

Submodel 2

7/18/2017

```
##run n_iter=10000 iterations  
time
```

```
##   user  system elapsed  
## 754.895   16.661  776.165
```

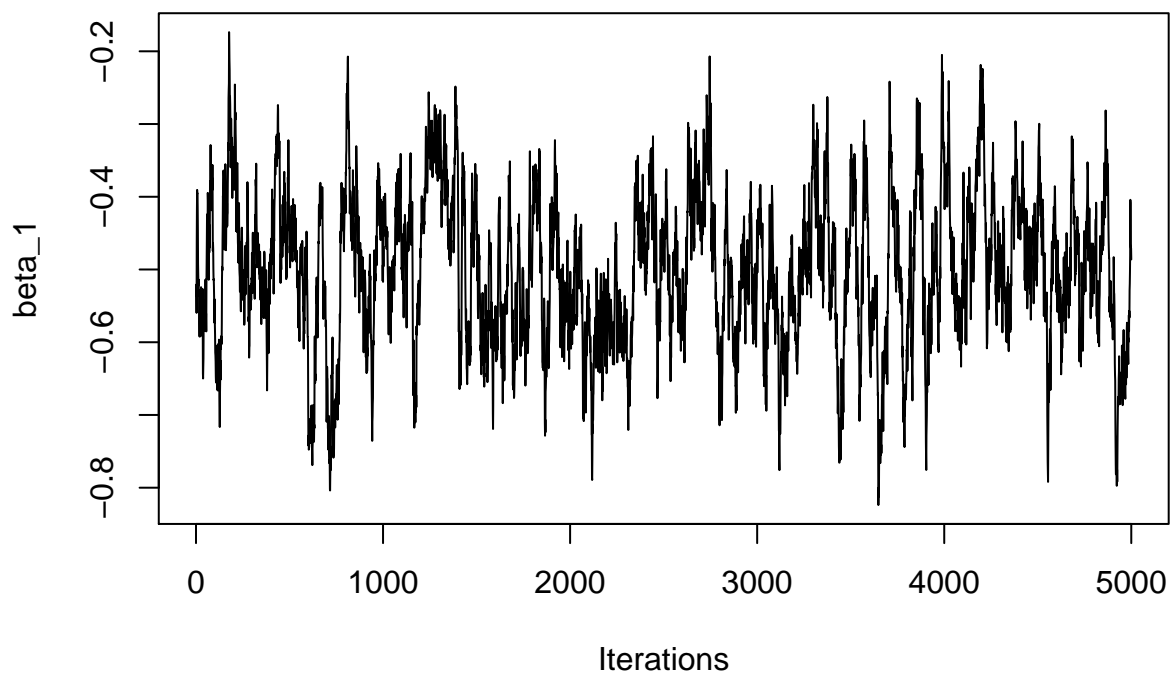
```
burnin=5000  
##posterior mean  
(posterior.mean.M=apply(M_keep[-(1:burnin)],2, mean))
```

```
## [1]  0.0000000  0.5970193  1.1993138 -0.5994060  
(posterior.mean.beta=apply(beta_keep[-(1:burnin)],2, mean))
```

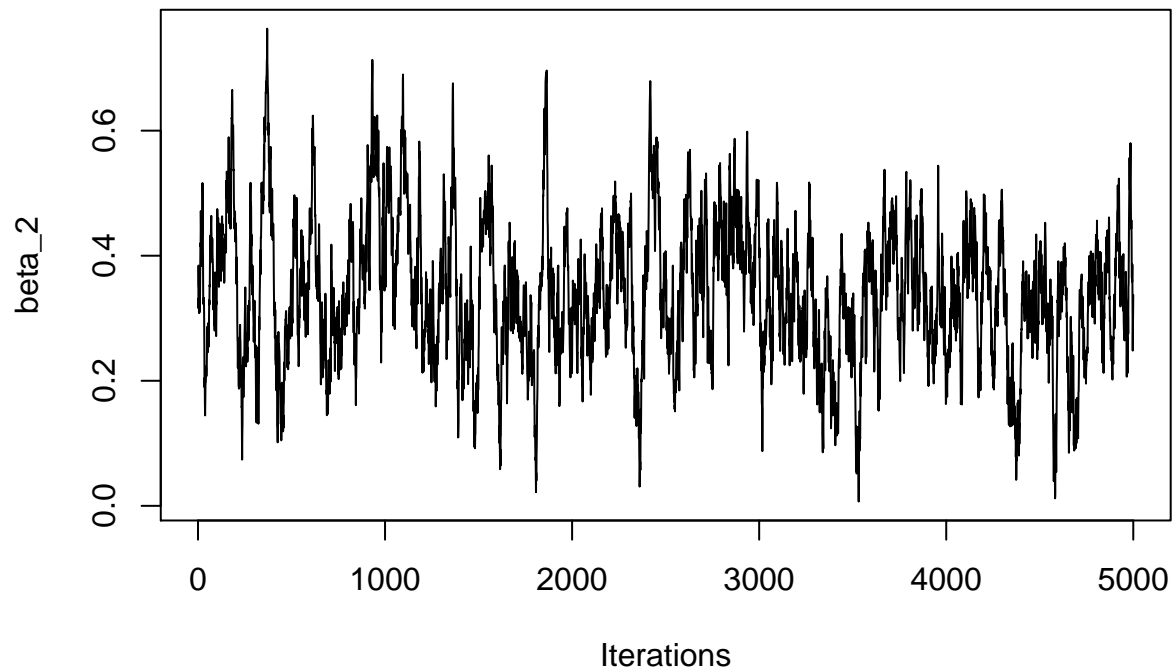
```
## [1] -0.5010610  0.3402932  
(posterior.mean.sgm2=mean(sgm2_keep[-(1:burnin)]))
```

```
## [1] 1.117061  
(posterior.mean.sgm2=mean(sgm2_keep[-(1:burnin)]))
```

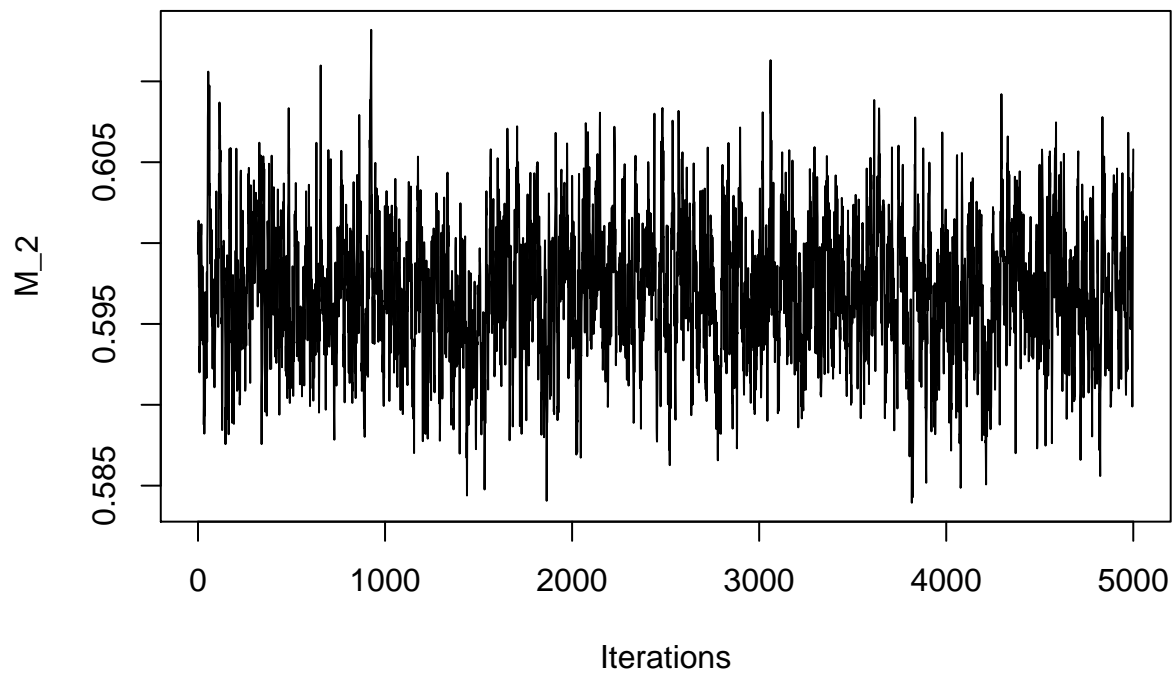
```
## [1] 1.052417  
traceplot(x=as.mcmc(beta_keep[-(1:burnin),1]), ylab="beta_1")
```



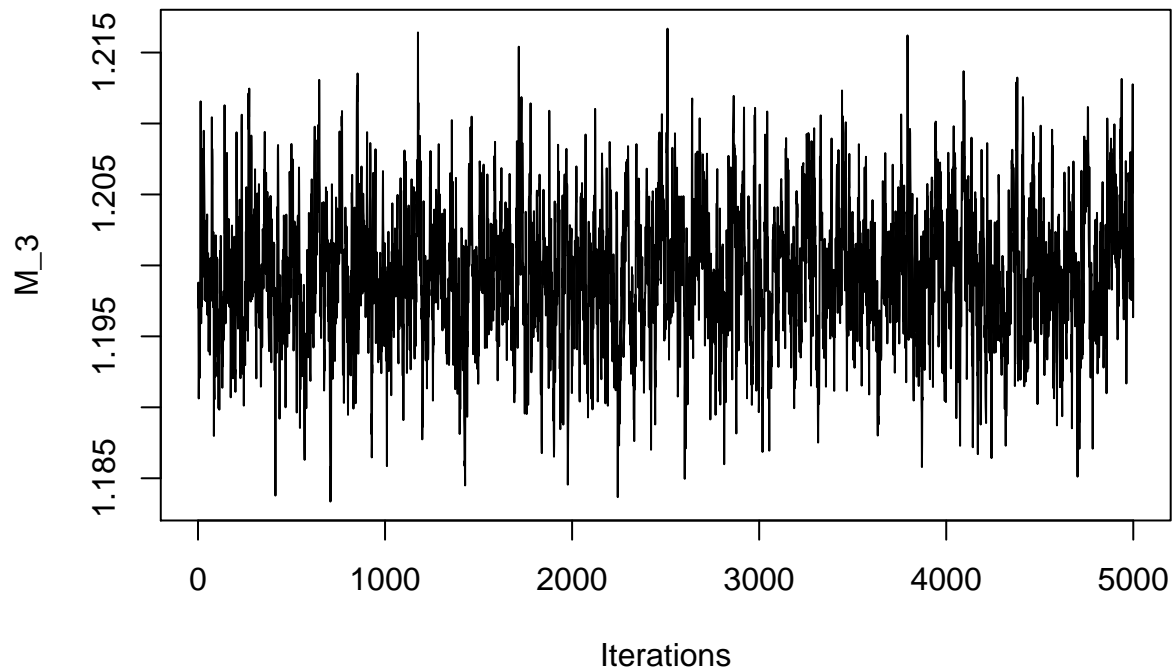
```
traceplot(x=as.mcmc(beta_keep[-(1:burnin),2]), ylab="beta_2")
```



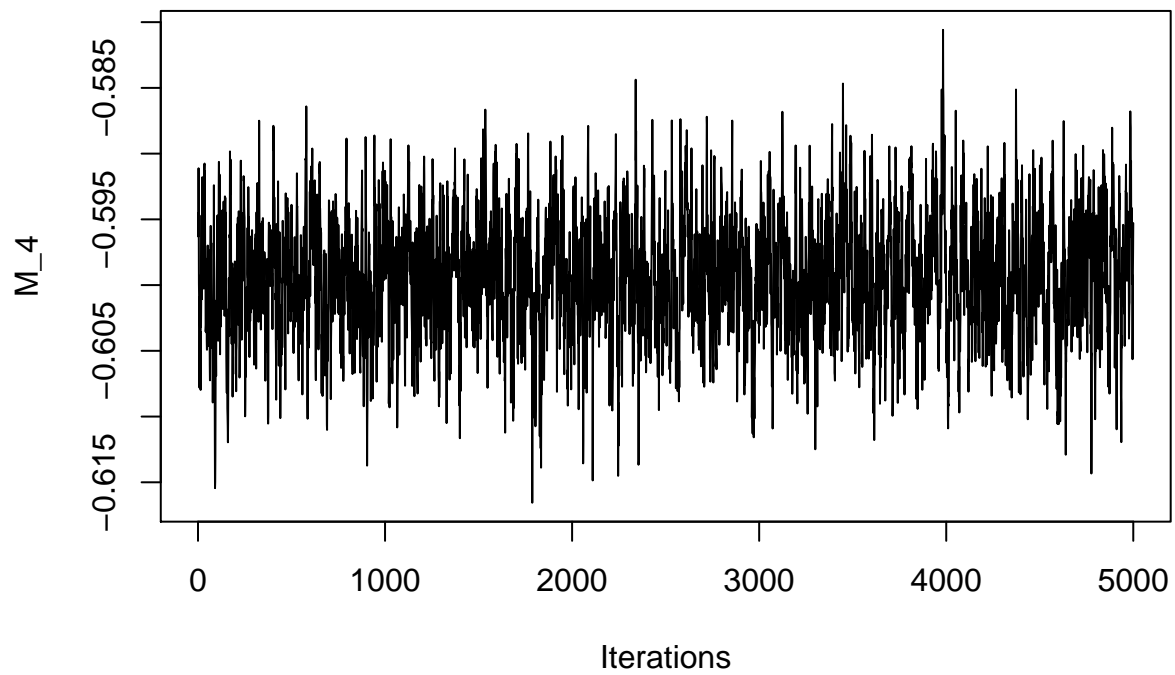
```
traceplot(x=as.mcmc(M_keep[-(1:burnin),2]), ylab="M_2")
```



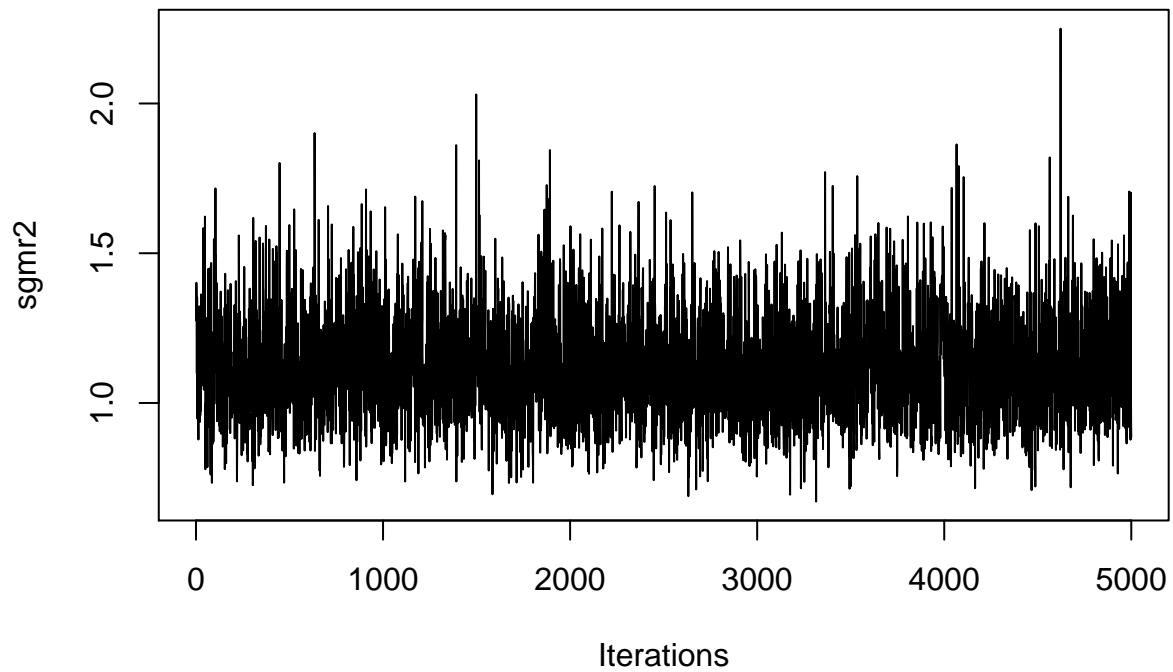
```
traceplot(x=as.mcmc(M_keep[-(1:burnin),3]), ylab="M_3")
```



```
traceplot(x=as.mcmc(M_keep[-(1:burnin),4]), ylab="M_4")
```



```
traceplot(x=as.mcmc(sgmr2_keep[-(1:burnin)]), ylab="sgmr2")
```



```
traceplot(x=as.mcmc(sgm2_keep[-(1:burnin)]), ylab="sgm2")
```

