Estimation Summary Report

04 January 2020 02::19::53 pm

AIC: 2120.09

Log-likelihood: -1002.04

Release: -168.965

A1: -101.305

A2: -10.3565

A3: -115.967

A4: -109.299

A5: -107.879

A6: -94.2723

A8: -85.493

A9: -70.3049

A10: -34.1082

A11: -93.3007

A12: -2.71585

A13: -1.84347

A14: -11.516

A15: -8.34595

A16: -1.96731

A17: -321.727

A18: -1.78103

A19: 0

B1: -16.7133

B2: 0

C1: -0.36969

D1: 0

E1: -2.10609

E2: -1.96474

F1: -0.984526

B1aux: -5.66448

C1aux: -1.65082

D1aux: 2.32269

A15aux: 25.9069

A16aux: -2.87516

A17aux: -2.03651

A18aux: 353.337

A19aux: -4.07731

E1aux: -4.01998

Dimension of the Mnimum Sufficient Statistic: 69

Number of parameters: 58

Categories and Corresponding Counts by Likelihood

"Release"

Category	Counts	Category	Counts	Category	Counts
RA1	343	RA2	0	RA3	0
RA4	0	RA5	0	RA6	0
RA8	0	RA9	0	RA10	0

RA11	0	RA12	0	RA13	0
RA14	0	RA15	0	RA16	0
RA17	0	RA18	0	RA19	0
RB1	0	RB2	0	RC1	0
RM	0	RE1	0	RE2	0
RF1	0	Rx	4		

"A1"

Total observed counts: 343

Category	Counts	Category	Counts	Category	Counts
A1 A2	37	A1 A3	177	A1 A4	26
A1 A5	1	A1 A6	0	A1 A8	0
A1 A9	0	A1 A10	0	A1 A11	0
A1 A12	0	A1 A13	0	A1 A14	0
A1 A15	0	A1 A16	0	A1 A17	0
A1 A18	0	A1 A19	0	A1 B1	0
A1 B2	0	A1 C1	0	A1 D1	0
A1 E1	0	A1 E2	0	A1 F1	0
A1 x	102				

"A2"

Category	Counts	Category	Counts	Category	Counts
A2 A3	28	A2 A4	5	A2 A5	0
A2 A6	0	A2 A8	0	A2 A9	0
A2 A10	0	A2 A11	0	A2 A12	0
A2 A13	0	A2 A14	0	A2A15	0
A2 A16	0	A2 A17	0	A2A18	0
A2 A19	0	A2 B1	0	A2 B2	0

A2 C1	0	A2 D1	0	A2 E1	0
A2 E2	0	A2 F1	0	A2 x	4

"A3"

Total observed counts: 205

Category	Counts	Category	Counts	Category	Counts
A3 A4	176	A3 A5	0	A3A6	0
A3 A8	0	A3 A9	0	A3A10	0
A3 A11	0	A3 A12	0	A3A13	0
A3 A14	0	A3 A15	0	A3A16	0
A3A17	0	A3 A18	0	A3 A19	0
A3 B1	0	A3 B2	0	A3 C1	0
A3 D1	0	A3 E1	0	A3 E2	0
A3 F1	0	A3 x	29		

"A4"

Total observed counts: 207

Category	Counts	Category	Counts	Category	Counts
A4 A5	158	A4 A6	0	A4 A8	0
A4 A9	0	A4 A10	0	A4 A11	0
A4 A12	0	A4 A13	0	A4 A14	0
A4 A15	0	A4 A16	0	A4 A17	0
A4 A18	0	A4 A19	0	A4 B1	0
A4 B2	0	A4 C1	0	A4 D1	0
A4 E1	0	A4 E2	0	A4 F1	0
A4 x	49				

"A5"

Category	Counts	Category	Counts	Category	Counts
A5 A6	140	A5 A8	2	A5A9	0

A5 A10	0	A5 A11	0	A5 A12	0
A5 A13	0	A5 A14	0	A5 A15	0
A5 A16	0	A5 A17	0	A5 A18	0
A5 A19	0	A5 B1	0	A5 B2	0
A5 C1	0	A5 D1	0	A5 E1	0
A5 E2	0	A5 F1	0	A5 x	17

"A6"

Total observed counts: 140

Category	Counts	Category	Counts	Category	Counts
A6 A8	98	A6 A9	21	A6A10	7
A6 A11	7	A6 A12	0	A6 A13	0
A6 A14	0	A6 A15	0	A6A16	0
A6 A17	0	A6 A18	0	A6A19	0
A6 B1	0	A6 B2	0	A6 C1	0
A6 D1	0	A6 E1	0	A6 E2	0
A6 F1	0	A6 x	7		

"A8"

Total observed counts: 100

Category	Counts	Category	Counts	Category	Counts
A8 A9	73	A8 A10	14	A8 A11	13
A8 A12	0	A8 A13	0	A8 A14	0
A8 A15	0	A8 A16	0	A8 A17	0
A8 A18	0	A8 A19	0	A8 B1	0
A8 B2	0	A8 C1	0	A8 D1	0
A8 E1	0	A8 E2	0	A8 F1	0
A8 x	0				

"A9"

Category	Counts	Category	Counts	Category	Counts
A9 A10	46	A9 A11	47	A9A12	0
A9 A13	0	A9 A14	0	A9A15	0
A9 A16	0	A9 A17	0	A9A18	0
A9 A19	0	A9 B1	0	A9 B2	0
A9 C1	0	A9 D1	0	A9 E1	0
A9 E2	0	A9 F1	0	A9 x	1

"A10"

Total observed counts: 67

Category	Counts	Category	Counts	Category	Counts
A10 A11	67	A10 A12	0	A10 A13	0
A10 A14	0	A10 A15	0	A10 A16	0
A10A17	0	A10 A18	0	A10 A19	0
A10 B1	0	A10 B2	0	A10 C1	0
A10 D1	0	A10 E1	0	A10 E2	0
A10 F1	0	A10 x	0		

"A11"

Total observed counts: 134

Category	Counts	Category	Counts	Category	Counts
A11 A12	73	A11 A13	6	A11 A14	0
A11 A15	0	A11 A16	0	A11 A17	0
A11 A18	0	A11 A19	0	A11 B1	47
A11 B2	0	A11 C1	1	A11 D1	0
A11 E1	6	A11 E2	0	A11 F1	0
A11 x	1				

"A12"

Total observed counts: 73

Counts Category Counts	Category Counts	Car	egory Counts
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5

A12A13	72	A12 A14	0	A12A15	0
A12A16	0	A12 A17	0	A12A18	0
A12A19	0	A12 F1	0	A12 x	1

"A13"

Total observed counts: 78

Category	Counts	Category	Counts	Category	Counts
A13A14	76	A13 A15	0	A13 A16	0
A13A17	0	A13 A18	0	A13 A19	0
A13 F1	0	A13 x	2		

"A14"

Total observed counts: 76

Category	Counts	Category	Counts	Category	Counts
A14 A15	43	A14 A16	4	A14 A17	0
A14 A18	0	A14 A19	0	A14 F1	0
A14 x	29				

"A15"

Total observed counts: 43

Category	Counts	Category	Counts	Category	Counts
A15A16	19	A15 A17	2	A15A18	0
A15A19	0	A15 x	22		

"A16"

Total observed counts: 20

Category	Counts	Category	Counts	Category	Counts
A16A17	17	A16 A18	0	A16 A19	0
A16 x	3				

"A17"

	Category	Counts	Category	Counts	Category	Counts
ı						

A17A18	22	A17 A19	0	A17 x	1

"A18"

Total observed counts: 22

Category	Counts	Category	Counts	Category	Counts
A18 A19	18	A18 x	4		

"A19"

Total observed counts: 18

Category	Counts	Category	Counts	Category	Counts
A19 x	18				

"B1"

Total observed counts: 47

Category	Counts	Category	Counts	Category	Counts
B1 B2	11	B1 C1	1	B1 D1	6
B1 E1	23	B1 E2	2	B1 A16	0
B1 A17	0	B1 A18	0	B1 A19	0
B1 x	4				

"B2"

Total observed counts: 11

Category	Counts	Category	Counts	Category	Counts
B2 A16	0	B2 A17	0	B2 A18	0
B2 A19	0	B2 x	11		

"C1"

Total observed counts: 2

Category	Counts	Category	Counts	Category	Counts
C1 A16	0	C1 A17	0	C1 A18	0
C1 A19	0	C1 x	2		

"D1"

Category	Counts	Category	Counts	Category	Counts
D1 A17	0	D1 A18	0	D1 A19	0
D1 x	6				

"E1"

Total observed counts: 29

Category	Counts	Category	Counts	Category	Counts
E1 E2	21	E1 A17	0	E1 A18	0
E1 A19	0	E1 x	8		

"E2"

Total observed counts: 23

Category	Counts	Category	Counts	Category	Counts
E2A17	4	E2 A18	0	E2A19	0
E2 x	19				

"F1"

Total observed counts: 4

Category	Counts	Category	Counts	Category	Counts
F1 A16	1	F1 A17	0	F1 A18	0
F1 A19	0	F1 x	3		

"B1aux"

Total observed counts: 47

Catego	ory	Counts	Category	Counts	Category	Counts
B1ab		18	B1a0	2	B10b	27

"C1aux"

Total observed counts: 2

Category	Counts	Category	Counts	Category	Counts
C1ab	2	C1a0	0	C10b	0

"D1aux"

Category	Counts	Category	Counts	Category	Counts
D1ab	0	D1a0	6	D10b	0

"A15aux"

Total observed counts: 43

Category	Counts	Category	Counts	Category	Counts
A15ab	41	A15a0	2	A150b	0

"A16aux"

Total observed counts: 20

Category	Counts	Category	Counts	Category	Counts
A16ab	20	A16a0	0	A160b	0

"A17aux"

Total observed counts: 23

Category	Counts	Category	Counts	Category	Counts
A17ab	19	A17a0	4	A170b	0

"A18aux"

Total observed counts: 22

Category	Counts	Category	Counts	Category	Counts
A18ab	22	A18a0	0	A180b	0

"A19aux"

Total observed counts: 18

Category	Counts	Category	Counts	Category	Counts
A19ab	10	A19a0	2	A190b	6

"E1aux"

Total observed counts: 29

Category	Counts	Category	Counts	Category	Counts
E1ab	15	E1a0	4	E10b	10

Parameter Estimates

Parameter	Estimate	s.e.
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sA1	0.779295	na
sA2	0.826904	na
sA3	0.758527	na
sA4	0.581907	na
sA5	0.455732	na
sA6	0.553624	na
sA8	0.597479	na
sA9	0.598388	na
sA10	0.598304	na
sA11	0.60105	na
sA12	0.598045	na
sA13	0.944435	na
sA14	0.950984	na
sA15	0.489979	na
sA16	0.393976	na
sA17	0.920596	na
sA18	1.00159	na
sA19	0.883873	na
phiB1B2	0.414891	na
phiB1C1	0.0814348	na
phiB1D1	0.152746	na
phiB1E1	0.271457	na
psiA1	0.508321	na
psiA2	0.663473	na
sC1	0.168836	na
sE1	0.742819	na
sE2	0.109324	na

sF1	0.363024	na
pA1	0.750107	na
pA2	0.455287	na
рАЗ	0.723202	na
pA4	0.617176	na
рА5	0.626369	na
рА6	0.601388	na
рА8	0.527117	na
рА9	0.518665	na
pA10	0.499797	na
pA12	0.708763	na
pA15a	1.94772	na
pA15b	0.98368	na
pA17b	0.89514	na
pA18a	2	na
pA18b	2	na
pA19a	0.724022	na
pA19b	0.94758	na
рВ1а	0.408392	na
pB1b	0.723606	na
pB2	0.859989	na
pC1a	0.609233	na
pC1b	0.609233	na
pD1a	0.822678	na
pD1b	-0.358823	na
pE1a	0.632567	na
pE1b	0.880775	na

pE2	1.08647	na
pF1	-0.17755	na
pA16a	0.928245	na
pA16b	0.928245	na

Convenience Functions

	1	
Name	Estimate	s.e.
psiB	0.491679	na
psiF	0.336527	na
qA1	0.249893	na
qA2	0.544713	na
qA3	0.276798	na
qA4	0.382824	na
qA5	0.373631	na
qA6	0.398612	na
qA8	0.472883	na
qA9	0.481335	na
qA10	0.500203	na
qA11	0	na
qA12	0.291237	na
qA13	0	na
qA14	0	na
qA15a	-0.947725	na
qA15b	0.0163205	na
qA15	-0.0154673	na
pA15	1.01547	na
qA16a	0.0717554	na

qA16b	0.0717554	na
qA16	0.00514884	na
pA16	0.994851	na
qA17a	0	na
qA17b	0.10486	na
qA17	0	na
pA17	1	na
qA18a	-1	na
qA18b	-1	na
qA18	1	na
pA18	4.23598e-07	na
qA19a	0.275978	na
qA19b	0.0524197	na
qA19	0.0144667	na
pA19	0.985533	na
qE1a	0.367433	na
qE1b	0.119225	na
qE1	0.0438073	na
pE1	0.956193	na
qE2	-0.0864689	na
qD1a	0.177322	na
qD1b	1.35882	na
qD1	0.240949	na
pD1	0.759051	na
qB1a	0.591608	na
qB1b	0.276394	na
qB1	0.163517	na

pB1	0.836483	na
qB2	0.140011	na
qC1a	0.390767	na
qC1b	0.390767	na
qC1	0.152699	na
pC1	0.847301	na
qF1	1.17755	na
xA19	1	na
xA18	0.128913	na
xA17	0.127526	na
xA16	0.0794042	na
xA15	0.606185	na
xA14	0.630682	na
xA13	0.0490163	na
xA12	0.0555647	na
xB2	1	na
xC1	0.831233	na
xD1	1	na
xE1	0.199972	na
xE2	0.890676	na
xB1	0.187078	na
xF1	0.637124	na
xA11	0.415869	na
xA10	0.39895	na
xA9	0.521091	na
xA8	0.551699	na
xA6	0.558397	na

xA5	0.569603	na
xA4	0.641258	na
хА3	0.560945	na
xA2	0.359248	na
xA1	0.33491	na
х0	0.285925	na
gamma_B1A16	0.00209948	na
gamma_B1A17	-7.35519e-05	na
gamma_A14A16	0.0685066	na
garma_A11A16	0.000100946	na
garma_A11A17	-3.53649e-06	na
pA14	1	na
pA11	1	na
pA17a	1	na
sB1	0	na
sD1	0	na
pA13	1	na