

Figure 1: Check plots.

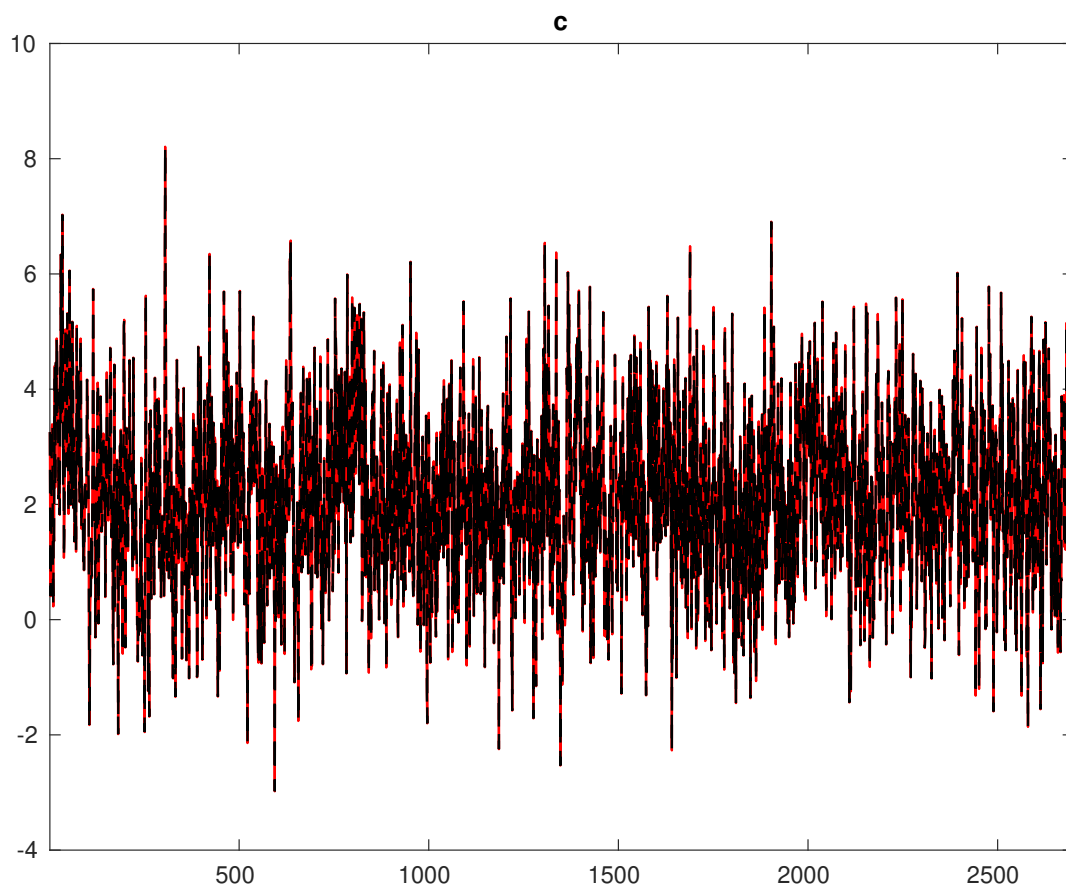


Figure 2: Historical and smoothed variables.

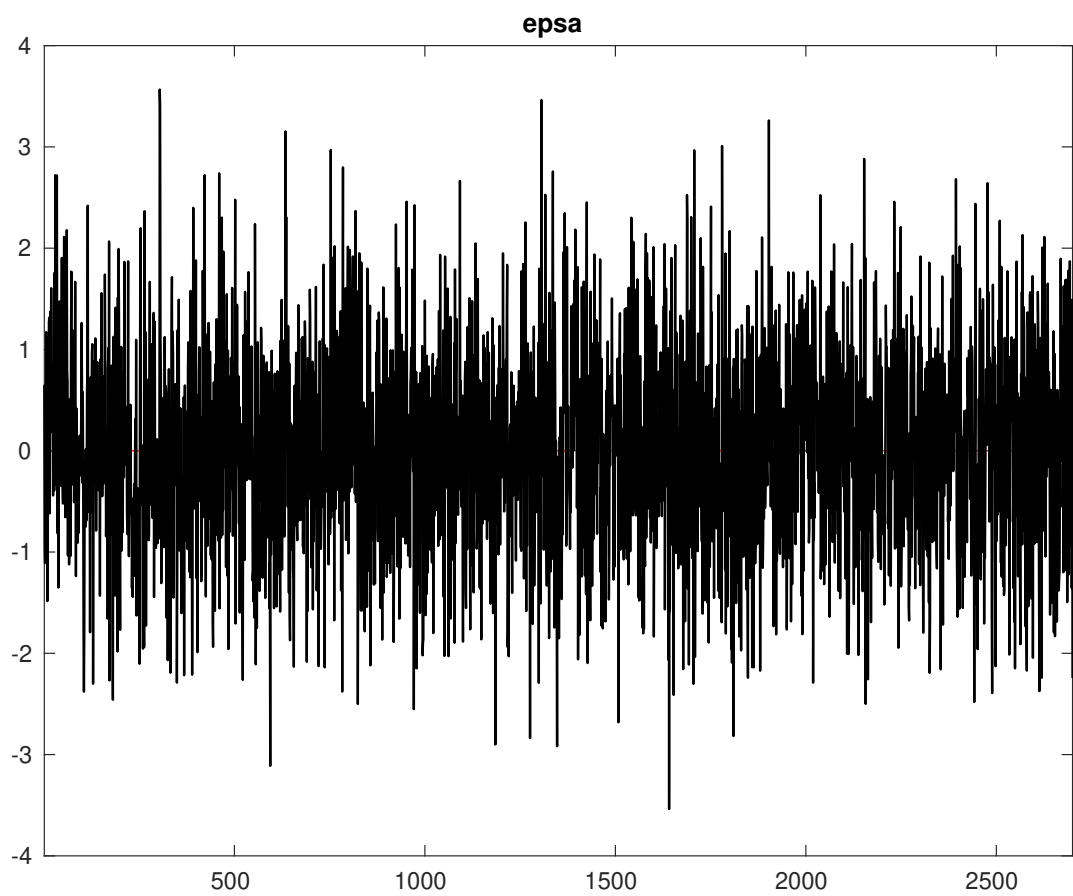


Figure 3: Smoothed shocks.

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>
$\alpha$	261.458	201.091	230.273	196.243
$r_A$	47.498	47.117	48.388	44.881
$\delta$	324.907	247.737	259.083	233.907
$\rho_A$	121.377	150.264	113.981	114.565
$\sigma_A$	195.839	244.373	189.475	160.485
$\theta$	92.469	103.266	112.446	96.953
$\kappa$	205.410	239.217	234.377	227.979

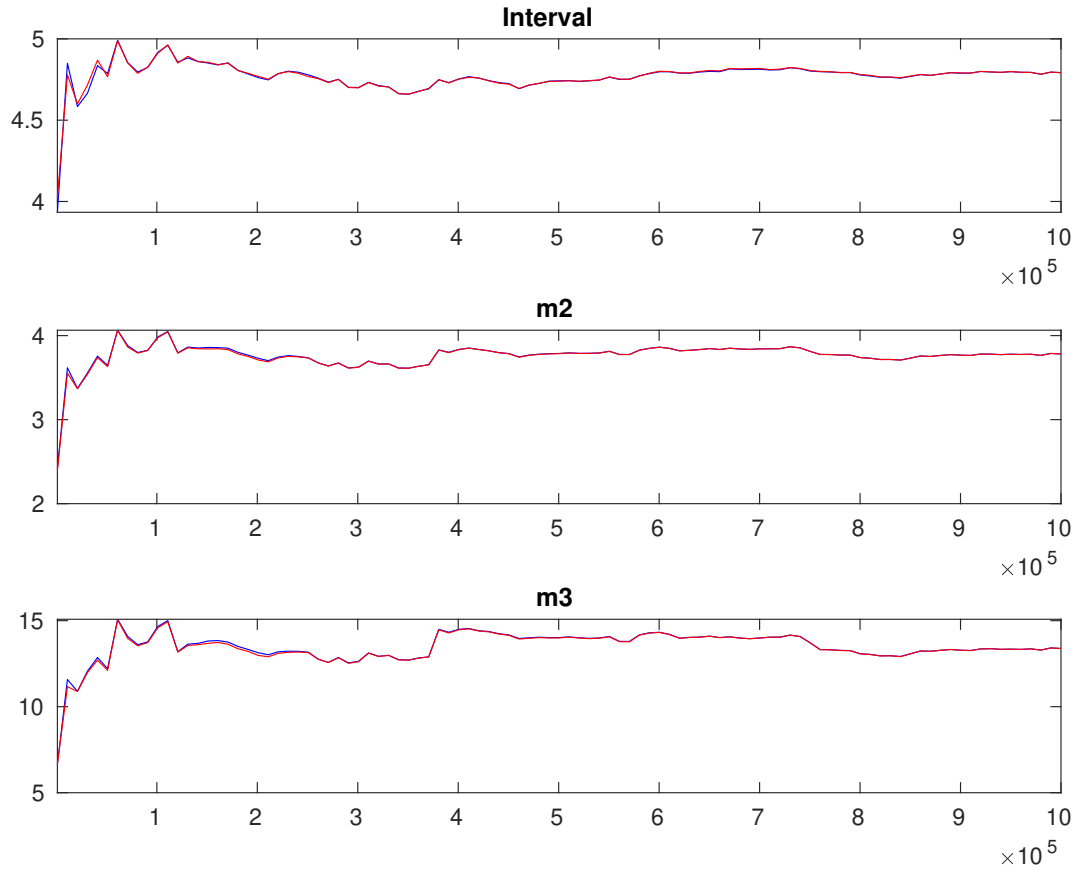


Figure 4: Multivariate convergence diagnostics for the Metropolis-Hastings. The first, second and third rows are respectively the criteria based on the eighty percent interval, the second and third moments. The different parameters are aggregated using the posterior kernel.

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	0.0339	0.2505 0.3619
$r_A$	gamm		2.000	0.2500	2.002	0.2487	1.5930 2.4083
$\delta$	unif		0.500	0.2887	0.025	0.0103	0.0085 0.0406
$\rho_A$	beta		0.500	0.1000	0.504	0.0252	0.4621 0.5446
$\sigma_A$	invg		0.600	2.0000	0.563	0.0431	0.4916 0.6316
$\theta$	gamm		1.500	0.7500	1.584	0.7235	0.5005 2.6672
$\kappa$	gamm		2.000	1.5000	2.398	1.4333	0.1541 4.4094

Table 3: Results from posterior maximization (parameters)

	Prior			Posterior	
	Dist.	Mean	Stdev	Mode	Stdev
$\alpha$	norm	0.300	0.0500	0.2945	0.0348
$r_A$	gamm	2.000	0.2500	1.9702	0.2482
$\delta$	unif	0.500	0.2887	0.0199	0.0094
$\rho_A$	beta	0.500	0.1000	0.5114	0.0238
$\sigma_A$	invg	0.600	2.0000	0.5621	0.0429
$\theta$	gamm	1.500	0.7500	1.0989	0.5593
$\kappa$	gamm	2.000	1.5000	1.8942	1.2298

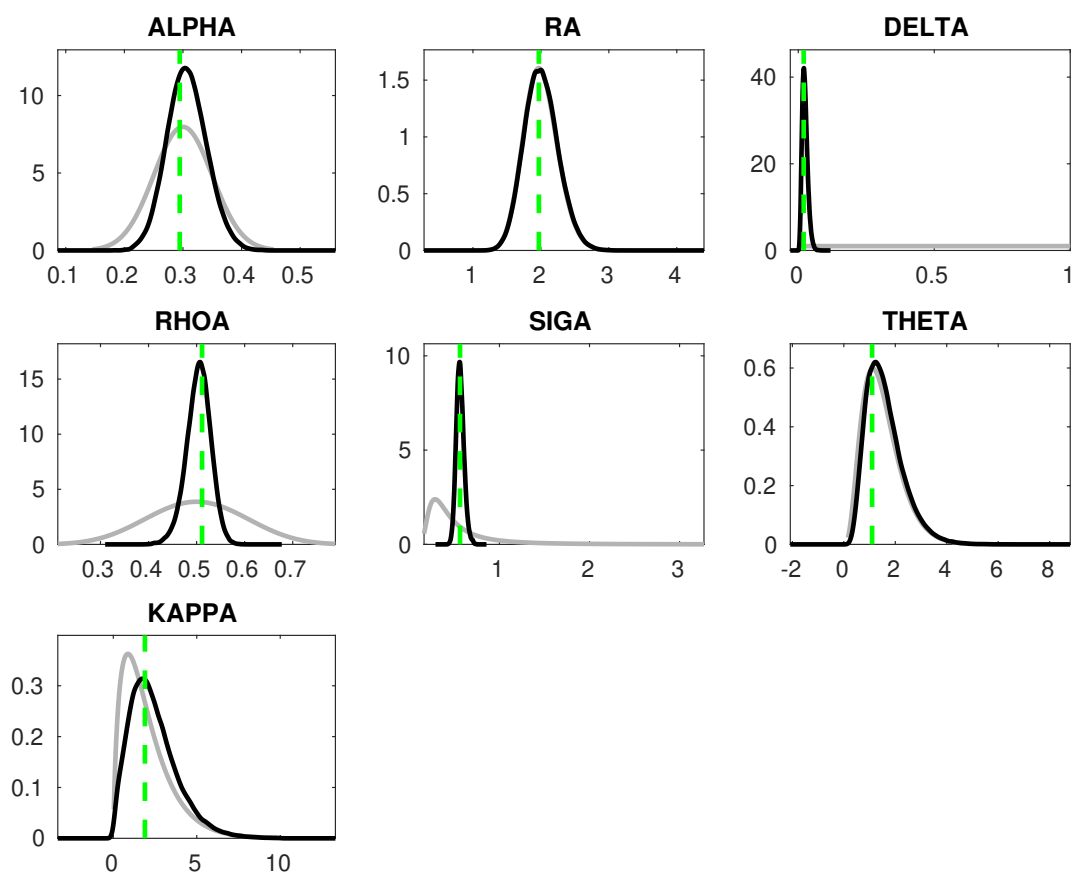


Figure 5: Priors and posteriors.



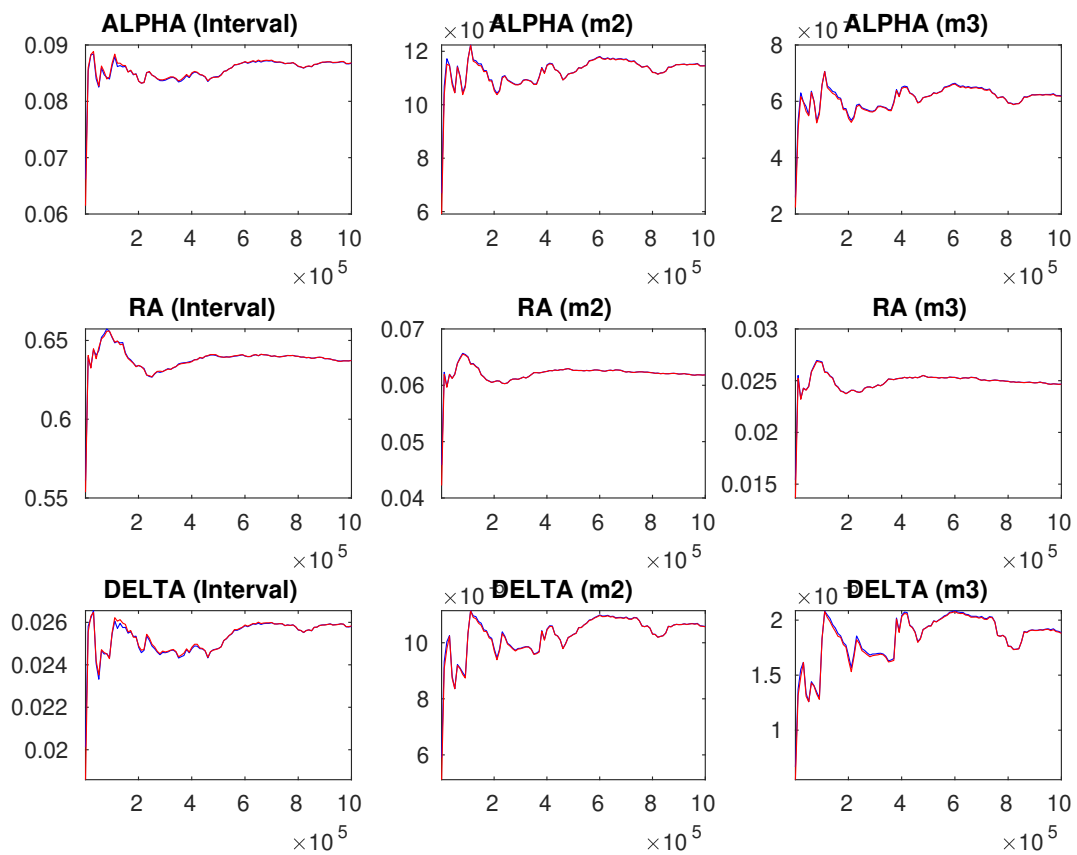


Figure 6: Univariate convergence diagnostics for the Metropolis-Hastings. The first, second and third columns are respectively the criteria based on the eighty percent interval, the second and third moments.

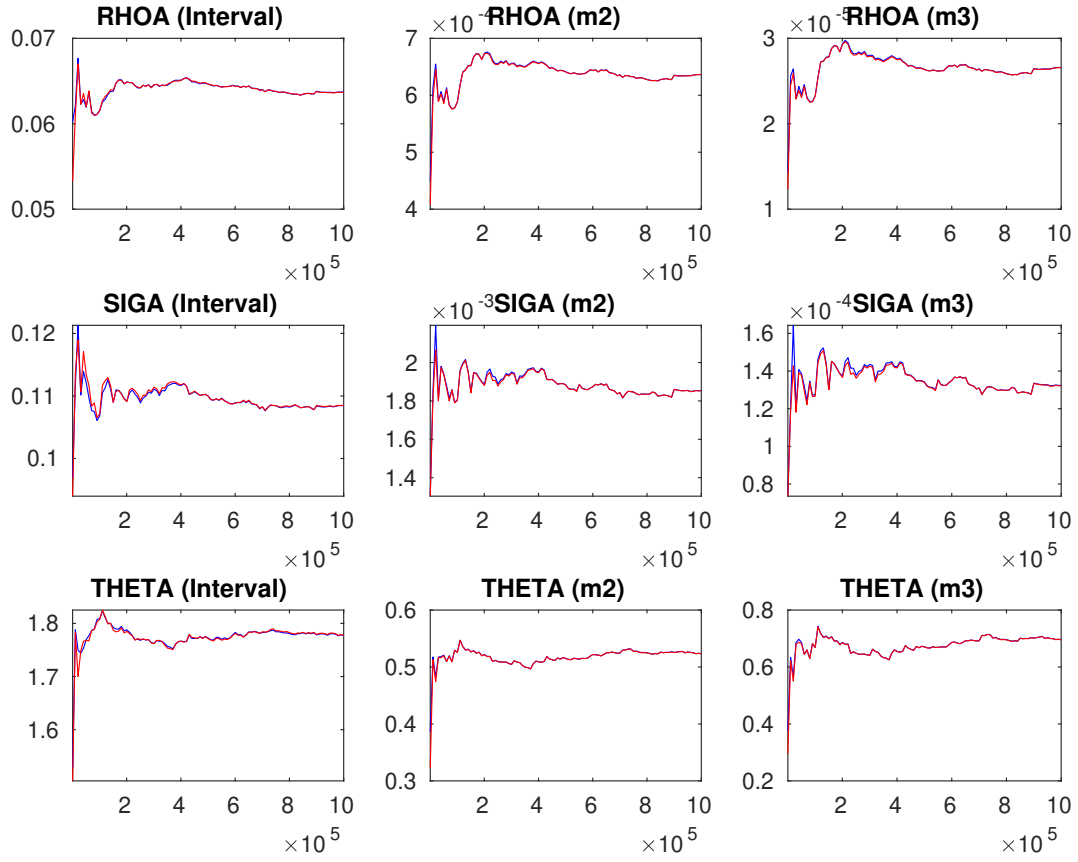


Figure 7: Univariate convergence diagnostics for the Metropolis-Hastings. The first, second and third columns are respectively the criteria based on the eighty percent interval, the second and third moments.

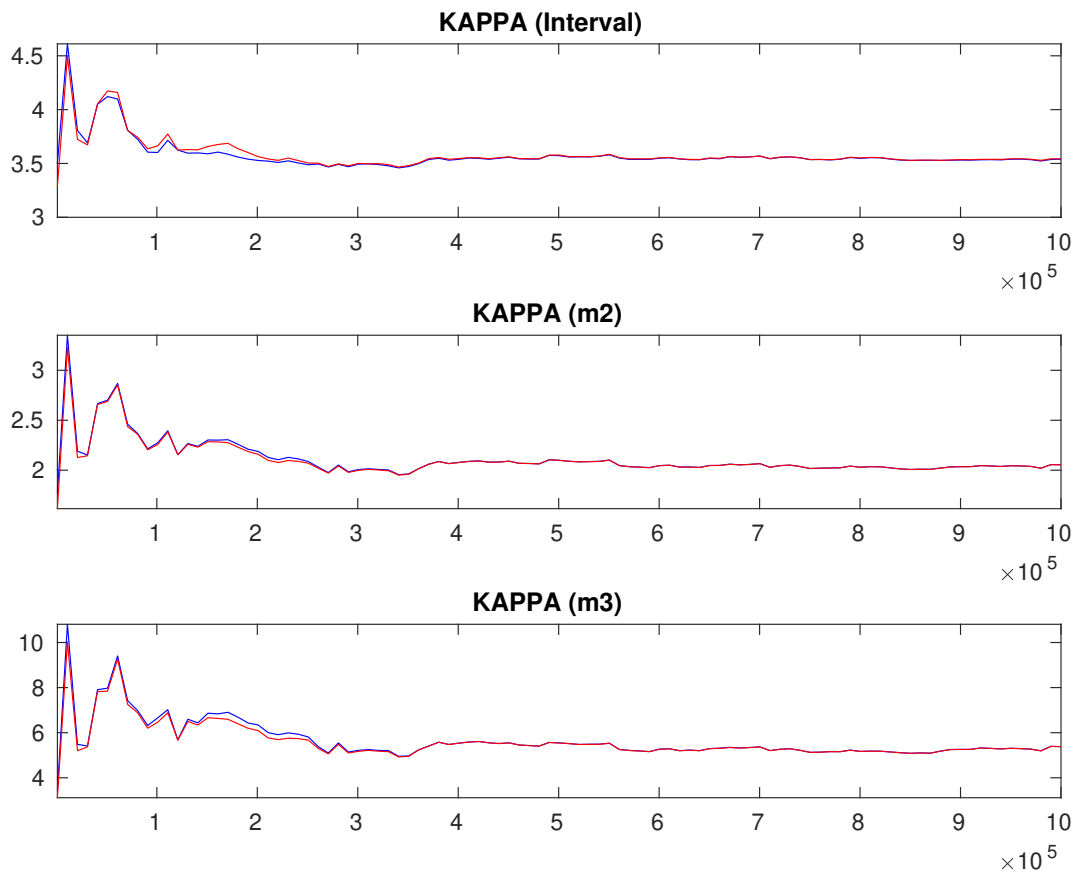


Figure 8: Univariate convergence diagnostics for the Metropolis-Hastings. The first, second and third rows are respectively the criteria based on the eighty percent interval, the second and third moments.