

Estimation Summary Report

04 January 2020 02:31:03 pm

AIC: 496.885

Log-likelihood: -191.443

Release: -1.28003

A1: -27.7073

A2: -9.25765

A3: -22.3651

A4: -5.49782

A5: -4.163

A6: -15.3576

A8: -32.8458

A9: -17.1395

A10: 6.73563

A11: -33.7931

A12: -5.70648

A13: -3.27872

A14: 31.9851

A15: -6.85523

A16: -1.97971

A17: -338.239

A18: -1.91685

A19: 0

B1: -18.3154

B2: 0

C1: -1.08359

D1: 0

E1: 2.37483

E2: -12.4278

F1: -0.876155

B1aux: -10.9111

C1aux: -1.5674

D1aux: 12.6421

A15aux: -7.13916

A16aux: -5.26194

A17aux: -1.63199

A18aux: 368.502

A19aux: -8.0611

E1aux: -19.0239

Dimension of the Minimum Sufficient Statistic: 69

Number of parameters: 57

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
A2A3	28	A2A4	5	A2A5	0
A2A6	0	A2A8	0	A2A9	0
A2A10	0	A2A11	0	A2A12	0
A2A13	0	A2A14	0	A2A15	0
A2A16	0	A2A17	0	A2A18	0
A2A19	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	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

A5A10	0	A5A11	0	A5A12	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
A9 A10	46	A9 A11	47	A9 A12	0
A9 A13	0	A9 A14	0	A9 A15	0
A9 A16	0	A9 A17	0	A9 A18	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
A10 A17	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

Category	Counts	Category	Counts	Category	Counts
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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

A17 A18	22	A17 A19	0	A17 x	1
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"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

"D1aux"

Total observed counts: 6

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	0.992641	--na--
sA2	0.977854	--na--
sA3	0.690009	--na--
sA4	0.805881	--na--
sA5	0.593024	--na--
sA6	0.902579	--na--
sA8	0.898084	--na--
sA9	0.9284	--na--
sA10	0.843963	--na--
sA11	1.10576	--na--
sA12	0.974079	--na--
sA13	0.898455	--na--
sA14	0.995852	--na--
sA15	0.818359	--na--
sA16	0.376415	--na--
sA17	0.752936	--na--
phiB1B2	0.131587	--na--
phiB1C1	0.0839942	--na--
phiB1D1	0.155436	--na--
phiB1E1	0.412654	--na--
psiA1	0.35509	--na--
psiA2	2.88751	--na--
sC1	0.420074	--na--
sE1	0.388189	--na--
sE2	0.646799	--na--
sF1	0.248171	--na--
pA1	1.00393	--na--

pA2	0.231525	--na--
pA3	0.782862	--na--
pA4	0.87578	--na--
pA5	1.07263	--na--
pA6	0.983794	--na--
pA8	0.739997	--na--
pA9	0.446324	--na--
pA10	0.669962	--na--
pA12	0.820328	--na--
pA15a	0.882067	--na--
pA15b	0.893672	--na--
pA17b	0.790118	--na--
pA18a	2	--na--
pA18b	2	--na--
pA19a	0.397774	--na--
pA19b	0.980473	--na--
pB1a	0.567344	--na--
pB1b	0.694584	--na--
pB2	1.86291	--na--
pC1a	0.627046	--na--
pC1b	0.627046	--na--
pD1a	0.949574	--na--
pD1b	-5.02792	--na--
pE1a	0.541143	--na--
pE1b	0.997875	--na--
pE2	1.81504	--na--
pA16a	0.869205	--na--

pA16b	0.869205	--na--
sA18	0.927034	--na--
sA19	0.892951	--na--

Convenience Functions

Name	Estimate	s.e.
psiB	0.64491	--na--
psiF	-1.88751	--na--
qA1	-0.00392926	--na--
qA2	0.768475	--na--
qA3	0.217138	--na--
qA4	0.12422	--na--
qA5	-0.0726272	--na--
qA6	0.0162058	--na--
qA8	0.260003	--na--
qA9	0.553676	--na--
qA10	0.330038	--na--
qA11	0	--na--
qA12	0.179672	--na--
qA13	0	--na--
qA14	0	--na--
qA15a	0.117933	--na--
qA15b	0.106328	--na--
qA15	0.0125396	--na--
pA15	0.98746	--na--
qA16a	0.130795	--na--
qA16b	0.130795	--na--

qA16	0.0171073	--na--
pA16	0.982893	--na--
qA17a	0	--na--
qA17b	0.209882	--na--
qA17	0	--na--
pA17	1	--na--
qA18a	-1	--na--
qA18b	-1	--na--
qA18	1	--na--
pA18	2.12613e-07	--na--
qA19a	0.602226	--na--
qA19b	0.0195267	--na--
qA19	0.0117595	--na--
pA19	0.988241	--na--
qE1a	0.458857	--na--
qE1b	0.00212453	--na--
qE1	0.000974858	--na--
pE1	0.999025	--na--
qE2	-0.815039	--na--
qD1a	0.0504263	--na--
qD1b	6.02792	--na--
qD1	0.303966	--na--
pD1	0.696034	--na--
qB1a	0.432656	--na--
qB1b	0.305416	--na--
qB1	0.13214	--na--
pB1	0.86786	--na--

qB2	-0.862913	--na--
qC1a	0.372954	--na--
qC1b	0.372954	--na--
qC1	0.139095	--na--
pC1	0.860905	--na--
qF1	0	--na--
xA19	1	--na--
xA18	0.117549	--na--
xA17	0.181938	--na--
xA16	0.247064	--na--
xA15	0.625176	--na--
xA14	0.200166	--na--
xA13	0.00414818	--na--
xA12	0.101545	--na--
xB2	1	--na--
xC1	0.581702	--na--
xD1	1	--na--
xE1	0.500062	--na--
xE2	0.353201	--na--
xB1	0.157024	--na--
xF1	0.752878	--na--
xA11	0.0452663	--na--
xA10	-0.105759	--na--
xA9	0.126579	--na--
xA8	0.136666	--na--
xA6	0.133828	--na--
xA5	0.099378	--na--

xA4	0.402696	--na--
xA3	0.234432	--na--
xA2	0.345116	--na--
xA1	0.281485	--na--
x0	0.00626124	--na--
gamma_B1A16	0.00490779	--na--
gamma_B1A17	-1.91064e-05	--na--
gamma_A14A16	0.0111537	--na--
gamma_A11A16	0.000407393	--na--
gamma_A11A17	-1.58601e-06	--na--
pA14	1	--na--
pA11	1	--na--
pA17a	1	--na--
sB1	0	--na--
sD1	0	--na--
pA13	1	--na--
pF1	1	--na--