

Figure 1: Check plots.

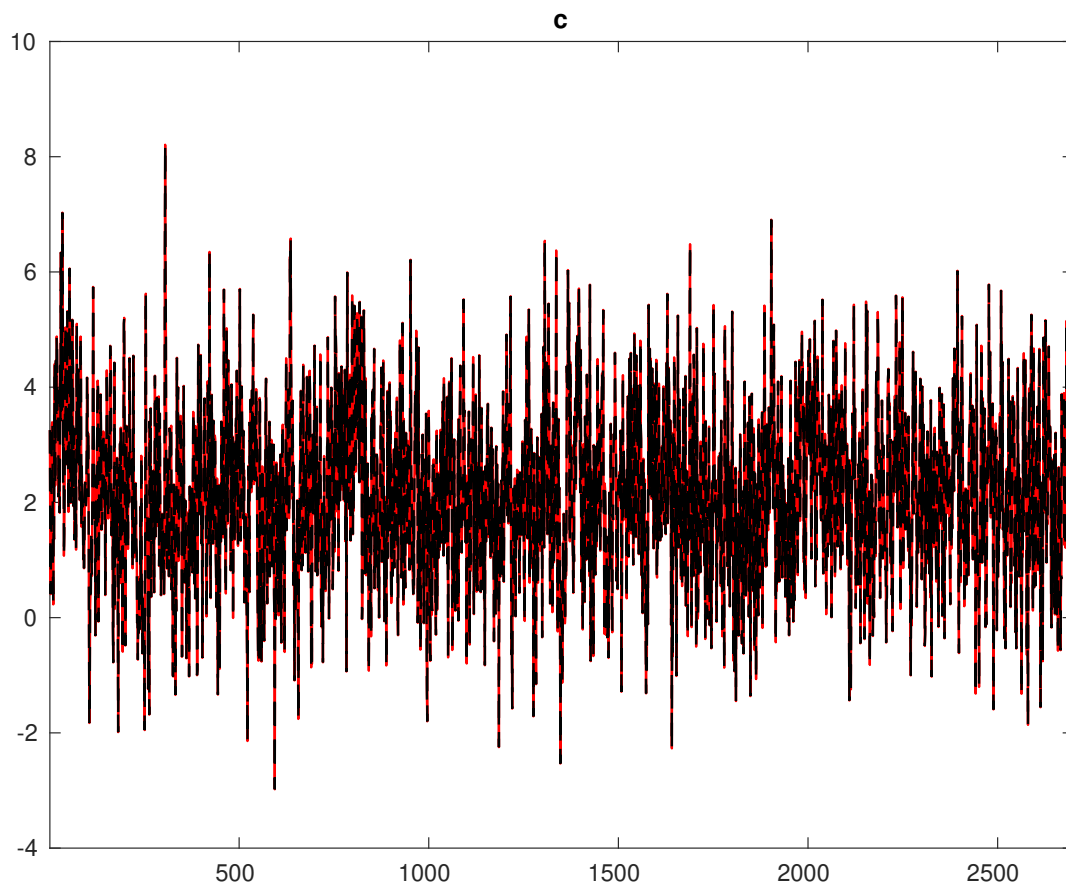


Figure 2: Historical and smoothed variables.

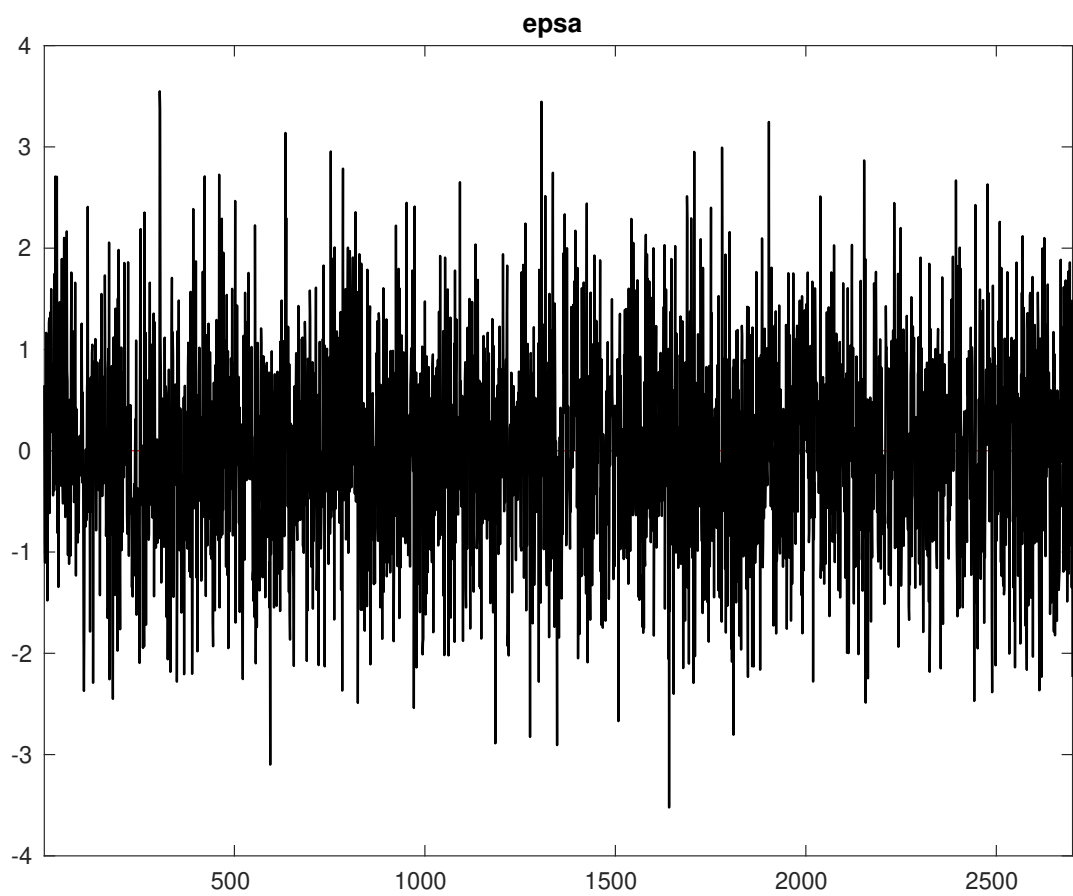


Figure 3: Smoothed shocks.

Table 1: MCMC Inefficiency factors per block

<i>Parameter</i>	<i>Block 1</i>	<i>Block 2</i>	<i>Block 3</i>	<i>Block 4</i>
$\alpha$	209.891	189.909	213.858	214.300
$r_A$	52.478	52.136	47.334	44.709
$\delta$	264.357	235.199	259.297	250.986
$\rho_A$	136.559	170.239	129.301	188.654
$\sigma_A$	259.859	322.748	187.278	275.569
$\theta$	101.085	106.429	97.274	88.153
$\kappa$	284.629	293.320	228.893	320.868

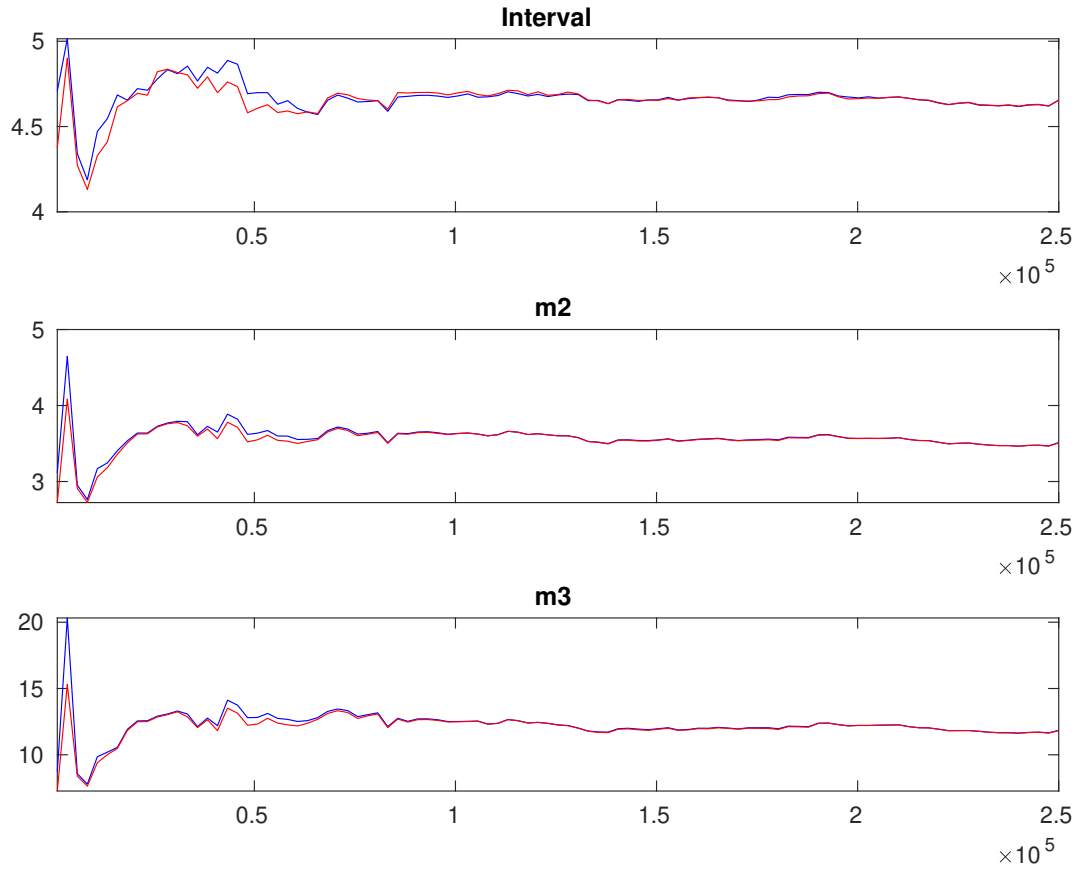


Figure 4: Multivariate convergence diagnostics for the Metropolis-Hastings. The first, second and third rows are respectively the criteria based on the eighty percent interval, the second and third moments. The different parameters are aggregated using the posterior kernel.

Table 2: Results from Metropolis-Hastings (parameters)

		Prior		Posterior			
		Dist.	Mean	Stdev.	Mean	Stdev.	HPD inf HPD sup
$\alpha$	norm		0.300	0.0500	0.306	0.0326	0.2522 0.3598
$r_A$	gamm		2.000	0.2500	2.003	0.2477	1.5858 2.3950
$\delta$	unif		0.500	0.2887	0.024	0.0097	0.0086 0.0395
$\rho_A$	beta		0.500	0.1000	0.503	0.0265	0.4607 0.5463
$\sigma_A$	invg		0.600	4.0000	0.567	0.0463	0.4916 0.6397
$\theta$	gamm		1.500	0.7500	1.568	0.7086	0.4699 2.6035
$\kappa$	gamm		2.000	1.5000	2.306	1.4114	0.0298 4.2564

Table 3: Results from posterior maximization (parameters)

	Dist.	Prior		Posterior	
		Mean	Stdev	Mode	Stdev
$\alpha$	norm	0.300	0.0500	0.2905	0.0338
$r_A$	gamm	2.000	0.2500	1.9709	0.2482
$\delta$	unif	0.500	0.2887	0.0188	0.0089
$\rho_A$	beta	0.500	0.1000	0.5095	0.0249
$\sigma_A$	invlg	0.600	4.0000	0.5716	0.0431
$\theta$	gamm	1.500	0.7500	1.0862	0.5671
$\kappa$	gamm	2.000	1.5000	1.6087	1.0539

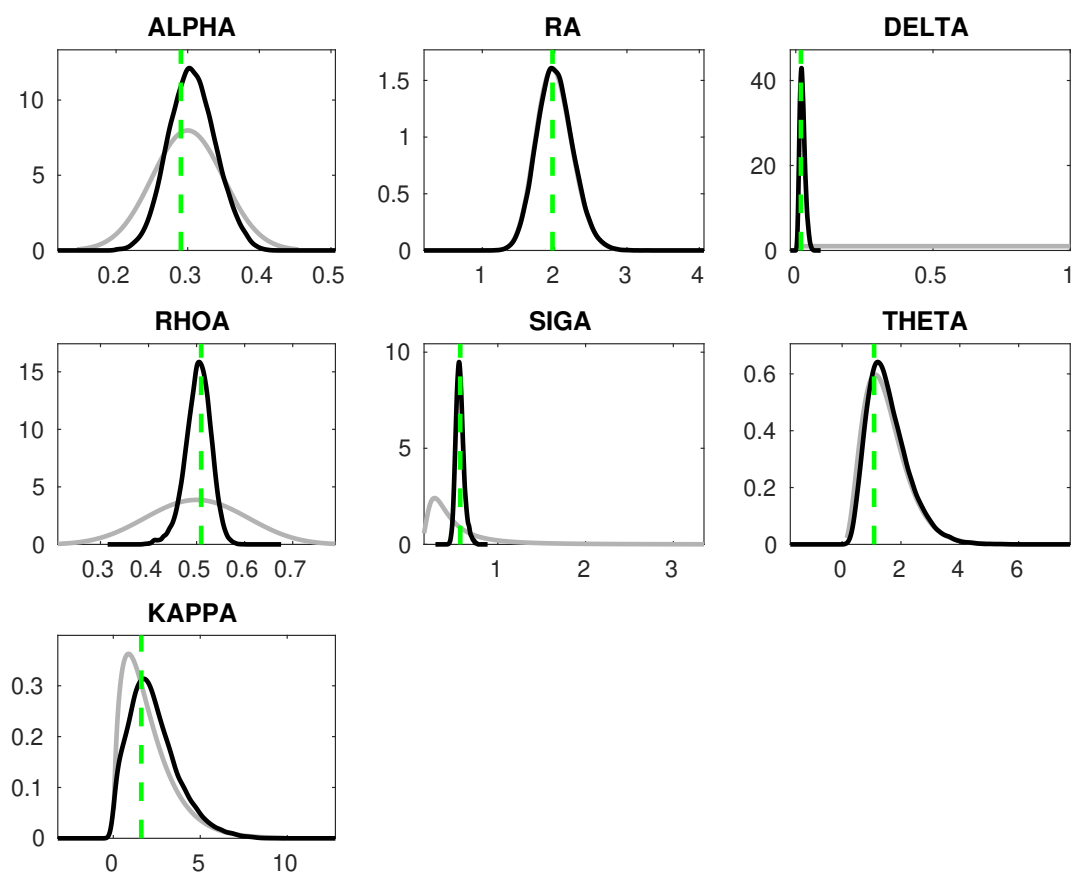


Figure 5: Priors and posteriors.



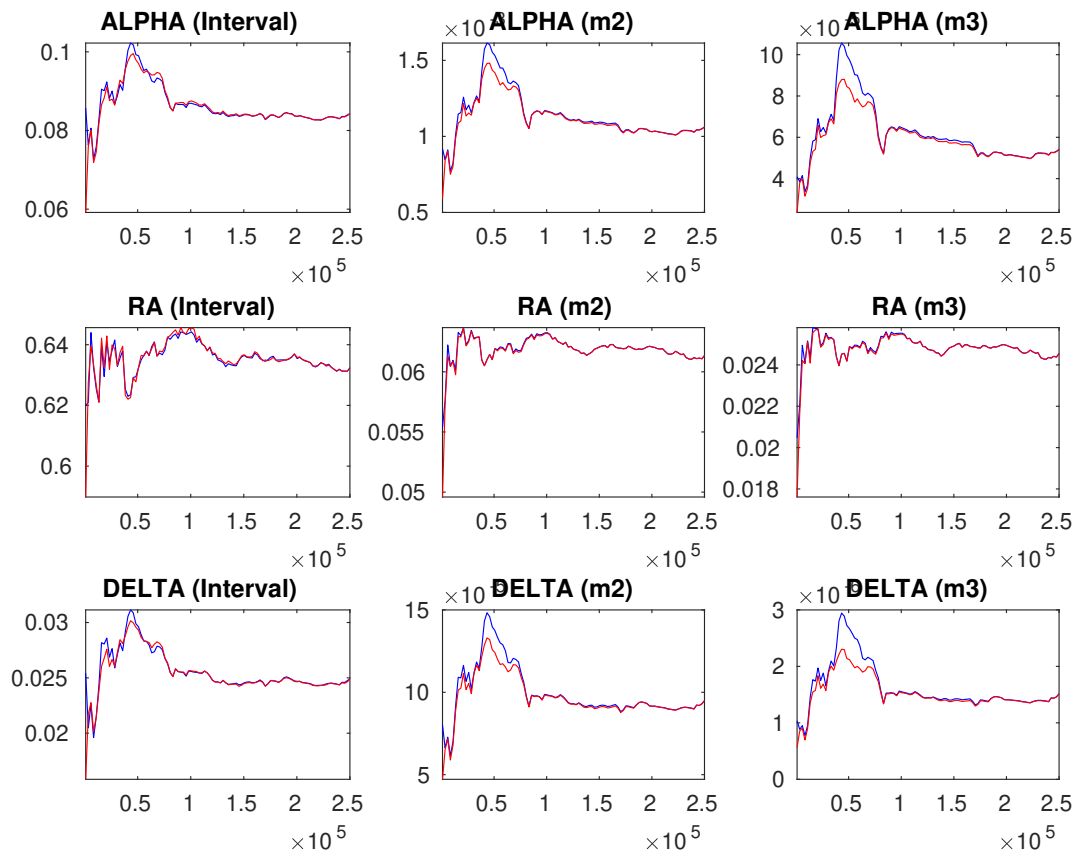


Figure 6: Univariate convergence diagnostics for the Metropolis-Hastings. The first, second and third columns are respectively the criteria based on the eighty percent interval, the second and third moments.

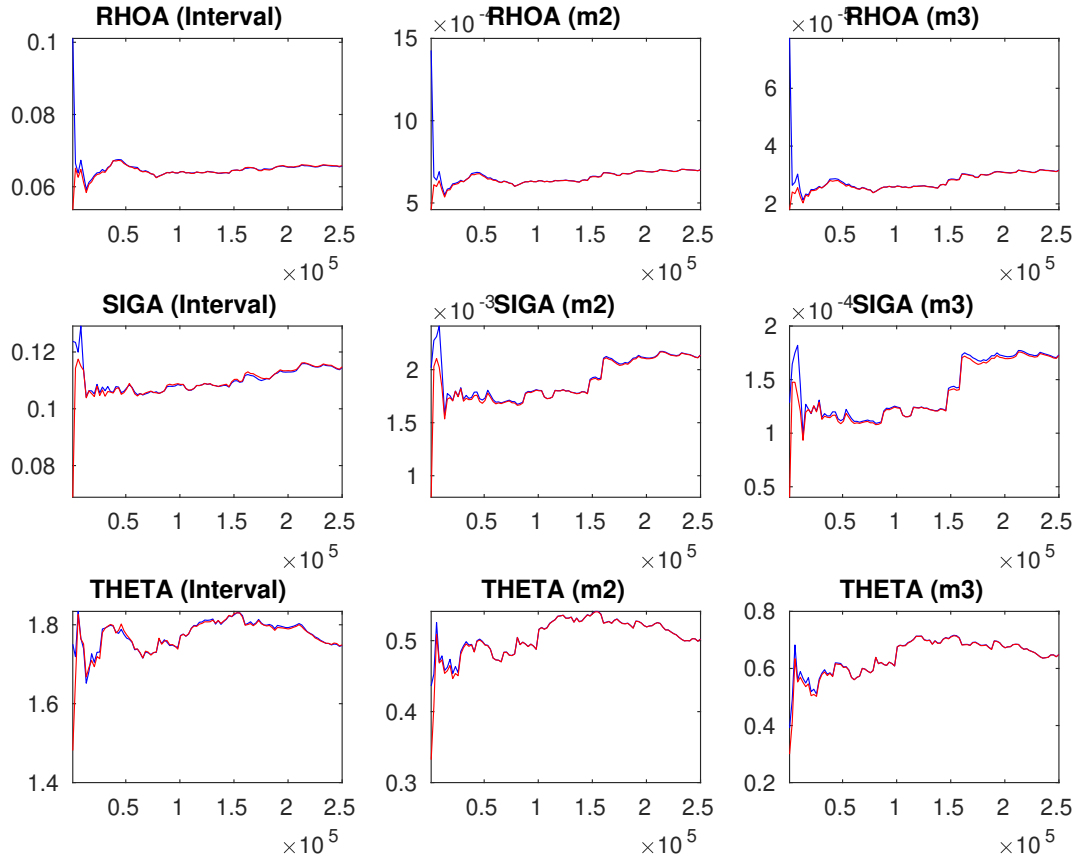


Figure 7: Univariate convergence diagnostics for the Metropolis-Hastings. The first, second and third columns are respectively the criteria based on the eighty percent interval, the second and third moments.

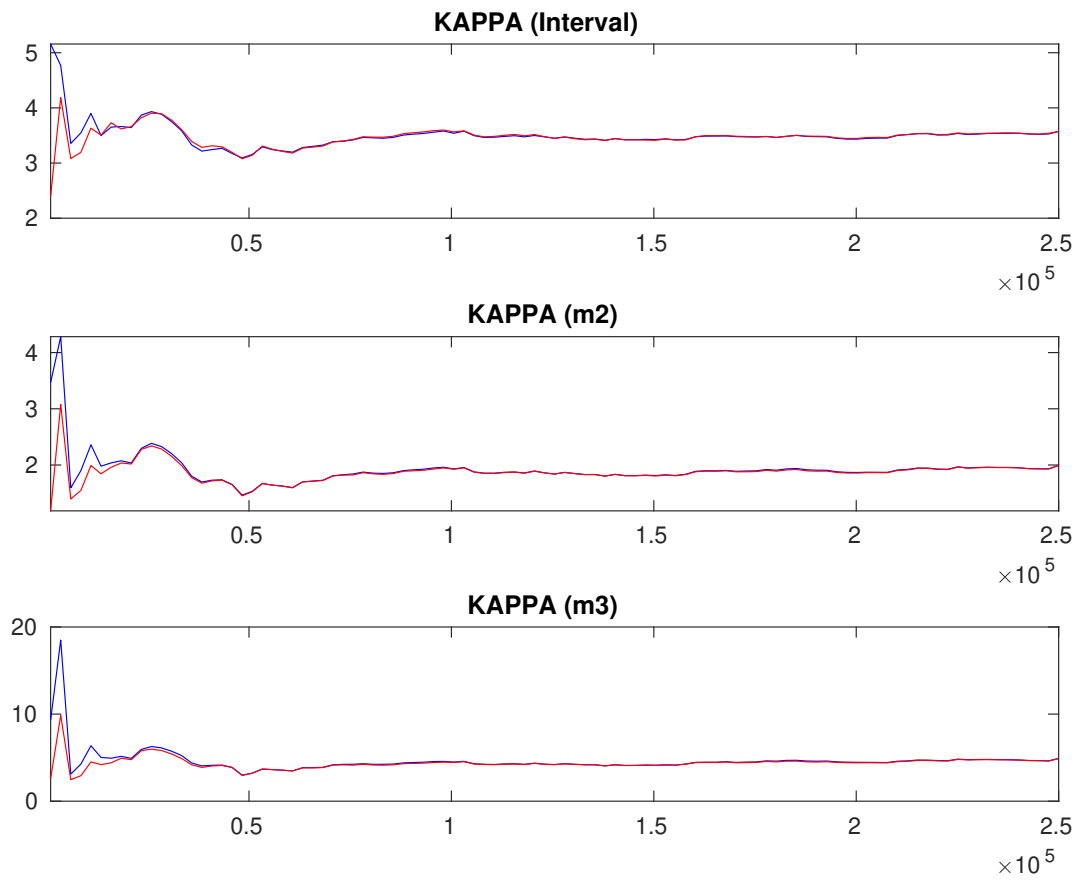


Figure 8: Univariate convergence diagnostics for the Metropolis-Hastings. The first, second and third rows are respectively the criteria based on the eighty percent interval, the second and third moments.