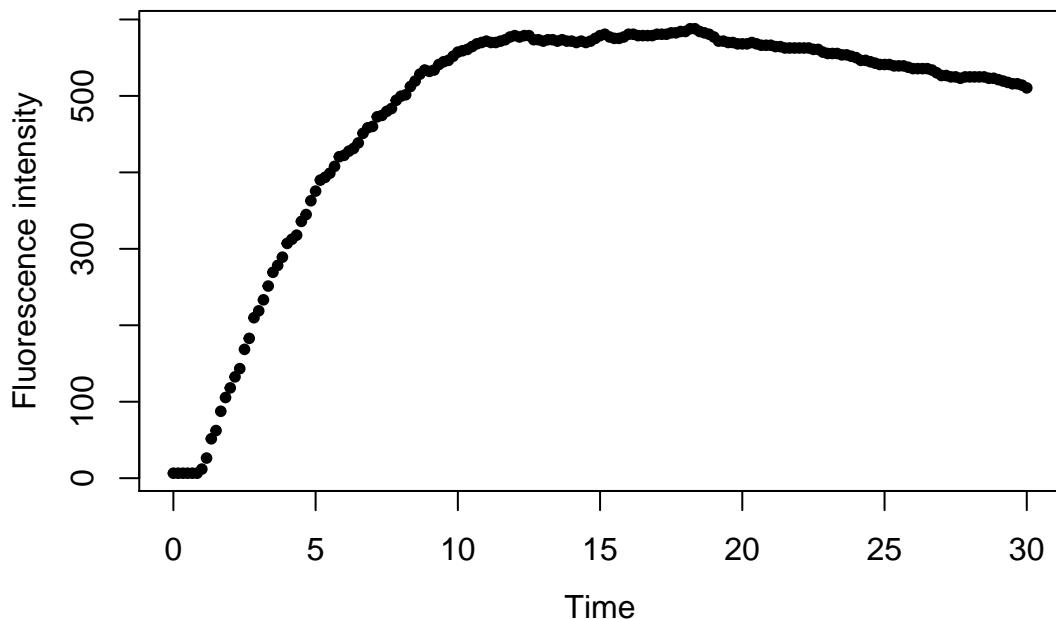


Analysis of individual stanfit objects

November 4, 2020

Dataset: simulated_data_dataset1_no_error, model type: SDE

Trajectory 6



	mean	se_mean	sd	5%	50%	95%	n_eff
theta[1]	0.191	0.000	0.021	0.158	0.191	0.226	3120
theta[2]	0.389	0.027	0.388	0.106	0.261	1.104	206
theta[3]	0.013	0.000	0.002	0.009	0.013	0.016	2514
m0	344.372	14.962	202.996	75.072	313.249	727.702	184
scale	1.656	0.005	0.285	1.249	1.624	2.172	3062
prod_theta2_m0	82.597	0.202	14.737	59.879	81.685	108.196	5296
prod_theta2_scale	0.615	0.043	0.567	0.185	0.426	1.698	178
prod_m0_scale	576.687	24.028	365.658	115.385	511.658	1272.063	232
prod_theta2_m0_scale	133.180	0.145	11.059	115.689	132.740	152.001	5829
x[180,1]	1.062	0.058	1.141	0.060	0.695	3.343	388
	Rhat						
theta[1]	1.002						
theta[2]	1.041						
theta[3]	1.002						
m0	1.051						
scale	1.002						
prod_theta2_m0	1.001						
prod_theta2_scale	1.047						
prod_m0_scale	1.040						
prod_theta2_m0_scale	1.001						
x[180,1]	1.020						

Divergences:

0 of 20000 iterations ended with a divergence.

Tree depth:

0 of 20000 iterations saturated the maximum tree depth of 15.

Energy:

E-BFMI indicated possible pathological behavior:

Chain 1: E-BFMI = 0.058

Chain 2: E-BFMI = 0.063

Chain 3: E-BFMI = 0.048

Chain 4: E-BFMI = 0.067

Chain 5: E-BFMI = 0.040

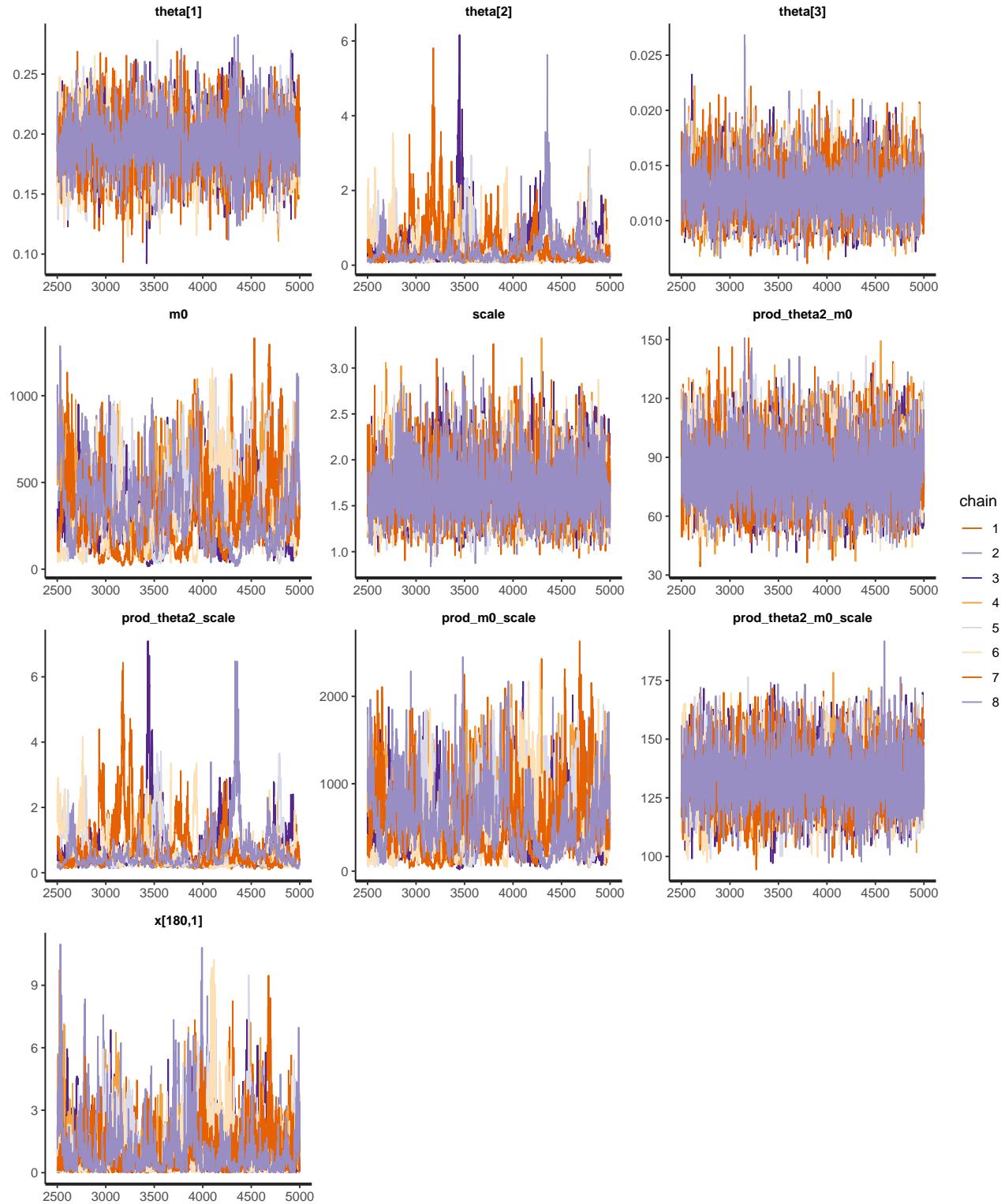
Chain 6: E-BFMI = 0.047

Chain 7: E-BFMI = 0.043

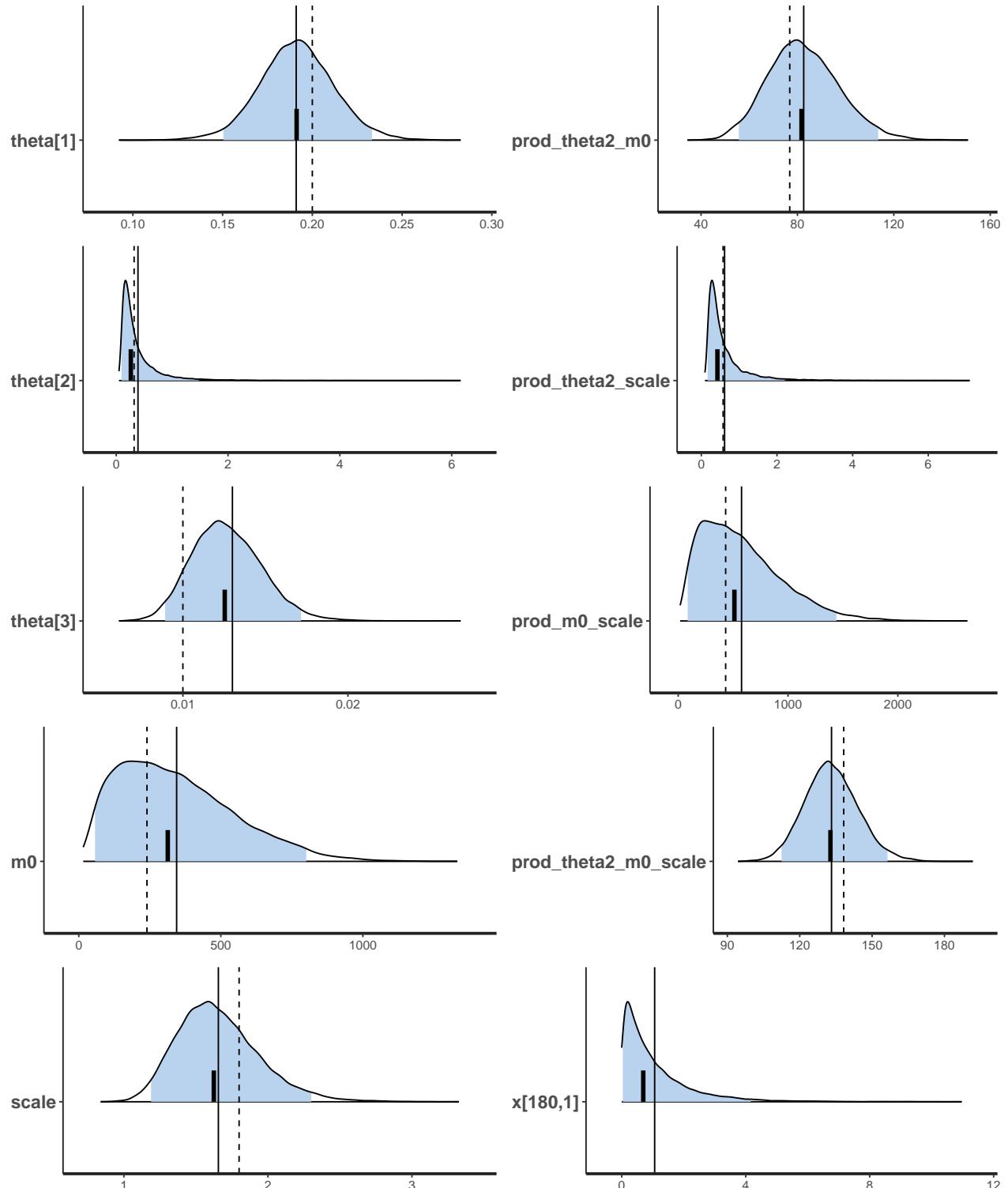
Chain 8: E-BFMI = 0.049

E-BFMI below 0.2 indicates you may need to reparameterize your model.

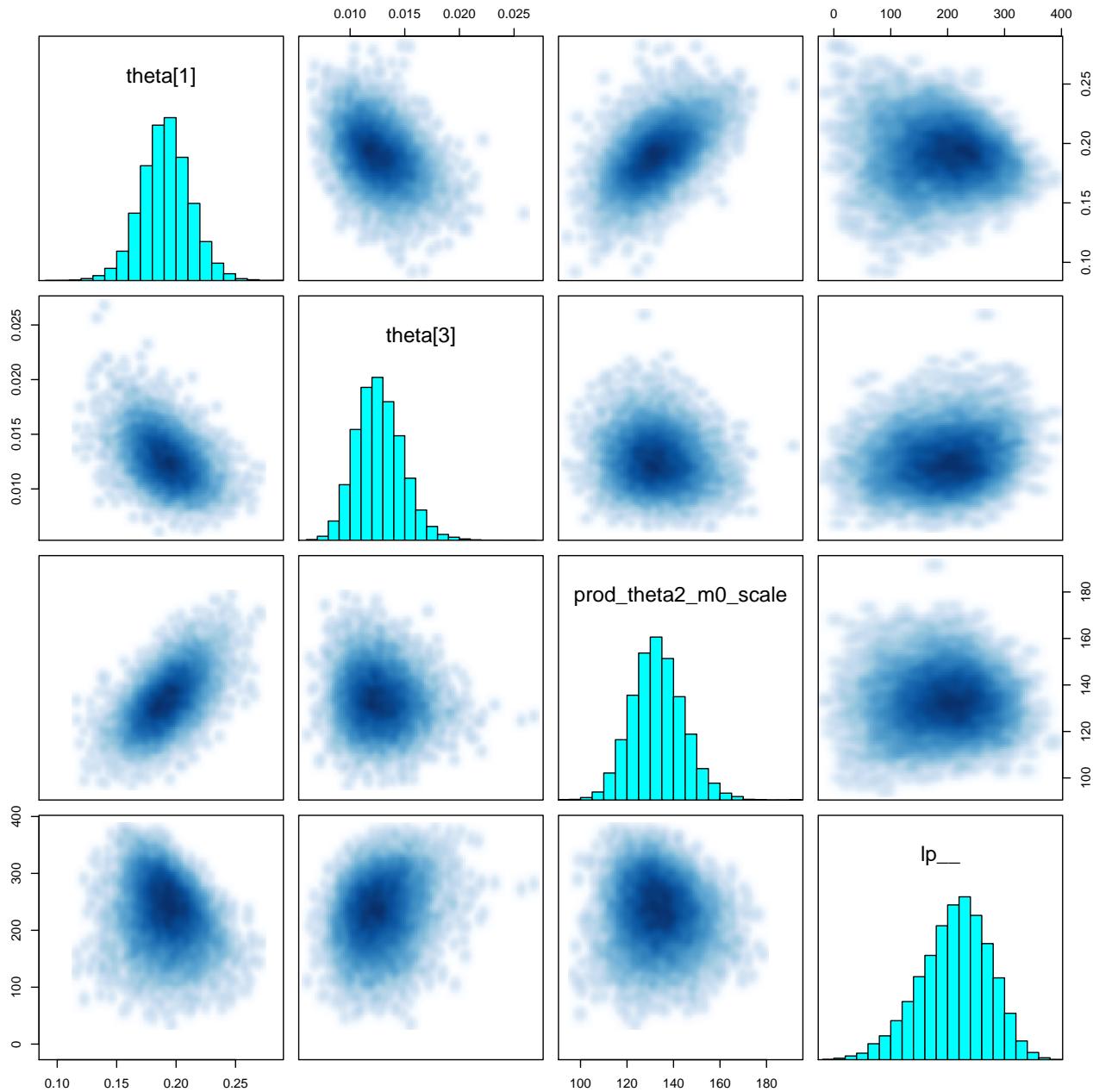
Traceplots

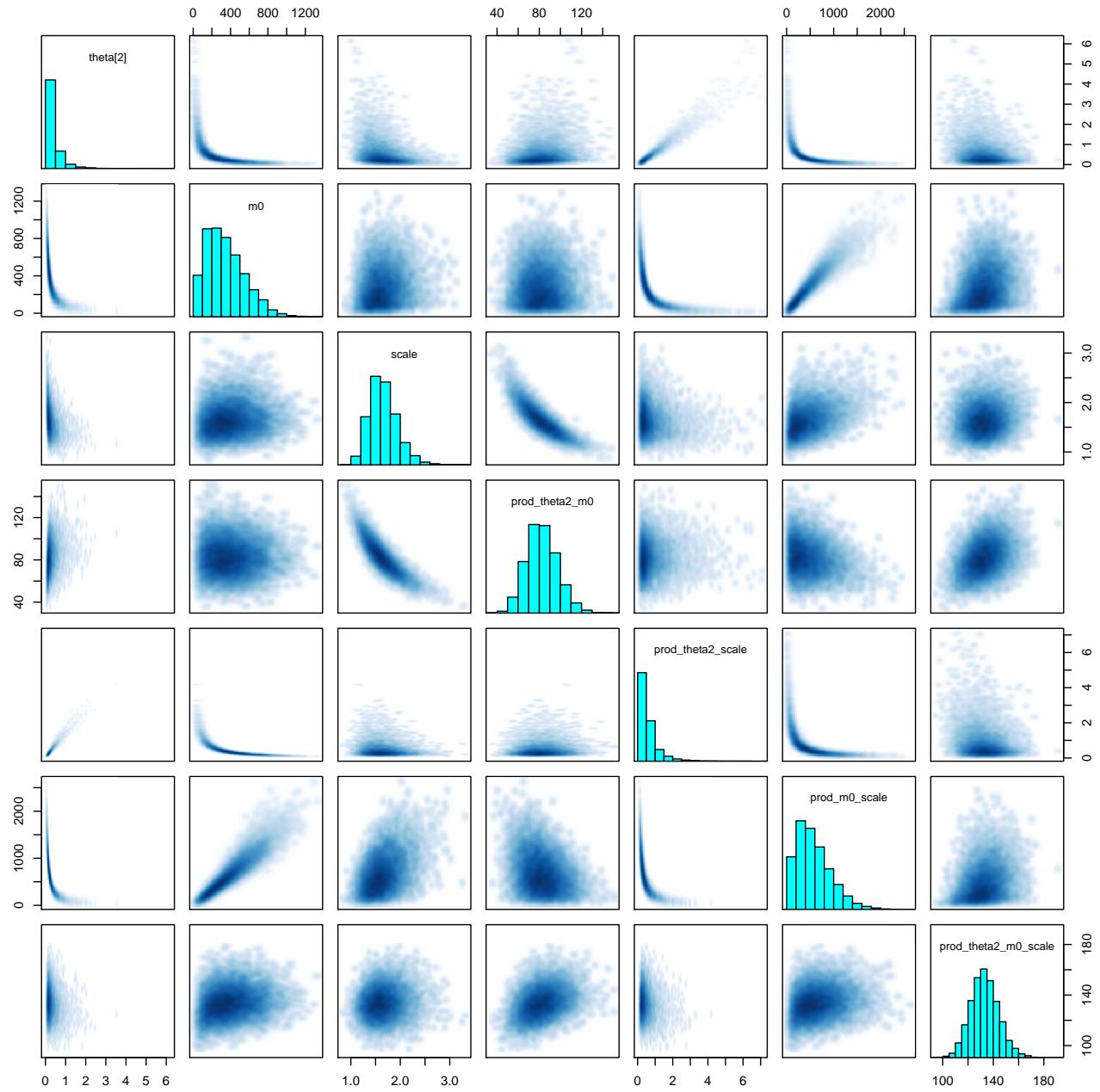


Density plots with 95% CI, median (solid line), and if applicable true value (dashed line)



Pair plots





```
## the following parameters were dropped because they are constant
## x[180,2]
```

