

Estimation Summary Report

04 January 2020 04:36:22 pm

AIC: 1653.96

Log-likelihood: -774.981

Release: -192.239

A1: -47.3277

A2: -8.94335

A3: -110.591

A4: -12.4494

A5: -67.6872

A6: -50.0105

A8: -56.2788

A9: -19.9336

A10: -28.8554

A11: -96.572

A12: -14.5274

A13: -20.7651

A14: -4.92119

A15: -8.64073

A16: -1.41588

A17: -324.002

A18: -2.10621

A19: 0

B1: -13.194

B2: 0

C1: 0

D1: 0

E1: -4.2321

E2: -3.12838

F1: -0.887953

B1aux: -9.15428

C1aux: -1.62015

A15aux: -16.0813

A16aux: -3.55814

A17aux: -2.14521

A18aux: 355.387

A19aux: -4.54735

E1aux: -4.55148

Dimension of the Minimum Sufficient Statistic: 63

Number of parameters: 52

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	0.74489	--na--
sA2	0.693722	--na--
sA3	0.772033	--na--
sA4	0.570951	--na--
sA5	0.619523	--na--
sA6	0.64218	--na--
sA8	0.749077	--na--
sA11	0.650069	--na--

sA12	0.631359	--na--
sA13	0.786706	--na--
sA14	0.707335	--na--
sA15	0.527582	--na--
sA16	0.349947	--na--
sA17	0.852474	--na--
phiB1B2	0.323321	--na--
phiB1C1	0.0422633	--na--
phiB1D1	0.307451	--na--
phiB1E1	0.315165	--na--
psiA1	0.536324	--na--
psiA2	0.71611	--na--
sE1	0.739279	--na--
sE2	0.0648384	--na--
sF1	0.293038	--na--
pA1	0.731603	--na--
pA2	0.222202	--na--
pA3	0.842263	--na--
pA4	0.660319	--na--
pA6	0.714224	--na--
pA8	0.580639	--na--
pA9	0.57337	--na--
pA10	0.497703	--na--
pA12	0.600373	--na--
pA15b	0.598257	--na--
pA16a	0.91128	--na--
pA16b	0.91128	--na--

pA17b	0.901137	--na--
pA18a	2	--na--
pA18b	2	--na--
pA19a	0.735233	--na--
pA19b	0.960065	--na--
pB1a	0.466216	--na--
pB1b	0.639928	--na--
pB2	1.08247	--na--
pC1a	0.615749	--na--
pC1b	0.615749	--na--
pD1	0.669747	--na--
pE1a	0.631302	--na--
pE1b	0.906257	--na--
pE2	1.20662	--na--
pF1	-0.626513	--na--
sA19	0.90411	--na--
sA9	0.663098	--na--

Convenience Functions

Name	Estimate	s.e.
psiB	0.463676	--na--
psiF	0.28389	--na--
qA1	0.268397	--na--
qA2	0.777798	--na--
qA3	0.157737	--na--
qA4	0.339681	--na--
qA5	0	--na--

qA6	0.285776	--na--
qA8	0.419361	--na--
qA9	0.42663	--na--
qA10	0.502297	--na--
qA11	0	--na--
qA12	0.399627	--na--
qA13	0	--na--
qA14	0	--na--
qA15a	0	--na--
qA15b	0.401743	--na--
qA15	0	--na--
pA15	1	--na--
qA16a	0.0887197	--na--
qA16b	0.0887197	--na--
qA16	0.00787118	--na--
pA16	0.992129	--na--
qA17a	0	--na--
qA17b	0.0988628	--na--
qA17	0	--na--
pA17	1	--na--
qA18a	-1	--na--
qA18b	-1	--na--
qA18	1	--na--
pA18	3.85915e-07	--na--
qA19a	0.264767	--na--
qA19b	0.0399348	--na--
qA19	0.0105734	--na--

pA19	0.989427	--na--
qE1a	0.368698	--na--
qE1b	0.0937425	--na--
qE1	0.0345626	--na--
pE1	0.965437	--na--
qE2	-0.206619	--na--
qD1	0.330253	--na--
qB1a	0.533784	--na--
qB1b	0.360072	--na--
qB1	0.1922	--na--
pB1	0.8078	--na--
qB2	-0.0824692	--na--
qC1a	0.384251	--na--
qC1b	0.384251	--na--
qC1	0.147649	--na--
pC1	0.852351	--na--
qF1	1.62651	--na--
xA19	1	--na--
xA18	0.10545	--na--
xA17	0.10545	--na--
xA16	0.147526	--na--
xA15	0.65046	--na--
xA14	0.644724	--na--
xA13	0.292665	--na--
xA12	0.213294	--na--
xB2	1	--na--
xC1	1	--na--

xD1	1	--na--
xE1	0.117876	--na--
xE2	0.935162	--na--
xB1	0.0941964	--na--
xF1	0.707302	--na--
xA11	0.402804	--na--
xA10	0.349931	--na--
xA9	0.175769	--na--
xA8	0.386627	--na--
xA6	0.372375	--na--
xA5	0.426158	--na--
xA4	0.380477	--na--
xA3	0.502839	--na--
xA2	0.289202	--na--
xA1	0.462325	--na--
x0	0.347541	--na--
gamma_B1A16	0	--na--
gamma_B1A17	-0.000107884	--na--
gamma_A14A16	0.0713873	--na--
gamma_A11A16	0	--na--
gamma_A11A17	-6.07018e-06	--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--
sA10	1	--na--