Table. Summary of MNP and MNL Posterior Densities from the UK Spatial Model

Parameter	Party	MNP Posterior Mean	MNP 95% BCI Lower	MNP 95% BCI Upper	MNL Posterior Mean	MNL 95% BCI Lower	MNL 95% BCI Upper
Spatial Distance		-0.136	-0.178	-0.096	-0.274	-0.352	-0.200
Constant	Con	0.054	-0.079	0.191	0.015	-0.221	0.244
Constant	Lib	-0.146	-0.719	0.038	-1.562	-1.905	-1.236
Variance-Covariance Estimates							
$\sigma^2_{Con-Lab,Con-Lab}$		1.000	1.000	1.000			
$\sigma_{Con-Lab,Lib-Lab}$		0.654	0.529	0.920		n.a.	
$\sigma^2_{Lib-Lab,Lib-Lab}$		0.512	0.294	1.325			
Correctly Predicted	Conservative	0.578	0.530	0.620	0.578	0.530	0.622
	Liberals	0.132	0.095	0.168	0.119	0.090	0.152
	Labour	0.430	0.378	0.479	0.439	0.391	0.487
	Model	0.485	0.464	0.502	0.474	0.455	0.491
Gibbs Iterations		50000			50000		
ln(Marginal Likelihood)		-393.468			-384.224		
N		426			426		

Note: The abbreviation 95% BCI represents the Bayesian Credible Interval. This interval summarizes the central 95% of the posterior density.

Table. Summary of MNP and MNL Posterior Densities from the UK Classical (Social-Structural) Model

Parameter	Party	MNP Posterior Mean	MNP 95% BCI Lower	MNP 95% BCI Upper	MNL Posterior Mean	MNL 95% BCI Lower	MNL 95% BCI Upper
1974 Percentage		0.060	-0.152	0.277	0.060	0.060	0.111
Manual Labor	Con	-0.604	-0.898	-0.312	-0.967	-1.452	-0.552
Manual Labor	Lib	-0.307	-0.922	0.296	-0.597	-1.335	0.091
Religion	Con	0.114	-0.002	0.231	0.211	0.019	0.388
Religion	Lib	0.136	-0.084	0.381	0.240	-0.050	0.516
Income	Con	0.083	0.027	0.139	0.140	0.048	0.233
Income	Lib	-0.018	-0.138	0.086	0.014	-0.122	0.146
Town Size	Con	-0.104	-0.280	0.070	-0.171	-0.511	0.099
Town Size	Lib	-0.262	-0.662	0.063	-0.325	-0.829	0.068
Education	Con	-0.016	-0.072	0.040	-0.007	-0.102	0.070
Education	Lib	0.074	-0.022	0.196	0.094	-0.030	0.208
Constant	Con	-0.113	-0.986	0.765	-0.337	-1.326	0.516
Constant	Lib	0.009	-4.279	4.332	0.024	-0.154	0.234
Variance-Covariance Estimates							
$\sigma^2_{Con-Lab,Con-Lab}$		1.000	1.000	1.000			
$\sigma_{Con-Lab,Lib-Lab}$		0.061	-1.037	0.960		n.a.	
$\sigma^2_{Lib-Lab,Lib-Lab}$		2.279	0.843	6.301			
Correctly Predicted	Conservative	0.543	0.498	0.590	0.538	0.497	0.589
	Liberals	0.129	0.094	0.160	0.131	0.097	0.162
	Labour	0.412	0.363	0.458	0.413	0.369	0.457
	Model	0.460	0.443	0.475	0.445	0.429	0.463
Gibbs Iterations		50000			50000		
ln(Marginal Likelihood)		-434.503			-411.976		
N		426			426		

Note: The abbreviation 95% BCI represents the Bayesian Credible Interval. This interval summarizes the central 95% of the posterior density.

Table. Summary of MNP and MNL Posterior Densities from the UK Joint Spatial / Classical Model

		MNP	MNP		MNL	MNL	
		Posterior	95% BCI		Posterior	95% BCI	
Parameter	Party	Mean	Lower	Upper	Mean	Lower	Upper
Spatial Distance		-0.156	-0.200	-0.113	-0.270	-0.351	-0.194
1974 Percentage		0.059	-0.152	0.273	0.073	0.017	0.120
Manual Labor	Con	-0.604	-0.907	-0.305	-1.069	-1.731	-0.537
Manual Labor	Lib	-0.424	-0.974	0.130	-0.628	-1.302	0.184
Religion	Con	0.133	0.012	0.255	0.224	0.045	0.435
Religion	Lib	0.151	-0.054	0.373	0.212	-0.043	0.583
Income	Con	0.061	0.002	0.120	0.104	0.010	0.194
Income	Lib	-0.007	-0.118	0.092	-0.003	-0.130	0.135
Town Size	Con	-0.070	-0.252	0.113	-0.074	-0.409	0.289
Town Size	Lib	-0.231	-0.579	0.076	-0.304	-0.761	0.057
Education	Con	-0.026	-0.085	0.032	-0.048	-0.168	0.055
Education	Lib	0.056	-0.036	0.162	0.073	-0.046	0.232
Constant	Con	-0.105	-0.966	0.759	-0.3236	-1.100	0.568
Constant	Lib	0.021	-4.263	4.357	0.08249	-0.105	0.239
Variance-Covariance Estimates							
$\sigma^2_{Con-Lab,Con-Lab}$		1.000	1.000	1.000			
$\sigma_{Con-Lab,Lib-Lab}$		0.689	-0.107	1.373		n.a.	
$\sigma^2_{Lib-Lab,Lib-Lab}$		2.183	0.982	4.241			
Correctly Predicted	Conservative	0.593	0.544	0.638	0.595	0.551	0.643
	Liberals	0.135	0.101	0.168	0.129	0.104	0.164
	Labour	0.473	0.425	0.520	0.474	0.411	0.517
	Model	0.509	0.490	0.527	0.496	0.478	0.513
Gibbs Iterations		50000			50000		
ln(Marginal Likelihood)		-413.133			-386.508		
N		426			426		

Note: The abbreviation 95% BCI represents the Bayesian Credible Interval. This interval summarizes the central 95% of the posterior density.