Estimation Summary Report

04 January 2020 01::47::40 pm

AIC: 2185.72

Log-likelihood: -1033.86 Release: -186.054

A1: -124.844

A2: -11.0043

A3: -108.214

A4: -74.4352

A5: -108.12

A6: -101.011

A8: -83.8258

A9: -65.7427

A10: -32.1318

A11: -99.6491

A12: -1.94859

A13: -11.9878

A14: -11.0503

A15: -6.1402

A16: -1.42016

A17: -328.235

A18: -3.53275

A19: 0

B1: -17.3878

B2: 0

C1: -0.275295

D1: 0

E1: -1.7756

E2: -1.70871 F1: -0.996857

B1aux: -8.32973

C1aux: -1.5211

D1aux: 2.61499

A15aux: 21.608

A16aux: -5.69366

A17aux: -2.79093

A18aux: 349.435

A19aux: -4.26578

E1aux: -3.42626

Dimension of the Mnimum Sufficient Statistic: 70

Number of parameters: 59

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	A6A13	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	A13A16	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	0.763465	na
sA2	0.877234	na
sA3	0.766777	na
sA4	0.635406	na
sA5	0.550508	na
sA6	0.542539	na
sA8	0.5749	na
sA9	0.615543	na
sA10	0.61938	na
sA11	0.619044	na
sA12	0.617096	na
sA13	0.945065	na
sA14	0.802153	na
sA15	0.500305	na
sA16	0.387524	na
sA17	0.857684	na
sA18	0.589556	na
sA19	0.953606	na
phiB1B2	0.364097	na
phiB1C1	0.0567852	na
phiB1D1	0.198984	na
phiB1E1	0.251298	na
psiA1	0.493596	na
psiA2	0.623847	na
sE1	0.727921	na
sE2	0.131071	na
sF1	0.363778	na

pA1	0.728187	na
pA2	0.502086	na
pA3	0.666881	na
pA4	0.60105	na
pA6	0.612566	na
pA8	0.500191	na
рА9	0.491159	na
pA10	0.499702	na
pA12	0.616863	na
pA13	1.01072	na
pA15a	1.77472	na
pA15b	0.946301	na
pA16a	0.858612	na
pA16b	0.858612	na
pA17b	0.926124	na
pA18a	2	na
pA18b	2	na
pA19a	0.690272	na
pA19b	0.958354	na
рВ1а	0.459526	na
pB1b	0.659704	na
pB2	0.881588	na
pC1a	0.637053	na
pC1b	0.637053	na
pD1a	0.851163	na
pD1b	-0.429989	na
pE1a	0.598933	na

pE1b	0.814349	na
pE2	1.05167	na
pF1	-0.254278	na
pA5	0.677135	na
sC1	0.128961	na

Convenience Functions

Name	Estimate	s.e.
psiB	0.506404	na
psiF	0.376153	na
qA1	0.271813	na
qA2	0.497914	na
qA3	0.333119	na
qA4	0.39895	na
qA5	0.322865	na
qA6	0.387434	na
qA8	0.499809	na
qA9	0.508841	na
qA10	0.500298	na
qA11	0	na
qA12	0.383137	na
qA13	-0.0107213	na
qA14	0	na
qA15a	-0.774719	na
qA15b	0.0536989	na
qA15	-0.0416016	na
pA15	1.0416	na

qA16a	0.141388	na
qA16b	0.141388	na
qA16	0.0199905	na
pA16	0.980009	na
qA17a	0	na
qA17b	0.0738758	na
qA17	0	na
pA17	1	na
qA18a	-1	na
qA18b	-1	na
qA18	0.99999	na
pA18	5.05815e-07	na
qA19a	0.309728	na
qA19b	0.0416462	na
qA19	0.012899	na
pA19	0.987101	na
qE1a	0.401067	na
qE1b	0.185651	na
qE1	0.0744586	na
pE1	0.925541	na
qE2	-0.0516693	na
qD1a	0.148837	na
qD1b	1.42999	na
qD1	0.212835	na
pD1	0.787165	na
qB1a	0.540474	na
qB1b	0.340296	na

qB1	0.183921	na
pB1	0.816079	na
qB2	0.118412	na
qC1a	0.362947	na
qC1b	0.362947	na
qC1	0.131731	na
pC1	0.868269	na
qF1	1.25428	na
xA19	1	na
xA18	0.0586941	na
xA17	0.445048	na
xA16	0.142316	na
xA15	0.613579	na
xA14	0.642149	na
xA13	0.197847	na
xA12	0.0529301	na
xB2	1	na
xC1	0.871406	na
xD1	1	na
xE1	0.239398	na
xE2	0.868929	na
xB1	0.225298	na
xF1	0.637257	na
xA11	0.40203	na
xA10	0.380956	na
xA9	0.498669	na
xA8	0.540647	na

xA6	0.58045	na
xA5	0.57947	na
xA4	0.552487	na
хА3	0.504647	na
xA2	0.362124	na
xA1	0.280937	na
х0	0.294835	na
garma_B1A16	0.000964673	na
garma_B1A17	-7.57022e-05	na
gamma_A14A16	0.0808358	na
garma_A11A16	5.5445e-05	na
gamma_A11A17	-4.35102e-06	na
pA14	1	na
pA11	1	na
pA17a	1	na
sB1	0	na
sD1	0	na