

# StanResultsSummary

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Summary of Stan Model Fit Results: Full-Scale (850K sites)

Gamma priors (using exact gamma fits)

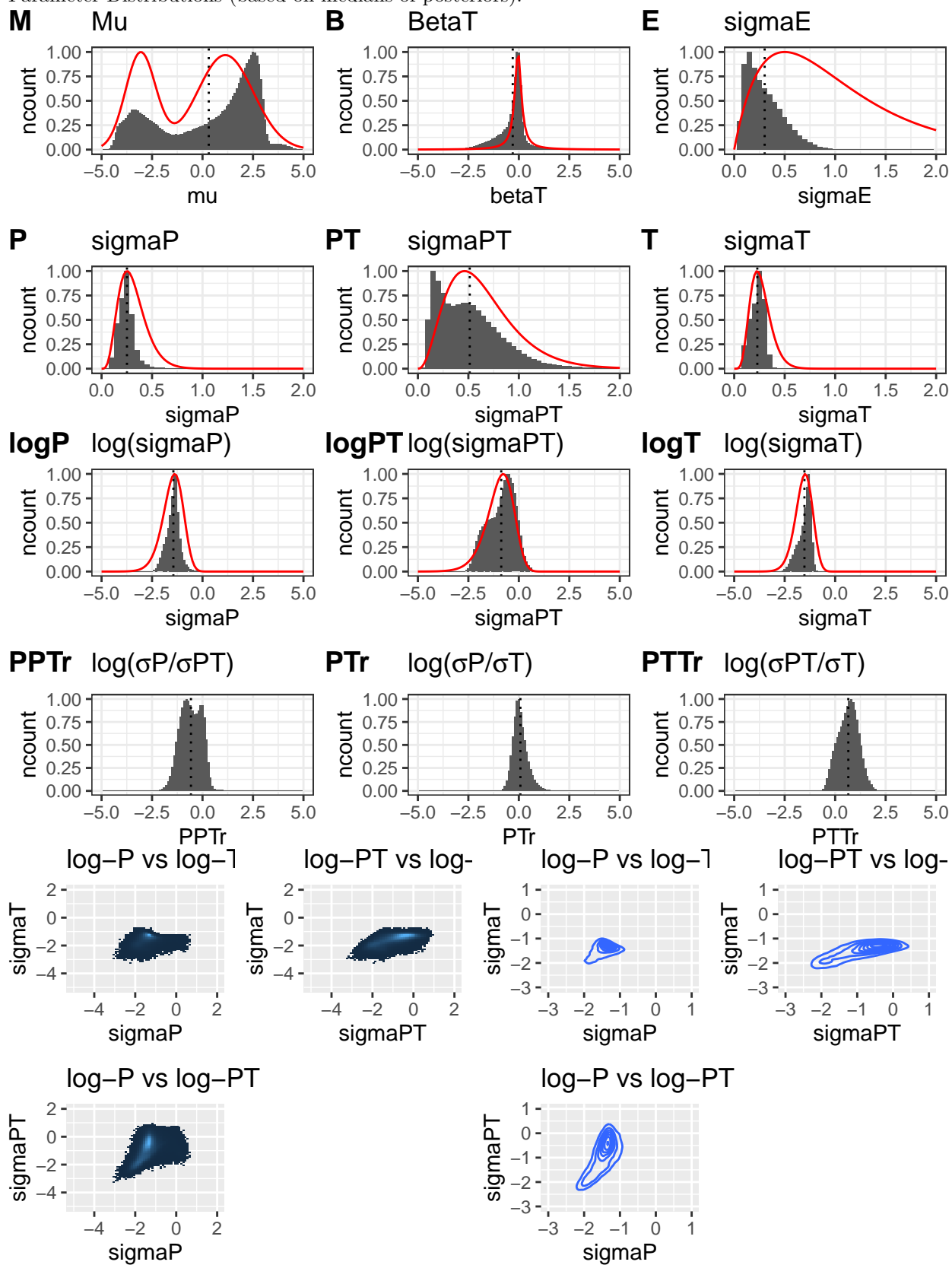
n\_eff + Rhat Summary:

	Avg n_eff	Min n_eff	< Site	# <500	% <500	# <100	% <100
mu	3419.77	3.12	568675	5984	0.69	1292	0.15
betaT	3341.31	3.28	96428	4695	0.54	1276	0.15
sigmaP	1105.84	2.89	565012	29317	3.38	1622	0.19
sigmaPT	2094.22	2.70	568675	10167	1.17	1491	0.17
sigmaT	443.82	2.70	402195	581458	67.14	7098	0.82
sigmaE	491.21	2.41	559333	601747	69.48	38196	4.41
lp____	321.14	2.06	252681	737713	85.18	71598	8.27

	Avg Rhat	Max Rhat	< Site	# >1.1	% >1.1	# >1.01	% >1.01
mu	1.00	1.59	568675	289	0.03	5255	0.61
betaT	1.00	1.58	455868	342	0.04	4357	0.50
sigmaP	1.00	1.72	565012	410	0.05	40604	4.69
sigmaPT	1.00	1.97	568675	420	0.05	11962	1.38
sigmaT	1.01	1.95	402195	1098	0.13	356416	41.15
sigmaE	1.01	2.29	559333	3998	0.46	440810	50.90
lp____	1.02	5.79	418402	9146	1.06	586110	67.67

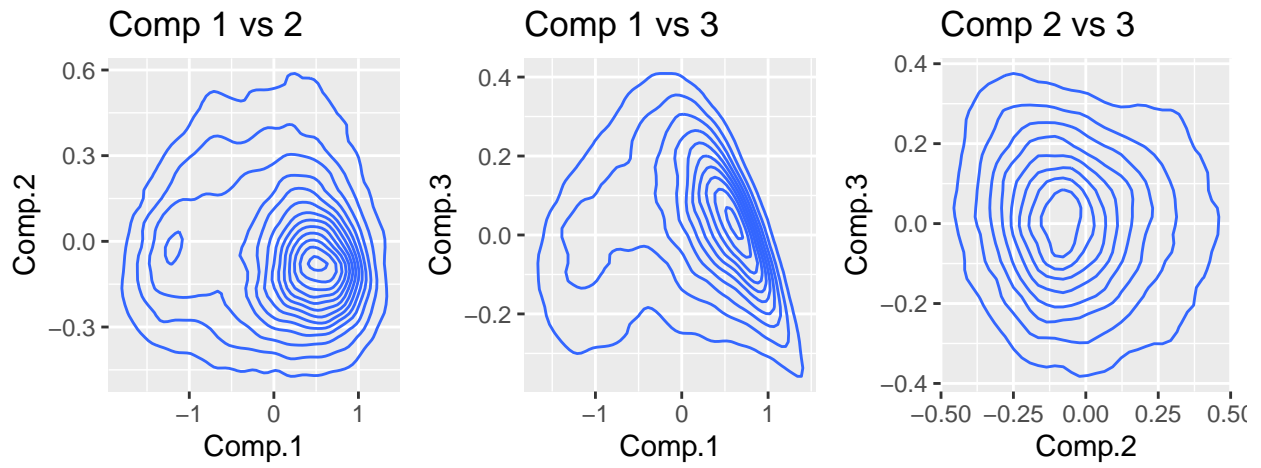
[1] "Problem sites: 568675 96428 565012 402195 559333 252681 455868 418402"

Parameter Distributions (based on medians of posteriors):



Principal Component Analysis (on all sites log-sigma values)

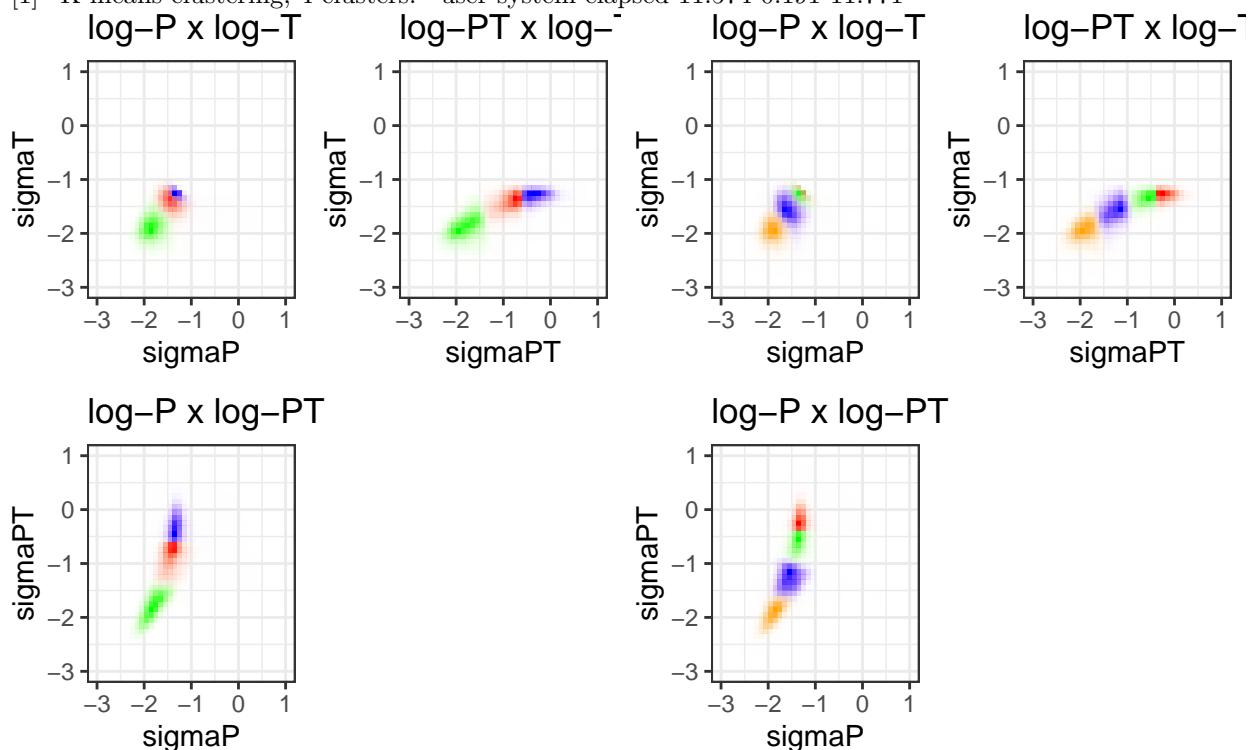
	sigmaP	sigmaPT	sigmaT	Frac. var explained
Comp.1	0.3163	0.8919	0.3232	0.8262
Comp.2	0.8413	-0.1062	-0.5301	0.1157
Comp.3	0.4385	-0.4395	0.7839	0.0581



Clustering Analysis:

[1] "K-means clustering, 3 clusters:" user system elapsed 8.372 0.207 8.584

[1] "K-means clustering, 4 clusters:" user system elapsed 11.574 0.191 11.771



[1] "Fuzzy C-means clustering, 3 clusters:" user system elapsed 14.072 0.140 14.220

[1] "Fuzzy C-means clustering, 4 clusters:" user system elapsed 21.958 0.222 22.898

