

Estimation Summary Report

04 January 2020 04:39:19 pm

AIC: 1703.3

Log-likelihood: -798.649

Release: -189.288

A1: -48.9757

A2: -9.12613

A3: -115.878

A4: -10.1815

A5: -62.7352

A6: -53.7863

A8: -63.9246

A9: -55.3158

A10: -27.7433

A11: -88.9721

A12: -13.6406

A13: -19.1159

A14: -0.339203

A15: -15.1116

A16: -1.54496

A17: -360.724

A18: -1.60964

A19: 0

B1: -12.7645

B2: 0

C1: 0

D1: 0

E1: -1.6684

E2: -1.88576

F1: -0.863764

B1aux: -8.90337

C1aux: -1.48002

A15aux: -15.891

A16aux: -0.593347

A17aux: -1.69446

A18aux: 392.469

A19aux: -3.6998

E1aux: -3.65973

Dimension of the Minimum Sufficient Statistic: 63

Number of parameters: 53

Categories and Corresponding Counts by Likelihood

"Release"

Total observed counts: 347

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
RD1	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"

Total observed counts: 37

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	A2 A15	0
A2 A16	0	A2 A17	0	A2 A18	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
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"A3"

Total observed counts: 205

Category	Counts	Category	Counts	Category	Counts
A3 A4	176	A3 A5	0	A3 A6	0
A3 A8	0	A3 A9	0	A3 A10	0
A3 A11	0	A3 A12	0	A3 A13	0
A3 A14	0	A3 A15	0	A3 A16	0
A3 A17	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"

Total observed counts: 159

Category	Counts	Category	Counts	Category	Counts
A5 A6	140	A5 A8	2	A5 A9	0
A5 A10	0	A5 A11	0	A5 A12	0

A5A13	0	A5A14	0	A5A15	0
A5A16	0	A5A17	0	A5A18	0
A5A19	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
A6A8	98	A6A9	21	A6A10	7
A6A11	7	A6A12	0	A6A13	0
A6A14	0	A6A15	0	A6A16	0
A6A17	0	A6A18	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
A8A9	73	A8A10	14	A8A11	13
A8A12	0	A8A13	0	A8A14	0
A8A15	0	A8A16	0	A8A17	0
A8A18	0	A8A19	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"

Total observed counts: 94

Category	Counts	Category	Counts	Category	Counts
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A9A10	46	A9A11	47	A9A12	0
A9A13	0	A9A14	0	A9A15	0
A9A16	0	A9A17	0	A9A18	0
A9A19	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
A10A11	67	A10A12	0	A10A13	0
A10A14	0	A10A15	0	A10A16	0
A10A17	0	A10A18	0	A10A19	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
A11A12	73	A11A13	6	A11A14	0
A11A15	0	A11A16	0	A11A17	0
A11A18	0	A11A19	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

Category	Counts	Category	Counts	Category	Counts
A12A13	72	A12A14	0	A12A15	0

A12A16	0	A12A17	0	A12A18	0
A12A19	0	A12 F1	0	A12 x	1

"A13"

Total observed counts: 78

Category	Counts	Category	Counts	Category	Counts
A13A14	76	A13A15	0	A13A16	0
A13A17	0	A13A18	0	A13A19	0
A13 F1	0	A13 x	2		

"A14"

Total observed counts: 76

Category	Counts	Category	Counts	Category	Counts
A14A15	43	A14A16	4	A14A17	0
A14A18	0	A14A19	0	A14 F1	0
A14 x	29				

"A15"

Total observed counts: 43

Category	Counts	Category	Counts	Category	Counts
A15A16	19	A15A17	2	A15A18	0
A15A19	0	A15 x	22		

"A16"

Total observed counts: 20

Category	Counts	Category	Counts	Category	Counts
A16A17	17	A16A18	0	A16A19	0
A16 x	3				

"A17"

Total observed counts: 23

Category	Counts	Category	Counts	Category	Counts
A17A18	22	A17A19	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"

Total observed counts: 6

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
E2 A17	4	E2 A18	0	E2 A19	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

Category	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

"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
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A16ab	20	A16a0	0	A160b	0
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"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.
sA1	0.749874	--na--
sA2	0.696793	--na--
sA3	0.772379	--na--
sA4	0.567843	--na--
sA5	0.63857	--na--
sA6	0.655106	--na--
sA8	0.749521	--na--
sA9	0.681705	--na--

sA10	0.671152	--na--
sA11	0.660948	--na--
sA12	0.65632	--na--
sA13	0.797004	--na--
sA14	0.723967	--na--
sA15	0.60229	--na--
sA16	0.378657	--na--
sA17	0.806421	--na--
sA19	0.865593	--na--
phiB1B2	0.259731	--na--
phiB1C1	0.0299889	--na--
phiB1D1	0.273939	--na--
phiB1E1	0.320038	--na--
psiA1	0.538818	--na--
psiA2	0.638048	--na--
sE1	0.653068	--na--
sE2	0.114849	--na--
sF1	0.24294	--na--
pA1	0.733172	--na--
pA2	0.231992	--na--
pA3	0.850948	--na--
pA4	0.643774	--na--
pA6	0.728067	--na--
pA8	0.58443	--na--
pA9	0.575486	--na--
pA10	0.498965	--na--
pA12	0.62671	--na--

pA15b	0.60126	--na--
pA16a	0.985167	--na--
pA16b	0.985167	--na--
pA17b	0.86724	--na--
pA18a	2	--na--
pA18b	2	--na--
pA19a	0.722046	--na--
pA19b	0.930161	--na--
pB1a	0.460364	--na--
pB1b	0.642534	--na--
pB2	1.15913	--na--
pC1a	0.646004	--na--
pC1b	0.646004	--na--
pD1	0.683282	--na--
pE1a	0.616358	--na--
pE1b	0.852914	--na--
pE2	1.23117	--na--
pF1	-0.854713	--na--

Convenience Functions

Name	Estimate	s.e.
psiB	0.461182	--na--
psiF	0.361952	--na--
qA1	0.266828	--na--
qA2	0.768008	--na--
qA3	0.149052	--na--
qA4	0.356226	--na--

qA5	0	--na--
qA6	0.271933	--na--
qA8	0.41557	--na--
qA9	0.424514	--na--
qA10	0.501035	--na--
qA11	0	--na--
qA12	0.37329	--na--
qA13	0	--na--
qA14	0	--na--
qA15a	0	--na--
qA15b	0.39874	--na--
qA15	0	--na--
pA15	1	--na--
qA16a	0.0148326	--na--
qA16b	0.0148326	--na--
qA16	0.000220005	--na--
pA16	0.99978	--na--
qA17a	0	--na--
qA17b	0.13276	--na--
qA17	0	--na--
pA17	1	--na--
qA18a	-1	--na--
qA18b	-1	--na--
qA18	1	--na--
pA18	7.15261e-08	--na--
qA19a	0.277954	--na--
qA19b	0.069839	--na--

qA19	0.019412	--na--
pA19	0.980588	--na--
qE1a	0.383642	--na--
qE1b	0.147086	--na--
qE1	0.0564284	--na--
pE1	0.943572	--na--
qE2	-0.231168	--na--
qD1	0.316718	--na--
qB1a	0.539636	--na--
qB1b	0.357466	--na--
qB1	0.192901	--na--
pB1	0.807099	--na--
qB2	-0.159129	--na--
qC1a	0.353996	--na--
qC1b	0.353996	--na--
qC1	0.125313	--na--
pC1	0.874687	--na--
qF1	1.85471	--na--
xA19	1	--na--
xA18	0.15121	--na--
xA17	0.15121	--na--
xA16	0.193579	--na--
xA15	0.621359	--na--
xA14	0.703815	--na--
xA13	0.276033	--na--
xA12	0.202996	--na--
xB2	1	--na--

xC1	1	--na--
xD1	1	--na--
xE1	0.213301	--na--
xE2	0.885151	--na--
xB1	0.169344	--na--
xF1	0.75707	--na--
xA11	0.380365	--na--
xA10	0.339052	--na--
xA9	0.442861	--na--
xA8	0.446456	--na--
xA6	0.38954	--na--
xA5	0.414289	--na--
xA4	0.36143	--na--
xA3	0.505267	--na--
xA2	0.28579	--na--
xA1	0.456145	--na--
x0	0.341395	--na--
gamma_B1A16	0	--na--
gamma_B1A17	-0.000313121	--na--
gamma_A14A16	0.0982274	--na--
gamma_A11A16	0	--na--
gamma_A11A17	-1.82825e-05	--na--
pA14	1	--na--
pA11	1	--na--
pA17a	1	--na--
sB1	0	--na--
pA13	1	--na--

pA15a	1	--na--
sA18	1	--na--
sD1	0	--na--
pA5	1	--na--
sC1	0	--na--