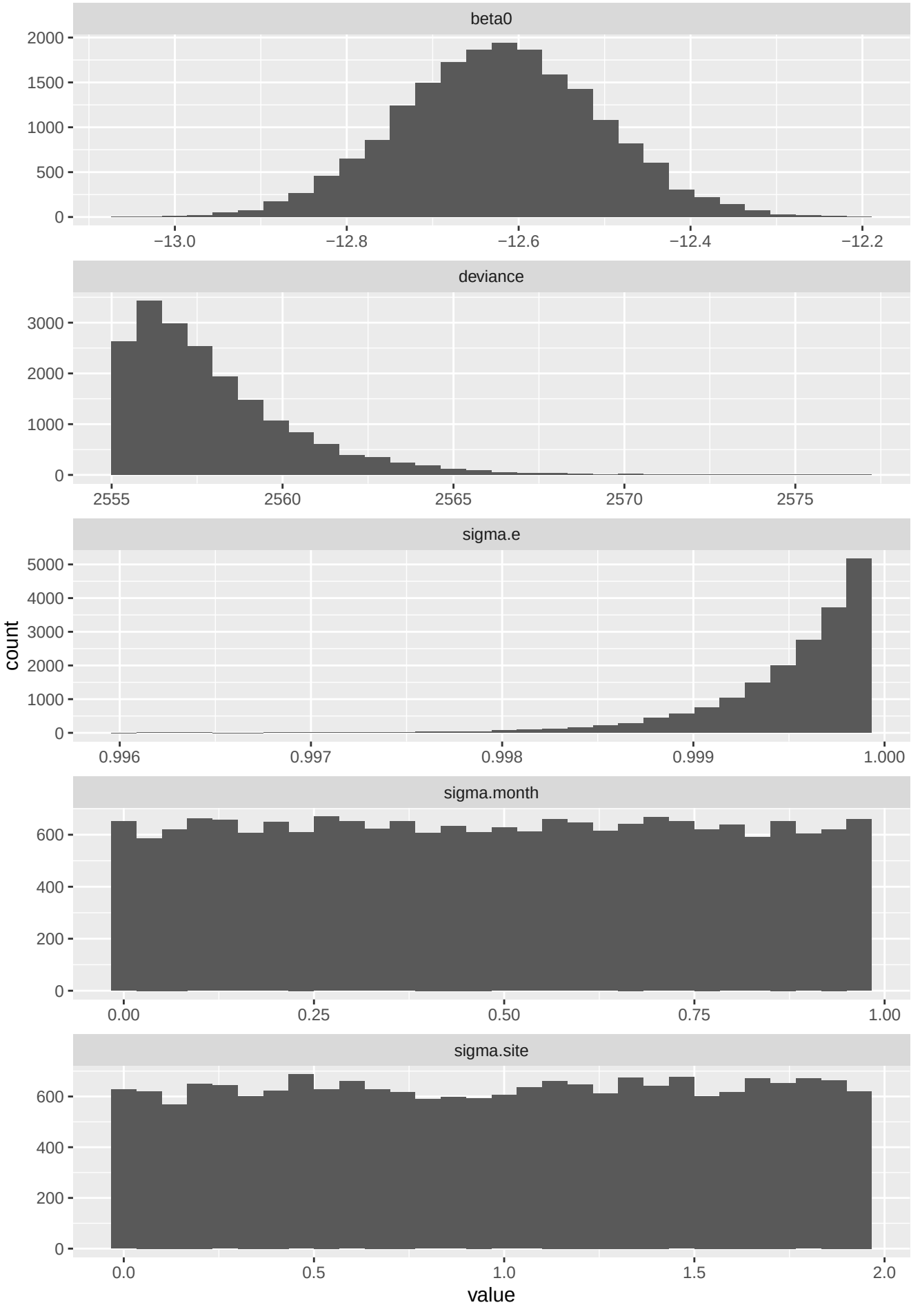
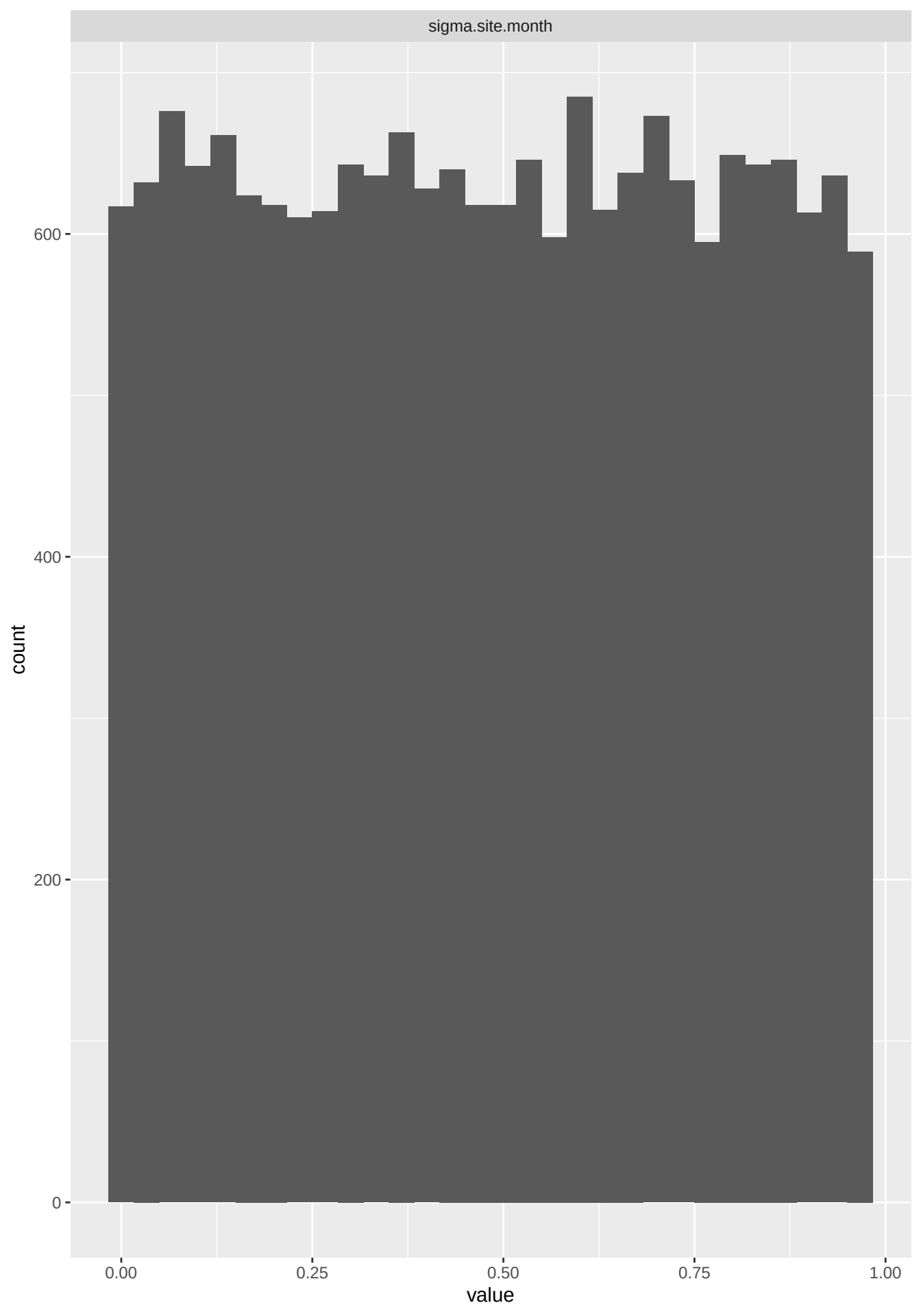
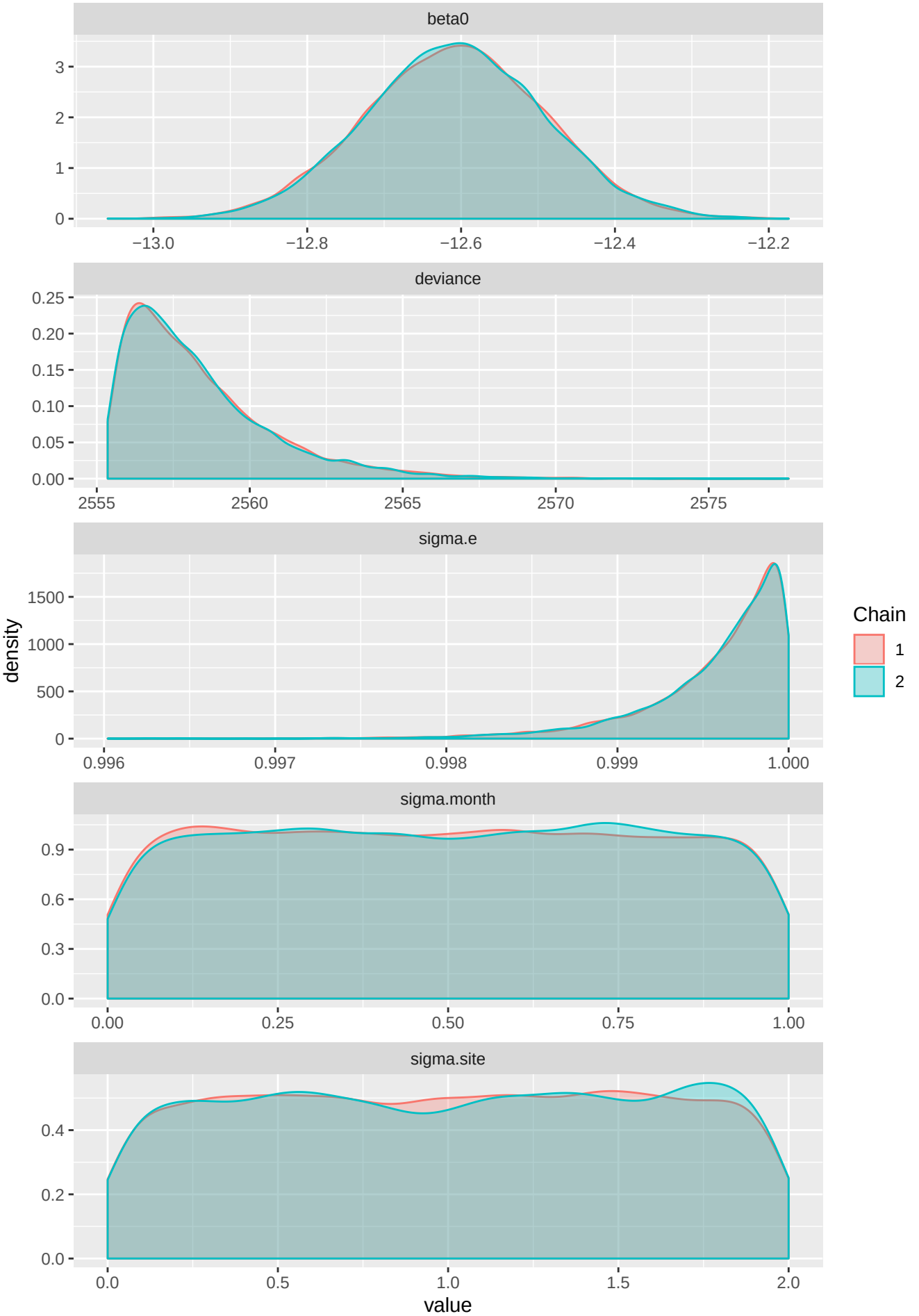
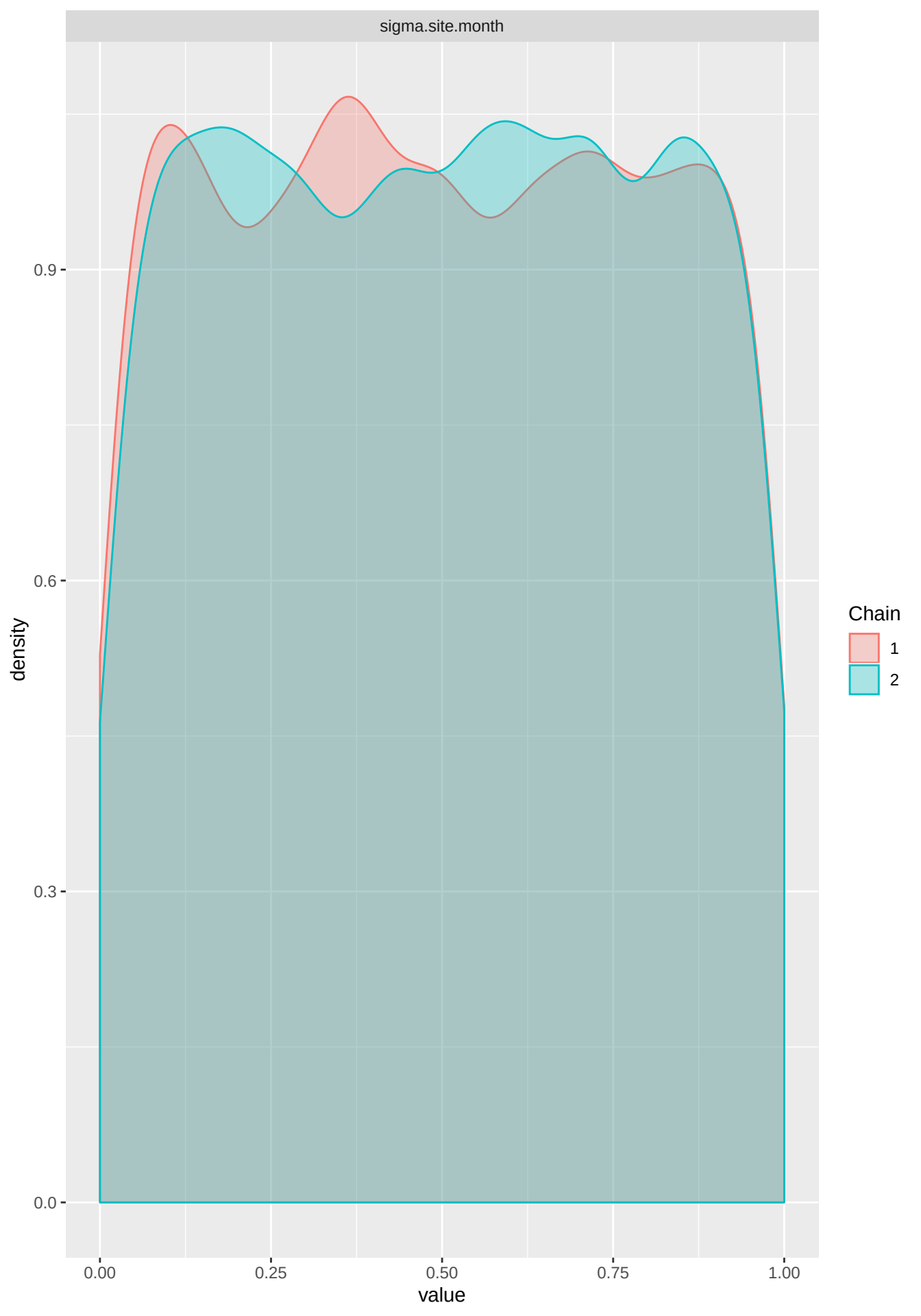
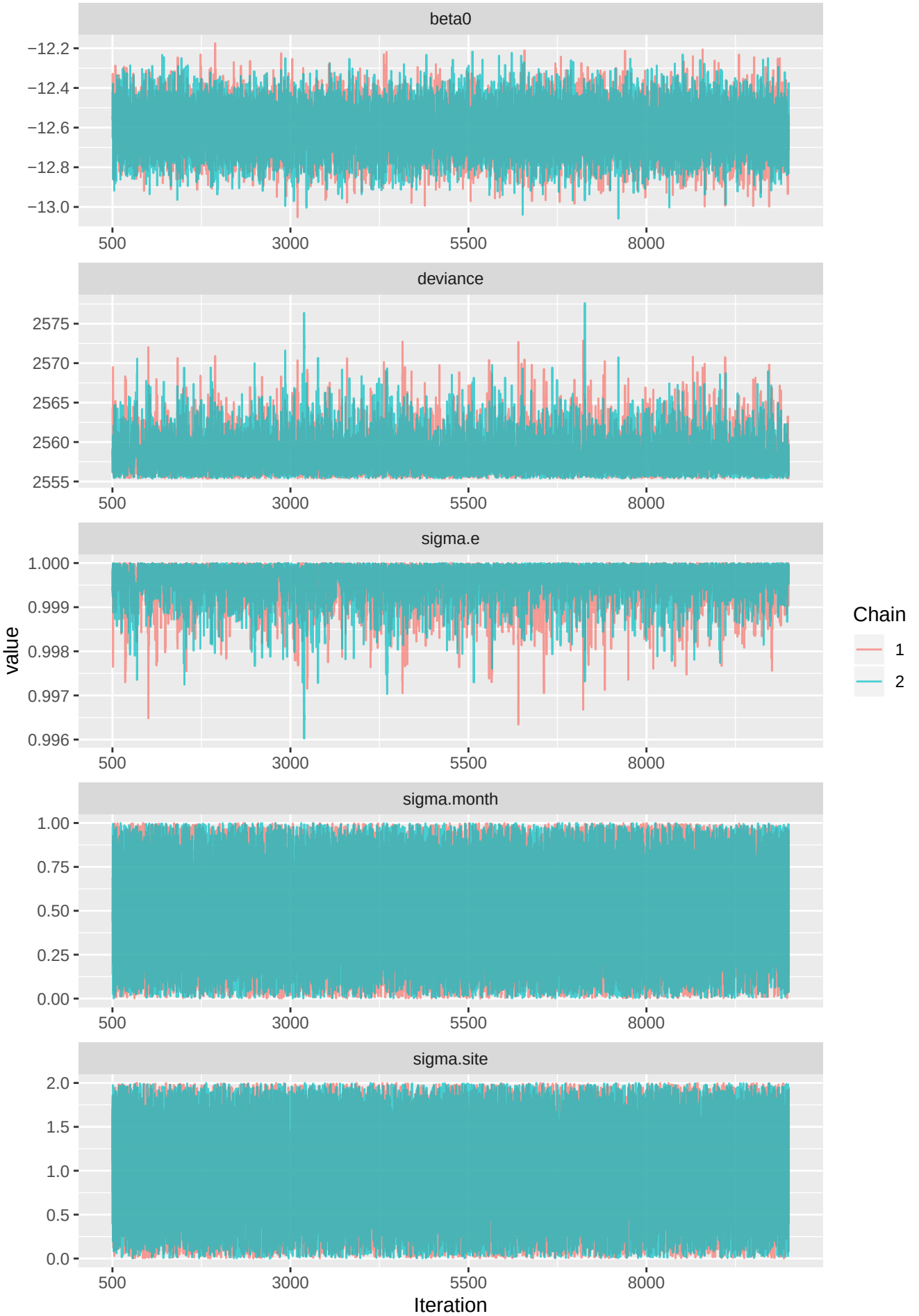
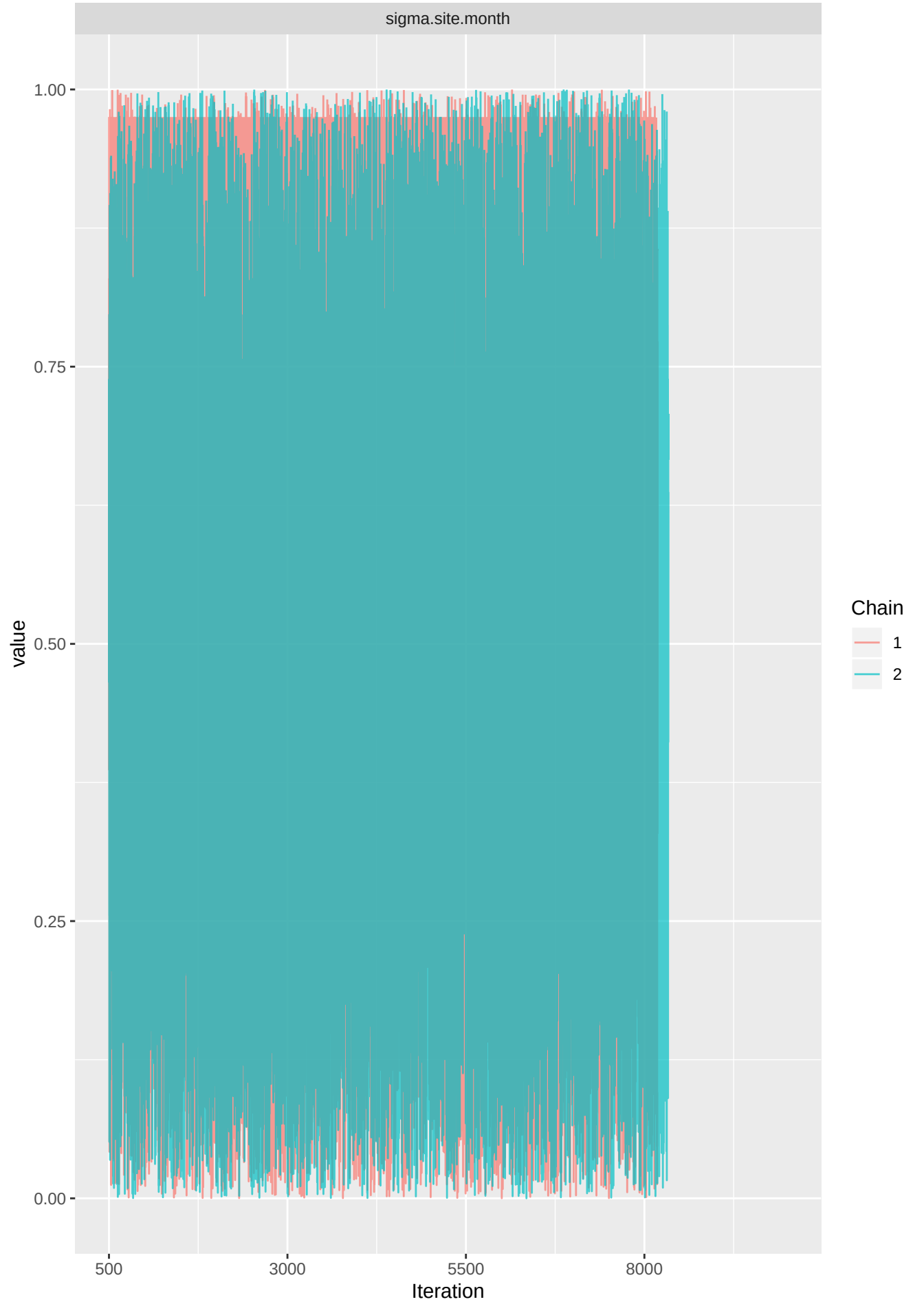

beta0
2000
1500
1000
500
0
−13.0
−12.8
−12.6
−12.4
−12.2
deviance
3000
2000
1000
0
2555
2560
2565
2570
2575
sigma.e
count
5000
4000
3000
2000
1000
0
0.996
0.997
0.998
0.999
1.000
sigma.month
600
400
200
0
0.00
0.25
0.50
0.75
1.00
sigma.site
600
400
200
0
0.0
0.5
1.0
1.5
2.0
value

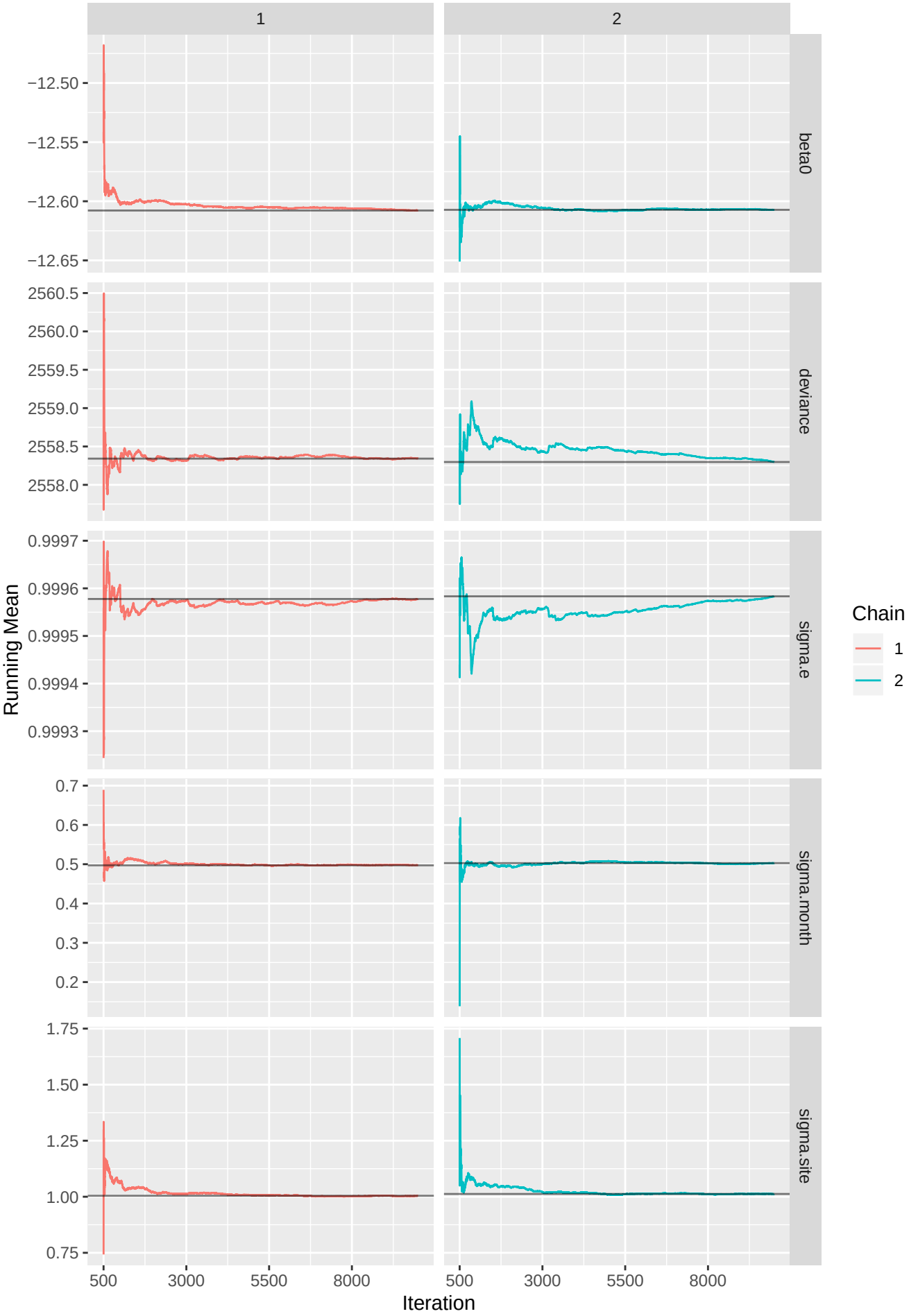

sigma.site.month
600
400
200
0
count
0.00
0.25
0.50
0.75
1.00
value

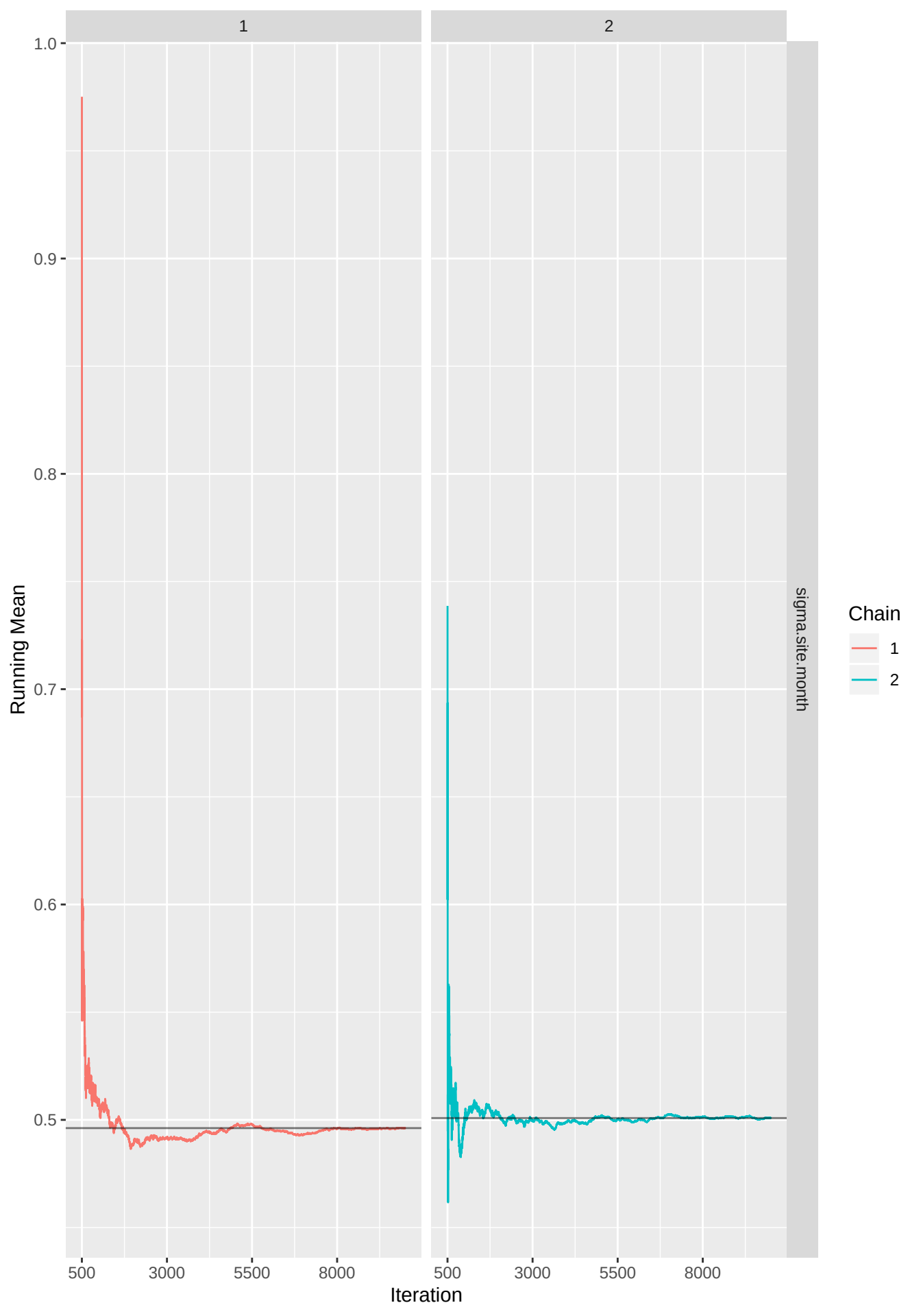

beta0
deviance
sigma.e
sigma.month
sigma.site
density
value
Chain
1
2

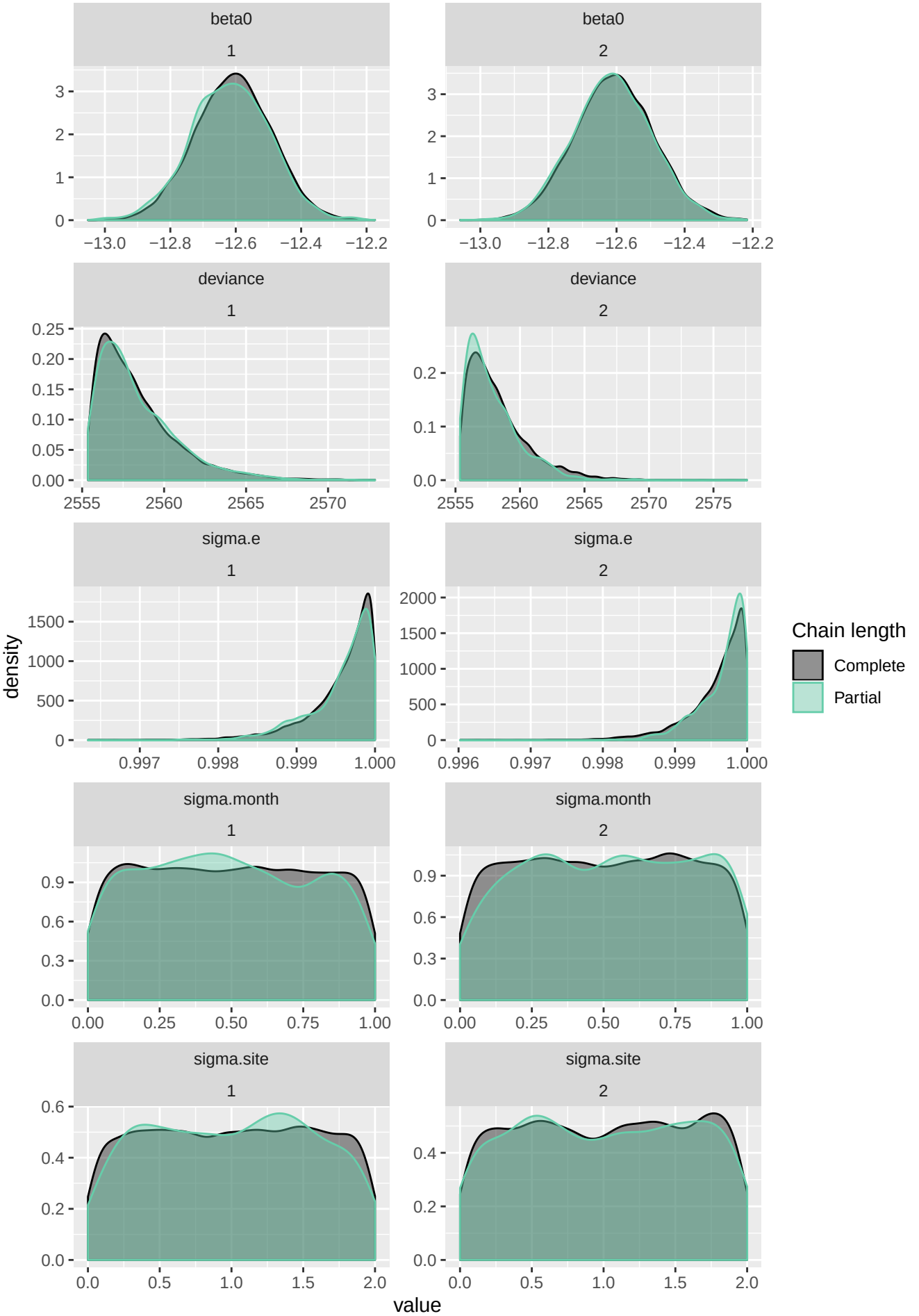

sigma.site.month
density
0.0
0.3
0.6
0.9
0.00
0.25
0.50
0.75
1.00
value
Chain
1
2

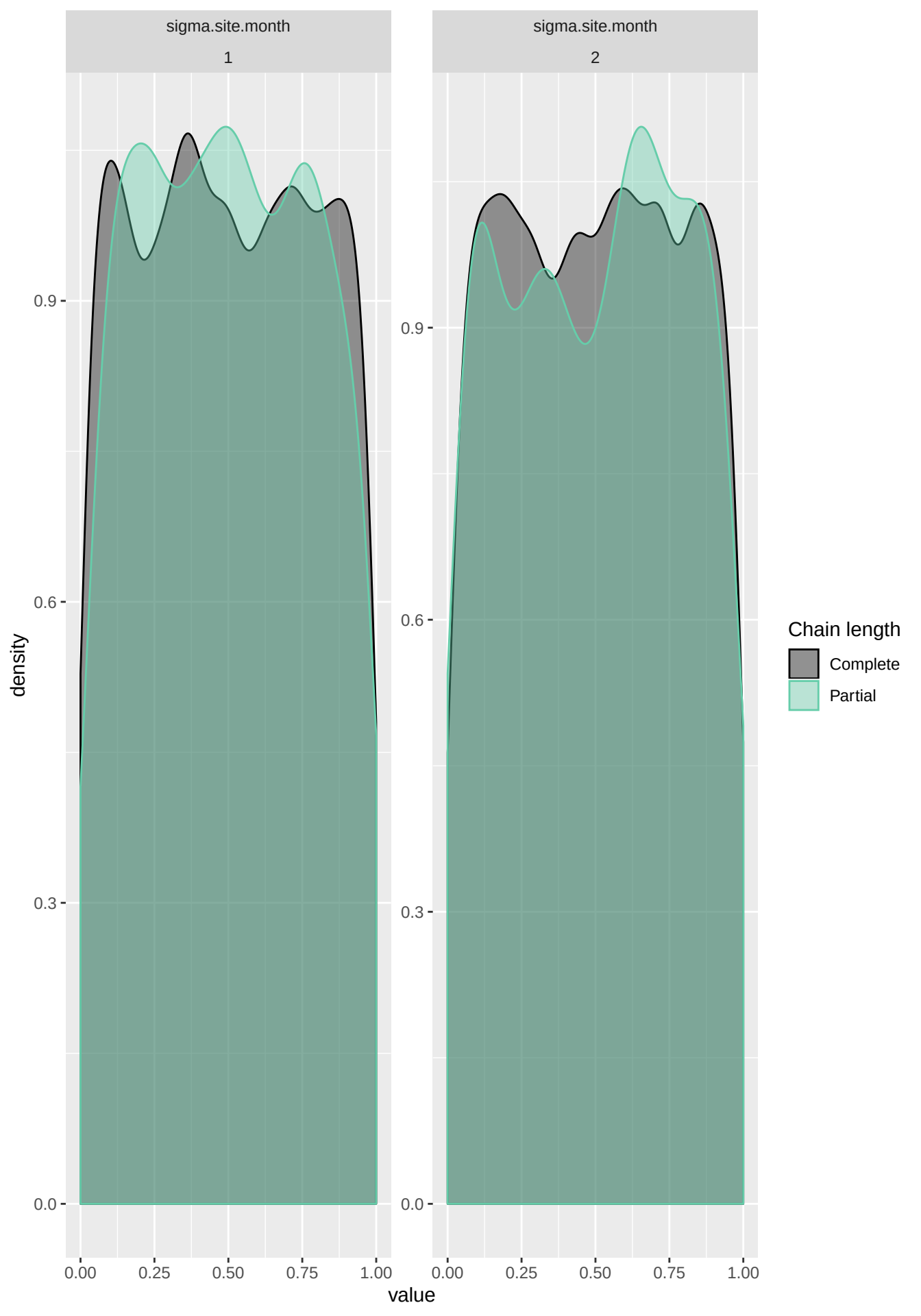

beta0
−12.2
−12.4
−12.6
−12.8
−13.0
500
3000
5500
8000
deviance
2575
2570
2565
2560
2555
500
3000
5500
8000
sigma.e
1.000
0.999
0.998
0.997
0.996
500
3000
5500
8000
sigma.month
1.00
0.75
0.50
0.25
0.00
500
3000
5500
8000
sigma.site
2.0
1.5
1.0
0.5
0.0
500
3000
5500
8000
value
Iteration
Chain
1
2

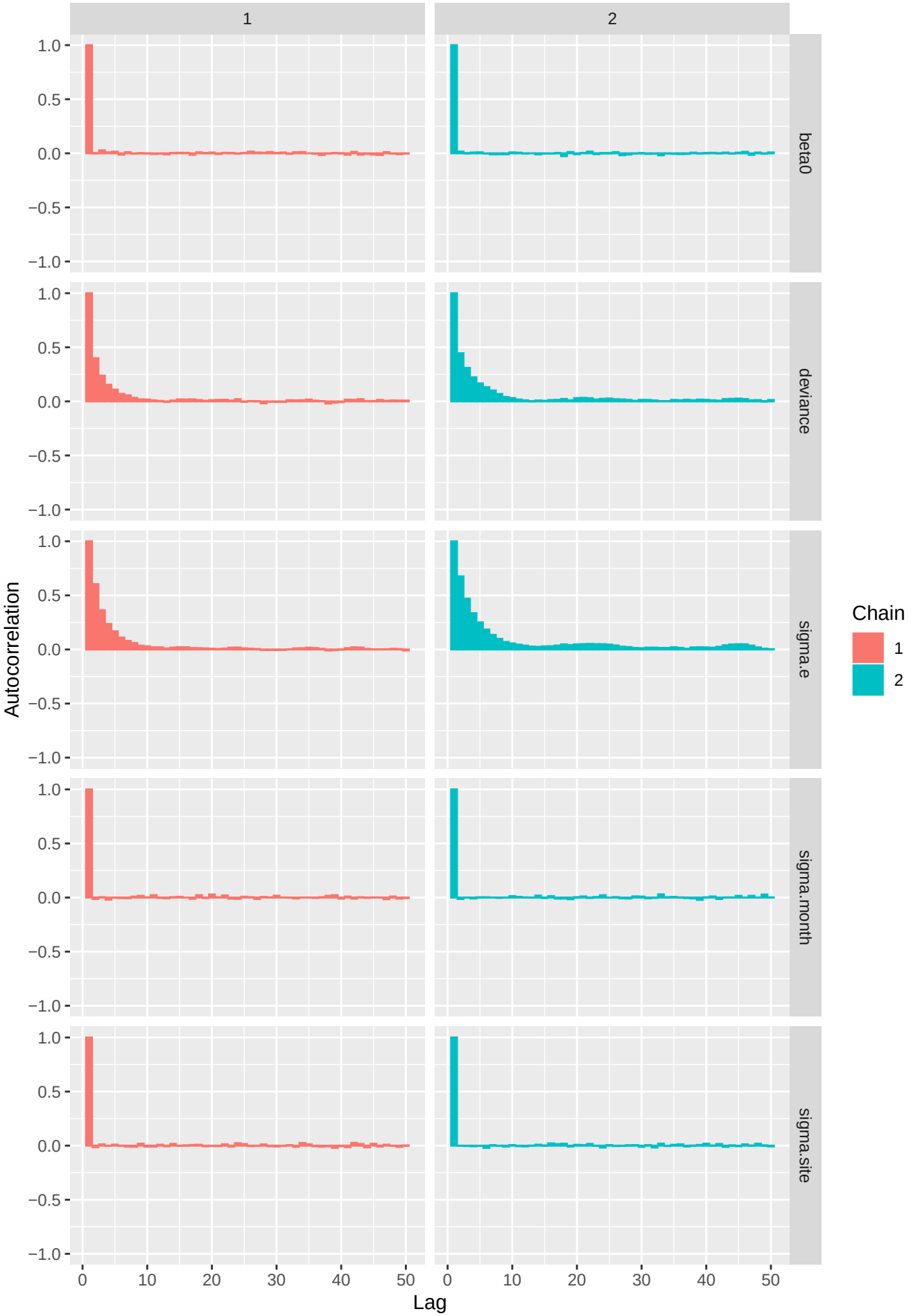

sigma.site.month
1.00
0.75
0.50
0.25
0.00
value
500
3000
5500
8000
Iteration
Chain
1
2

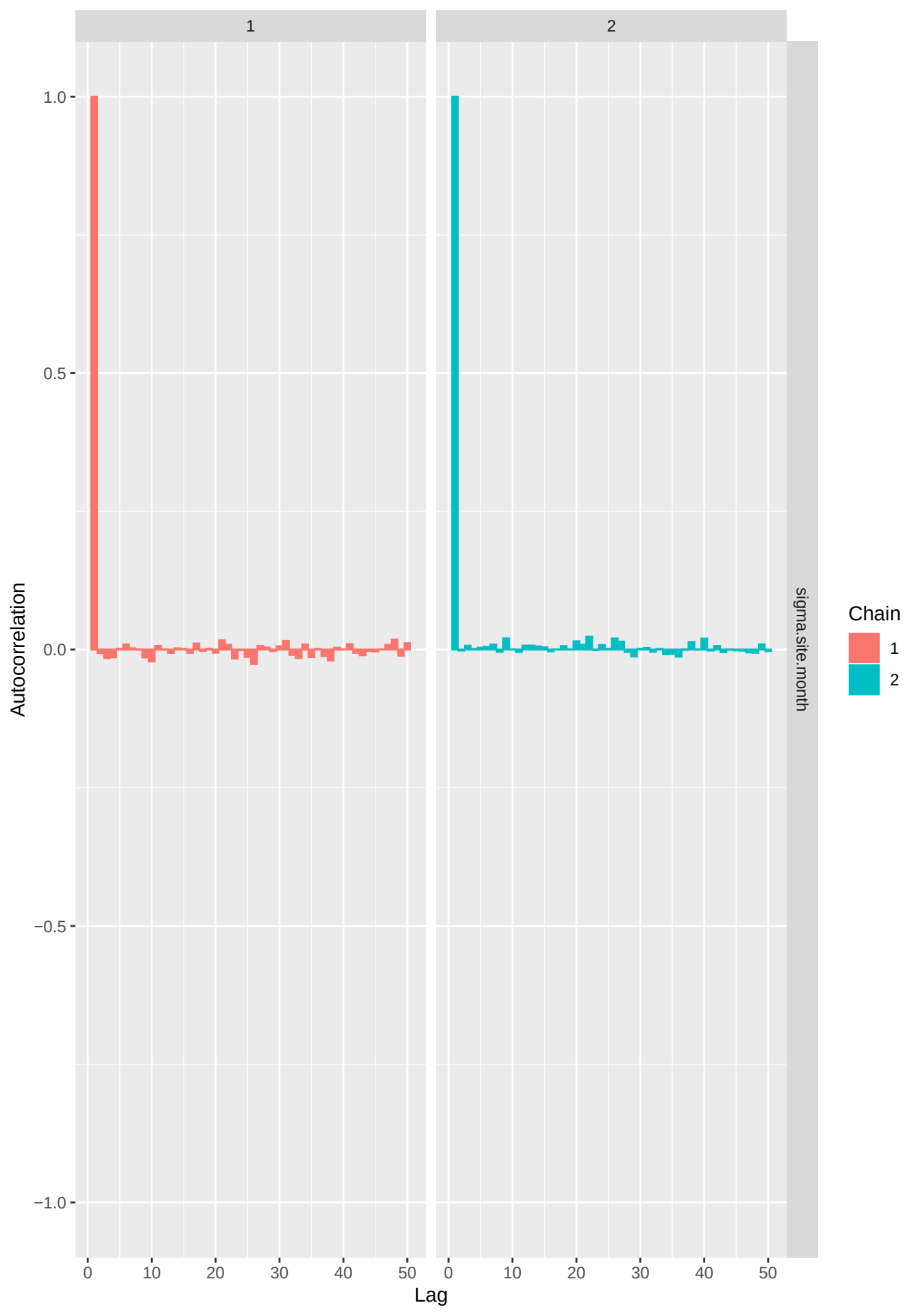

1
2
beta0
deviance
sigma.e
sigma.month
sigma.site
−12.50
−12.55
−12.60
−12.65
2560.5
2560.0
2559.5
2559.0
2558.5
2558.0
0.9997
0.9996
0.9995
0.9994
0.9993
0.7
0.6
0.5
0.4
0.3
0.2
1.75
1.50
1.25
1.00
0.75
Running Mean
500
3000
5500
8000
Iteration
Chain
1
2

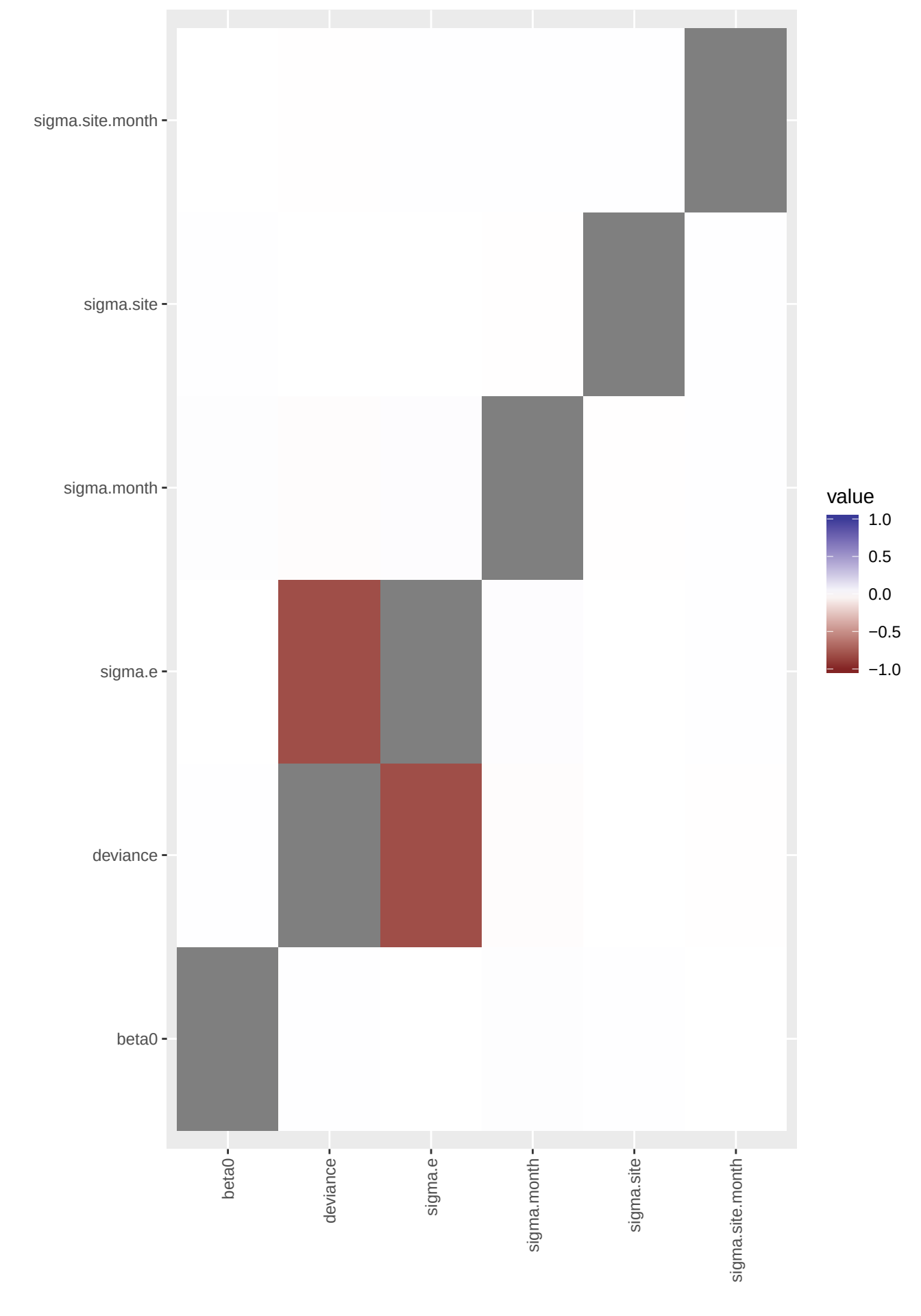

1
2
1.0
0.9
0.8
0.7
0.6
0.5
Running Mean
500
3000
5500
8000
Iteration
sigma.site.month
Chain
1
2

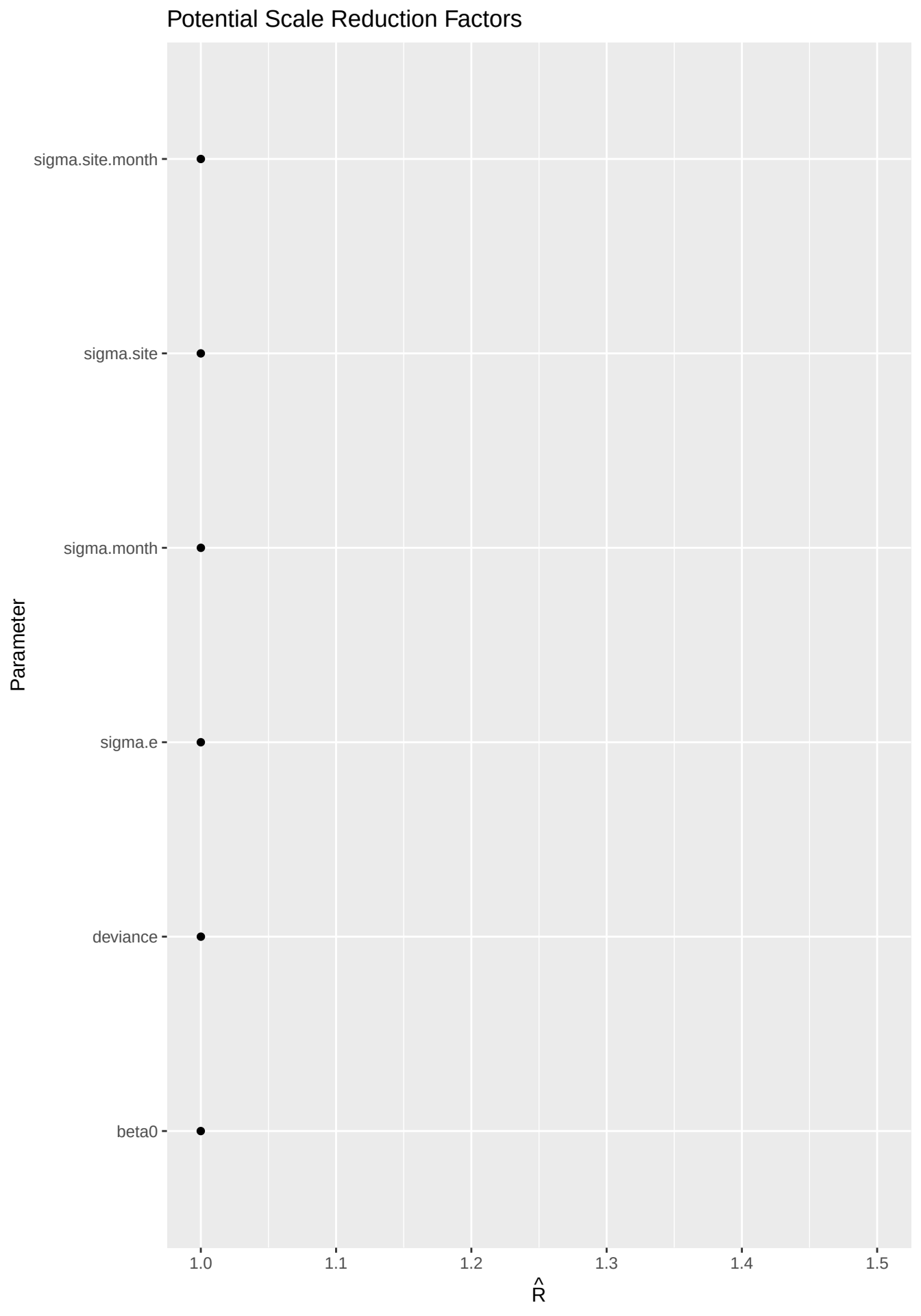

beta0
1
beta0
2
deviance
1
deviance
2
sigma.e
1
sigma.e
2
sigma.month
1
sigma.month
2
sigma.site
1
sigma.site
2
density
value
Chain length
Complete
Partial

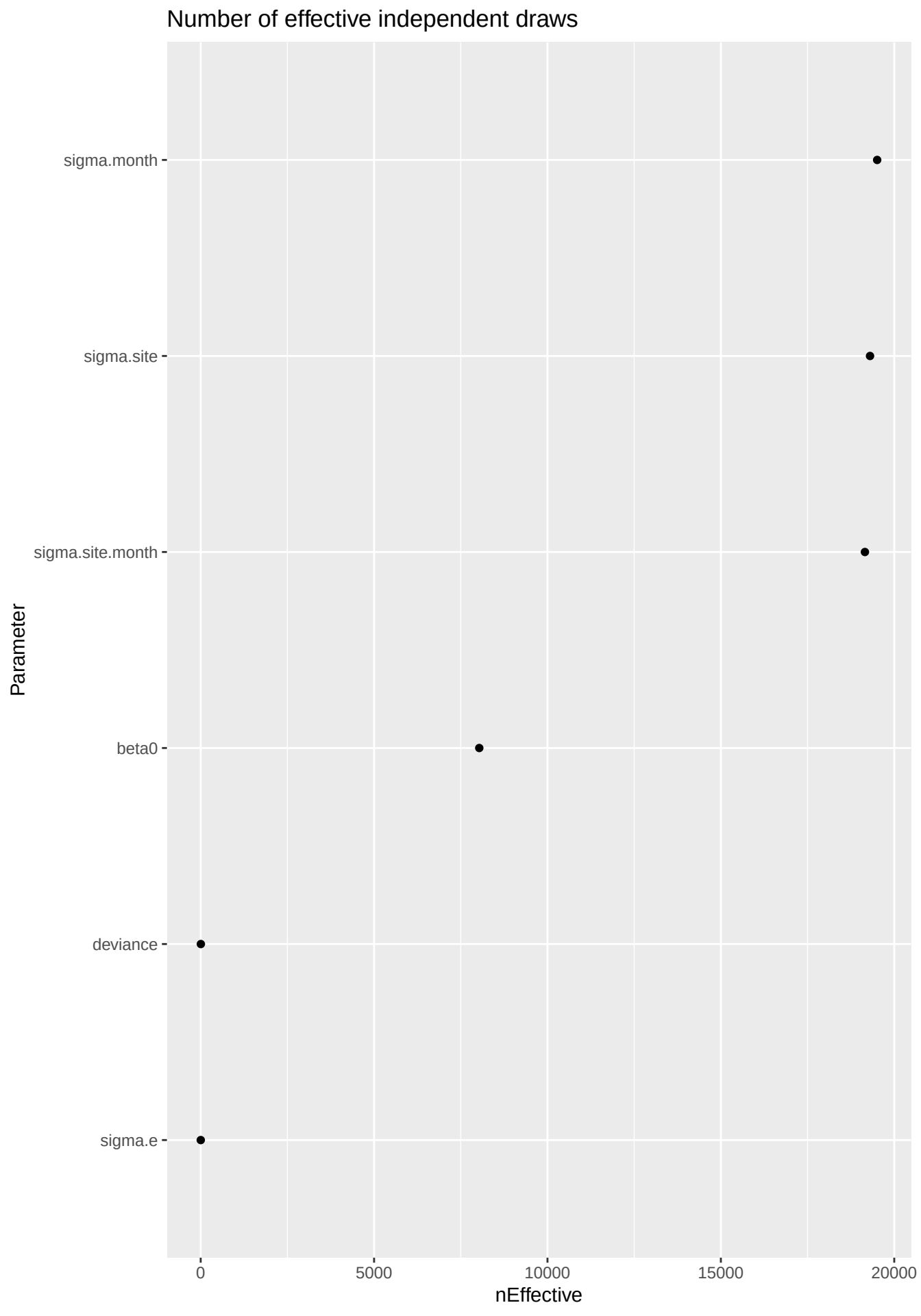

sigma.site.month
1
sigma.site.month
2
density
0.0
0.3
0.6
0.9
0.00
0.25
0.50
0.75
1.00
value
Chain length
Complete
Partial

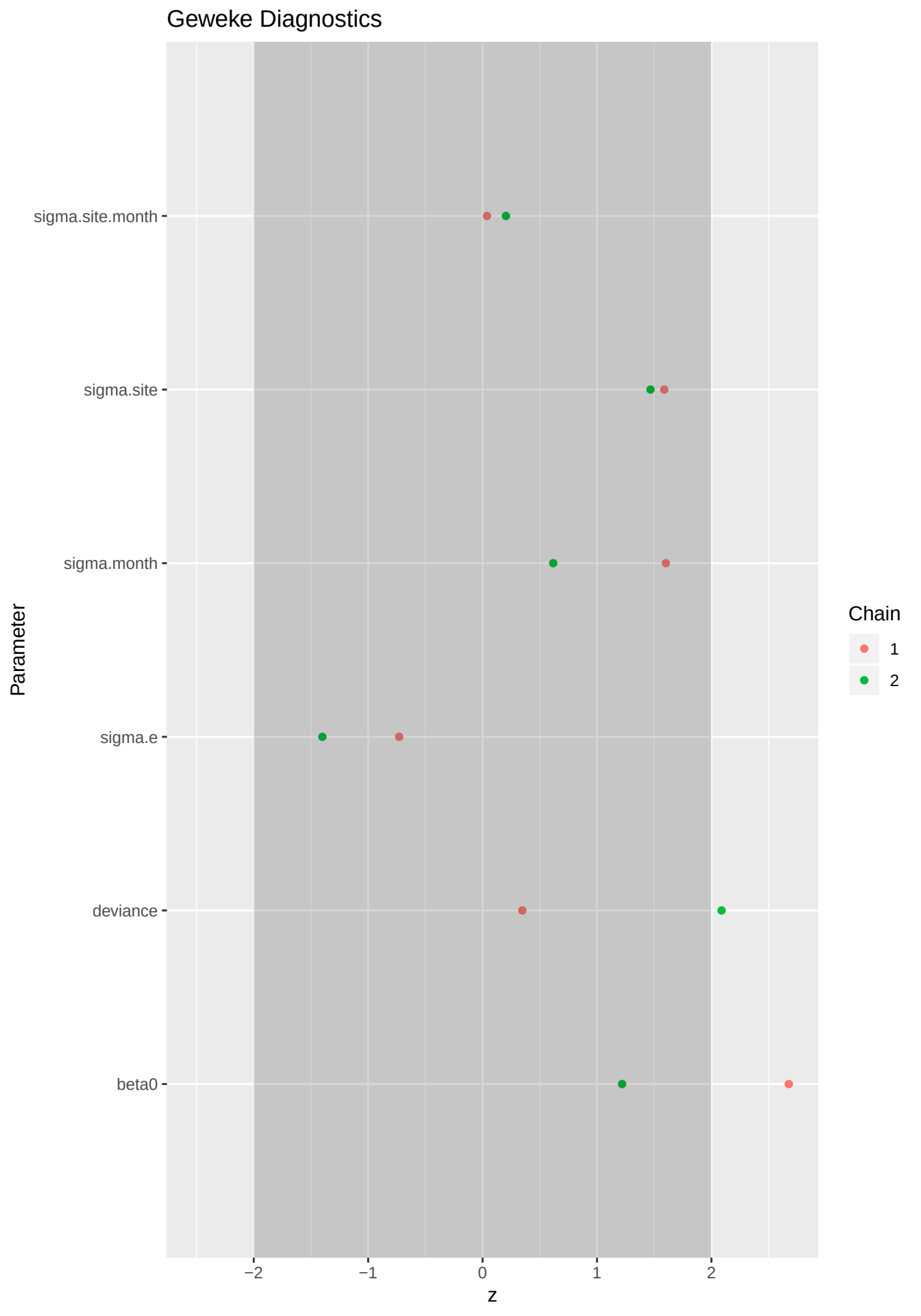

1
2
beta0
deviance
sigma.e
sigma.month
sigma.site
Autocorrelation
Lag
Chain
1
2
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50


1
2
1.0
0.5
0.0
−0.5
−1.0
Autocorrelation
0
10
20
30
40
50
Lag
sigma.site.month
Chain
1
2


sigma.site.month
sigma.site
sigma.month
sigma.e
deviance
beta0
beta0
deviance
sigma.e
sigma.month
sigma.site
sigma.site.month
value
1.0
0.5
0.0
−0.5
−1.0


Potential Scale Reduction Factors
sigma.site.month
sigma.site
sigma.month
sigma.e
deviance
beta0
Parameter
1.0
1.1
1.2
1.3
1.4
1.5
R̂


Number of effective independent draws
sigma.month
sigma.site
sigma.site.month
beta0
deviance
sigma.e
Parameter
0
5000
10000
15000
20000
nEffective


Geweke Diagnostics
sigma.site.month
sigma.site
sigma.month
sigma.e
deviance
beta0
Parameter
−2
−1
0
1
2
z
Chain
1
2