</b>
easting	-0.3919	-0.3537
northing	<b>0.5348</b>	0.1789
altitude	0.4732	<b>0.5142</b>
mean sunshine hours	-0.4855	-0.3341
mean January temperature	-0.0965	-0.1691
snow days	0.47	0.2588
mean annual temperature	-0.4751	-0.1546
broadleaved, mixed and yew woodland	-0.2819	0.3682
conifer woodland	0.0463	<b>0.6843</b>
linear features	-0.3463	-0.0437
arable	-0.2521	-0.4292
improved grassland	-0.3068	-0.1051
neutral grassland	-0.1089	-0.0942
calcareous grassland	0.0134	-0.0029
acid grassland	0.4367	0.0627
bracken	0.1737	0.1901
shrub heath	<b>0.5514</b>	0.1603
fen, marsh & swamp	0.3761	-0.005
bog	<b>0.6672</b>	0.0776
open water	0.076	0.058
rivers and streams	-0.0598	-0.0041
montane habitats	0.1626	0.0133
inland rock	0.1179	-0.0521
human sites	-0.3036	-0.0954
supralittoral rock	0.1364	-0.1091
supralittoral sediment	0.0306	-0.091
littoral rock	0.0838	-0.0148
littoral sediment	0.1172	-0.2699
sea	0.1726	-0.2279
bank/grassy strip	0.0046	-0.1095
fences	-0.1406	-0.0328
hedges	-0.3913	-0.1378
line of trees, shrubs and relict hedge	-0.2792	-0.0241
line of trees, shrubs and relict hedge and fence	-0.2382	-0.0021
remnant hedge	-0.1779	-0.0636
walls	0.1001	0.0714
shannon diversity index	0.0778	-0.0855

**APPENDIX 3** Continued.

**(b) England**

<b>Environmental variable</b>	<b>Axis 1</b>	<b>Axis 2</b>
easting	-0.1988	-0.0551
northing	0.3774	-0.2596
altitude	0.1576	-0.0802
mean sunshine hours	-0.2987	0.2852
mean January temperature	-0.0023	0.2492
snow days	0.2089	-0.1923
mean annual temperature	-0.2978	0.2271
broadleaved, mixed and yew woodland	-0.1391	-0.2457
conifer woodland	0.1276	-0.2076
linear features	-0.1434	-0.1271
arable	-0.072	0.0816
improved grassland	0.049	0.0171
neutral grassland	0.0343	-0.1913
calcareous grassland	-0.0475	0.0244
acid grassland	0.1583	-0.0032
bracken	0.0954	-0.0669
shrub heath	0.1001	0.0235
fen, marsh & swamp	0.2569	-0.1083
bog	-0.0334	-0.0475
open water	-0.0303	-0.057
rivers and streams	0.0749	0.0415
montane habitats	-0.0136	0.0102
inland rock	-0.0217	-0.0836
human sites	-0.2205	0.0136
supralittoral rock	0.0928	0.1817
supralittoral sediment	-0.0188	0.076
littoral sediment	0.0408	0.2062
sea	0.0588	0.2894
bank/grassy strip	0.0939	0.1078
fences	0.0603	-0.1216
hedges	-0.1257	0.0001
line of trees, shrubs and relict hedge	-0.0699	-0.0394
line of trees, shrubs and relict hedge and fence	-0.1732	-0.1371
remnant hedge	-0.0745	-0.1444
walls	0.1931	-0.0804
shannon diversity index	0.1139	0.1444

**APPENDIX 3** Continued.  
**(c) Scotland**

<b>Environmental variable</b>	<b>Axis 1</b>	<b>Axis 2</b>
easting	-0.068	0.0601
northing	0.4893	0.0756
altitude	-0.1622	0.0613
mean sunshine hours	-0.2002	0.2075
mean January temperature	0.1198	-0.0829
snow days	0.292	-0.0044
mean annual temperature	-0.4614	-0.0823
broadleaved, mixed and yew woodland	-0.1438	0.0059
conifer woodland	-0.1395	-0.096
linear features	0.0221	-0.0562
arable	0.0958	0.0875
improved grassland	-0.1508	-0.0481
neutral grassland	-0.0926	0.034
calcareous grassland	0.1683	-0.0788
acid grassland	-0.0078	0.016
bracken	0.074	-0.1221
shrub heath	-0.0143	0.1995
fen, marsh & swamp	-0.033	-0.0657
bog	0.098	-0.0391
open water	0.0879	0.029
rivers and streams	0.0225	0.0936
montane habitats	0.1139	0.1413
inland rock	0.0149	0.2078
human sites	0.1208	0.1141
supralittoral rock	0.1639	-0.1975
supralittoral sediment	0.1111	0.0807
littoral rock	0.1036	0.0261
littoral sediment	-0.0878	-0.2605
sea	0.2512	-0.0753
bank/grassy strip	0.1426	0.139
fences	0.0965	-0.1529
hedges	-0.0902	0.1335
line of trees, shrubs and relict hedge	-0.1486	0.0632
line of trees, shrubs and relict hedge and fence	-0.2247	0.0488
remnant hedge	0.0377	-0.0455
walls	-0.1918	-0.0744
shannon diversity index	-0.0465	0.0093

APPENDIX 3 Continued.

(d) Wales

<b>Environmental variable</b>	<b>Axis 1</b>	<b>Axis 2</b>
easting	-0.4136	0.0478
northing	0.1292	-0.1567
altitude	-0.0325	<b>0.8076</b>
mean sunshine hours	0.0622	-0.5644
mean January temperature	0.3905	-0.3369
snow days	-0.2437	0.4839
mean annual temperature	0.0047	-0.0975
broadleaved, mixed and yew woodland	-0.2875	0.4058
conifer woodland	-0.2646	0.3296
linear features	-0.3678	-0.3373
arable	0.2906	-0.4132
improved grassland	-0.3248	-0.3394
neutral grassland	-0.052	-0.4092
calcareous grassland	0.2018	-0.1383
acid grassland	0.2773	0.3622
bracken	-0.002	0.2695
shrub heath	0.4108	0.2318
fen, marsh & swamp	0.3641	-0.0284
bog	0.4869	0.1933
open water	-0.1681	0.1867
rivers and streams	0.0741	-0.3726
montane habitats	0.291	0.203
inland rock	0.1024	0.042
human sites	-0.2295	-0.4297
supralittoral rock	0.2846	-0.2015
supralittoral sediment	0.2213	-0.1641
littoral sediment	0.3482	-0.2888
sea	0.3661	-0.372
bank/grassy strip	0.0859	-0.0869
fences	-0.0543	-0.0764
hedges	-0.3981	-0.2463
line of trees, shrubs and relict hedge	-0.1351	-0.142
line of trees, shrubs and relict hedge and fence	-0.1118	-0.1365
remnant hedge	-0.2704	-0.0157
walls	0.0583	-0.0874
shannon diversity index	-0.0665	0.1233

APPENDIX 3 Continued.

(e) Environmental Zone One

Environmental variable	Axis 1	Axis 2
easting	0.2548	-0.3073
northing	0.4286	0.3777
altitude	-0.3552	0.3279
mean sunshine hours	-0.167	-0.371
mean January temperature	-0.2079	-0.0116
snow days	0.2621	0.4122
mean annual temperature	-0.4462	-0.346
broadleaved, mixed and yew woodland	<b>-0.6177</b>	<b>0.5074</b>
conifer woodland	-0.2531	0.499
linear features	-0.2781	-0.0821
arable	0.4471	-0.4662
improved grassland	-0.1608	0.2087
neutral grassland	0.0354	0.0547
calcareous grassland	-0.1308	-0.154
acid grassland	-0.1614	-0.0215
bracken	0.006	0.0878
shrub heath	-0.1219	0.2314
fen, marsh & swamp	0.2018	0.465
bog	-0.1028	-0.0559
open water	0.0172	-0.0052
rivers and streams	0.0425	0.1114
inland rock	0.1838	0.0688
human sites	-0.433	-0.2454
supralittoral sediment	<b>0.5182</b>	0.2926
littoral sediment	<b>0.5182</b>	0.2926
sea	<b>0.5182</b>	0.2926
bank/grassy strip	0.1128	-0.0218
fences	-0.2982	0.2466
hedges	-0.1043	-0.3902
line of trees, shrubs and relict hedge	-0.1199	-0.0143
line of trees, shrubs and relict hedge and fence	-0.2939	-0.0794
remnant hedge	0.0184	-0.3274
walls	0.0661	<b>0.6115</b>
shannon diversity index	0.3083	-0.2263

**APPENDIX 3** Continued.  
**(f) Environmental Zone Two**

<b>Environmental variable</b>	<b>Axis 1</b>	<b>Axis 2</b>
easting	-0.189	0.2157
northing	0.0543	-0.0109
altitude	-0.1589	-0.4028
mean sunshine hours	0.0353	0.0767
mean January temperature	0.2695	-0.0355
snow days	-0.1166	-0.0032
mean annual temperature	-0.038	0.0735
broadleaved, mixed and yew woodland	-0.3604	-0.3689
conifer woodland	-0.1614	-0.43
linear features	-0.1806	0.0194
arable	0.0955	-0.0967
improved grassland	-0.0916	-0.0072
neutral grassland	-0.0365	0.0787
calcareous grassland	-0.0645	-0.0236
acid grassland	0.1597	-0.1671
bracken	0.0549	-0.2524
shrub heath	0.1741	-0.0796
fen, marsh & swamp	0.3044	-0.1774
bog	0.2913	-0.119
open water	-0.0975	0.009
rivers and streams	0.0491	0.0673
inland rock	0.144	-0.0317
human sites	-0.3283	<b>0.6488</b>
supralittoral rock	0.2284	0.0146
supralittoral sediment	0.1693	0.0245
littoral sediment	<b>0.5408</b>	0.2081
sea	0.3929	0.1272
bank/grassy strip	0.1886	-0.2042
fences	-0.0024	-0.1752
hedges	-0.2903	-0.062
line of trees, shrubs and relict hedge	-0.1195	-0.0583
line of trees, shrubs and relict hedge and fence	-0.0357	-0.2045
remnant hedge	-0.0631	-0.2201
walls	0.1199	-0.0038
shannon diversity index	0.0922	0.0018

APPENDIX 3 Continued.

(g) Environmental Zone Three

<b>Environmental variable</b>	<b>Axis 1</b>	<b>Axis 2</b>
easting	0.0092	<b>0.6467</b>
northing	0.0152	<b>0.6524</b>
altitude	0.625	-0.3569
mean sunshine hours	-0.0121	-0.4907
mean January temperature	0.0567	<b>-0.6025</b>
snow days	0.0142	0.4322
mean annual temperature	0.0407	<b>-0.5907</b>
broadleaved, mixed and yew woodland	-0.3877	-0.1939
conifer woodland	-0.2173	-0.2208
linear features	<b>-0.5757</b>	0.2452
arable	-0.2507	0.2679
improved grassland	<b>-0.504</b>	0.2513
neutral grassland	-0.289	0.2684
calcareous grassland	0.1717	0.1976
acid grassland	<b>0.5278</b>	0.1156
bracken	0.0718	-0.2519
shrub heath	<b>0.6747</b>	-0.0362
fen, marsh & swamp	0.3506	0.0736
bog	0.4615	-0.0315
open water	-0.1838	-0.1725
rivers and streams	-0.1301	0.2525
montane habitats	0.2065	-0.1202
inland rock	0.114	-0.1183
human sites	-0.3616	0.0905
supralittoral rock	-0.1867	-0.1662
supralittoral sediment	-0.0358	0.2091
bank/grassy strip	-0.1692	-0.171
fences	-0.4923	0.1926
hedges	-0.4088	-0.065
line of trees, shrubs and relict hedge	-0.3078	0.1278
line of trees, shrubs and relict hedge and fence	-0.3539	0.0057
remnant hedge	-0.3678	-0.0262
walls	-0.0458	0.4212
shannon diversity index	0.2385	0.0241

APPENDIX 3 Continued.

(h) Environmental Zone Four

Environmental variable	Axis 1	Axis 2
easting	-0.4368	0.2249
northing	0.1531	0.3794
altitude	-0.0294	-0.411
mean sunshine hours	-0.0458	0.0764
mean January temperature	0.4486	-0.0363
snow days	-0.1812	0.0844
mean annual temperature	0.1792	-0.1438
broadleaved, mixed and yew woodland	-0.3394	-0.2628
conifer woodland	-0.1852	-0.4948
linear features	-0.346	0.1764
arable	-0.1811	<b>0.7025</b>
improved grassland	-0.1764	-0.0335
neutral grassland	0.3166	0.0343
acid grassland	0.2852	-0.3067
bracken	0.0274	-0.385
shrub heath	0.2131	-0.3301
fen, marsh & swamp	<b>0.7794</b>	-0.2228
bog	0.4493	-0.151
open water	0.1226	0.0031
rivers and streams	-0.1954	-0.173
inland rock	0.1362	0.1643
human sites	-0.2757	-0.0916
supralittoral rock	0.2044	0.0346
supralittoral sediment	0.0791	0.2183
sea	0.2206	0.0345
bank/grassy strip	<b>0.7672</b>	0.0361
fences	-0.2292	0.2968
hedges	-0.3466	0.1002
line of trees, shrubs and relict hedge	-0.2456	0.0293
line of trees, shrubs and relict hedge and fence	-0.2124	0.067
remnant hedge	-0.1089	-0.0536
walls	-0.1879	-0.258
shannon diversity index	-0.0326	0.2731

**APPENDIX 3** Continued.  
**(i) Environmental Zone Five**

<b>Environmental variable</b>	<b>Axis 1</b>	<b>Axis 2</b>
easting	0.1999	<b>-0.5694</b>
northing	<b>0.5954</b>	0.0352
altitude	-0.3573	0.126
mean sunshine hours	-0.1528	-0.0567
mean January temperature	0.25	0.4497
snow days	0.3609	-0.2634
mean annual temperature	<b>-0.594</b>	0.1445
broadleaved, mixed and yew woodland	-0.488	-0.0462
conifer woodland	<b>-0.732</b>	0.1426
linear features	-0.212	-0.4376
arable	-0.0246	-0.3717
improved grassland	-0.1585	<b>-0.5249</b>
neutral grassland	0.0015	-0.1826
calcareous grassland	0.0479	0.0391
acid grassland	0.3411	-0.0935
bracken	-0.0631	0.1314
shrub heath	0.1744	0.3413
fen, marsh & swamp	0.2409	0.0451
bog	<b>0.5814</b>	0.4921
open water	0.2442	0.4708
rivers and streams	-0.2685	0.0378
montane habitats	-0.0285	0.1063
inland rock	0.0221	0.0009
human sites	-0.1998	-0.4891
supralittoral rock	0.2412	-0.1365
supralittoral sediment	0.164	-0.2847
littoral rock	0.0692	0.1011
littoral sediment	-0.1573	0.0006
sea	0.2733	-0.2052
bank/grassy strip	0.251	-0.0245
fences	0.0111	<b>-0.6154</b>
hedges	-0.1247	-0.2293
line of trees, shrubs and relict hedge	-0.3014	-0.2369
line of trees, shrubs and relict hedge and fence	-0.2073	-0.3206
remnant hedge	-0.0942	-0.4003
walls	-0.0528	-0.1849
shannon diversity index	0.0133	0.2148

APPENDIX 3 Continued.  
(j) Environmental Zone Six

Environmental variable	Axis 1	Axis 2
easting	-0.0804	-0.0075
northing	0.2597	0.0347
altitude	0.4525	-0.1754
mean sunshine hours	-0.1243	-0.1072
mean January temperature	0.0785	-0.0769
snow days	0.1469	0.0613
mean annual temperature	-0.2783	-0.0264
broadleaved, mixed and yew woodland	-0.3373	0.0169
conifer woodland	<b>-0.6836</b>	0.0402
linear features	-0.3927	0.0057
arable	-0.0168	-0.0263
improved grassland	0.0725	-0.0507
neutral grassland	-0.2885	0.0129
calcareous grassland	0.1426	0.0464
acid grassland	0.3065	0.0101
bracken	-0.1182	0.0166
shrub heath	0.4401	-0.0419
fen, marsh & swamp	-0.0374	-0.0222
bog	0.4681	-0.1167
open water	0.1566	-0.0799
rivers and streams	-0.0711	-0.0166
montane habitats	0.2347	<b>0.8397</b>
inland rock	0.2356	0.3768
human sites	-0.1345	0.2153
supralittoral rock	0.1159	-0.1021
supralittoral sediment	0.1251	<b>0.9447</b>
bank/grassy strip	0.2016	-0.0505
fences	-0.1051	-0.0465
line of trees, shrubs and relict hedge	-0.0436	0.0404
line of trees, shrubs and relict hedge and fence	-0.0092	-0.0231
remnant hedge	-0.0942	-0.4003
walls	-0.3256	0.0253
shannon diversity index	0.1378	-0.0053

APPENDIX 3 Continued.

(k) Farmland indicator species – excluding environmental invariants

<b>Environmental variable</b>	<b>Axis 1</b>	<b>Axis 2</b>
broadleaved, mixed and yew woodland	-0.3394	-0.0722
conifer woodland	-0.0817	-0.0268
linear features	-0.316	-0.0792
arable	0.1863	<b>-0.6004</b>
improved grassland	-0.3559	0.1516
neutral grassland	-0.069	0.0511
calcareous grassland	-0.0393	-0.0026
acid grassland	0.2995	0.2856
bracken	0.0992	0.0152
shrub heath	0.3042	0.1305
fen, marsh & swamp	0.2901	0.3351
bog	0.4375	0.3061
montane habitats	0.066	0.0229
human sites	-0.4631	0.3366
bank/grassy strip	0.1369	0.0601
fences	-0.1727	0.0911
hedges	-0.3099	-0.262
line of trees, shrubs and relict hedge	-0.2887	-0.0624
line of trees, shrubs and relict hedge and fence	-0.3099	0.0592
remnant hedge	-0.0753	-0.1695
walls	-0.0242	0.1293
shannon diversity index	0.1373	<b>-0.5623</b>

APPENDIX 3 Continued.

(I) Woodland indicator species – excluding environmental invariants

<b>Environmental variable</b>	<b>Axis 1</b>	<b>Axis 2</b>
broadleaved, mixed and yew woodland	-0.0065	<b>-0.8362</b>
conifer woodland	<b>0.7561</b>	-0.1713
linear features	-0.2964	-0.0302
arable	-0.475	0.2836
improved grassland	-0.3408	0.1628
neutral grassland	-0.1616	0.0684
calcareous grassland	-0.0544	-0.0207
acid grassland	0.3007	0.1048
bracken	0.2525	-0.1625
shrub heath	0.4742	0.2671
fen, marsh & swamp	0.3743	0.2235
bog	0.5	0.2001
montane habitats	0.0275	0.0438
human sites	-0.4202	-0.1576
bank/grassy strip	-0.1217	0.0117
fences	-0.1042	0.055
hedges	<b>-0.5084</b>	0.1317
line of trees, shrubs and relict hedge	-0.2642	-0.0325
line of trees, shrubs and relict hedge and fence	-0.2352	-0.0271
remnant hedge	-0.1626	-0.0167
walls	0.2092	0.158
shannon diversity index	-0.0108	0.0383

[Note: In this online version of the report, pages 91 to 112 are contained in the separate PDF files for appendices 4 to 15. Some pages cannot be reproduced with page numbers.]

