

Estimation Summary Report

04 January 2020 01:56:05 pm

AIC: 212.458

Log-likelihood: -49.2292

Release: 54.2163

A1: -41.7119

A2: -4.46988

A3: -6.32692

A4: 8.0438

A5: -12.0663

A6: -35.7274

A8: -10.3365

A9: -4.41607

A10: -1.97581

A11: -40.396

A12: -38.4535

A13: -18.3922

A14: 119.171

A15: -4.94186

A16: -1.67392

A17: -1.01961

A18: -7.07264

A19: 0

B1: -36.9247

B2: 0

C1: 2.63526

D1: 0

E1: 3.98345

E2: -19.8229

F1: -0.889289

B1aux: -6.72614

C1aux: 31.4966

D1aux: 13.4943

A15aux: 46.0038

A16aux: -6.51163

A17aux: -12.6678

A18aux: 0

A19aux: -12.0723

E1aux: -3.67854

Dimension of the Minimum Sufficient Statistic: 68

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	0.909474	--na--
sA2	0.833038	--na--
sA3	0.837962	--na--
sA4	0.79451	--na--
sA5	0.635645	--na--
sA6	0.910582	--na--
sA8	0.713298	--na--
sA9	0.976411	--na--
sA10	0.982652	--na--
sA11	0.970941	--na--
sA12	0.968727	--na--
sA13	0.791485	--na--
sA14	0.73142	--na--
sA15	2.2443	--na--
sA16	0.477041	--na--
sA17	0.78682	--na--
sA18	0.943131	--na--
sA19	1.05336	--na--
phiB1B2	0.170082	--na--
phiB1C1	0.0788269	--na--
phiB1D1	0.0358068	--na--
phiB1E1	0.280584	--na--
psiA1	0.479141	--na--
psiA2	0.314301	--na--
sE1	0.537888	--na--
sE2	0.769254	--na--
sF1	0.274514	--na--

pA1	1.26928	--na--
pA2	0.327035	--na--
pA3	0.783635	--na--
pA4	0.992823	--na--
pA6	0.876406	--na--
pA8	0.688971	--na--
pA9	0.618876	--na--
pA10	0.488065	--na--
pA12	0.872378	--na--
pA13	0.710605	--na--
pA15a	4.29357	--na--
pA15b	0.882625	--na--
pA16a	0.838632	--na--
pA16b	0.838632	--na--
pA17b	0.348203	--na--
pA19a	0.192552	--na--
pA19b	0.913477	--na--
pB1a	0.375511	--na--
pB1b	0.662289	--na--
pB2	1.55114	--na--
pC1a	2	--na--
pC1b	2	--na--
pD1a	0.969072	--na--
pD1b	-6.50956	--na--
pE1a	0.564261	--na--
pE1b	0.713216	--na--
pE2	1.54858	--na--

pF1	-6.32628	--na--
pA5	1.13487	--na--
sC1	-2.74983	--na--

Convenience Functions

Name	Estimate	s.e.
psiB	0.520859	--na--
psiF	0.685699	--na--
qA1	-0.269277	--na--
qA2	0.672965	--na--
qA3	0.216365	--na--
qA4	0.00717688	--na--
qA5	-0.134868	--na--
qA6	0.123594	--na--
qA8	0.311029	--na--
qA9	0.381124	--na--
qA10	0.511935	--na--
qA11	0	--na--
qA12	0.127622	--na--
qA13	0.289395	--na--
qA14	0	--na--
qA15a	-3.29357	--na--
qA15b	0.117375	--na--
qA15	-0.386582	--na--
pA15	1.38658	--na--
qA16a	0.161368	--na--
qA16b	0.161368	--na--

qA16	0.0260396	--na--
pA16	0.97396	--na--
qA17a	0	--na--
qA17b	0.651797	--na--
qA17	0	--na--
pA17	1	--na--
qA18a	0	--na--
qA18b	0	--na--
qA18	0	--na--
pA18	1	--na--
qA19a	0.807448	--na--
qA19b	0.0865228	--na--
qA19	0.0698627	--na--
pA19	0.930137	--na--
qE1a	0.435739	--na--
qE1b	0.286784	--na--
qE1	0.124963	--na--
pE1	0.875037	--na--
qE2	-0.548578	--na--
qD1a	0.0309275	--na--
qD1b	7.50956	--na--
qD1	0.232252	--na--
pD1	0.767748	--na--
qB1a	0.624489	--na--
qB1b	0.337711	--na--
qB1	0.210897	--na--
pB1	0.789103	--na--

qB2	-0.551136	--na--
qC1a	-1	--na--
qC1b	-1	--na--
qC1	0.999999	--na--
pC1	5.7897e-07	--na--
qF1	7.32628	--na--
xA19	1	--na--
xA18	0.0202295	--na--
xA17	0.056869	--na--
xA16	0.21318	--na--
xA15	0.525607	--na--
xA14	6.80907	--na--
xA13	0.26858	--na--
xA12	0.270034	--na--
xB2	1	--na--
xC1	3.73457	--na--
xD1	1	--na--
xE1	0.394025	--na--
xE2	0.230746	--na--
xB1	0.657478	--na--
xF1	0.727009	--na--
xA11	0.117232	--na--
xA10	0.0290592	--na--
xA9	0.0319667	--na--
xA8	0.0354845	--na--
xA6	0.294574	--na--
xA5	0.12257	--na--

xA4	0.353847	--na--
xA3	0.207508	--na--
xA2	0.19966	--na--
xA1	0.278893	--na--
x0	0.0222249	--na--
gamma_B1A16	-0.21676	--na--
gamma_B1A17	-0.0123999	--na--
gamma_A14A16	2.96494	--na--
gamma_A11A16	-0.023066	--na--
gamma_A11A17	-0.0013195	--na--
pA14	1	--na--
pA11	1	--na--
pA17a	1	--na--
sB1	0	--na--
sD1	0	--na--
pA18a	1	--na--
pA18b	1	--na--