

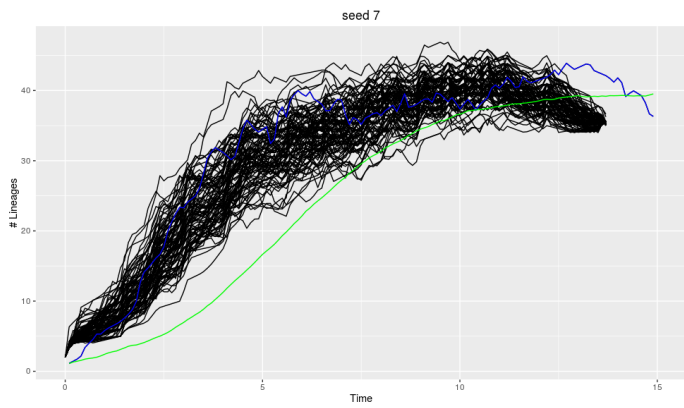
1 Parameter Estimation

MLE				reconstructed from 0.8,0.0175,0.1				reconstructed from MLE			
λ	β	μ	K	λ	β	μ	K	λ	β	μ	K
0.76	0.0165	0.10	40.2	0.72	0.0152	0.09	41.4	0.70	0.0149	0.09	41.3
0.84	0.0188	0.09	39.6	0.97	0.0223	0.07	40.3	0.98	0.0226	0.07	40.3
0.93	0.0213	0.10	39.1	0.71	0.0153	0.10	39.4	0.73	0.0158	0.10	39.7
0.90	0.0201	0.10	39.6	0.78	0.0167	0.09	41.2	0.82	0.0179	0.09	40.9
0.83	0.0186	0.10	39.5	0.65	0.0133	0.09	41.9	0.64	0.0133	0.09	41.7
1.05	0.0232	0.09	41.6	0.72	0.0149	0.07	44.0	0.76	0.0154	0.07	44.2
0.98	0.0224	0.10	39.4	0.72	0.0153	0.09	40.9	0.78	0.0170	0.09	40.5
0.63	0.0132	0.11	39.5	0.63	0.0122	0.09	43.8	0.60	0.0116	0.09	43.9
1.00	0.0219	0.08	41.9	0.80	0.0168	0.06	43.5	0.82	0.0171	0.07	44.0
0.76	0.0168	0.12	37.9	0.62	0.0132	0.11	38.8	0.65	0.0137	0.12	38.5
0.87	0.0193	0.10	39.8	0.73	0.0155	0.09	41.5	0.75	0.0159	0.09	41.5

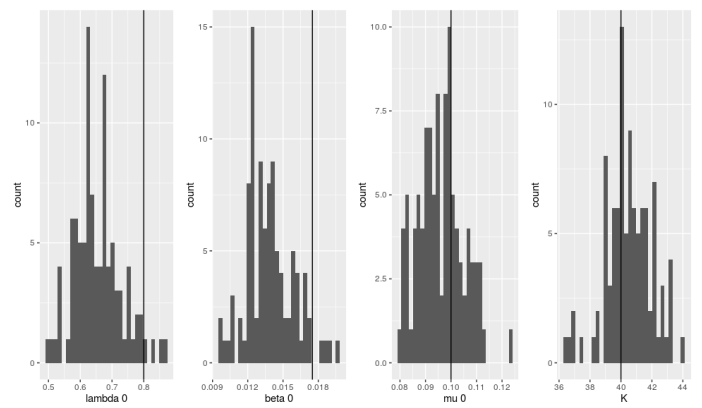
2 Example (seed 7)

Table 1: EM iterations

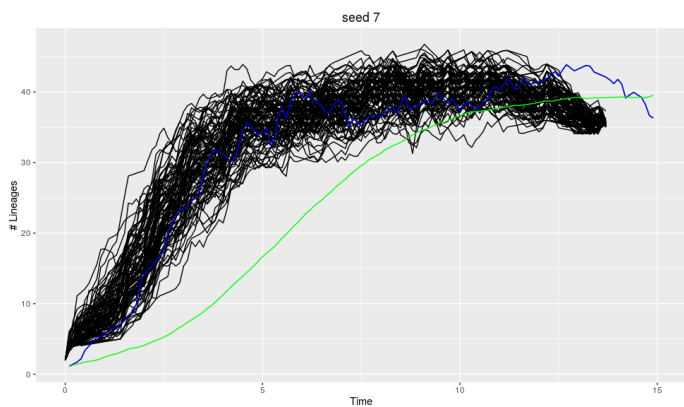
it	λ	β	μ	K
1	1.43	0.015	0.55	58
2	1.09	0.01	0.43	66
3	0.85	0.007	0.36	70
4	0.71	0.0055	0.32	71
5	0.63	0.005	0.28	69
6	0.61	0.0055	0.25	65
7	0.59	0.006	0.23	61
8	0.57	0.0065	0.20	57
9	0.55	0.007	0.18	53
10	0.53	0.0075	0.15	50
11	0.51	0.008	0.13	47
12	0.51	0.009	0.11	44
13	0.51	0.0095	0.10	43
14	0.49	0.0095	0.08	43
15	0.47	0.0095	0.07	42
16	0.45	0.0095	0.06	41
17	0.43	0.0095	0.06	39
18	0.41	0.009	0.05	40
19	0.43	0.01	0.04	39
20	0.39	0.009	0.03	40
21	0.39	0.009	0.03	40
22	0.37	0.0085	0.03	40
23	0.35	0.008	0.02	41
24	0.37	0.009	0.02	39
25	0.37	0.009	0.01	39
26	0.37	0.009	0.01	40
27	0.35	0.0085	0.01	40
28	0.35	0.0085	0.01	40
29	0.35	0.0085	0.01	40
30	0.35	0.0085	0.01	40



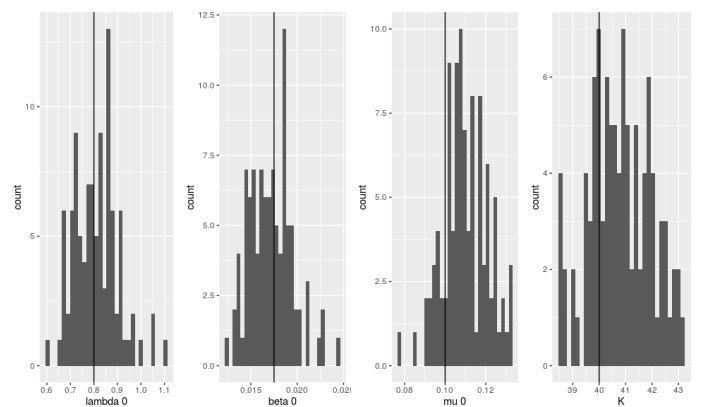
(a) LTT plot. In blue the real tree.



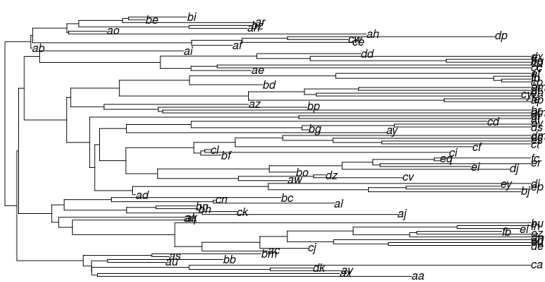
(b) Parameter estimates of reconstr trees from real pars



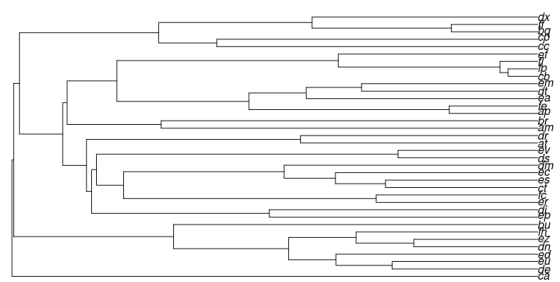
(c) LTT plot.



(d) Parameter estimates of reconstr trees from real MLE



(e) complete phylo tree



(f) observed phylo tree