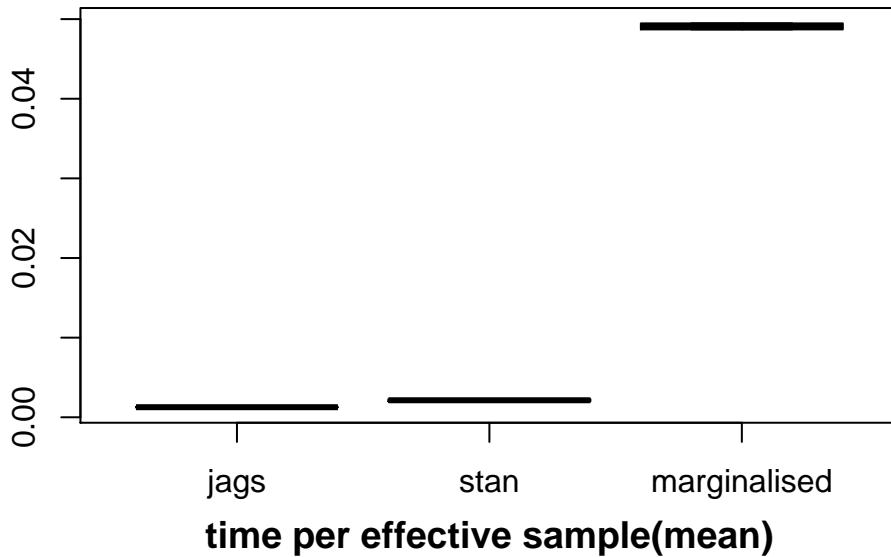


Dawid-Skene-anesthesia

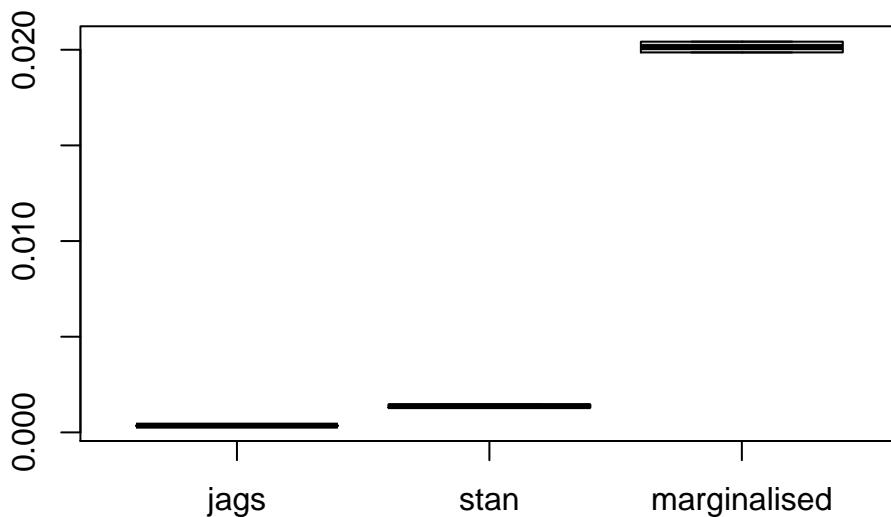
Result

Main results using the minimum and the mean ESS across parameter

time per effective sample(min)



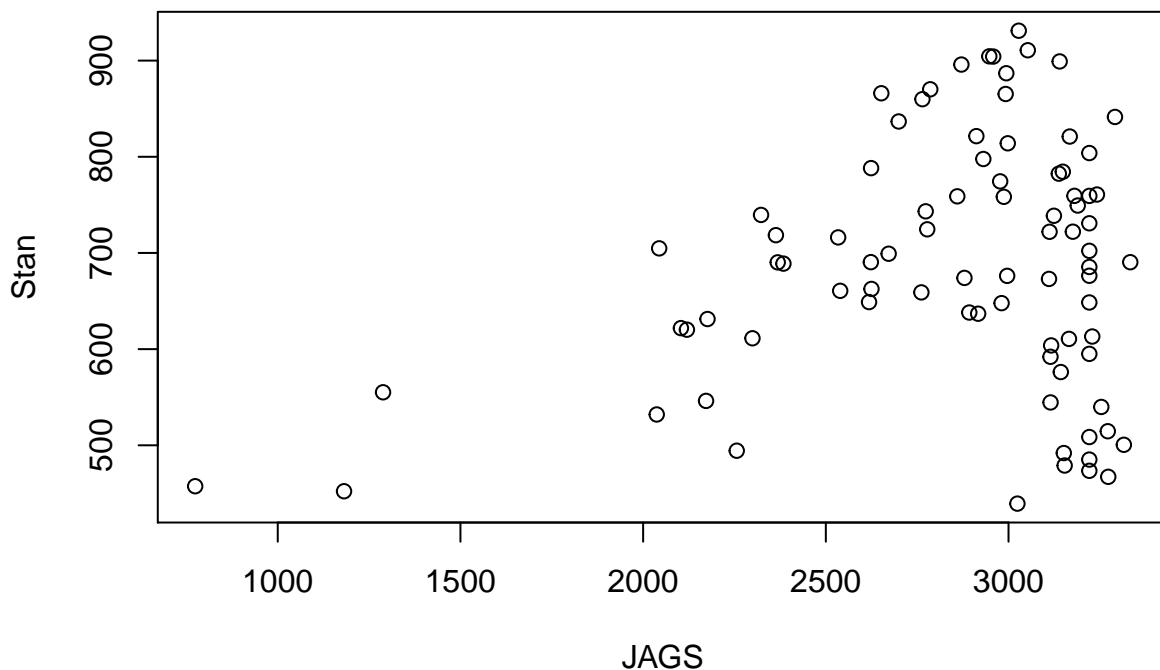
time per effective sample(mean)



Number of Effective Samples per second

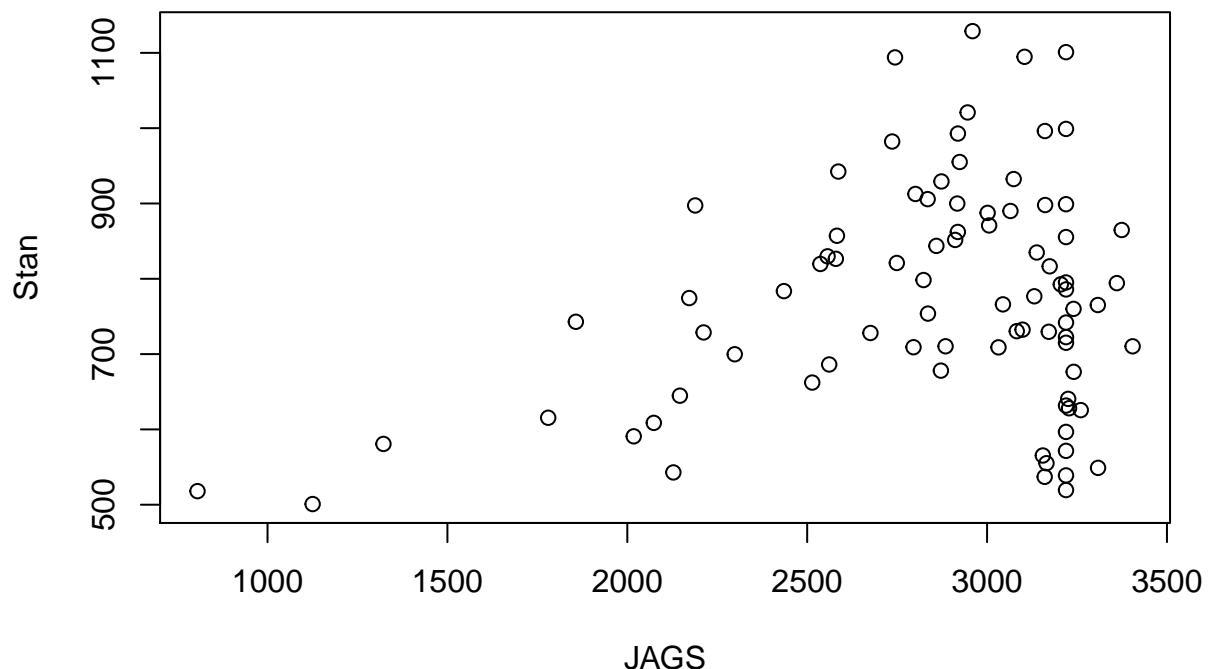
Comparison between JAGS and Stan

Number of Effective Samples per second



NULL

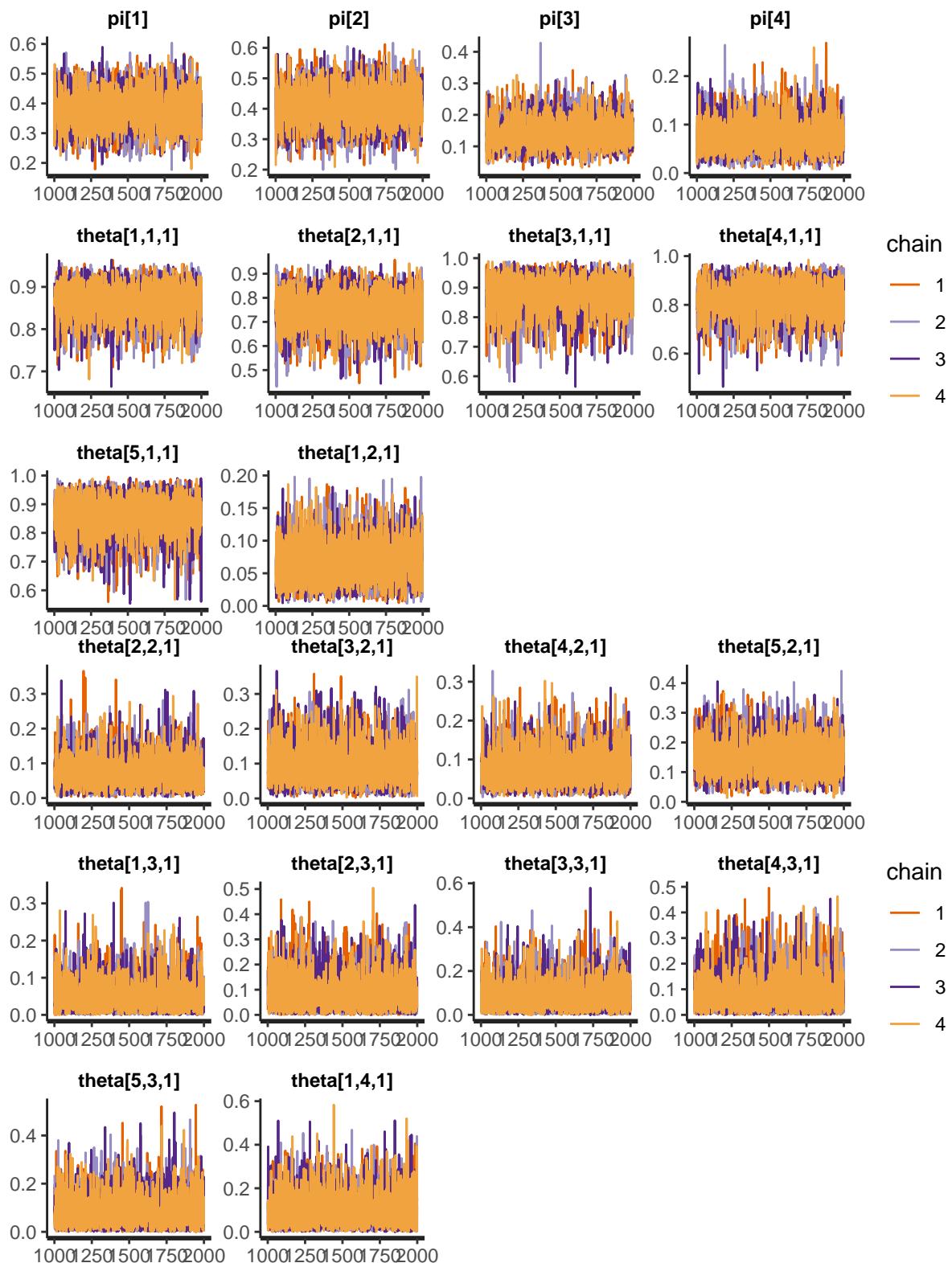
Number of Effective Samples per second

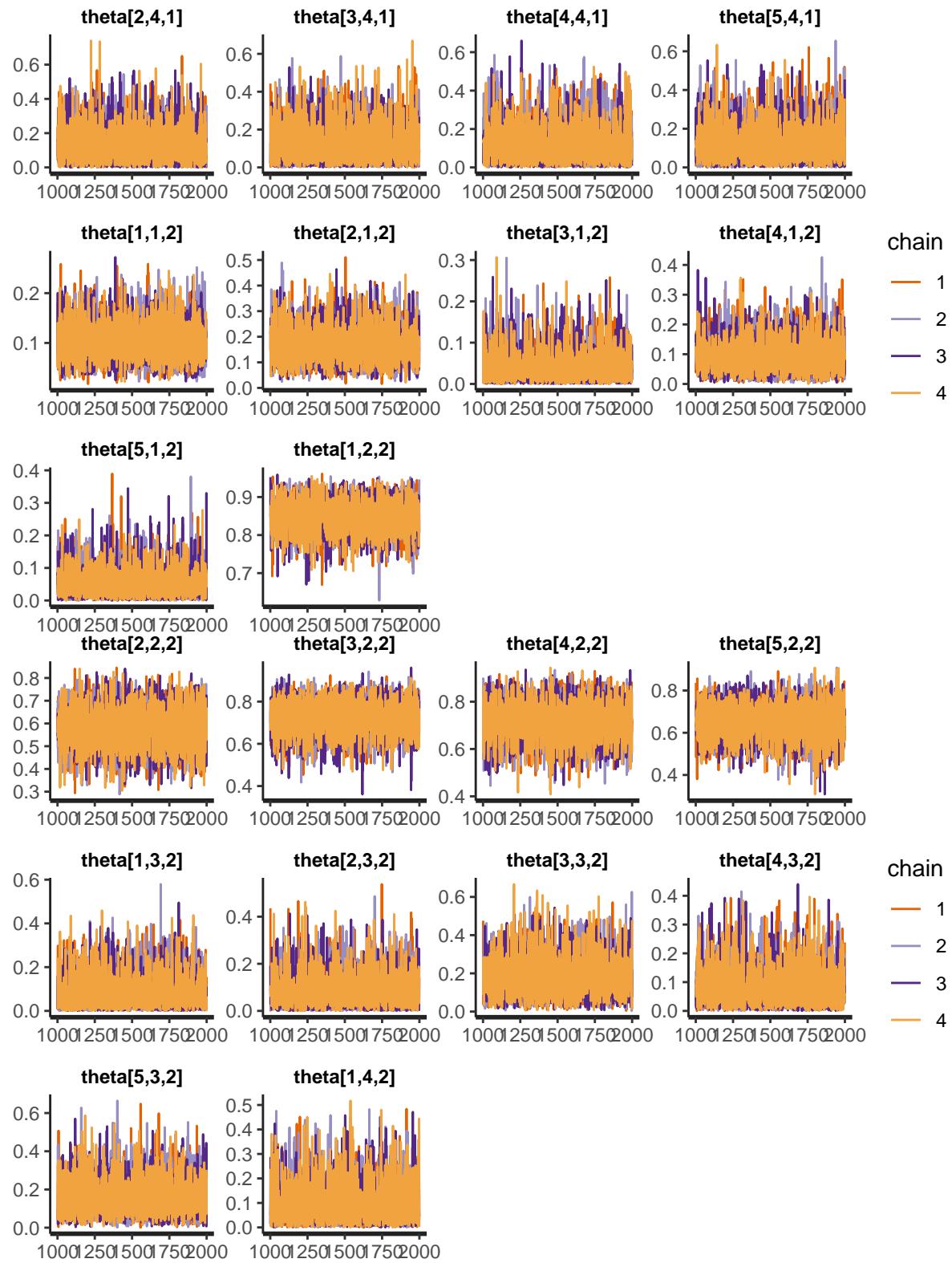


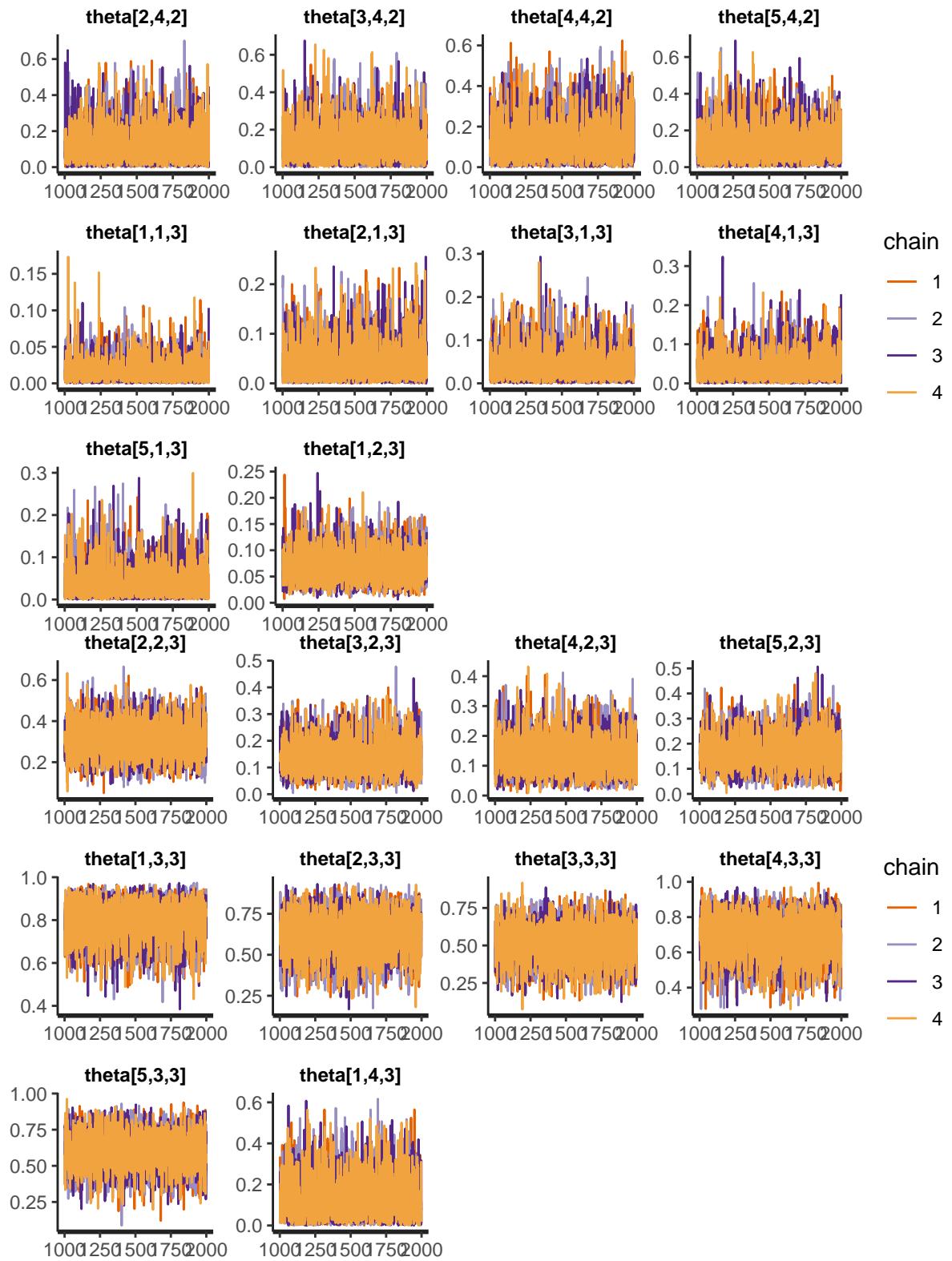
NULL

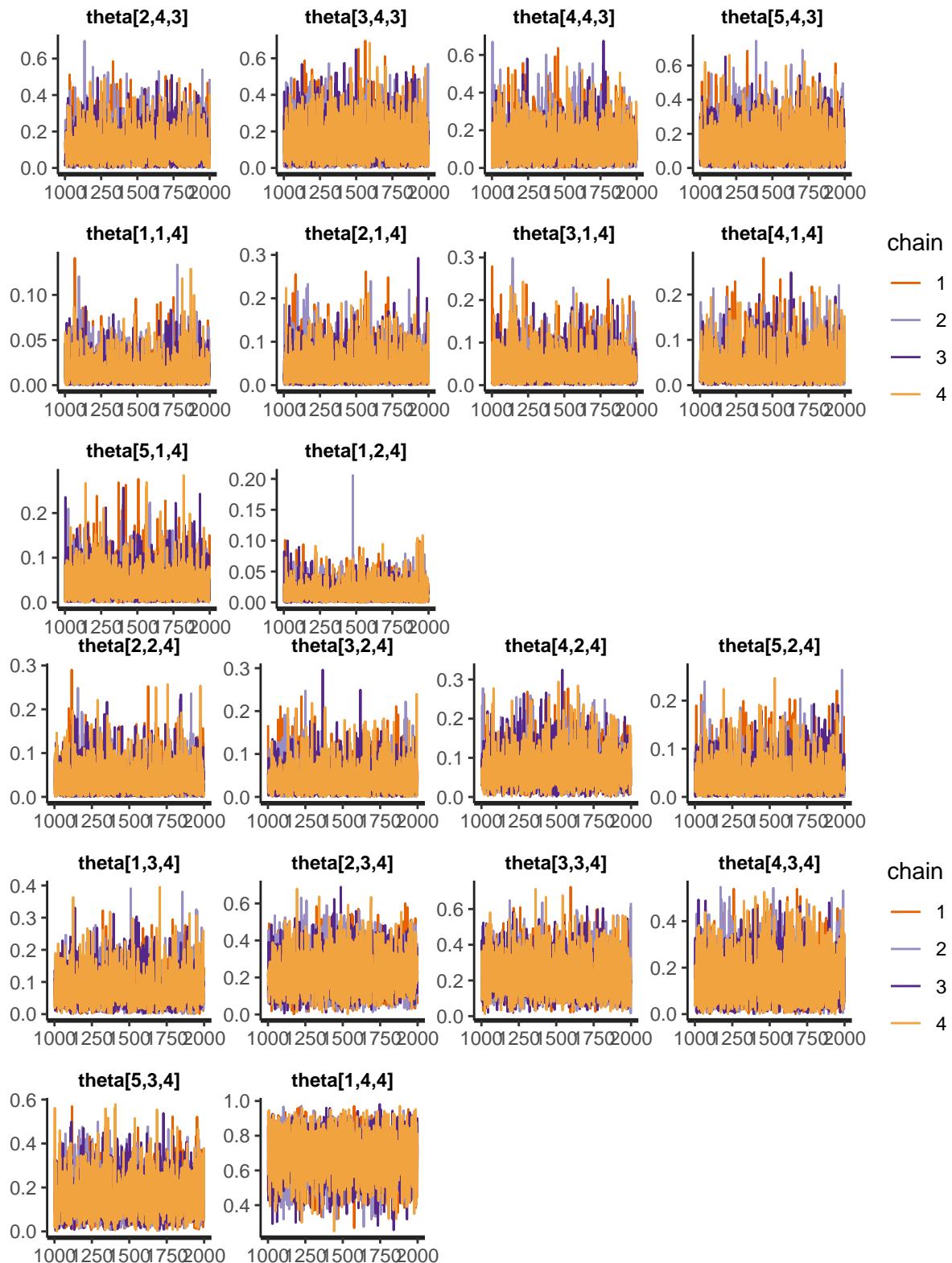
Convergence Diagnostic

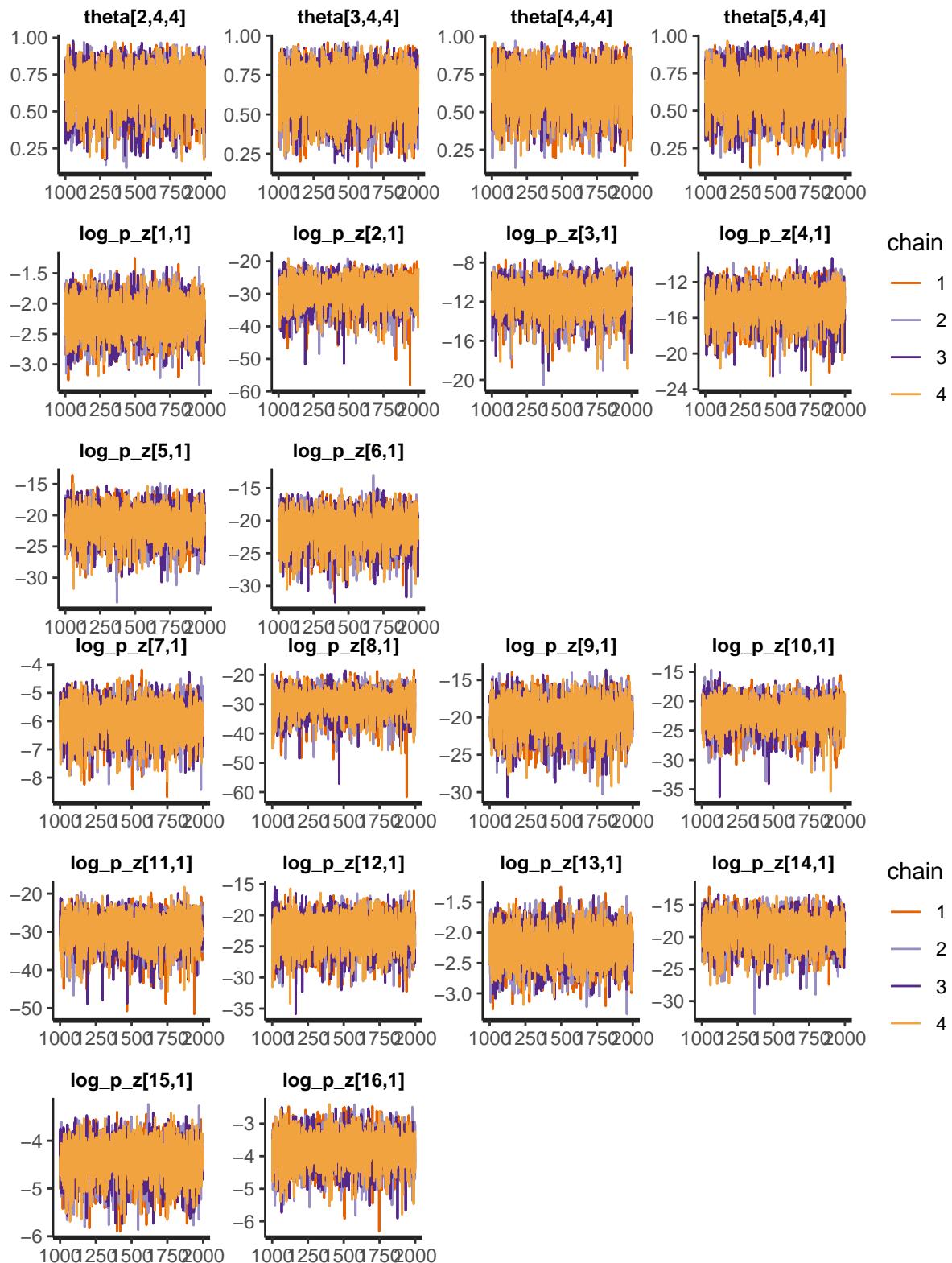
Traceplot for Stan

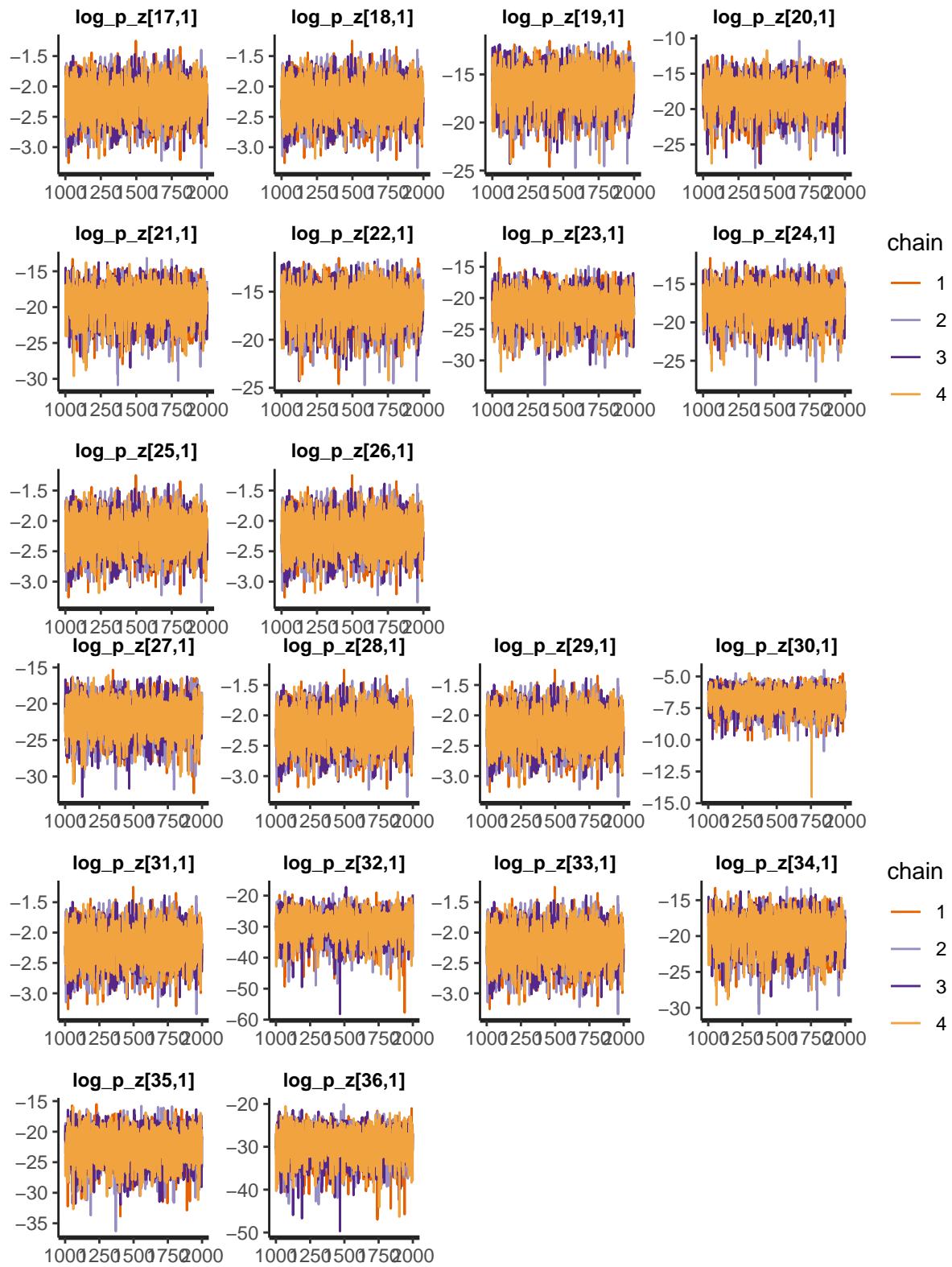


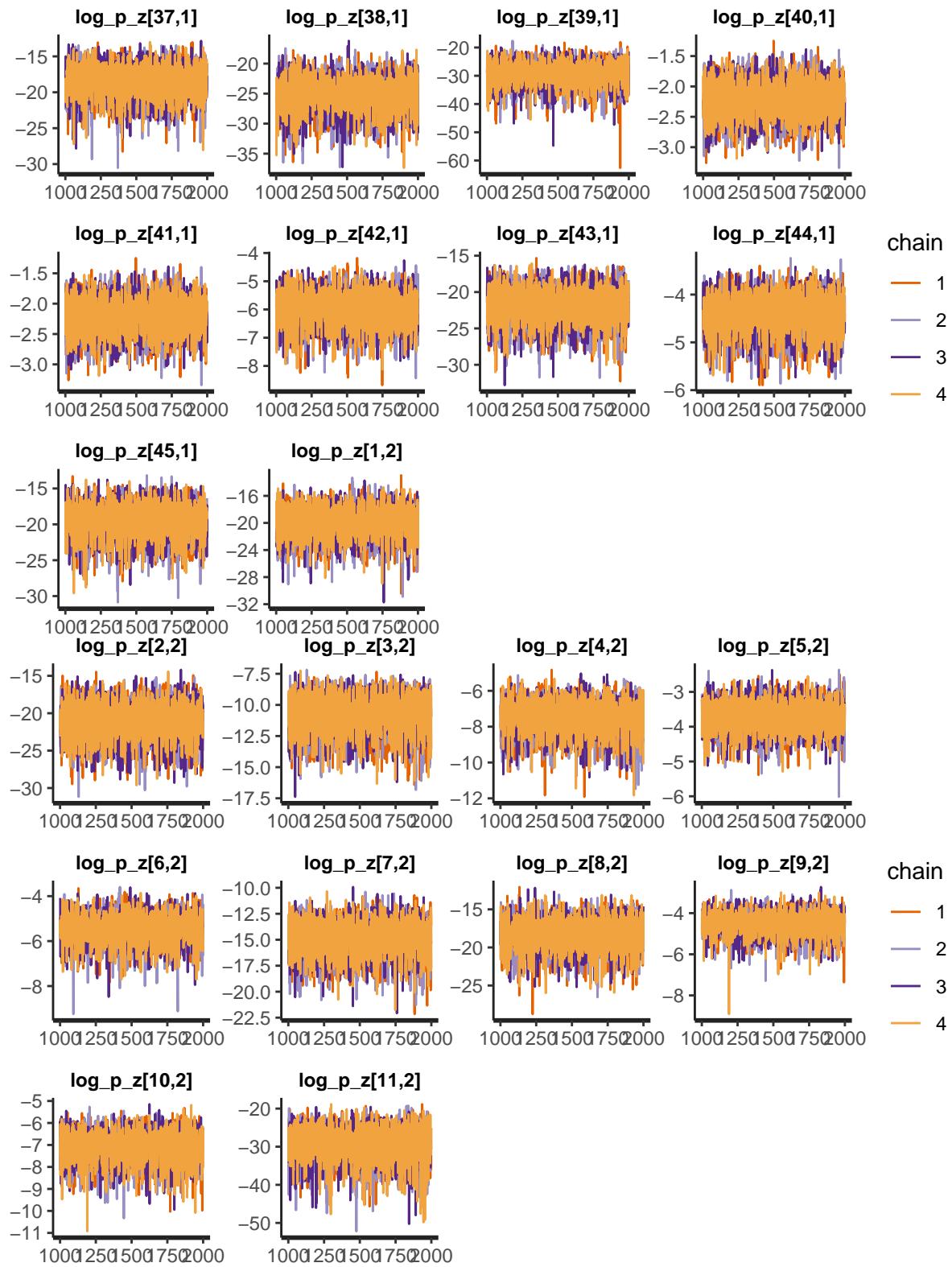


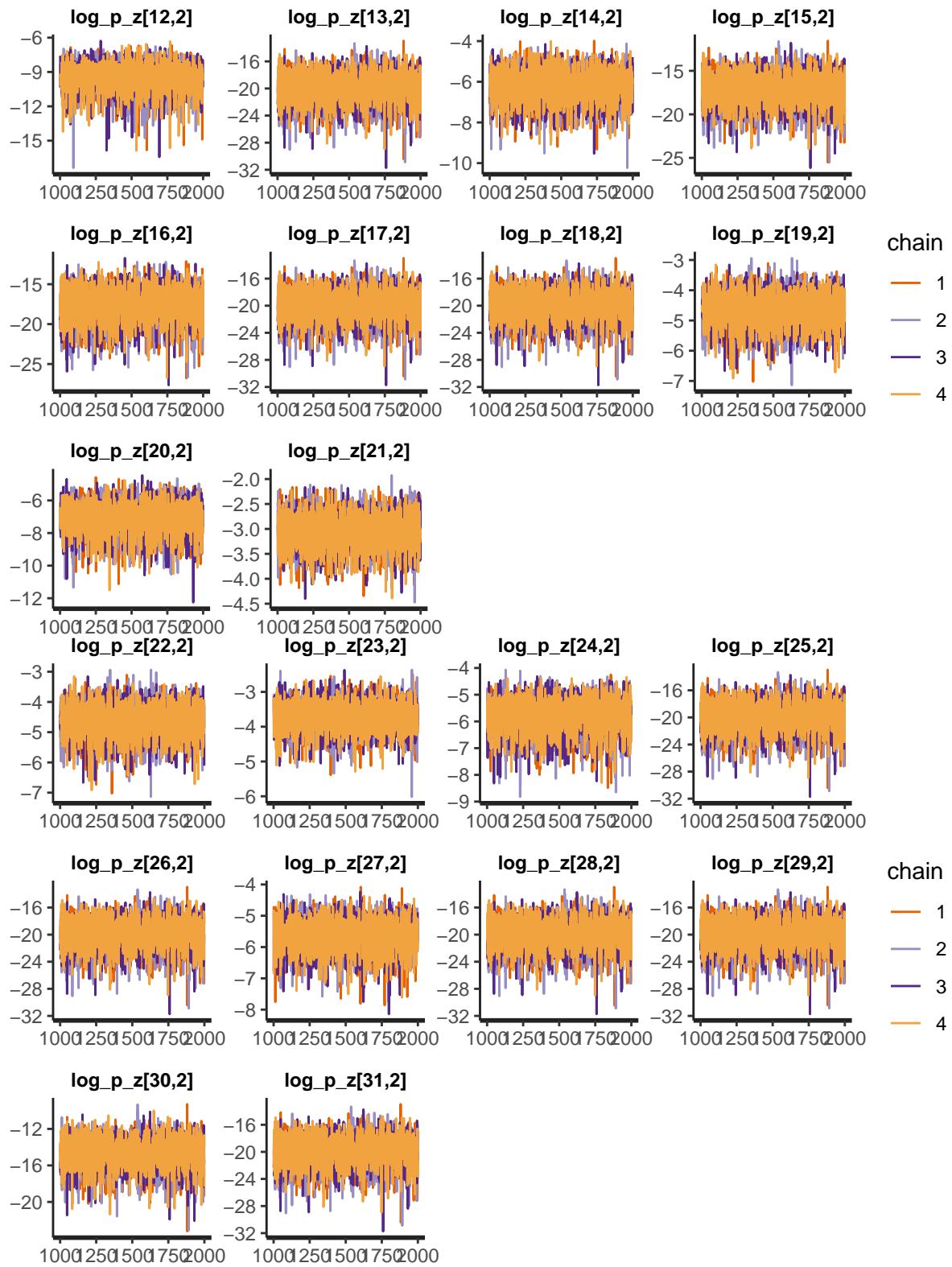


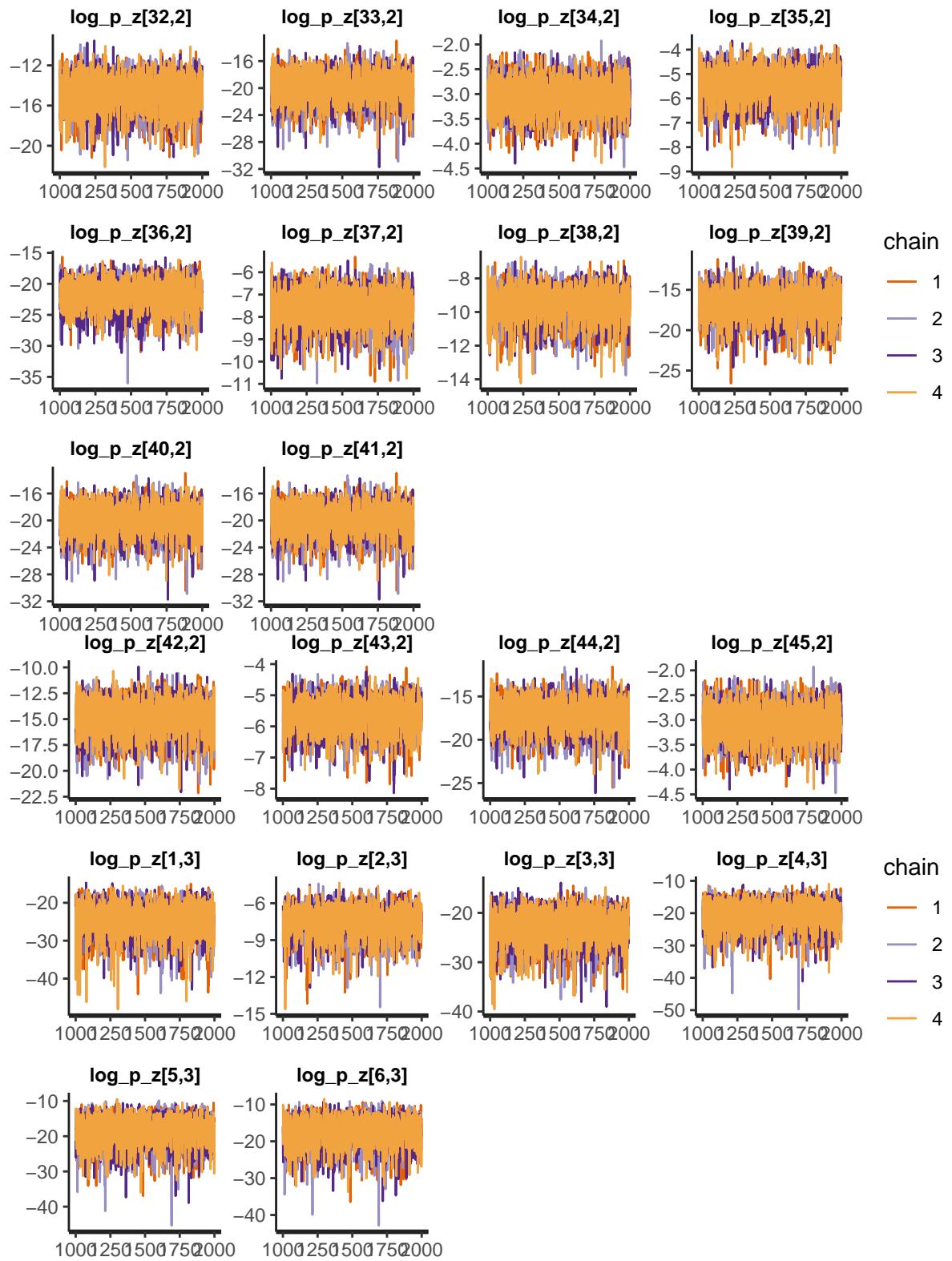


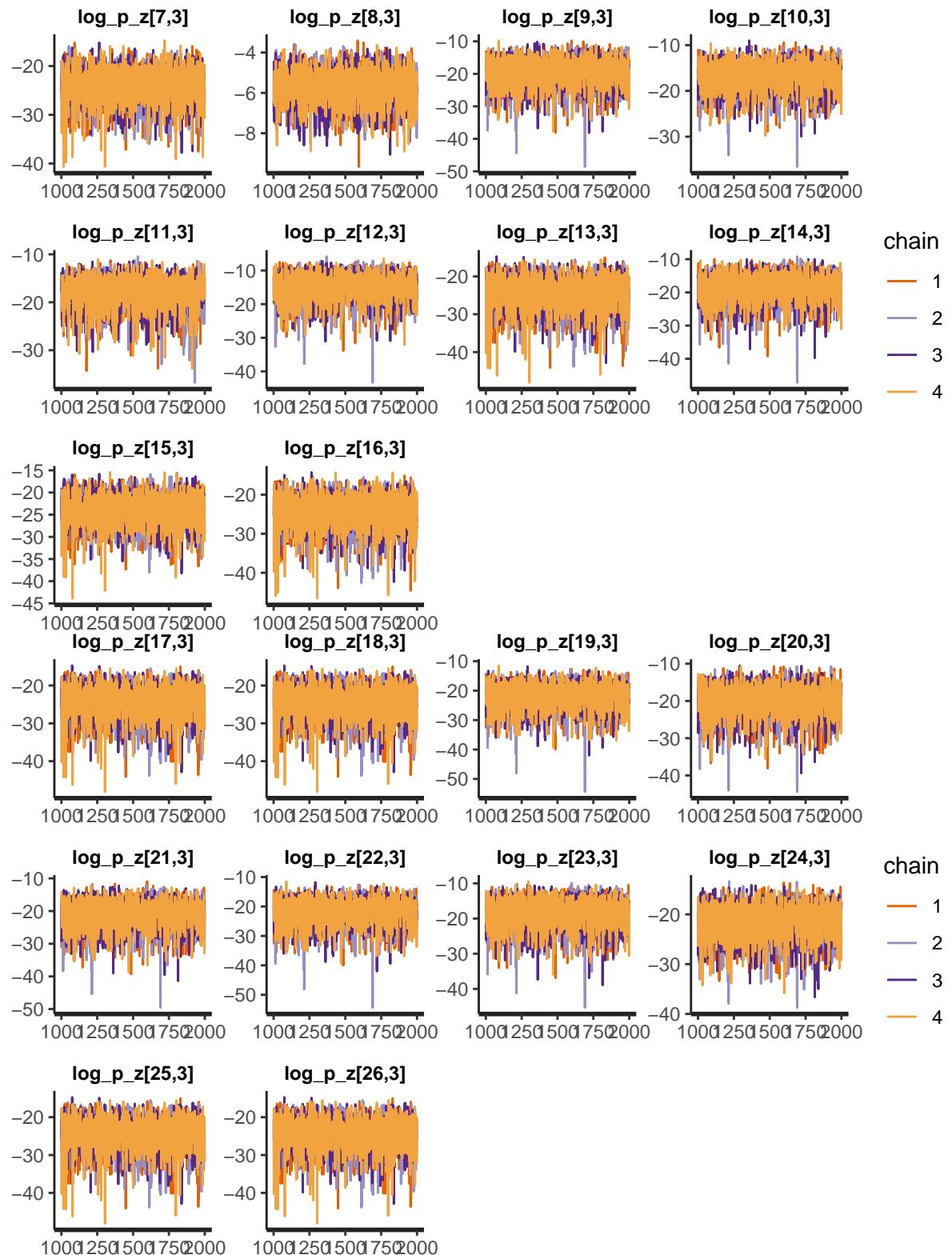


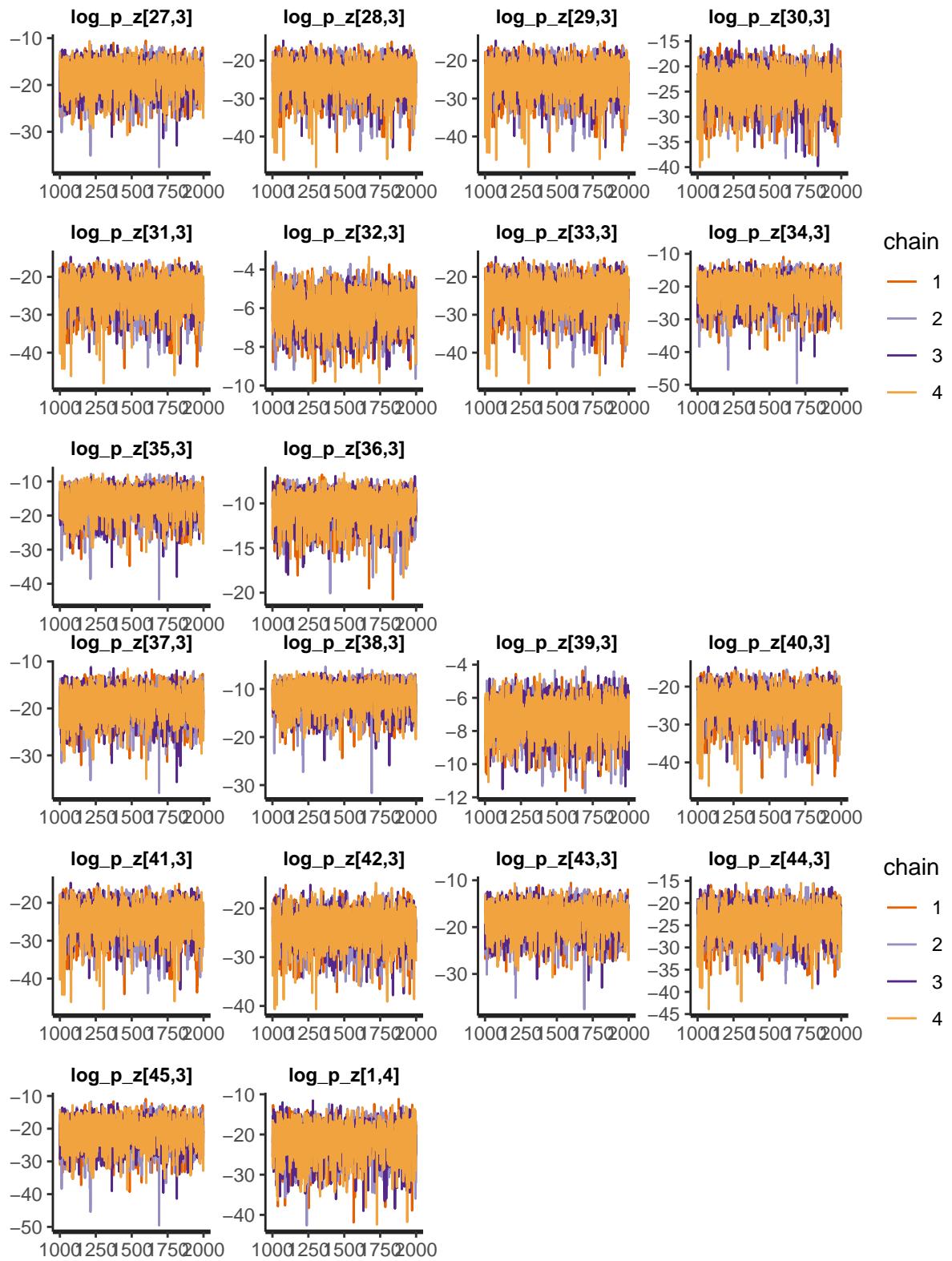


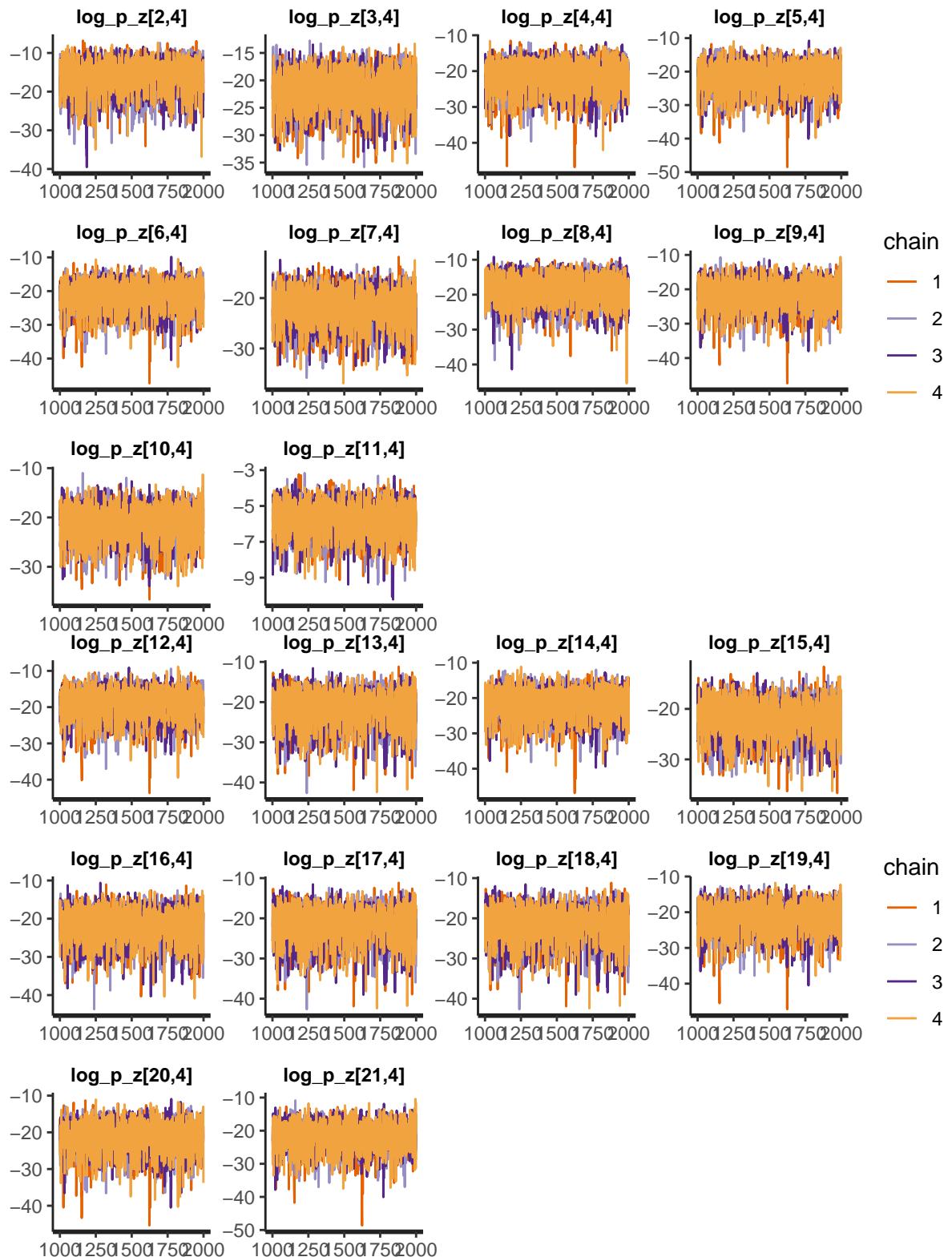


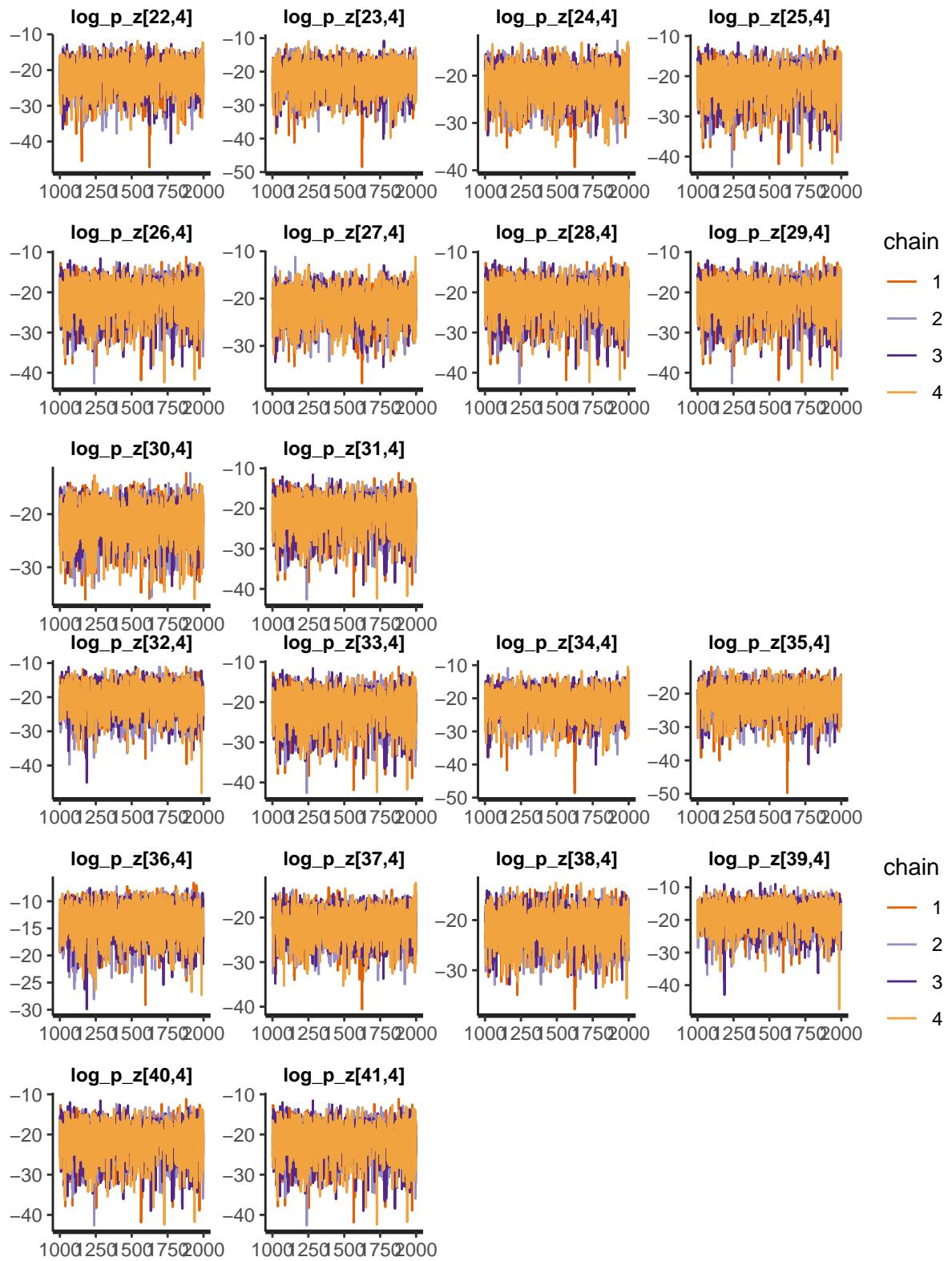


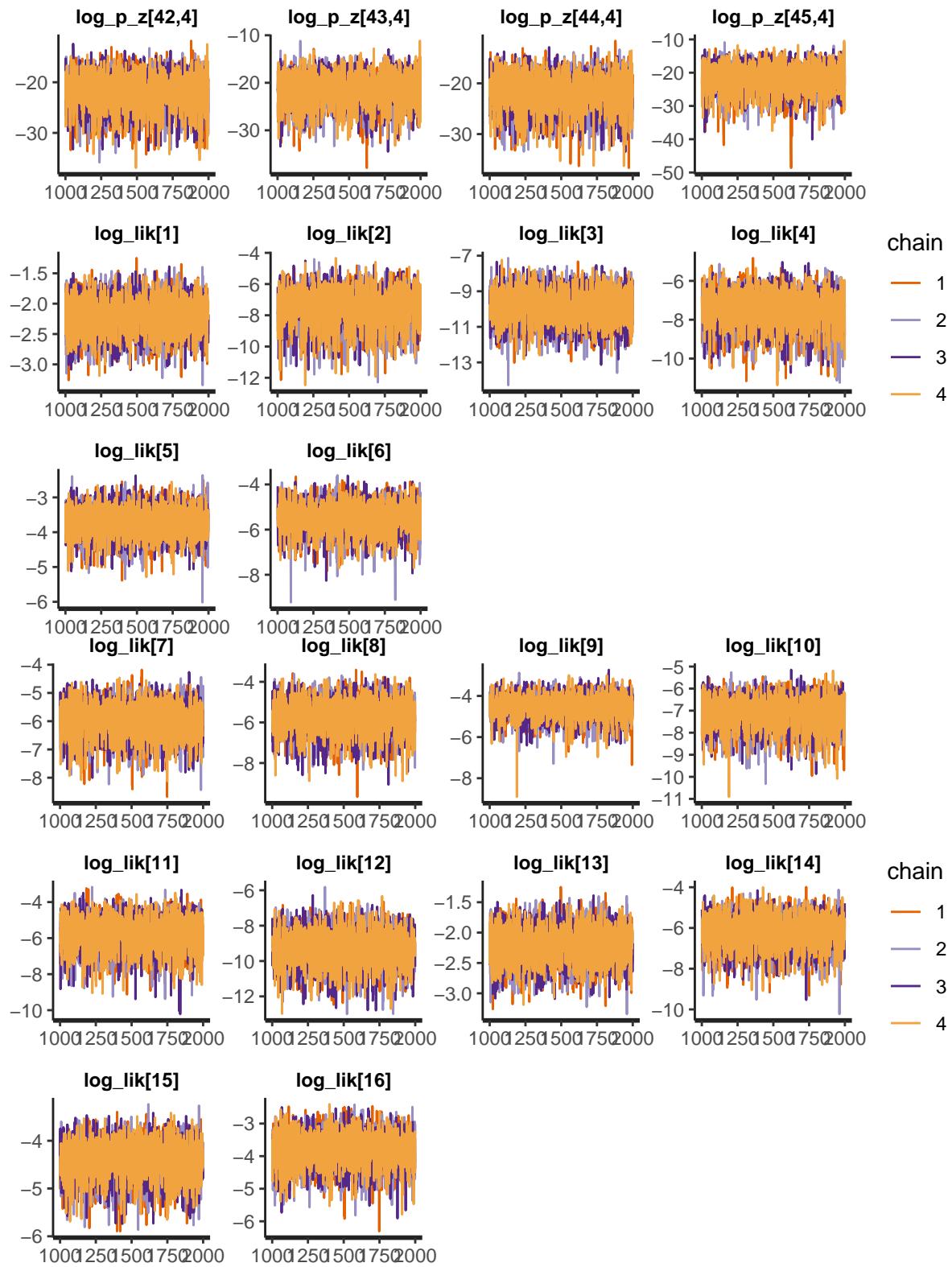


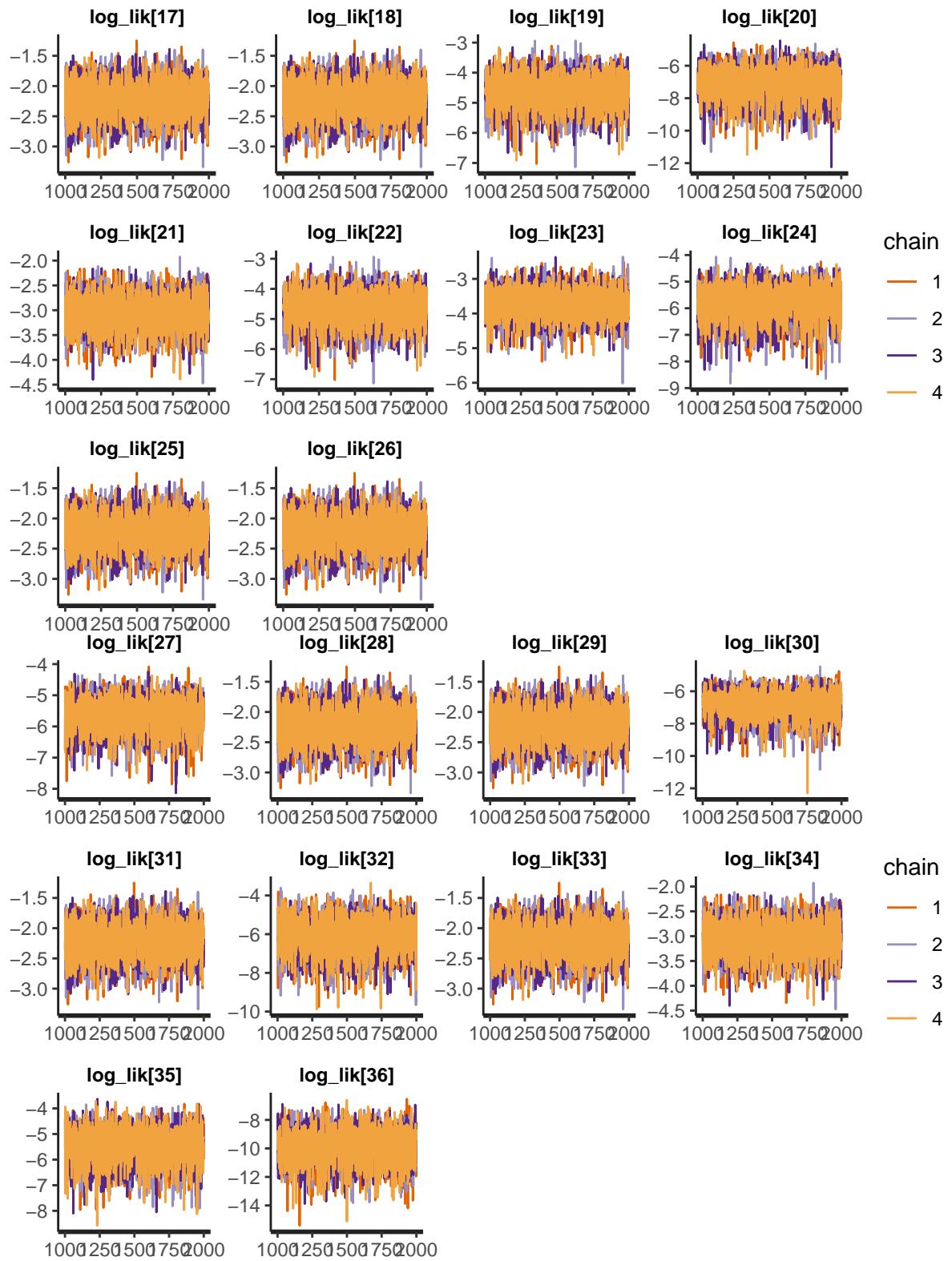


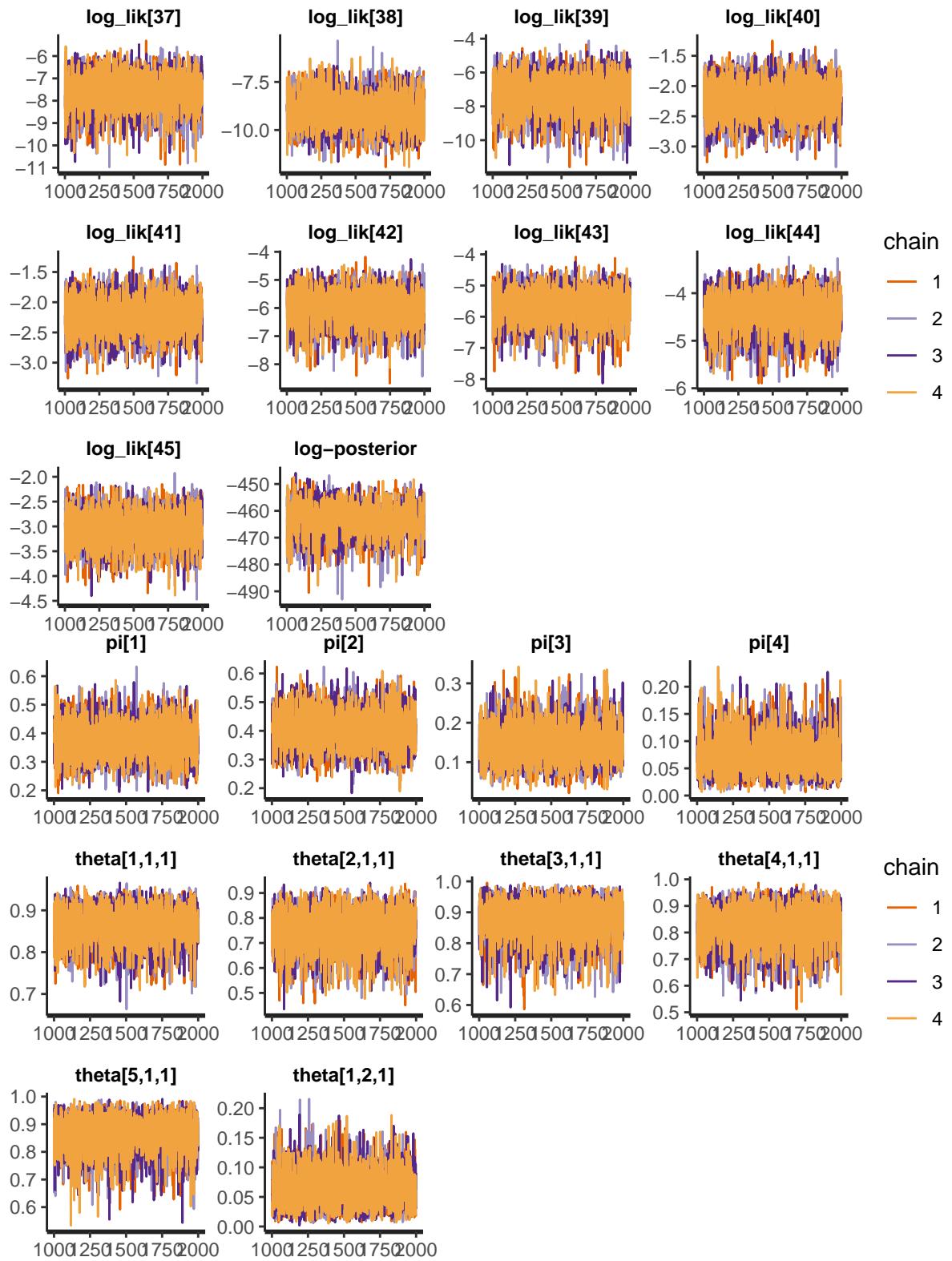


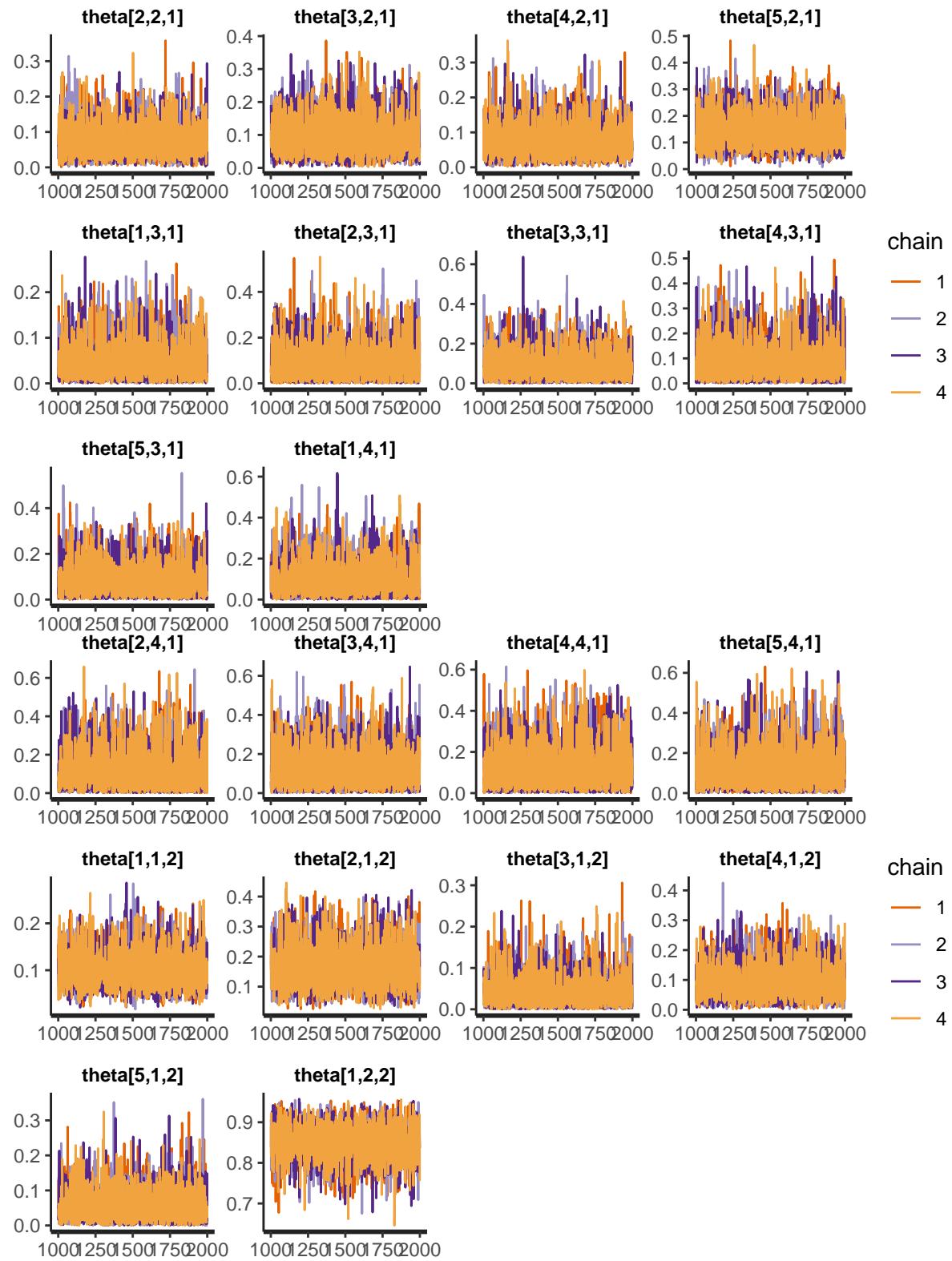


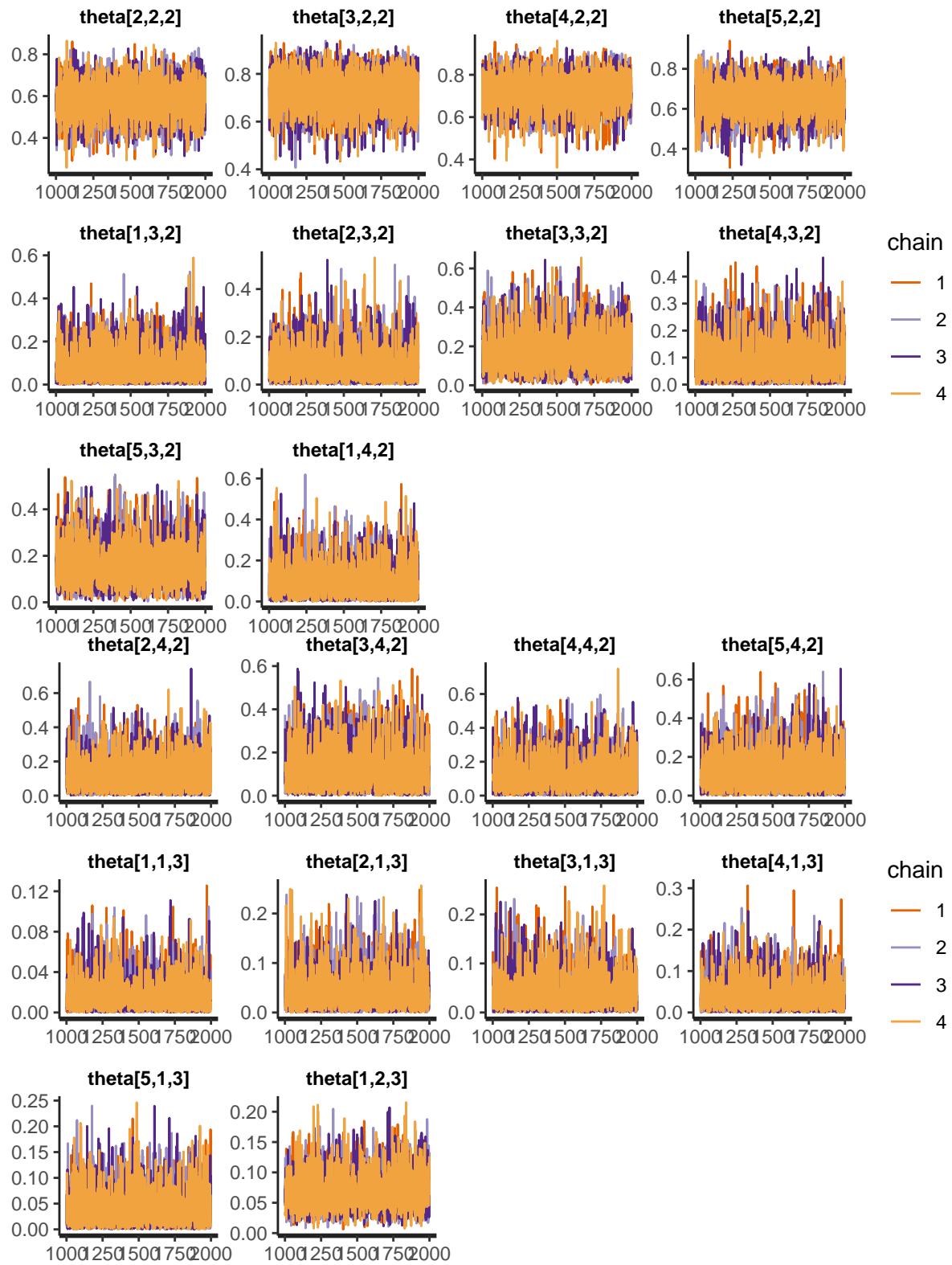


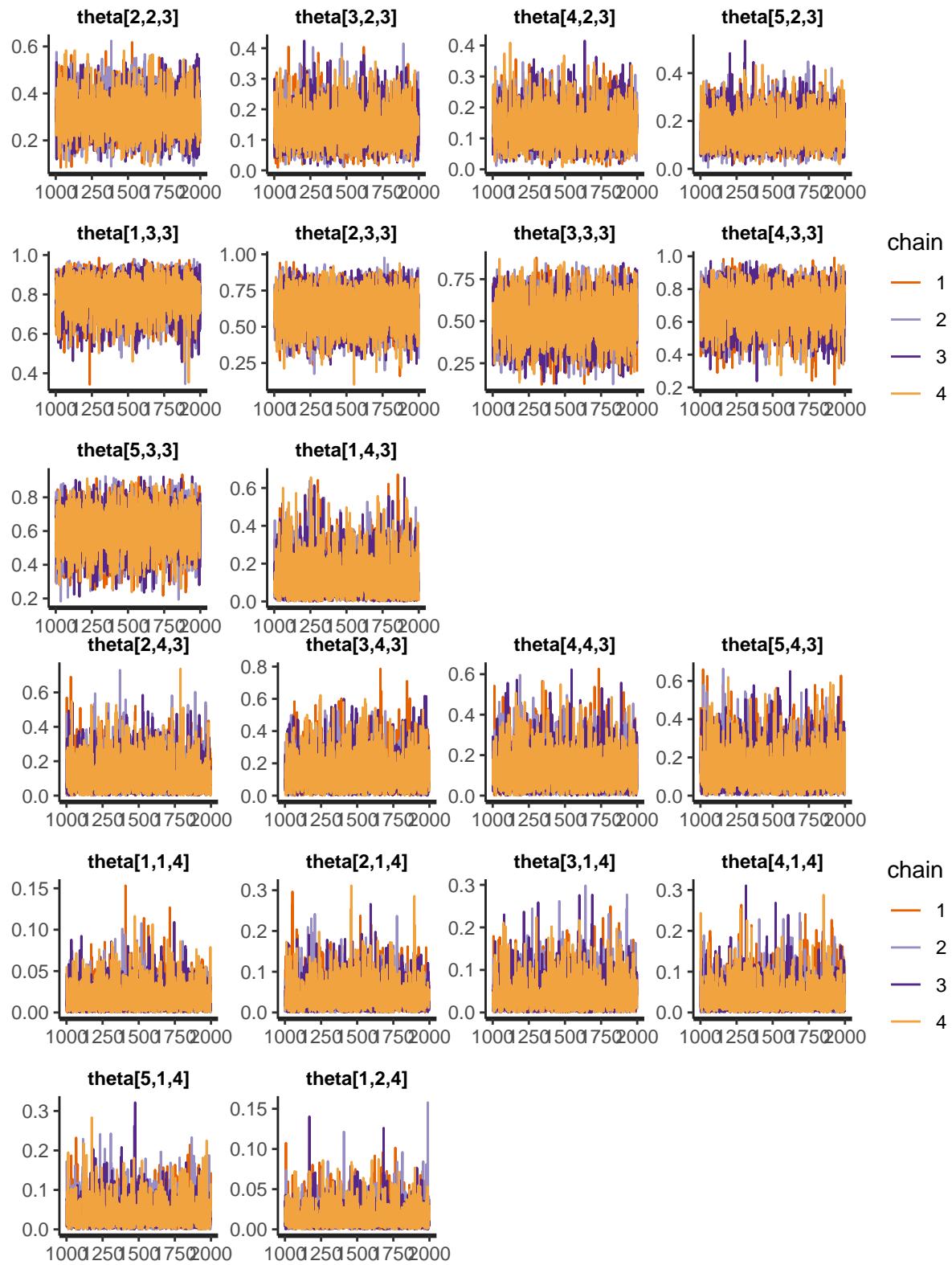


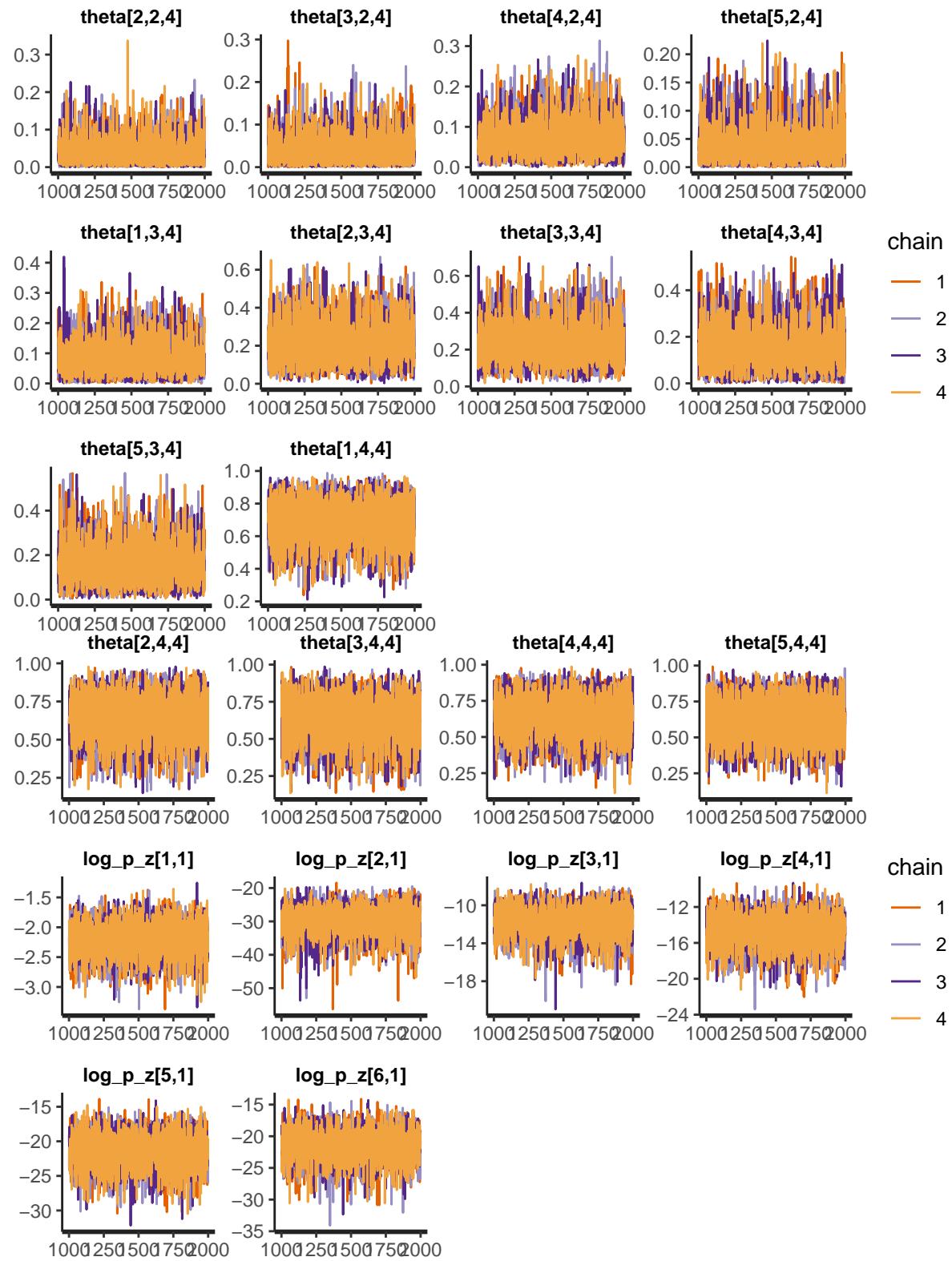


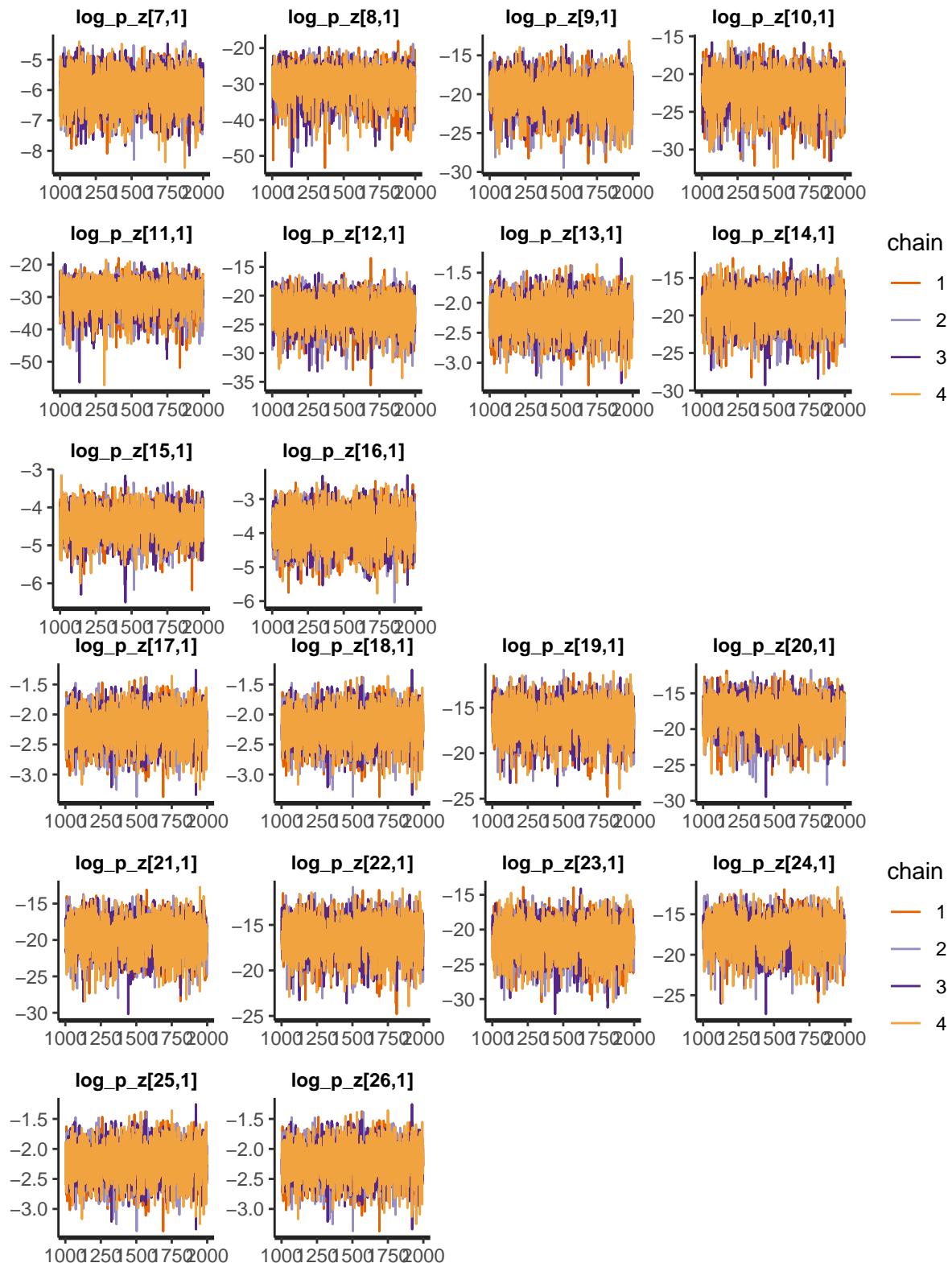


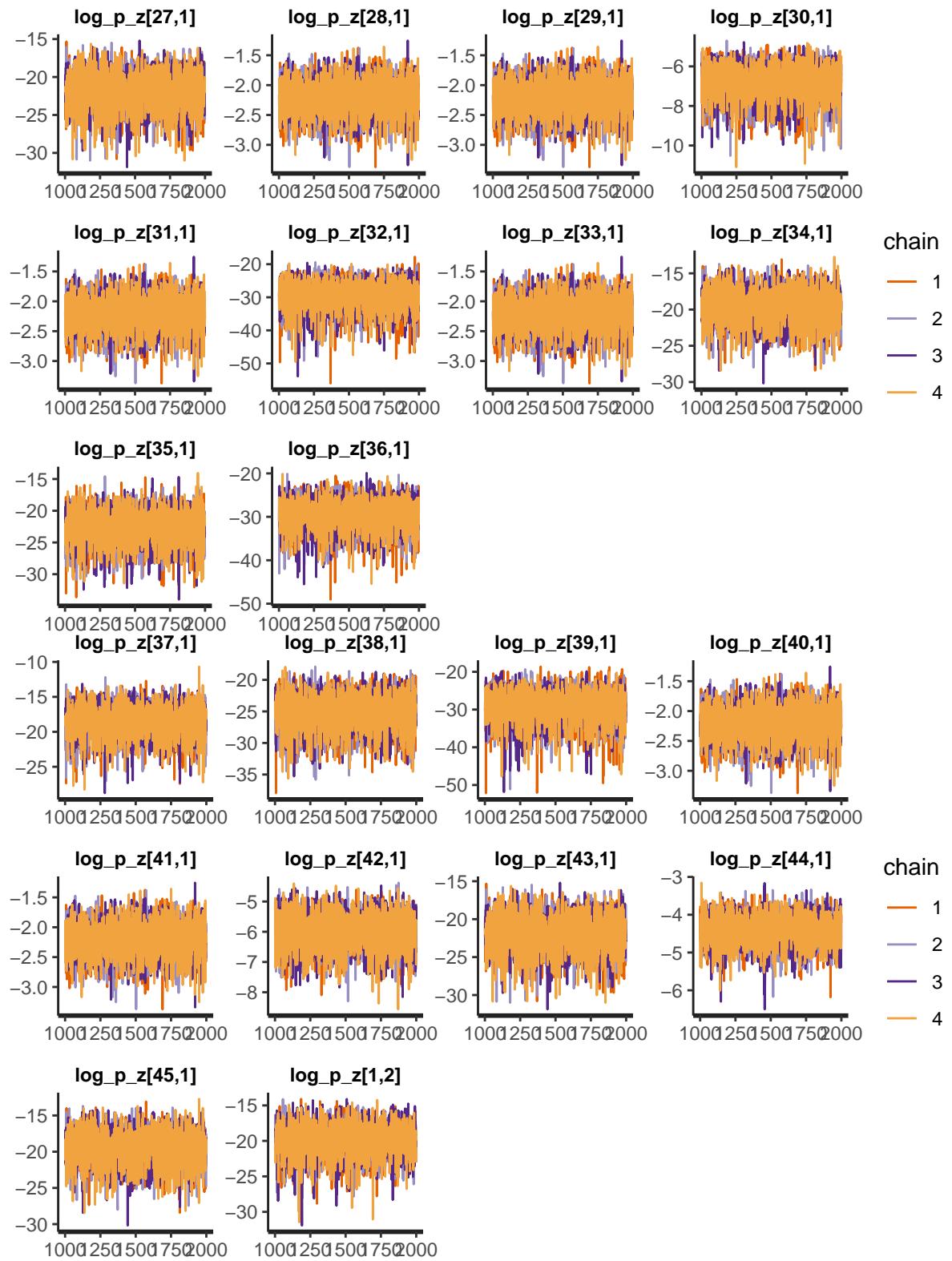


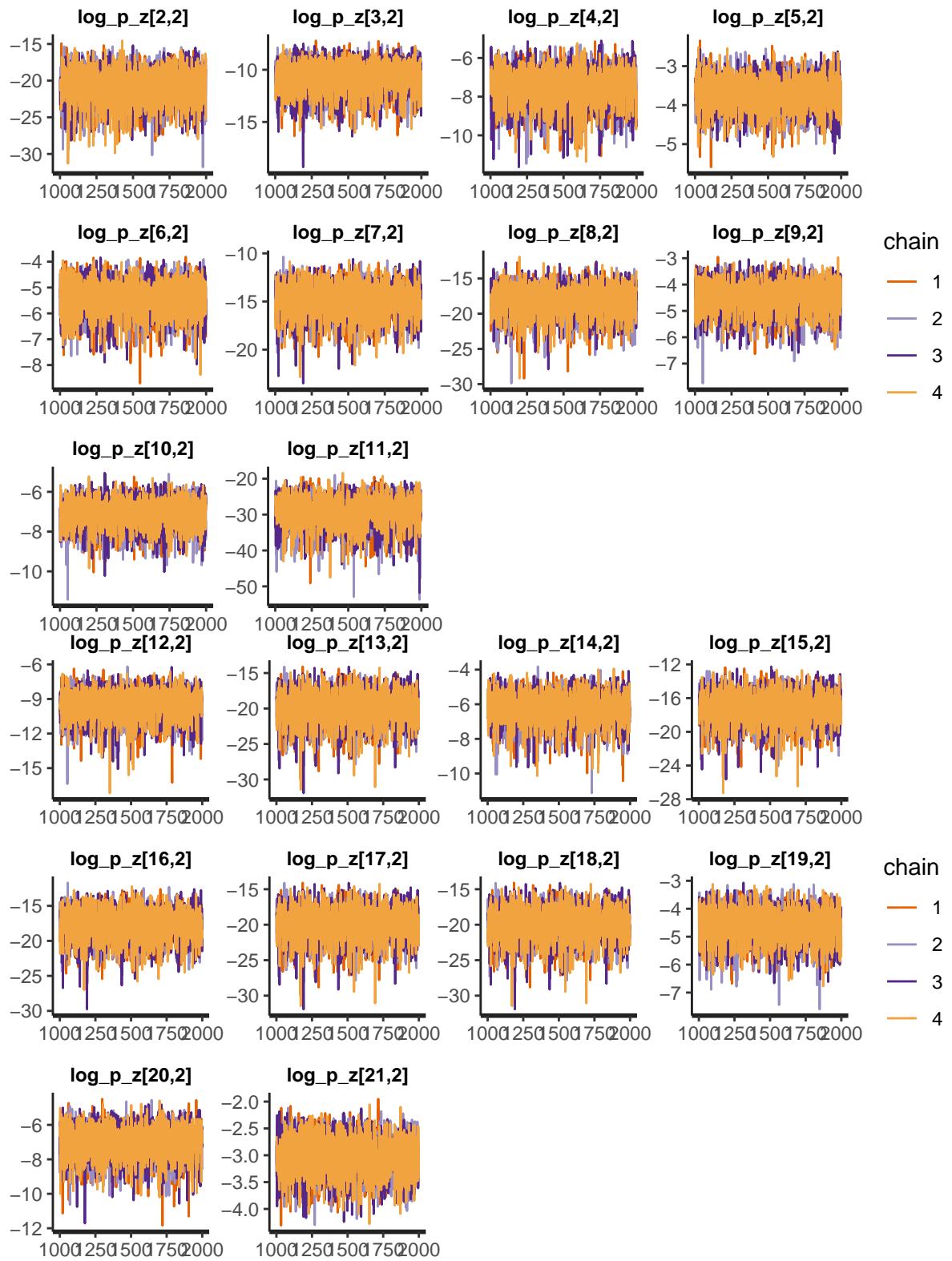


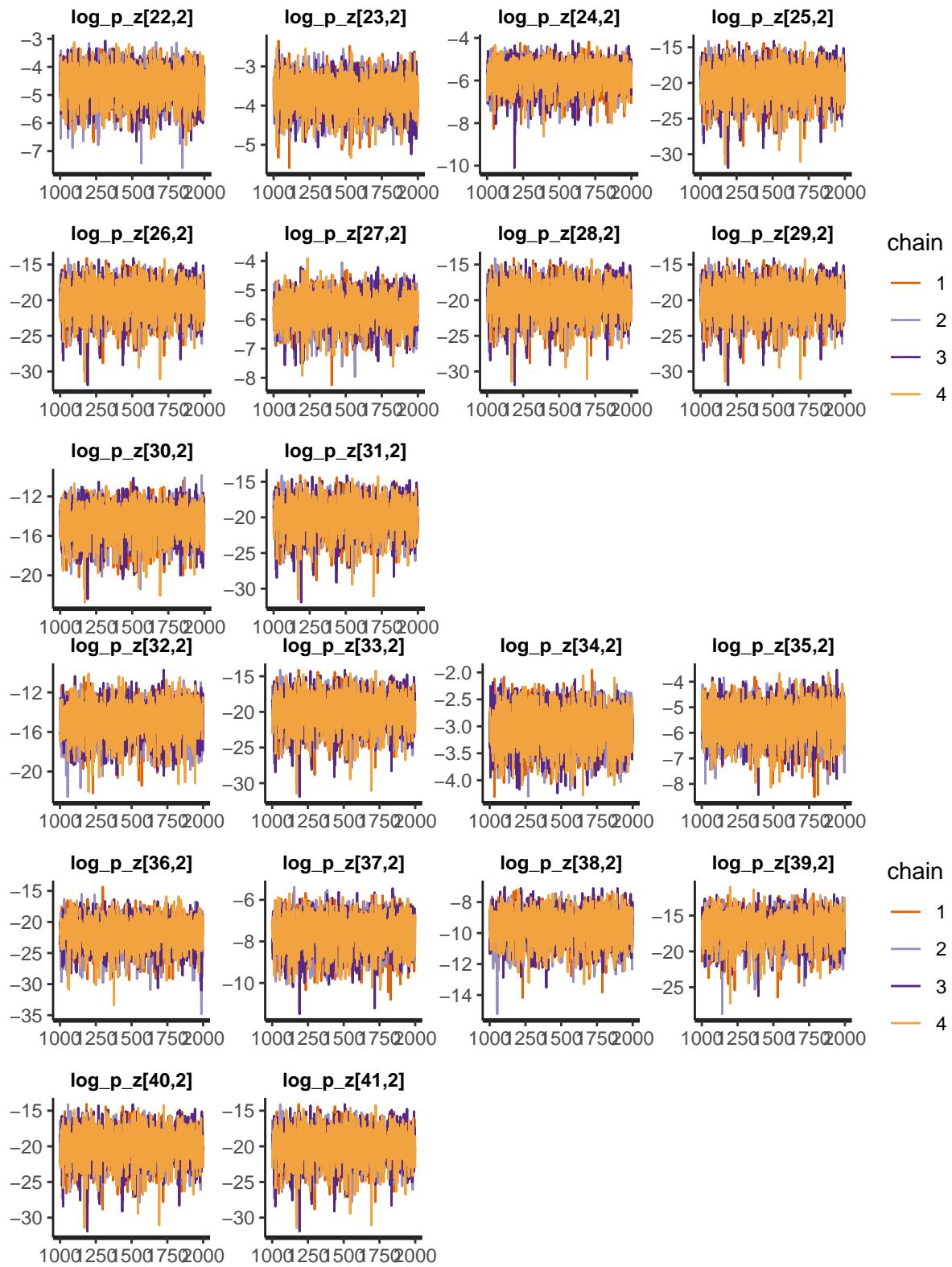


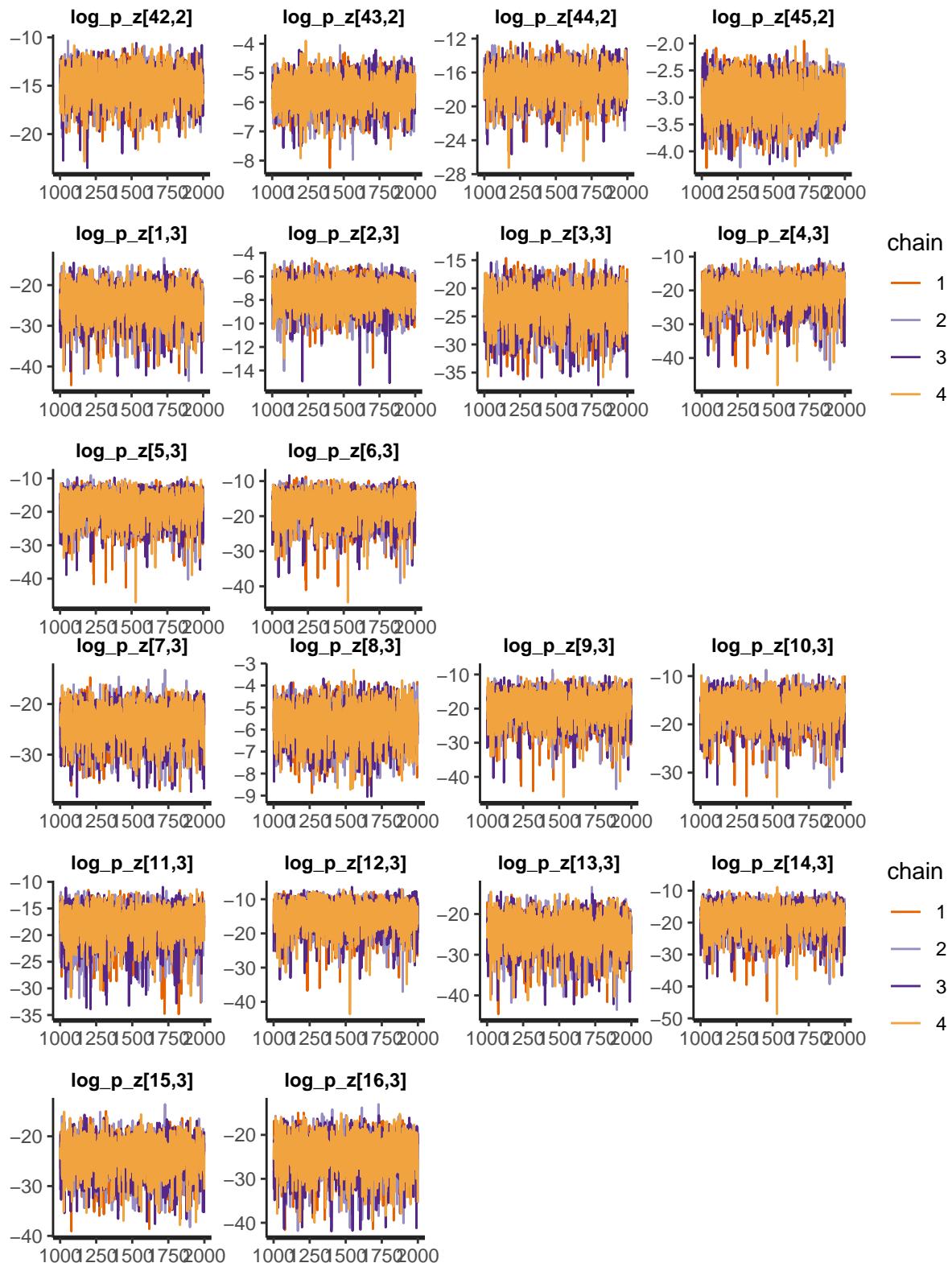


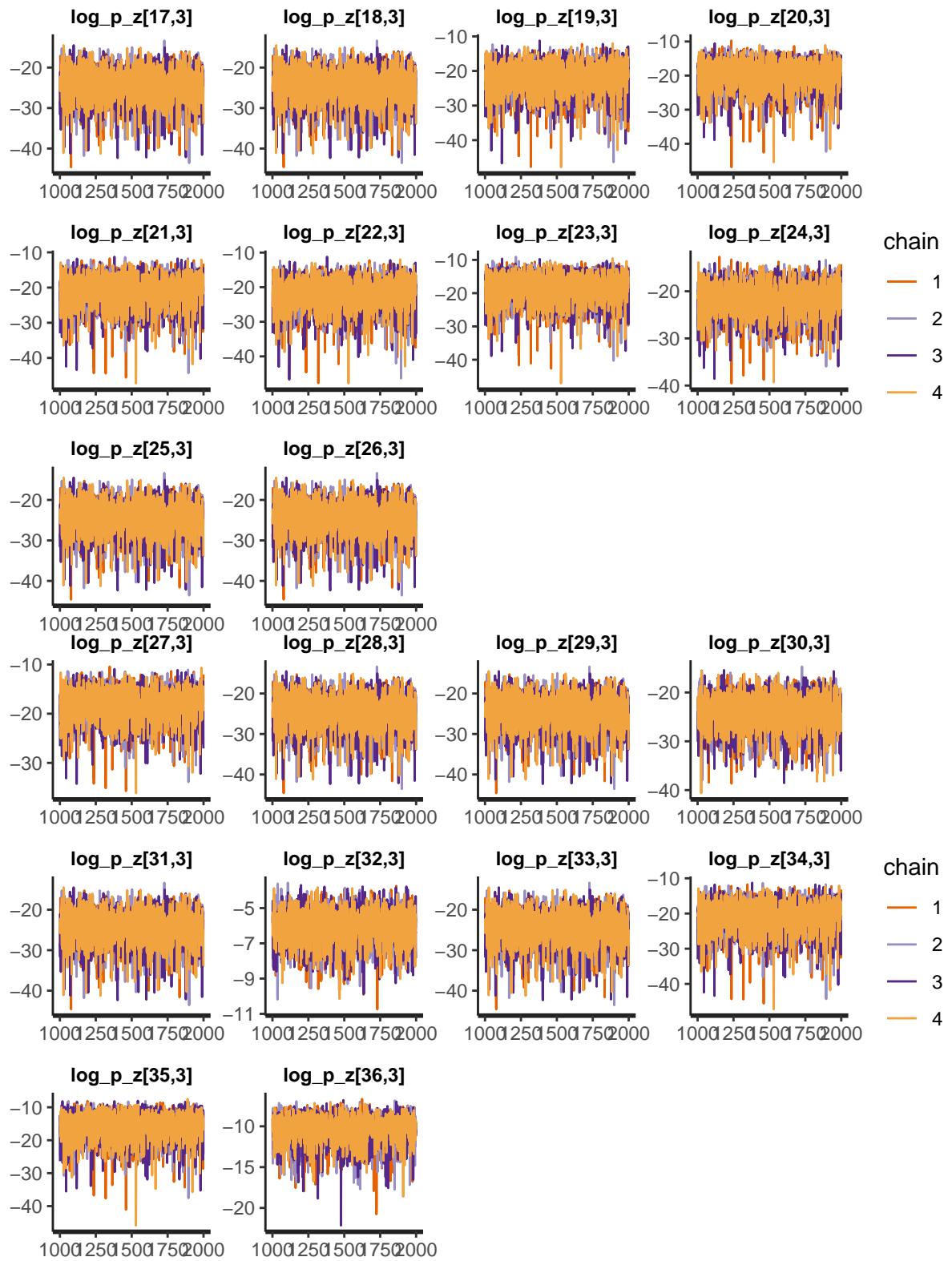


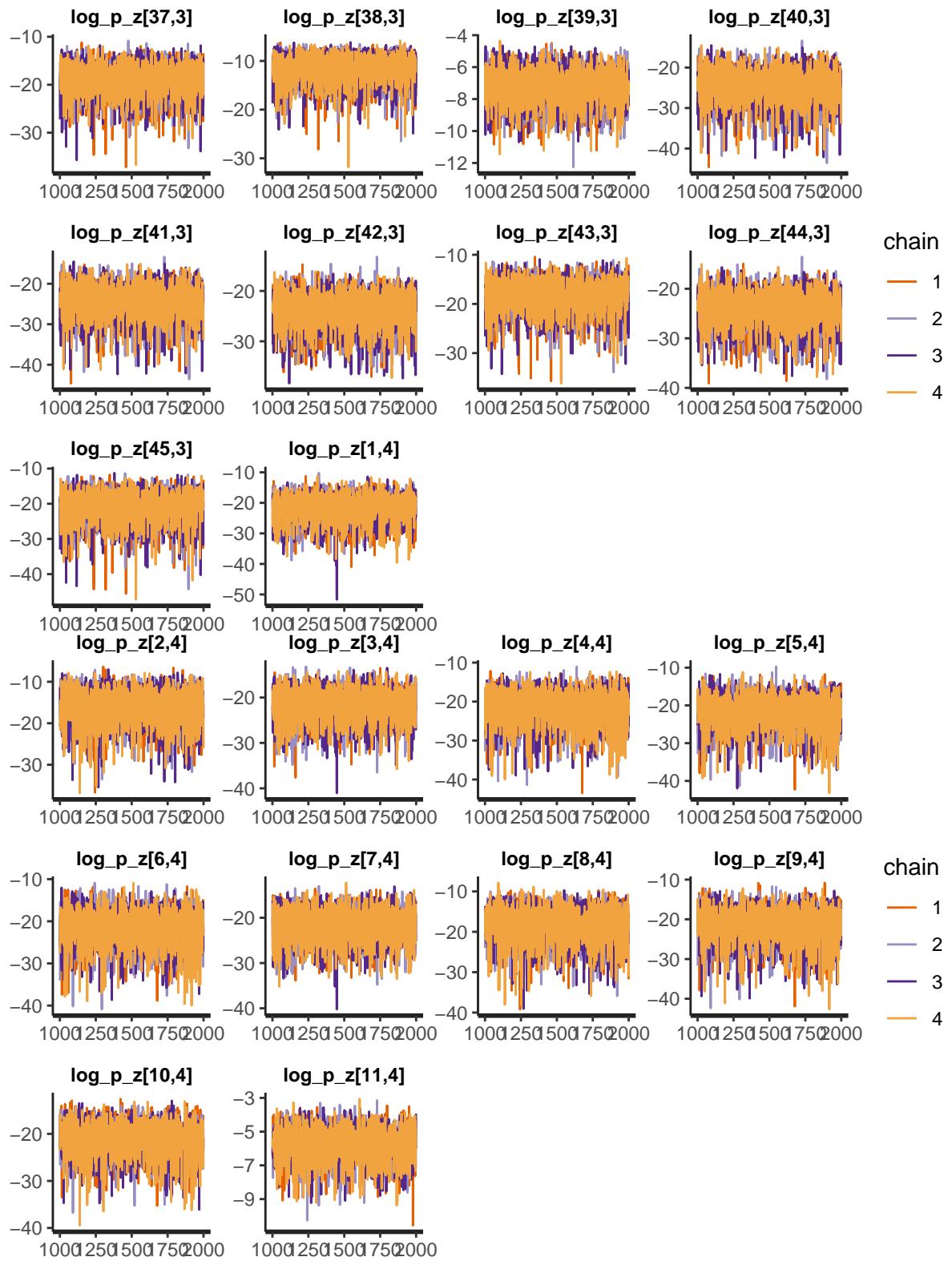


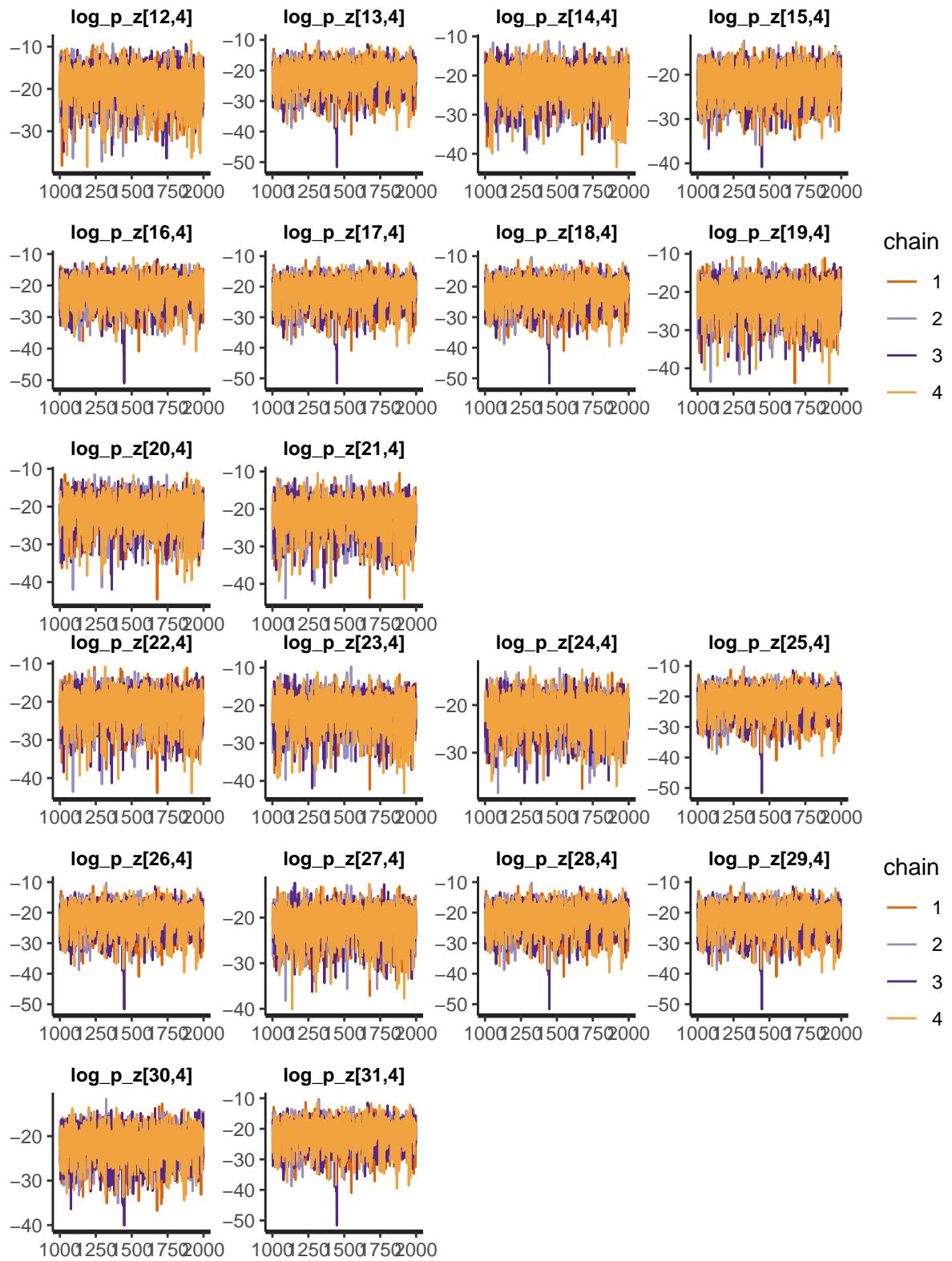


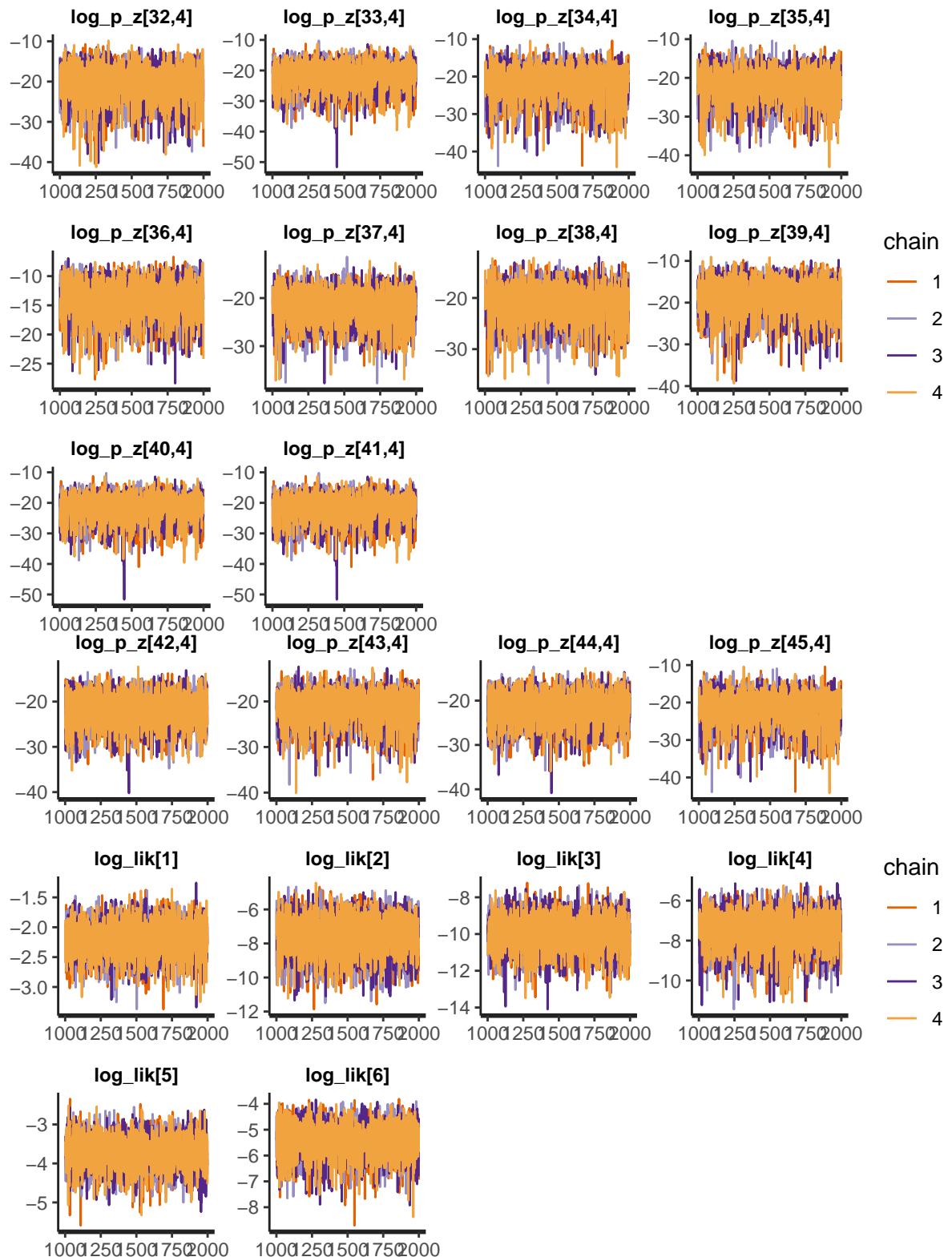


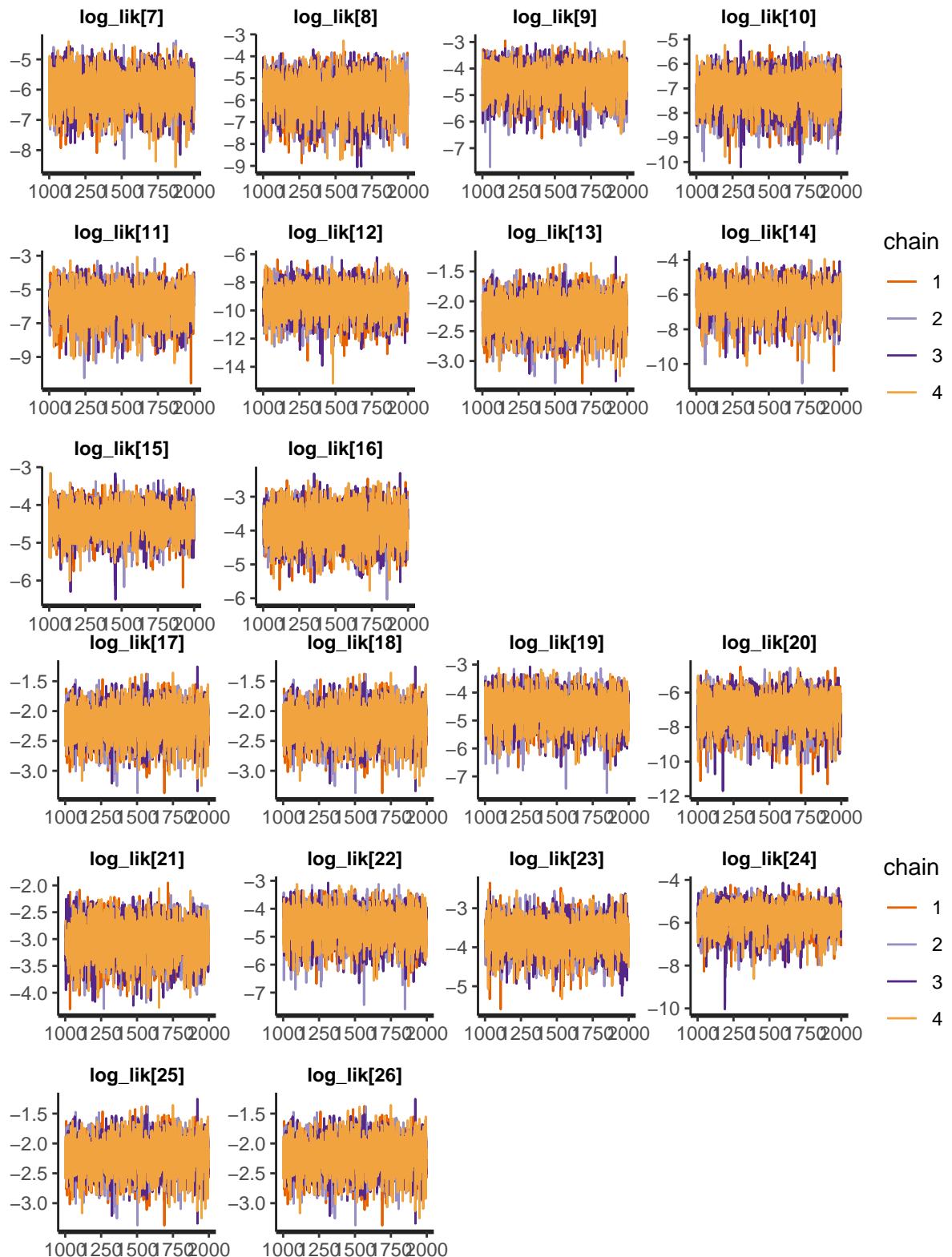


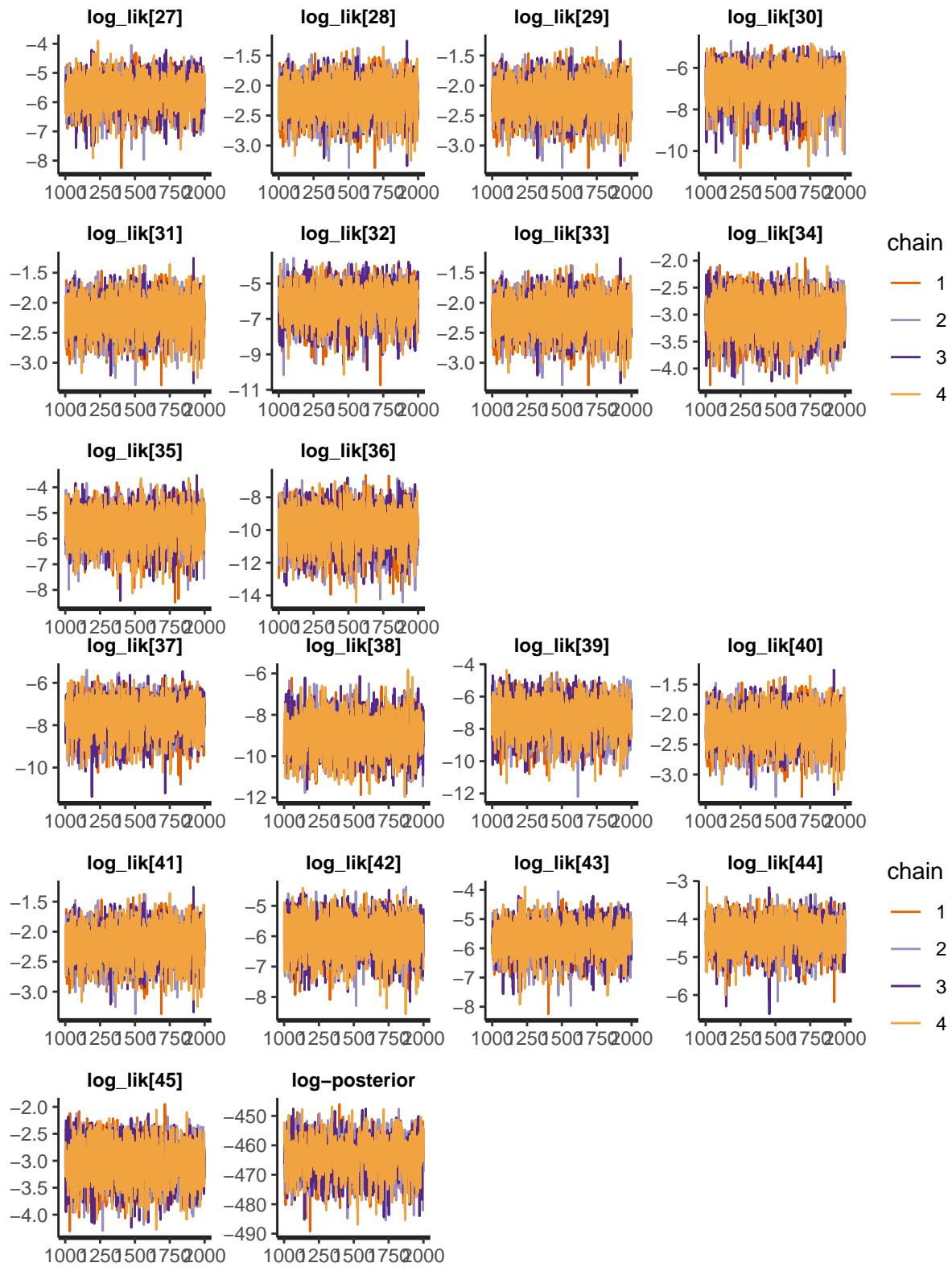




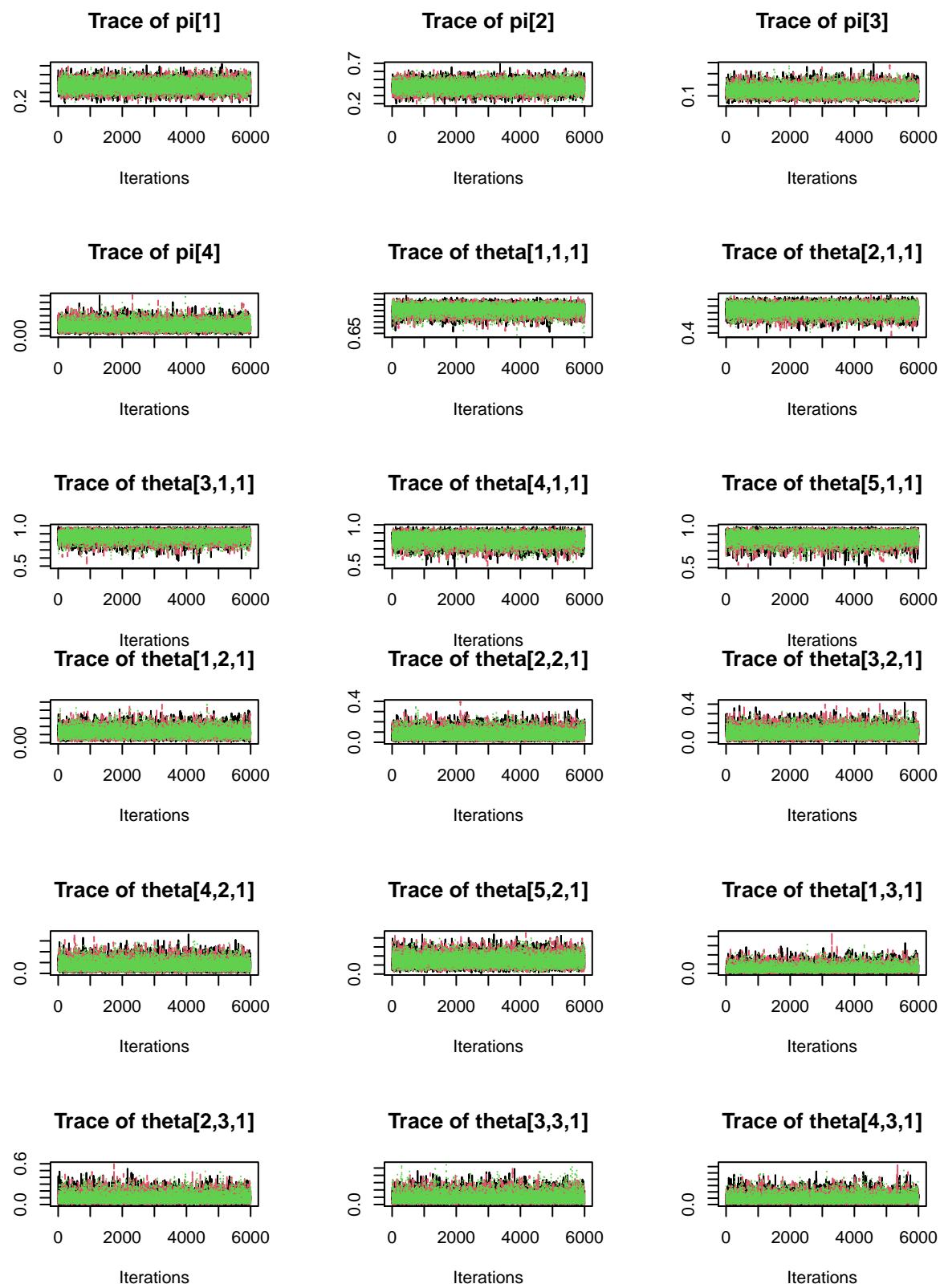


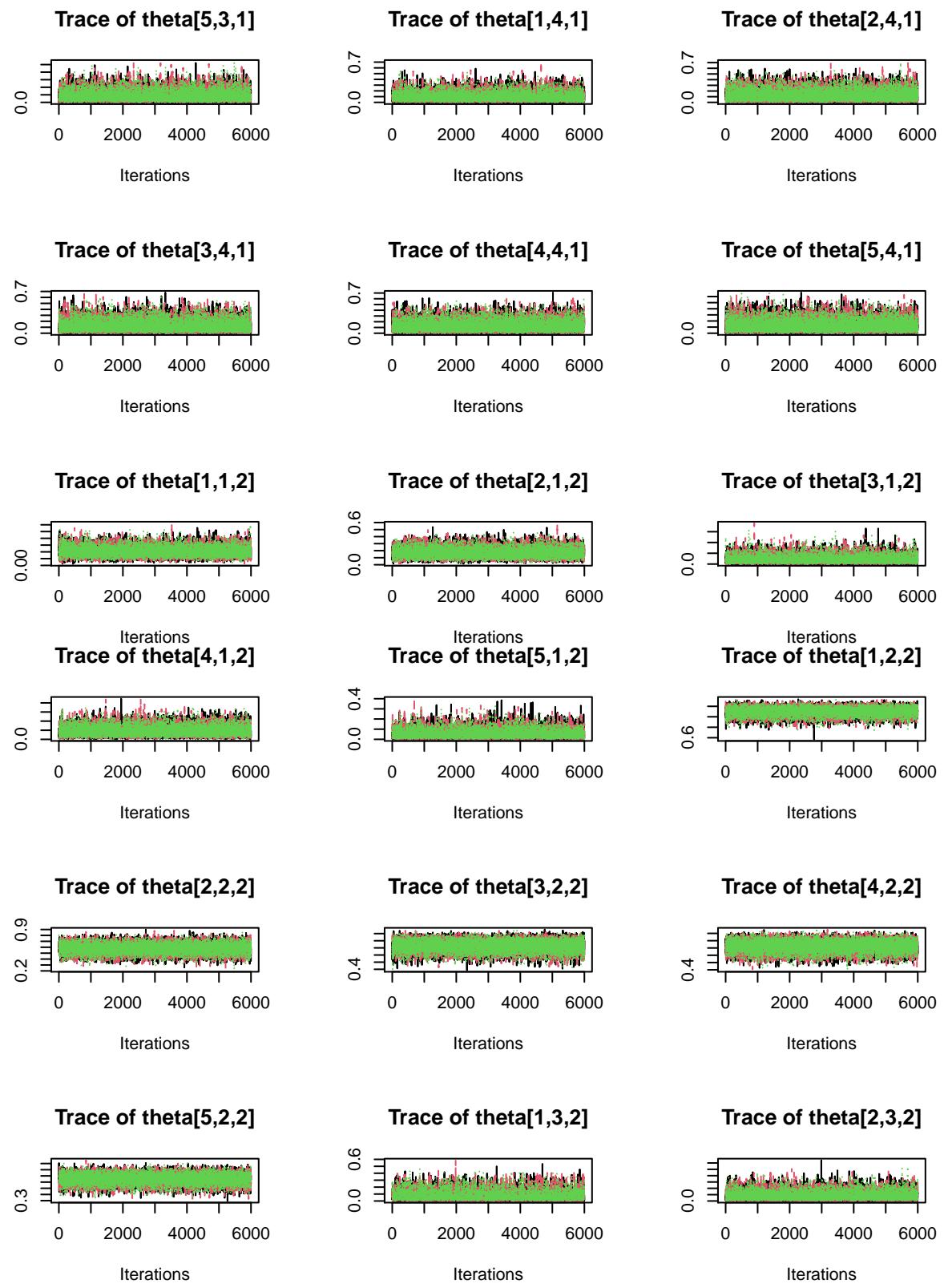


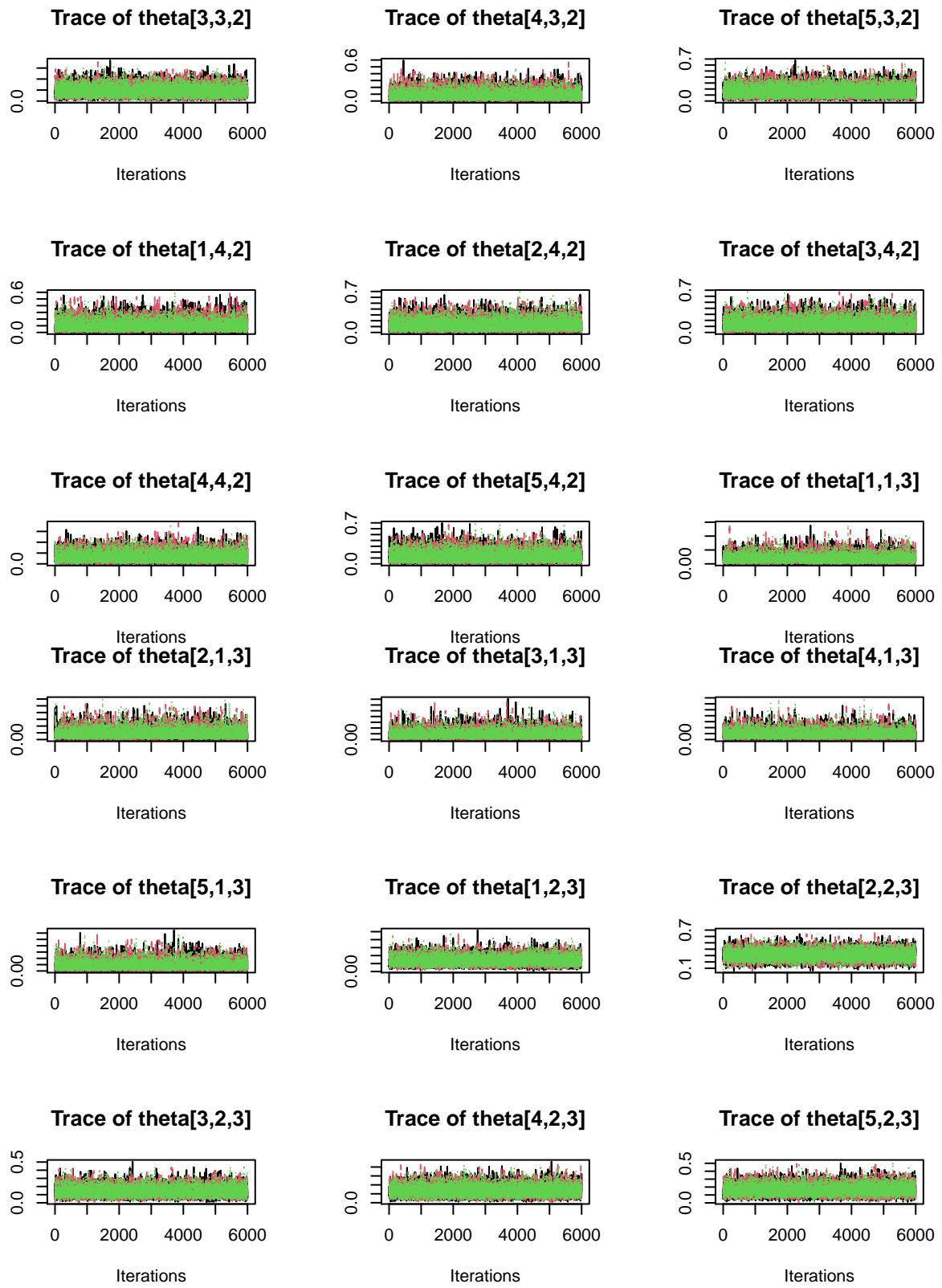


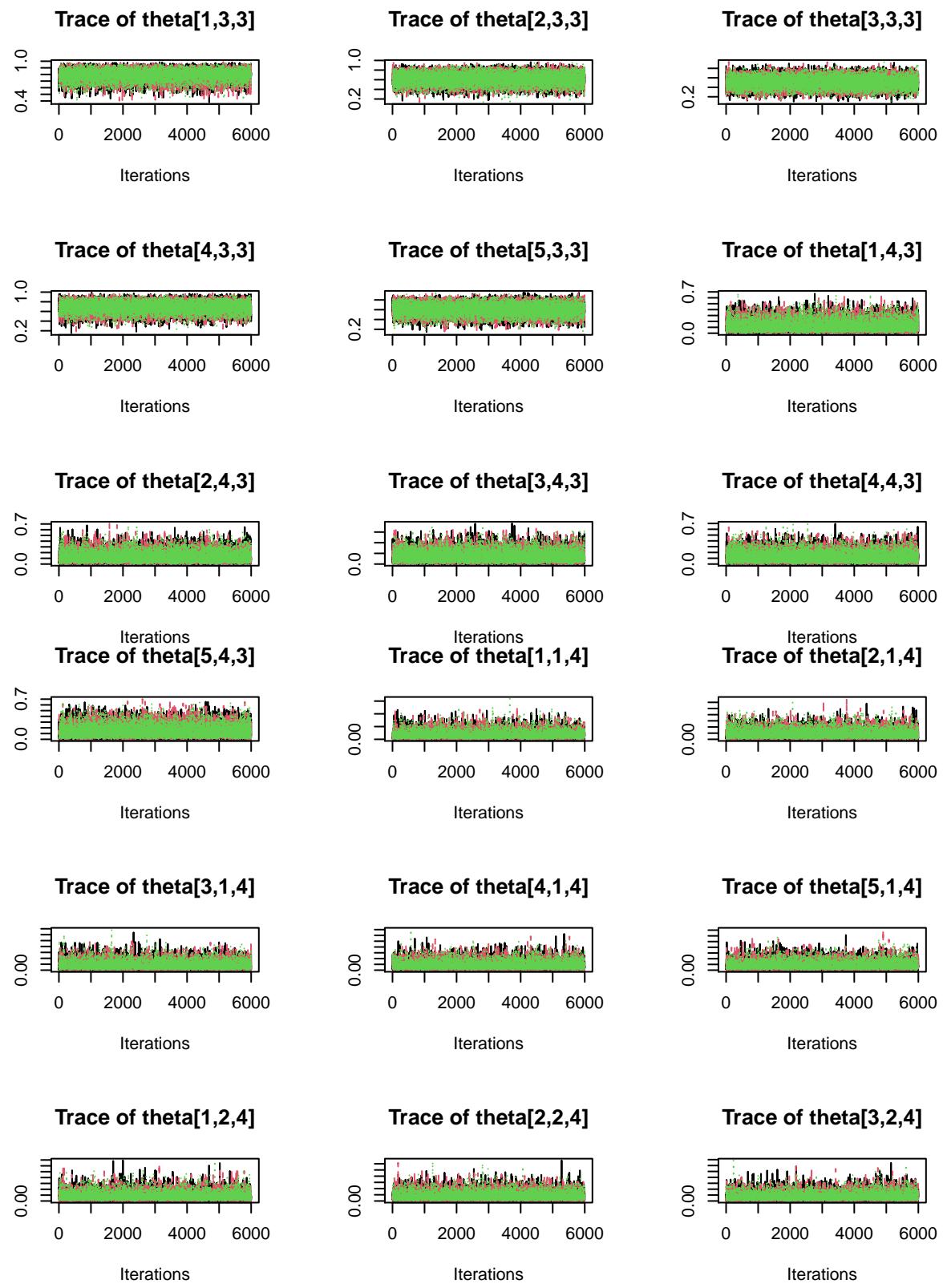


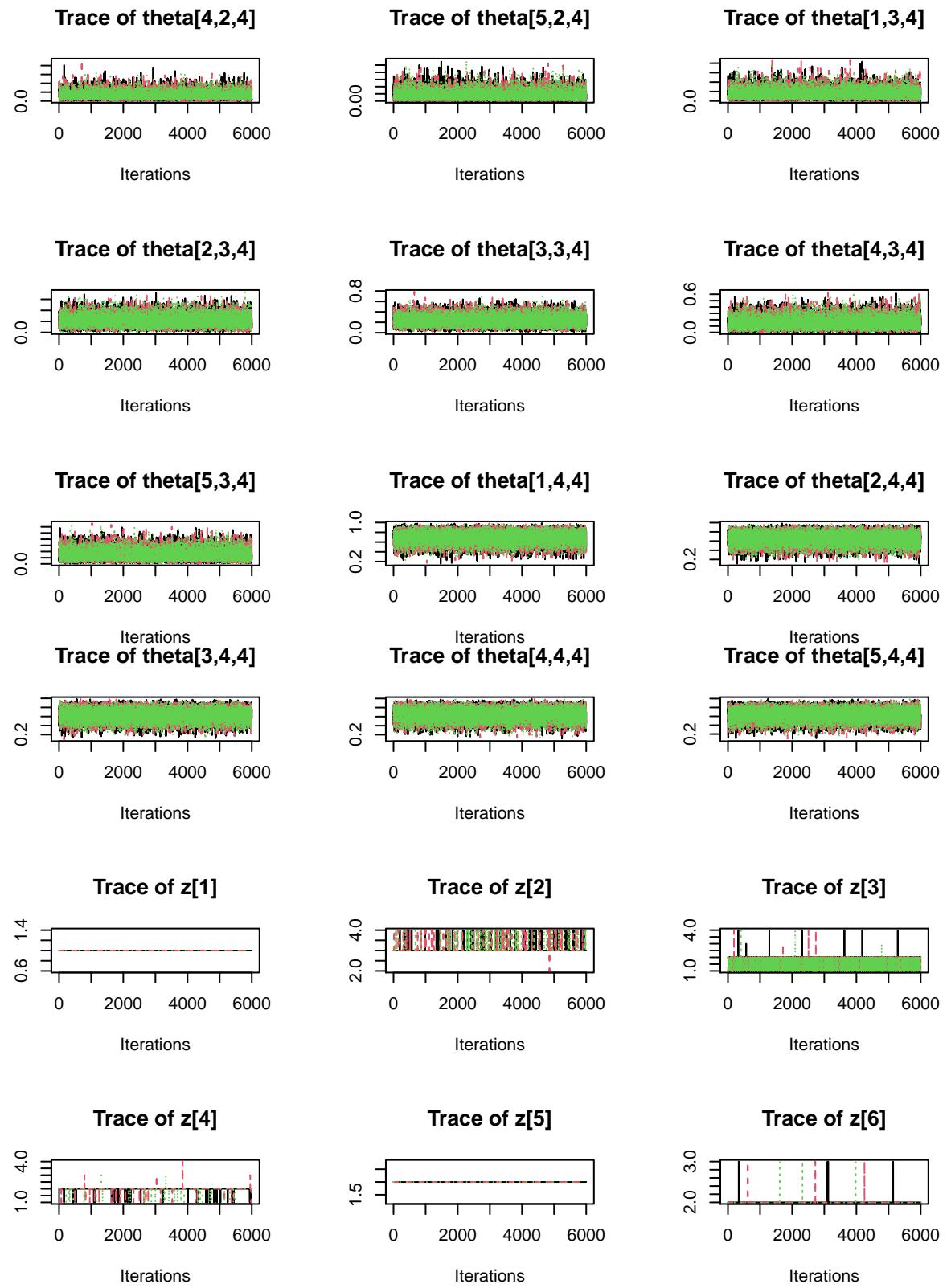
Traceplot for JAGS

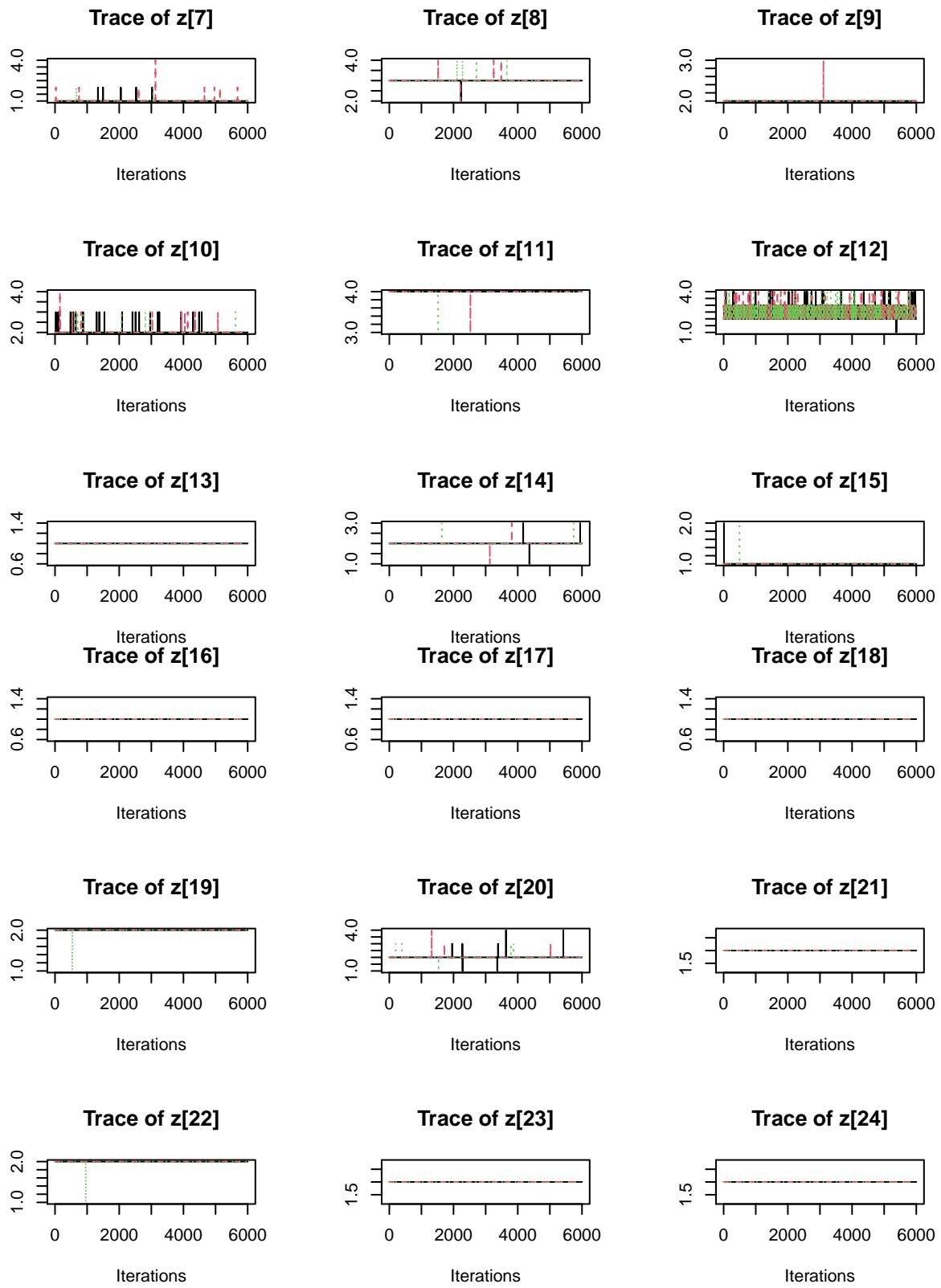


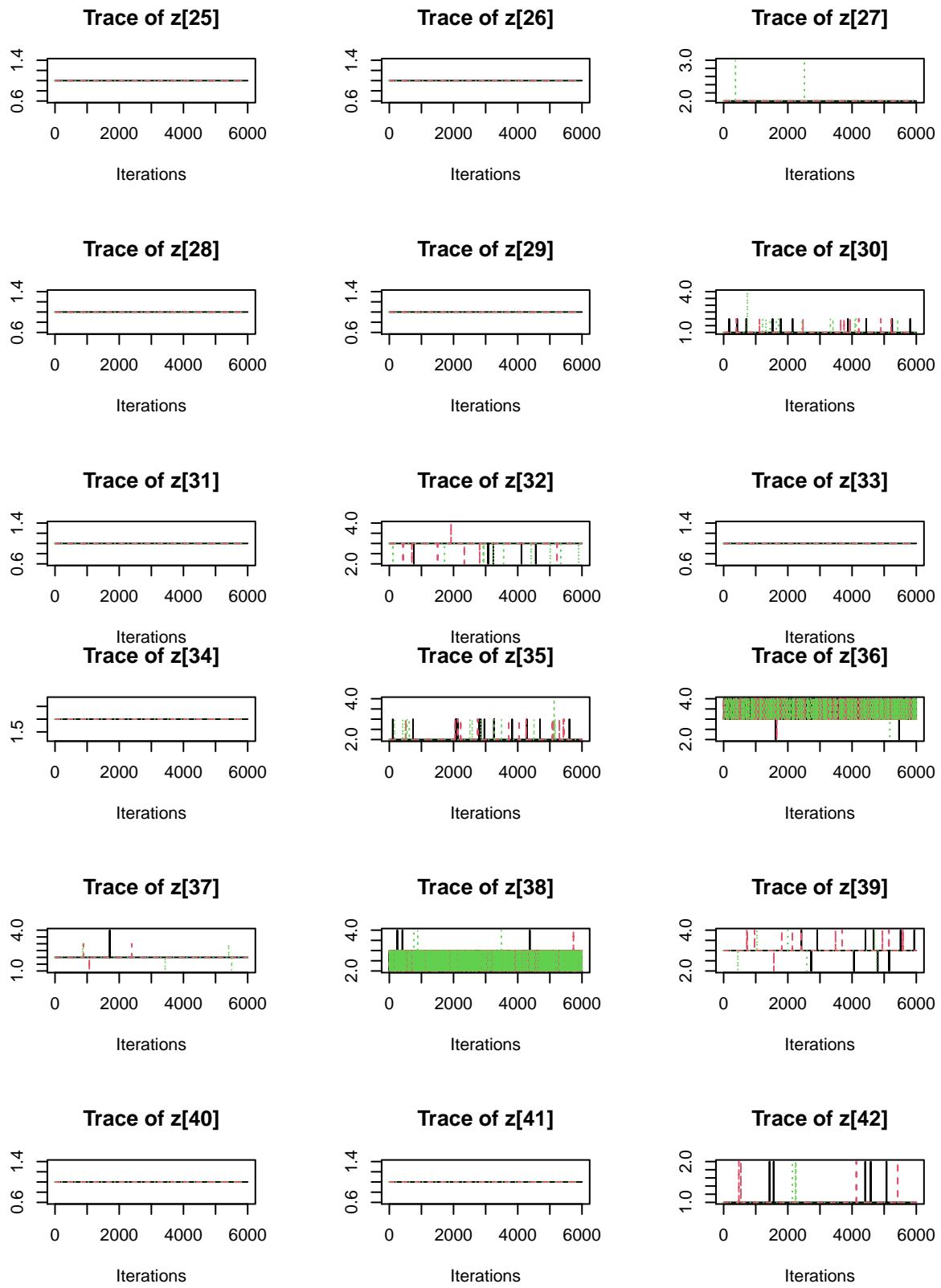


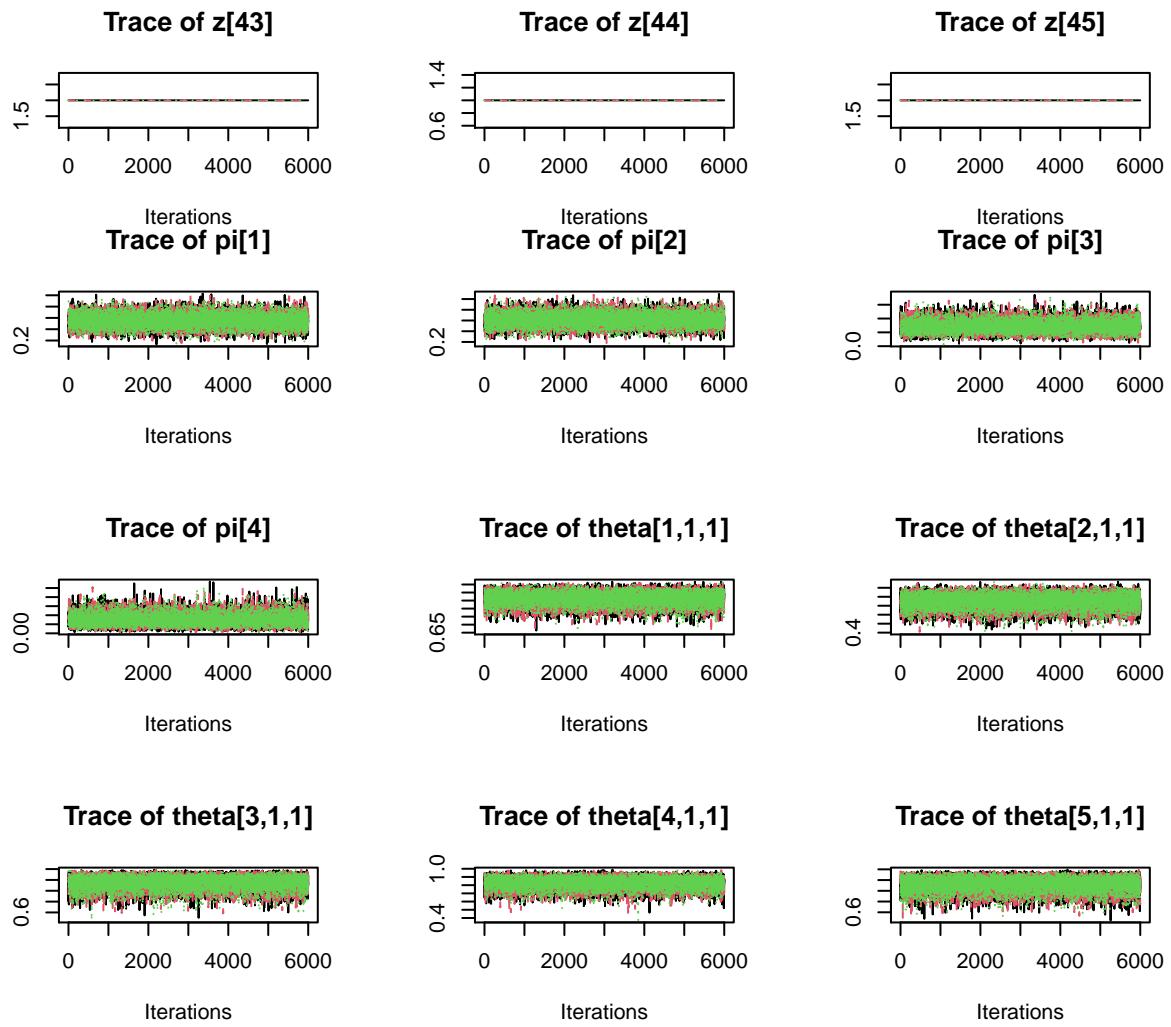


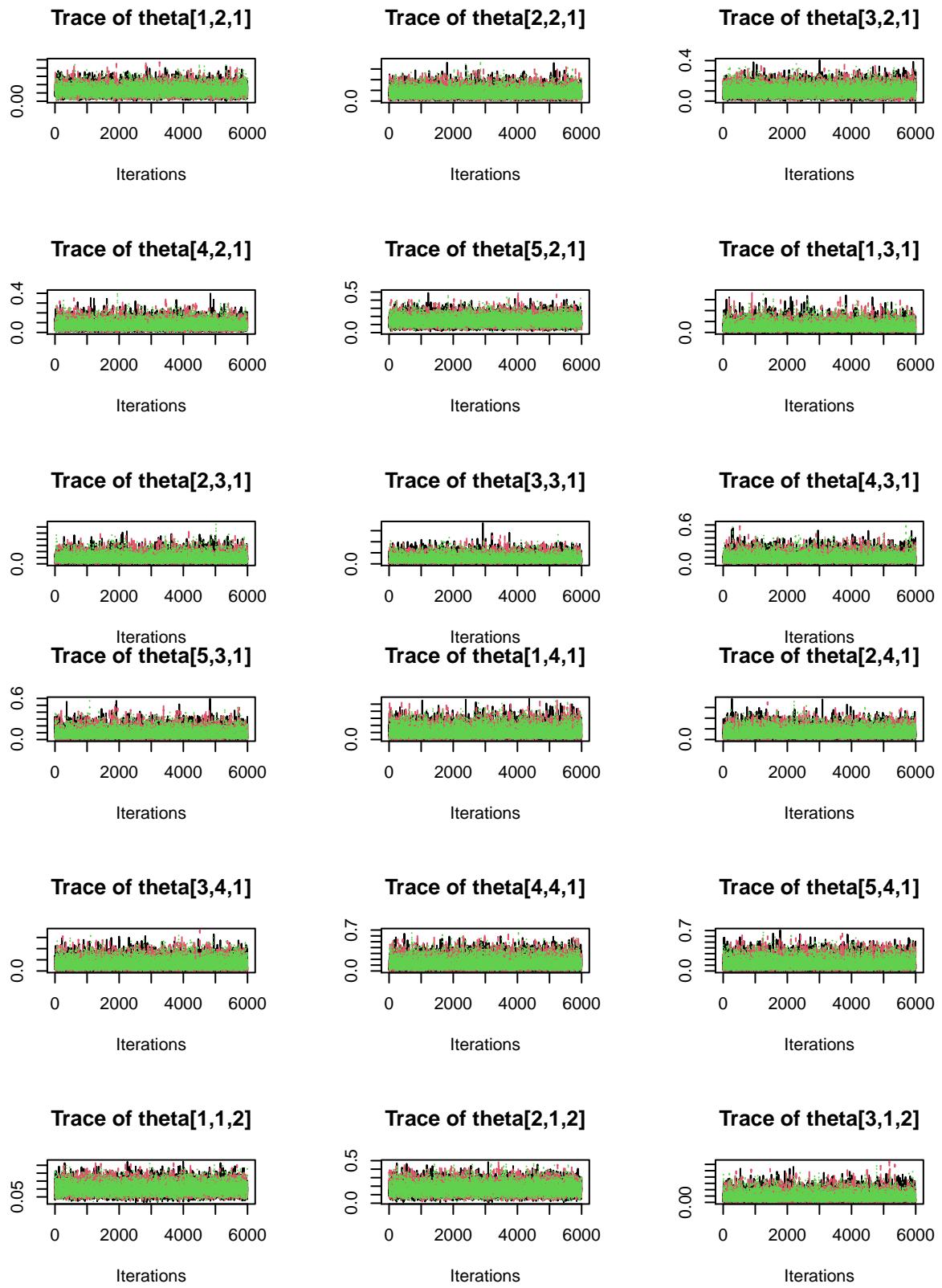


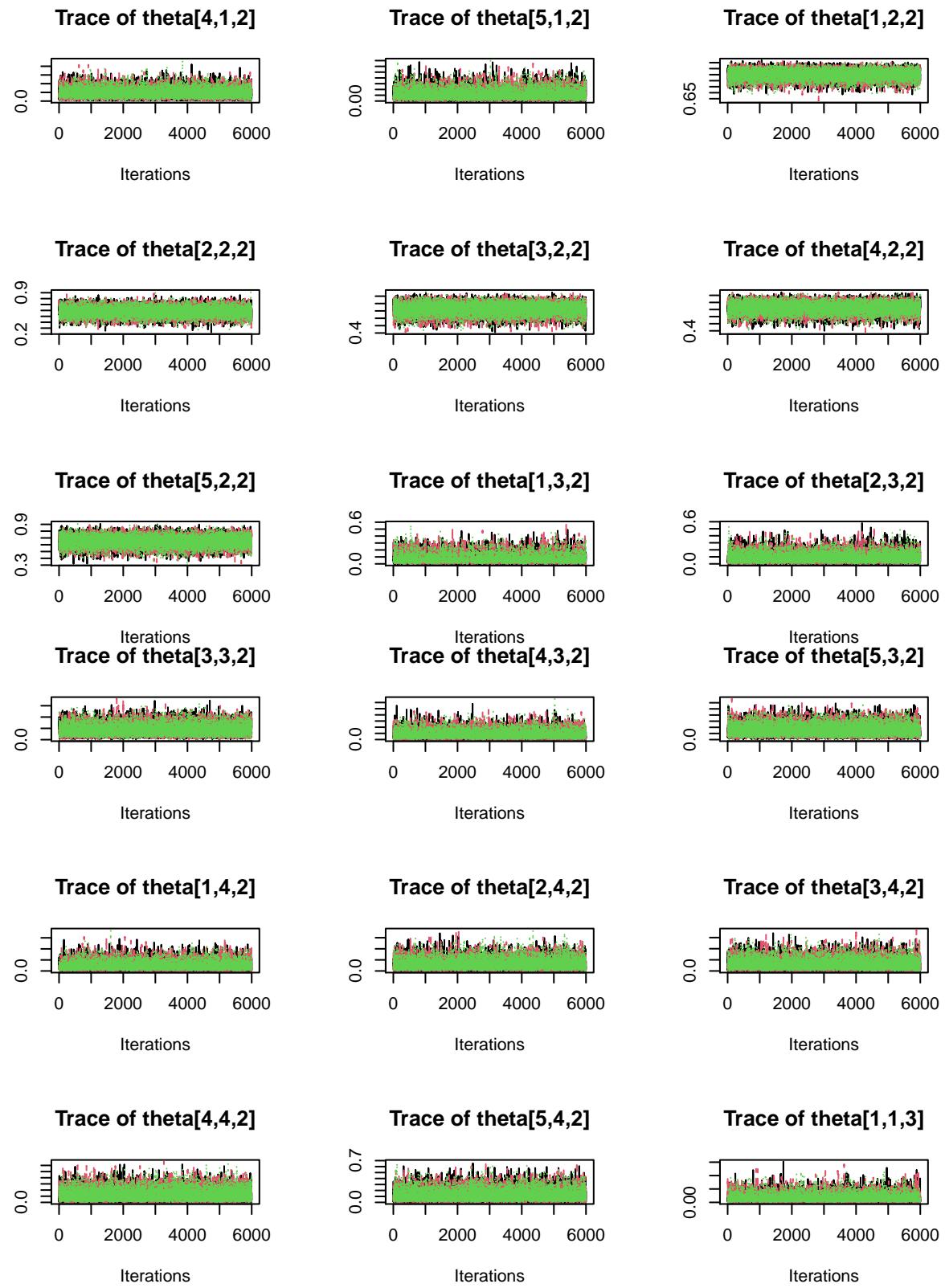


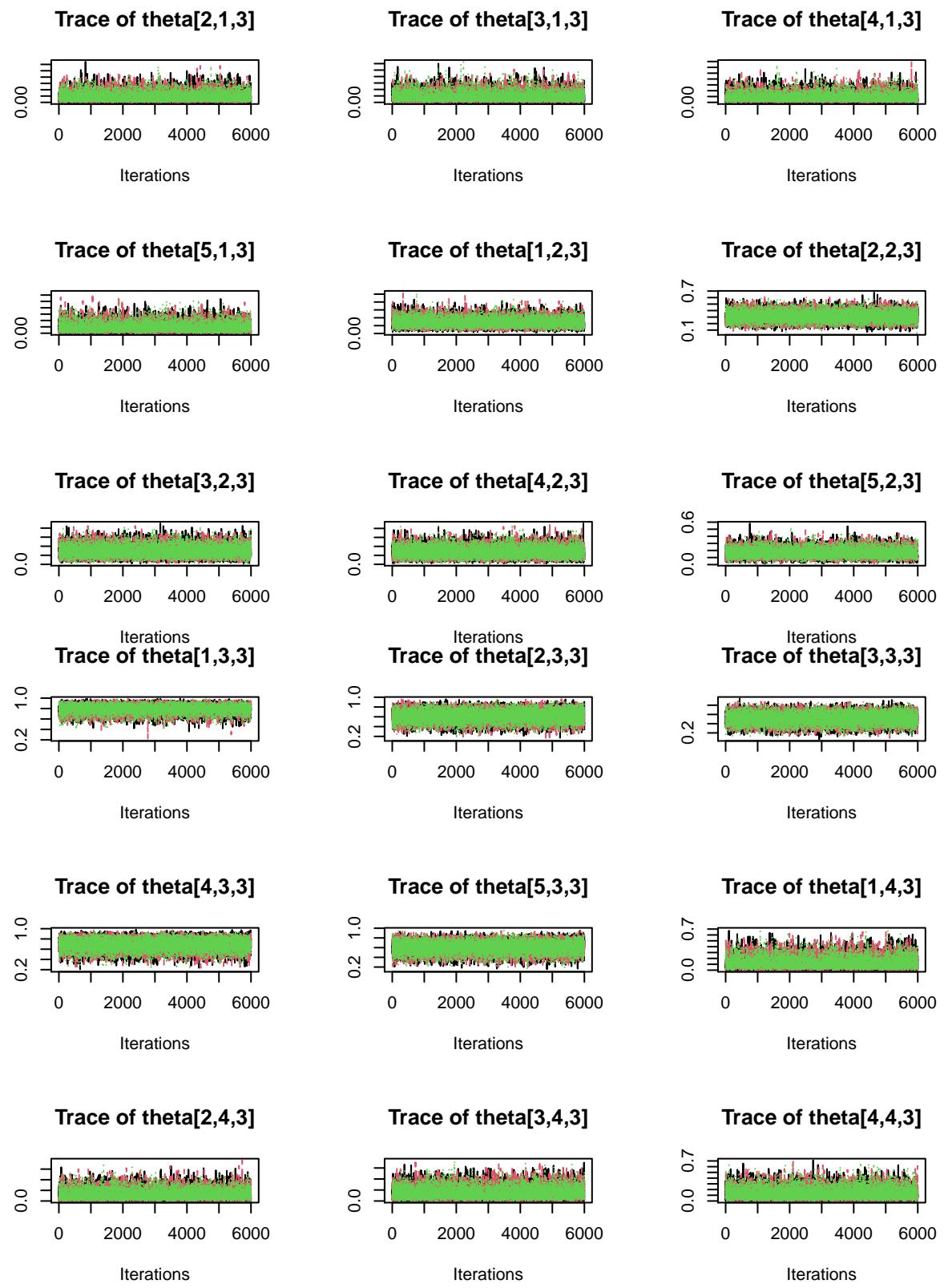


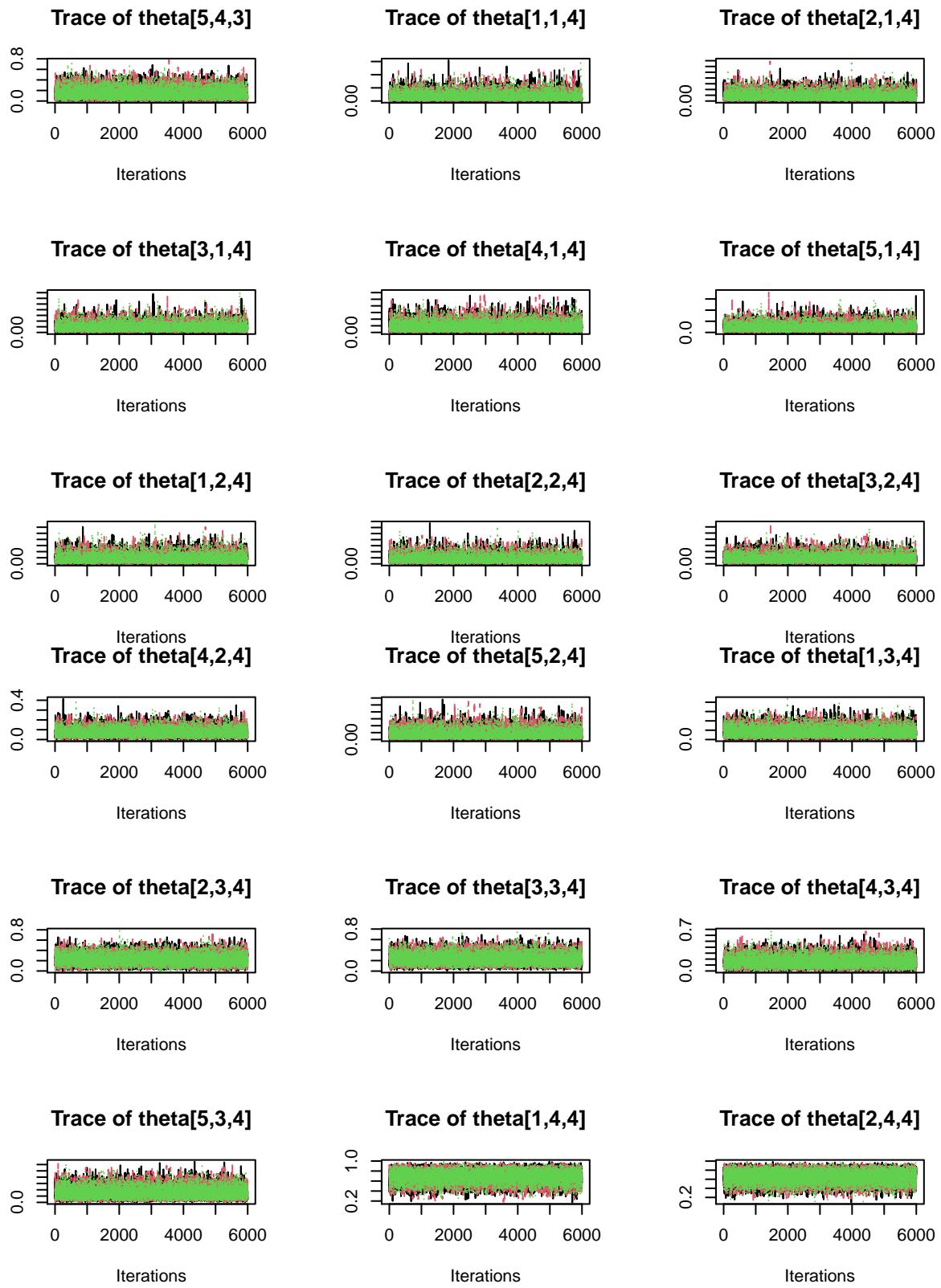


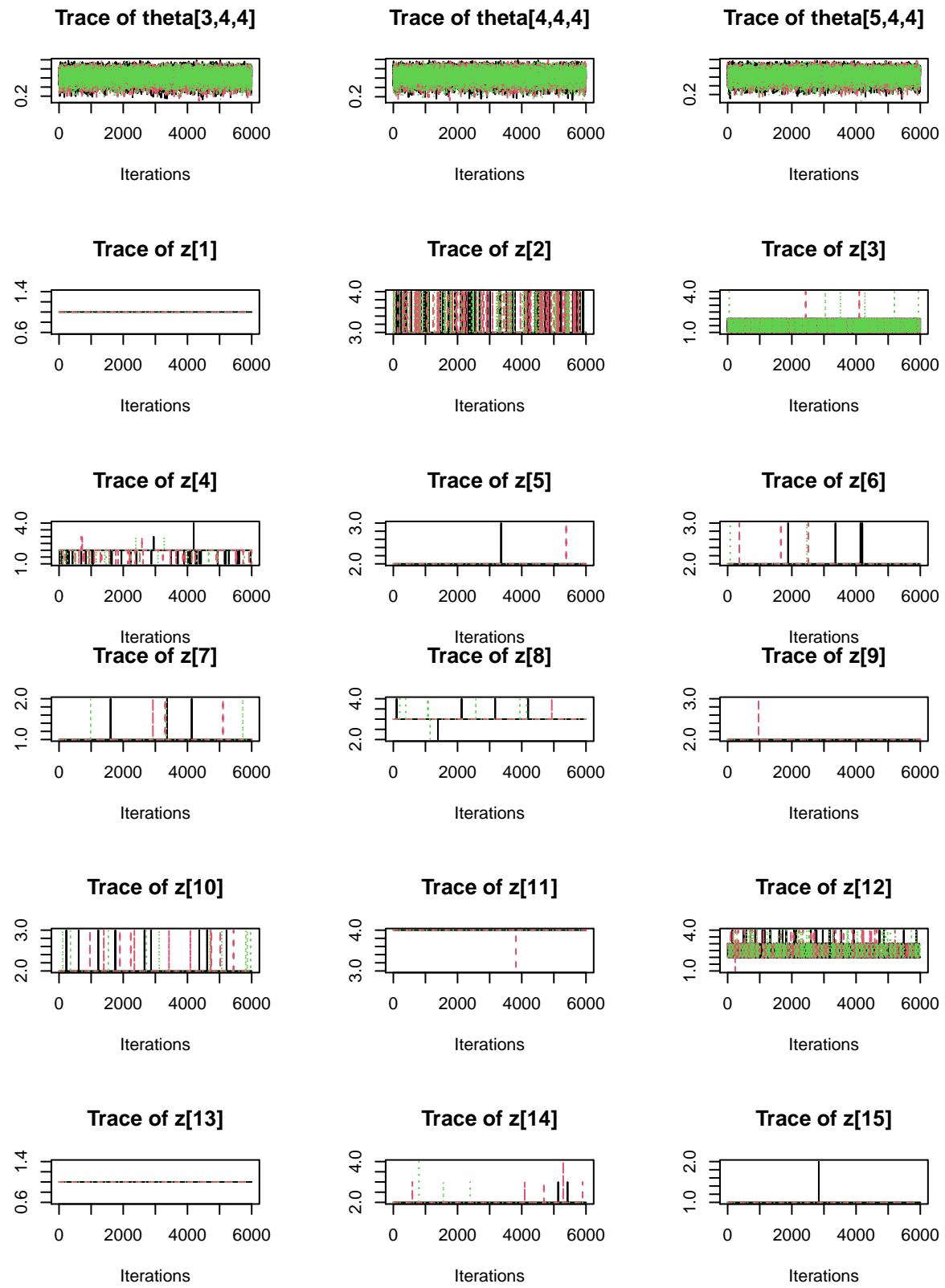


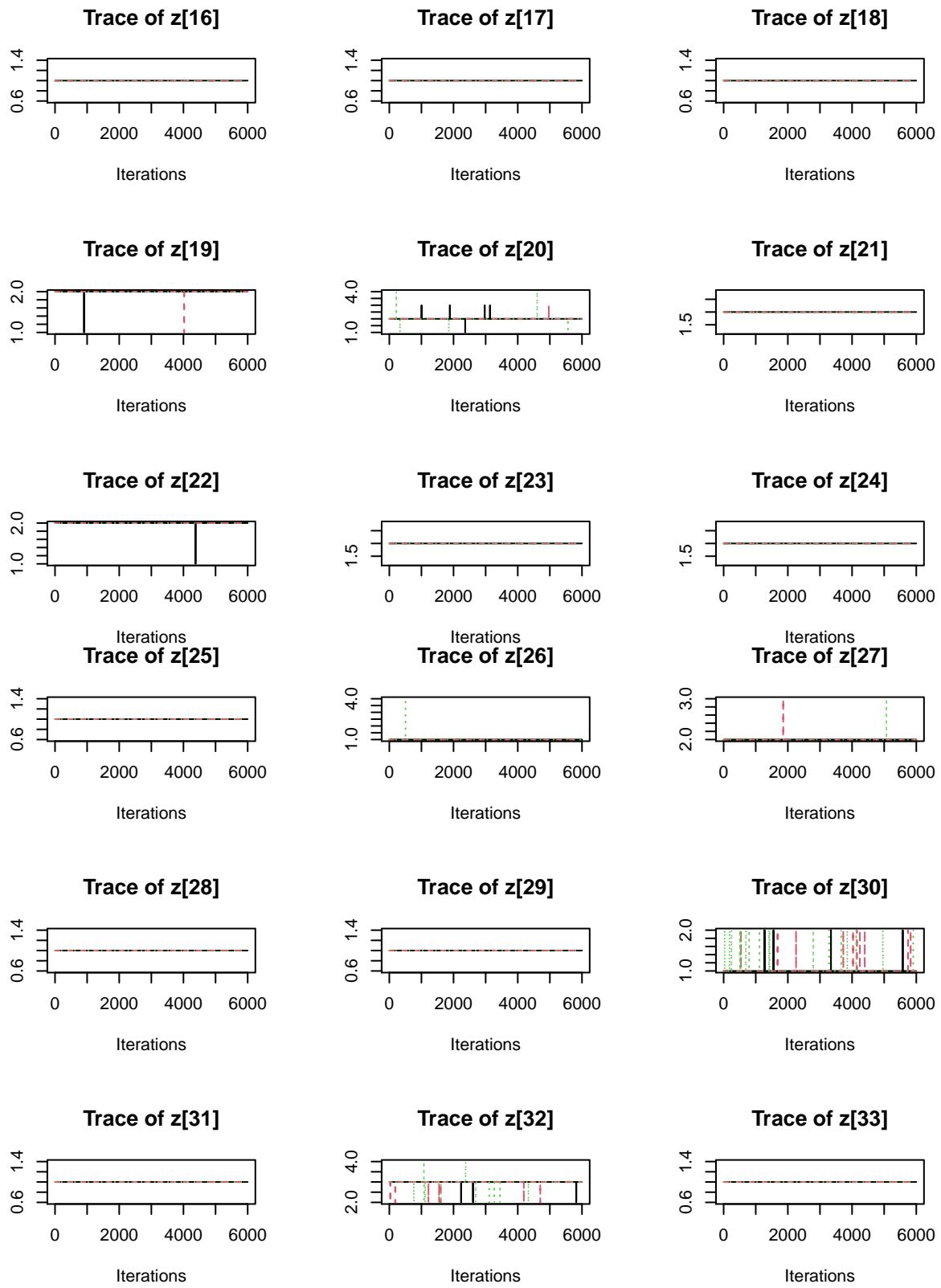


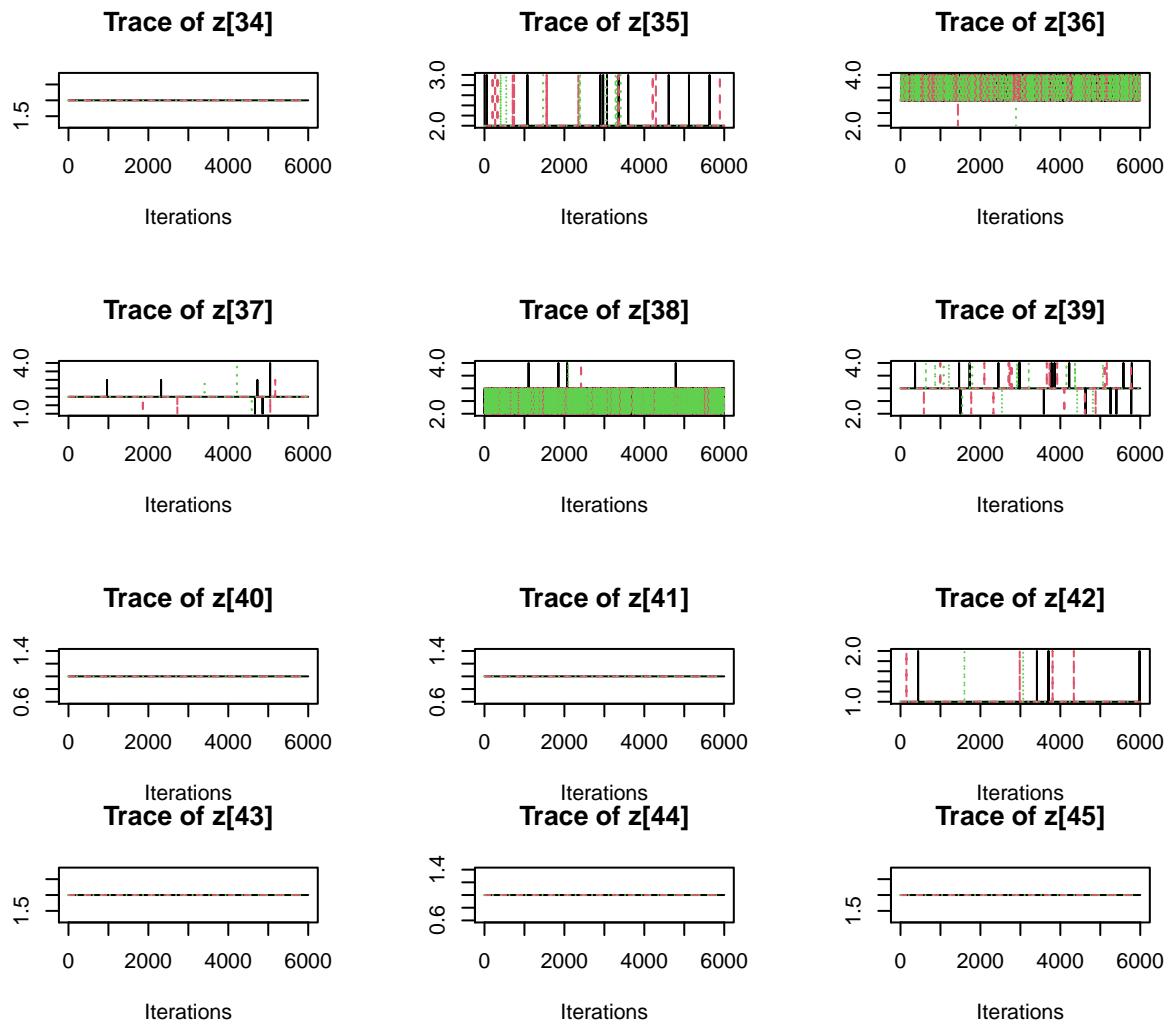








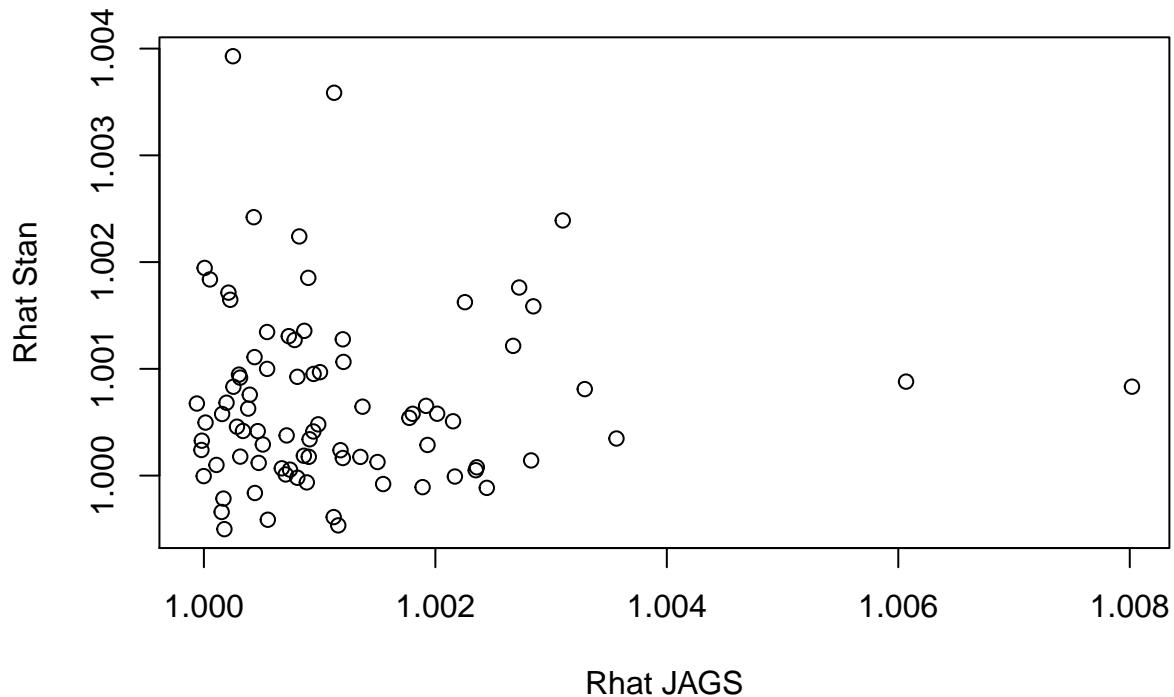




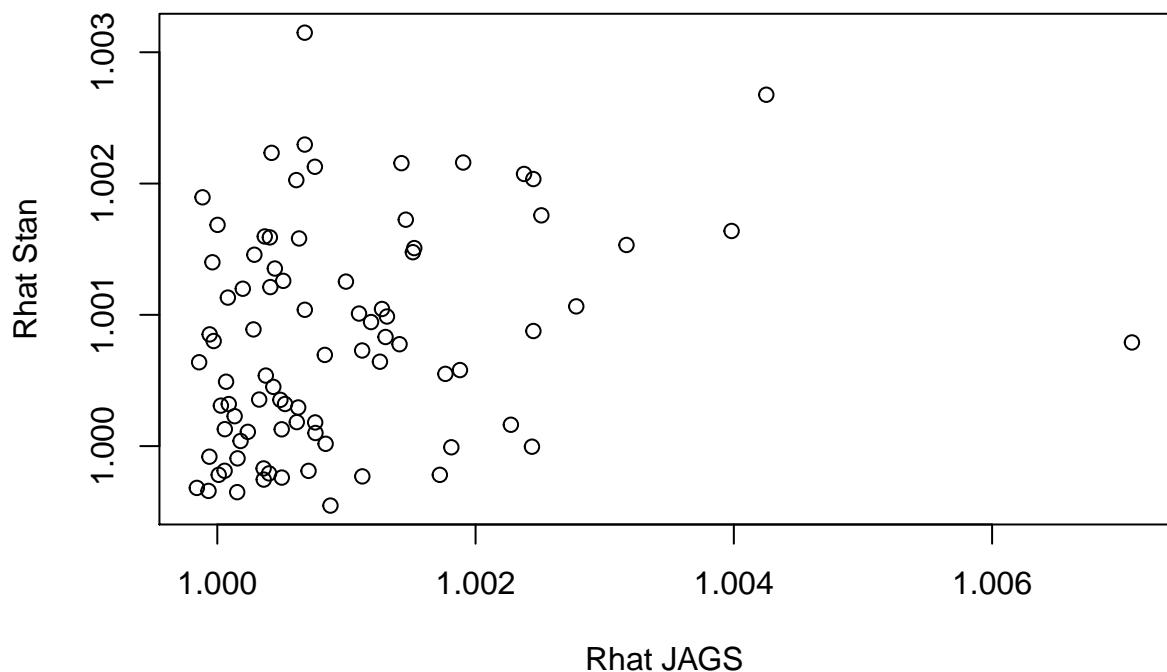
Looking at Rhat

Looking at continuous parameters only For JAGS we used the gelman rubin diagnostic and looked at the upper CI

```
## [1] "Trial 1"  
## [1] "max Rhat for stan: 1.00392835736289"  
## [1] "max Rhat for JAGS: 1.00801927431109"
```

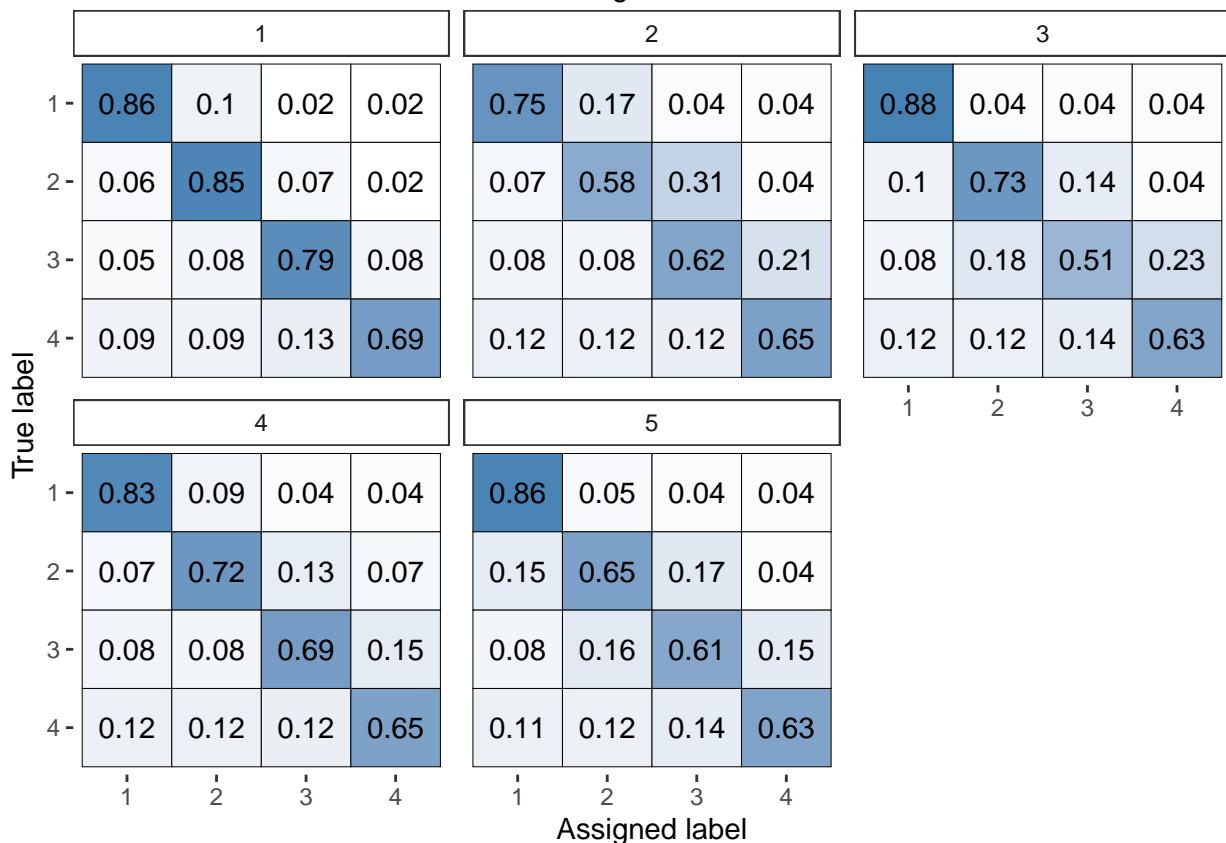
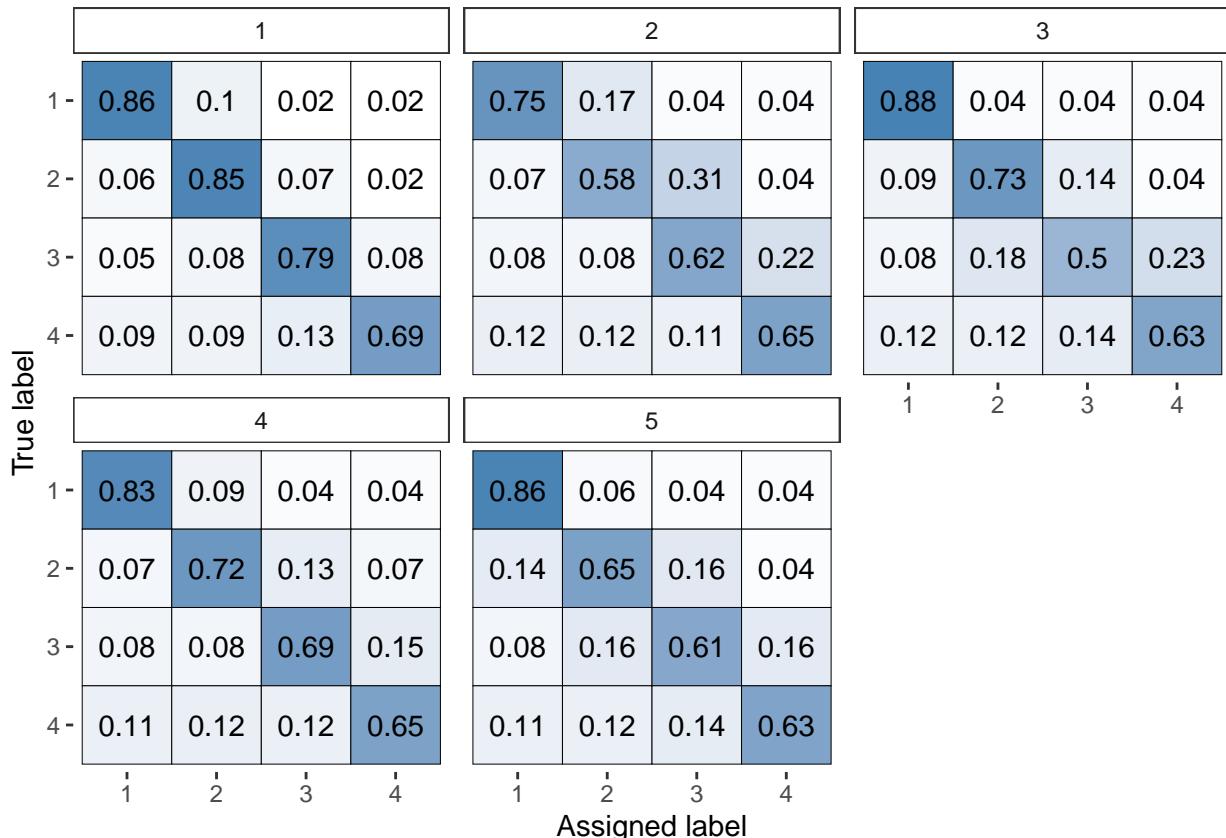


```
## [1] "Trial 2"  
## [1] "max Rhat for stan: 1.0031491004232"  
## [1] "max Rhat for JAGS: 1.00708291126901"
```



Distribution of latent class

For Stan



For JAGS

```
## [1] "JAGS trial 1 :distribution of latent classes"
```

0.86	0.1	0.02	0.02	0.75	0.17	0.04	0.04	0.88	0.04	0.04	0.04	0.83	0.09	0.04	0.04
0.06	0.85	0.07	0.02	0.07	0.58	0.31	0.04	0.09	0.73	0.14	0.04	0.07	0.73	0.13	0.07
0.04	0.08	0.79	0.08	0.08	0.08	0.62	0.22	0.08	0.18	0.51	0.23	0.08	0.08	0.69	0.15
0.09	0.09	0.13	0.69	0.12	0.12	0.12	0.65	0.12	0.12	0.14	0.63	0.12	0.12	0.12	0.65

rater1

0.87	0.05	0.04	0.04
0.14	0.65	0.16	0.04
0.08	0.16	0.61	0.15
0.12	0.12	0.14	0.63

rater2

rater3

rater4

rater5

```
##
##
## [1] "JAGS trial 2 :distribution of latent classes"
```

0.86	0.1	0.02	0.02	0.75	0.17	0.04	0.04	0.88	0.04	0.04	0.04	0.83	0.09	0.04	0.04
0.06	0.85	0.07	0.02	0.07	0.58	0.31	0.04	0.09	0.73	0.14	0.04	0.07	0.72	0.13	0.07
0.05	0.08	0.8	0.08	0.08	0.08	0.62	0.21	0.08	0.18	0.51	0.23	0.08	0.08	0.69	0.15
0.09	0.09	0.13	0.69	0.12	0.11	0.12	0.65	0.12	0.11	0.14	0.63	0.12	0.12	0.12	0.65

rater1

rater2

rater3

rater4

0.86	0.06	0.04	0.04
0.14	0.65	0.17	0.04
0.08	0.16	0.61	0.15
0.12	0.12	0.14	0.63

rater5