Estimation Summary Report

04 January 2020 02::48::42 pm

AIC: 1980.94

Log-likelihood: -934.469

Release: -128.11

A1: -133.253

A2: -17.5163

A3: -112.444

A4: -51.7683

A5: -98.9672

A6: -77.6969

A8: -61.4092

A9: -41.4713

A10: -20.5516

A11: -86.3112

A12: -27.8988

A13: -31.4039

A14: -8.3753

A15: -5.51899

A16: -7.34711

A17: -329.298

A18: -1.54313

A19: 0

B1: -22.1561

B2: 0

C1: -0.196889

D1: 0

E1: -1.80574

E2: -1.77547

F1: -0.943827 B1aux: -13.0927

C1aux: -1.32359

D1aux: 0

A15aux: -10.2177

A16aux: 6.58487

A17aux: -2.18531

A18aux: 360.048

A19aux: -3.09569

E1aux: -3.42421

Dimension of the Mnimum Sufficient Statistic: 68

Number of parameters: 56

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	0.830819	na
sA2	0.748369	na
sA3	0.709959	na
sA4	0.646996	na
sA5	0.557717	na
sA6	0.512604	na
sA8	0.651556	na
sA9	0.728827	na
sA10	0.739444	na
sA11	0.735842	na
sA12	0.736231	na
sA13	0.648861	na
sA14	0.610322	na
sA15	0.568571	na
sA16	0.383469	na
sA17	0.991312	na
phiB1B2	0.267405	na
phiB1C1	0.0635323	na
phiB1D1	0.268095	na
phiB1E1	0.217177	na
psiA1	0.486216	na
psiA2	0.588214	na
sC1	0.0937757	na
sE1	0.736058	na
sE2	0.124103	na
sF1	0.325306	na
pA1	0.793943	na

pA2	0.403977	na
pA3	0.528315	na
pA4	0.578814	na
pA5	0.792059	na
pA6	0.696582	na
pA8	0.48918	na
рА9	0.475895	na
pA10	0.499332	na
pA12	0.5679	na
pA17b	0.90316	na
pA18a	2	na
pA18b	2	na
рА19а	0.671208	na
pA19b	0.895831	na
рВ1а	0.487942	na
pB1b	0.557968	na
pB2	0.923078	na
pC1a	0.680674	na
pC1b	0.680674	na
pD1a	0.614621	na
pE1a	0.58413	na
pE1b	0.763564	na
pE2	1.02726	na
pA16a	1.16315	na
pA16b	1.16315	na
sA18	0.939486	na
sA19	0.858887	na

pF1	-0.390658	na
pA15b	0.700158	na

Convenience Functions

Name	Estimate	s.e.
psiB	0.513784	na
psiF	0.411786	na
qA1	0.206057	na
qA2	0.596023	na
qA3	0.471685	na
qA4	0.421186	na
qA5	0.207941	na
qA6	0.303418	na
qA8	0.51082	na
qA9	0.524105	na
qA10	0.500668	na
qA11	0	na
qA12	0.4321	na
qA13	0	na
qA14	0	na
qA15a	0	na
qA15b	0.299842	na
qA15	0	na
pA15	1	na
qA16a	-0.163151	na
qA16b	-0.163151	na
qA16	0.0266181	na

pA16	0.973382	na
qA17a	0	na
qA17b	0.0968395	na
qA17	0	na
pA17	1	na
qA18a	-1	na
qA18b	-1	na
qA18	1	na
pA18	3.12233e-07	na
qA19a	0.328792	na
qA19b	0.104169	na
qA19	0.0342499	na
pA19	0.96575	na
qE1a	0.41587	na
qE1b	0.236436	na
qE1	0.0983265	na
pE1	0.901673	na
qE2	-0.0272643	na
qD1a	0.385379	na
qD1b	1	na
qD1	0.385379	na
pD1	0.614621	na
qB1a	0.512058	na
qB1b	0.442032	na
qB1	0.226346	na
рВ1	0.773654	na
qB2	0.0769216	na

qC1a	0.319326	na
qC1b	0.319326	na
qC1	0.101969	na
pC1	0.898031	na
qF1	1.39066	na
xA19	1	na
xA18	0.170529	na
xA17	0.220724	na
xA16	0.00868765	na
xA15	0.61662	na
xA14	0.65113	na
xA13	0.389678	na
xA12	0.351139	na
xB2	1	na
xC1	0.906246	na
xD1	1	na
xE1	0.246365	na
xE2	0.875897	na
xB1	0.31881	na
xF1	0.674769	na
xA11	0.345378	na
xA10	0.264158	na
xA9	0.358352	na
xA8	0.408056	na
xA6	0.484257	na
xA5	0.562714	na
xA4	0.507542	na

xA3	0.491312	na
xA2	0.45457	na
xA1	0.45439	na
х0	0.246971	na
gamma_B1A16	0.000607512	na
garma_B1A17	-3.71525e-05	na
gamma_A14A16	0.105918	na
garma_A11A16	5.20143e-05	na
gamma_A11A17	-3.18094e-06	na
pA14	1	na
pA11	1	na
pA17a	1	na
sB1	0	na
sD1	0	na
pA13	1	na
pA15a	1	na
pD1b	0	na