

Supplementary Matrices

Matrices of small mammal per capita switching rates from one block (columns) to another (rows), predicted abundances calculated from the matrix, and a normalized vector of the observed abundances on each block. See Fig. 1 for block assignments (L, large; M, medium; S, small) and Table 6 for results.

<u>Matrix</u>									<u>Abundances</u>	
Prairie voles, fall									Predicted	Observed
	S1	L1	L2	S2	M1	M2	L3	S3		
S1	.740	.047	.035	0	0	.008	0	0	.177	.182
L1	.148	.888	.026	.022	.022	.016	0	0	.207	.150
L2	.094	.006	.913	.100	.022	.034	0	.011	.263	.170
S2	0	.012	.017	.722	.011	.008	.006	0	.037	.129
M1	.010	.018	0	.056	.800	0	.006	0	.147	.113
M2	.010	.006	.009	.022	.015	.902	.031	.011	.065	.083
L3	0	.018	0	.067	.030	.033	.937	.056	.032	.071
S3	0	0	0	.011	0	0	.019	.921	.072	.103

Matrix									Abundances	
Prairie voles, winter									Predicted	Observed
	S1	L1	L2	S2	M1	M2	L3	S3		
S1	.788	.035	0	.018	.008	.016	0	0	.230	.211
L1	.154	.930	.012	.035	.015	.016	.010	0	.268	.179
L2	.038	.013	.964	.035	.008	.016	.010	0	.211	.185
S2	0	.004	0	.825	.031	0	.010	.012	.084	.126
M1	.019	.009	.012	.056	.865	.023	.005	.012	.054	.116
M2	0	0	.006	.018	.015	.915	.005	0	.048	.052
L3	0	.009	.006	.018	.031	.016	.943	.062	.037	.047
S3	0	0	0	0	.031	0	.016	.914	.070	.084

Prairie voles, spring										
	S1	L1	L2	S2	M1	M2	L3	S3		
S1	.750	.022	.005	0	0	.008	0	0	.188	.228
L1	.150	.927	.011	.016	.023	.008	.0174	0	.209	.201
L2	.05	.017	.926	.081	0	.025	.013	0	.180	.202
S2	.025	.009	.021	.726	.092	.025	.013	.012	.131	.105
M1	0	.009	.005	.129	.840	0	.009	.048	.070	.112
M2	.025	.004	.016	0	.008	.875	.017	0	.023	.033
L3	0	.013	.016	.016	.031	.050	.896	.036	.088	.043
S3	0	0	0	.032	.008	.008	.035	.905	.112	.078

									Abundances	
Prairie voles, summer									Predicted	Observed
	S1	L1	L2	S2	M1	M2	L3	S3		
S1	.819	.033	.025	.027	0	0	.006	0	.224	.176
L1	.069	.920	.127	.014	.025	0	0	.012	.120	.171
L2	.056	.013	.899	.068	0	.012	.006	0	.192	.179
S2	.012	.007	.038	.743	.075	0	.012	.011	.140	.010
M1	.012	.007	.006	.081	.863	.012	.012	.011	.115	.101
M2	0	.007	.013	.014	.025	.927	.019	.011	.067	.084
L3	.028	.013	.006	.054	.025	.037	.926	.043	.099	.069
S3	0	0	0	0	0	.012	.019	.914	.043	.120

Deer mice, fall										
	S1	L1	L2	S2	M1	M2	L3	S3		
S1	.700	.114	0	0	0	.020	.011	.017	.301	.237
L1	.200	.841	.053	.273	.069	0	0	0	.063	.055
L2	.050	0	.684	.045	.034	.040	.011	.017	.088	.239
S2	0	.011	.105	.591	.103	.020	.032	0	.051	.068
M1	0	.023	0	.045	.724	0	.021	.017	.126	.128
M2	.025	0	.158	0	.034	.840	.021	.017	.137	.096
L3	.025	0	0	.045	0	.040	.842	.017	.050	.045
S3	0	.011	0	0	.034	.040	.063	.915	.184	.131

									Abundances	
Deer mice, winter									Predicted	Observed
	S1	L1	L2	S2	M1	M2	L3	S3		
S1	.676	.108	.080	0	0	0	0	0	.068	.289
L1	.206	.846	0	.040	0	0	.011	0	.066	.064
L2	.029	0	.720	0	.080	.060	.023	0	.364	.211
S2	.088	.031	.040	.720	.120	.020	0	0	.054	.055
M1	0	.015	0	.200	.680	0	.023	0	.065	.119
M2	0	0	.080	.040	.040	.840	.011	0	.033	.115
L3	0	0	.080	0	.040	.080	.909	.111	.048	.044
S3	0	0	0	0	.040	0	.023	.999	.304	.103

Deer mice, spring										
	S1	L1	L2	S2	M1	M2	L3	S3		
S1	.849	.153	.036	.046	.019	0	.011	.024	.117	.222
L1	.094	.736	.055	.023	.038	0	0	0	.099	.074
L2	.019	.042	.655	.114	.038	.069	0	0	.166	.207
S2	0	.028	.073	.614	.115	.034	.022	0	.114	.080
M1	0	.028	.055	.159	.750	0	.022	.049	.166	.129
M2	.019	0	.127	.045	.019	.810	.055	0	.202	.105
L3	.019	.014	0	0	.019	.086	.846	.073	.085	.069
S3	0	0	0	0	0	0	.044	.854	.050	.115

									<u>Abundances</u>	
Deer mice, summer									Predicted	Observed
	S1	L1	L2	S2	M1	M2	L3	S3		
S1	.789	.083	.053	0	0	0	0	0	[.143]	[.148]
L1	.158	.833	.053	0	0	.021	.017	0	.074	.073
L2	.053	0	.789	.222	.043	.021	0	0	.309	.240
S2	0	.042	0	.444	.130	0	0	0	.067	.078
M1	0	0	.053	.111	.696	.021	.034	0	.136	.177
M2	0	0	.053	.111	.043	.851	.034	0	.075	.085
L3	0	.042	0	.111	.043	.085	.846	.143	.026	.046
S3	0	0	0	0	.043	0	.069	.857	.170	.152