

StanResultsSummary

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

Relaxed Gamma priors (using relaxed gamma fits with x2 variance)

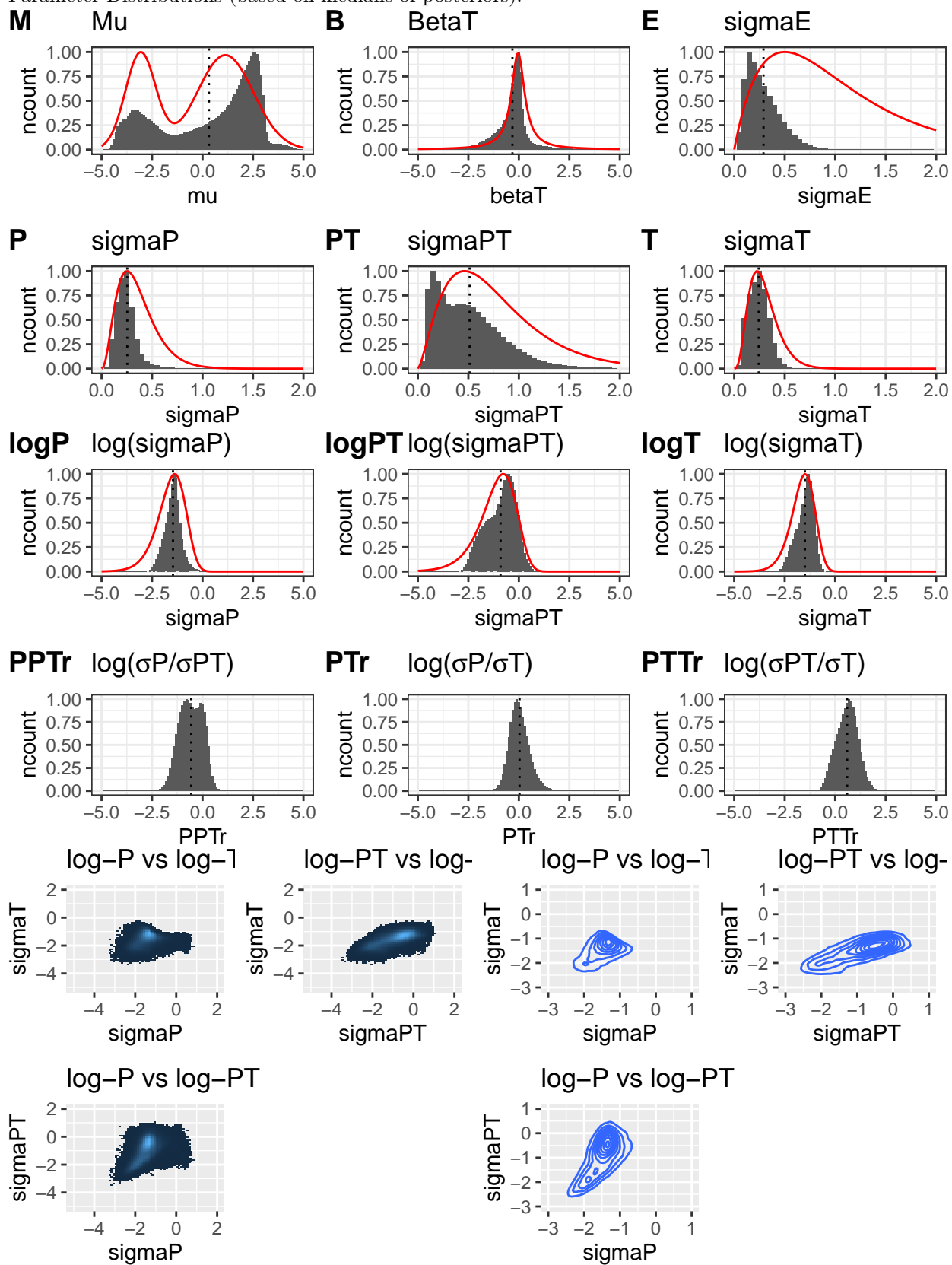
n_eff + Rhat Summary:

	Avg n_eff	Min n_eff	< Site	# <500	% <500	# <100	% <100
mu	3345.81	2.86	737448	8287	0.96	1423	0.16
betaT	3222.62	2.79	285608	5797	0.67	1391	0.16
sigmaP	836.68	2.10	737448	158376	18.29	2343	0.27
sigmaPT	1731.52	2.20	737448	42994	4.96	1763	0.20
sigmaT	296.62	2.58	60271	821687	94.87	20330	2.35
sigmaE	391.24	2.40	275322	678451	78.33	52038	6.01
lp____	245.80	2.08	678834	850844	98.24	71705	8.28

	Avg Rhat	Max Rhat	< Site	# >1.1	% >1.1	# >1.01	% >1.01
mu	1.00	2.02	708496	322	0.04	7032	0.81
betaT	1.00	1.73	285608	334	0.04	5247	0.61
sigmaP	1.01	4.28	737448	485	0.06	116293	13.43
sigmaPT	1.00	3.13	737448	471	0.05	41886	4.84
sigmaT	1.02	2.09	60271	1600	0.18	551083	63.63
sigmaE	1.02	2.29	275322	5003	0.58	504705	58.27
lp____	1.02	4.77	678834	8635	1.00	687383	79.37

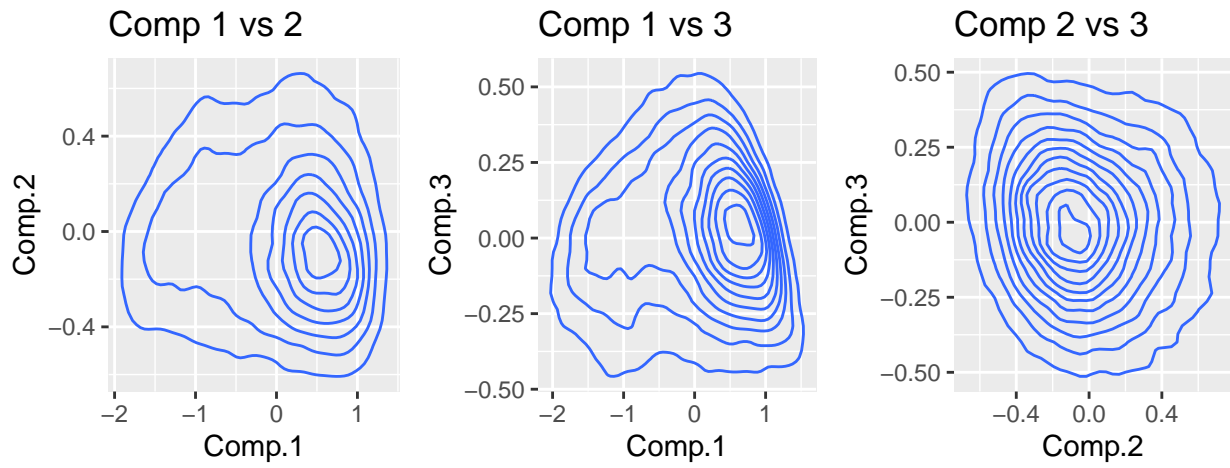
[1] "Problem sites: 737448 285608 60271 275322 678834 708496"

Parameter Distributions (based on medians of posteriors):



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

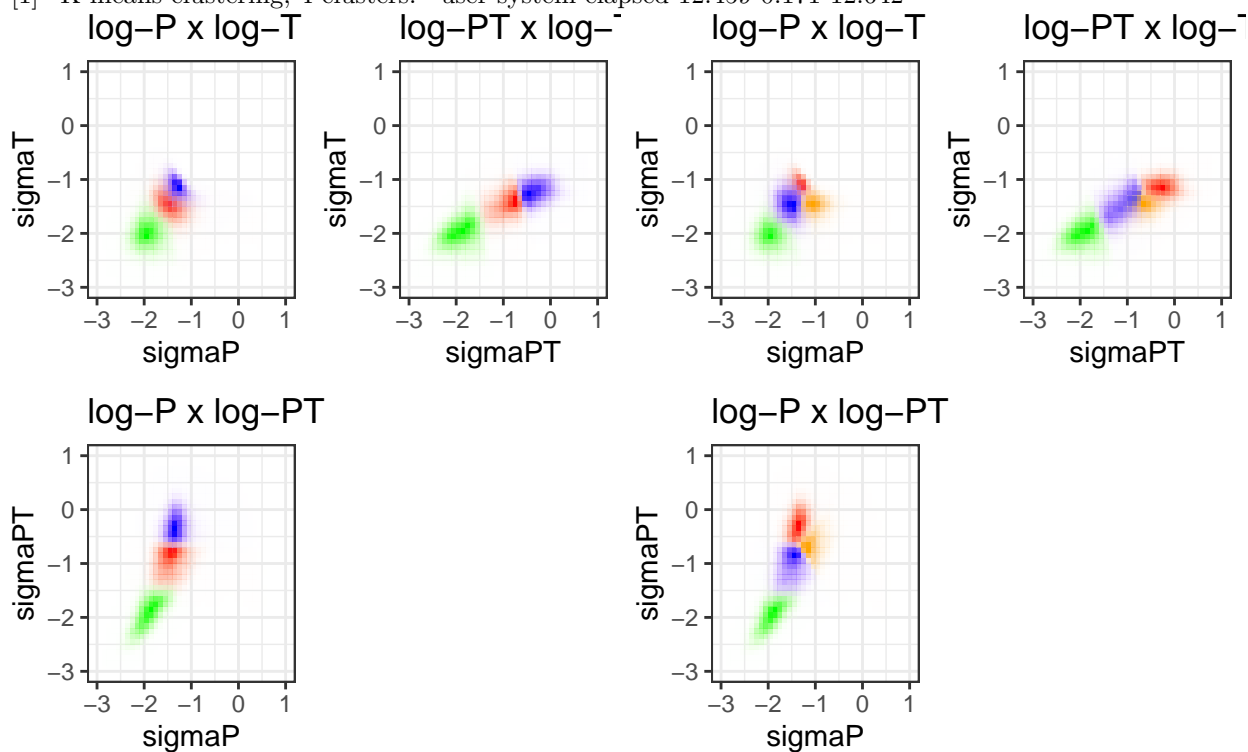
	sigmaP	sigmaPT	sigmaT	Frac. var explained
Comp.1	0.3337	0.8572	0.3922	0.7906
Comp.2	0.8216	-0.0606	-0.5668	0.1431
Comp.3	0.4622	-0.5114	0.7245	0.0663



Clustering Analysis:

[1] "K-means clustering, 3 clusters:" user system elapsed 7.453 0.174 7.636

[1] "K-means clustering, 4 clusters:" user system elapsed 12.459 0.171 12.642



[1] "Fuzzy C-means clustering, 3 clusters:" user system elapsed 13.716 0.128 13.854

[1] "Fuzzy C-means clustering, 4 clusters:" user system elapsed 22.685 0.156 22.857

