

Estimation Summary Report

04 January 2020 01:45:28 pm

AIC: 2168.96

Log-likelihood: -1024.48

Release: -194.442

A1: -133.32

A2: -11.8493

A3: -121.191

A4: -58.3642

A5: -104.882

A6: -80.2474

A8: -63.9381

A9: -43.1303

A10: -21.2881

A11: -88.5694

A12: -45.5413

A13: -32.6158

A14: -13.7744

A15: -7.79849

A16: -1.42836

A17: -346.918

A18: -2.8939

A19: 0

B1: -18.3299

B2: 0

C1: -0.166649

D1: 1.88527

E1: -1.75351

E2: -1.5995

F1: -0.97922

B1aux: -13.2021

C1aux: -1.4533

D1aux: 1.86219

A15aux: 16.2811

A16aux: -3.61115

A17aux: -2.12335

A18aux: 378.105

A19aux: -3.71913

E1aux: -3.48346

Dimension of the Minimum Sufficient Statistic: 70

Number of parameters: 60

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

"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
----------	--------	----------	--------	----------	--------

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
---------	----	---------	---	-------	---

"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.
-----------	----------	------

sA1	0.759165	--na--
sA2	0.913328	--na--
sA3	0.769435	--na--
sA4	0.615355	--na--
sA5	0.534065	--na--
sA6	0.493916	--na--
sA8	0.648637	--na--
sA9	0.720112	--na--
sA10	0.730174	--na--
sA11	0.727798	--na--
sA12	0.728182	--na--
sA13	0.619751	--na--
sA14	0.600265	--na--
sA15	0.565065	--na--
sA16	0.386889	--na--
sA17	0.836846	--na--
sA18	1.02124	--na--
sA19	0.944659	--na--
phiB1B2	0.302671	--na--
phiB1C1	0.125035	--na--
phiB1D1	0.220515	--na--
phiB1E1	0.251668	--na--
psiA1	0.48185	--na--
psiA2	0.451341	--na--
sD1	-0.369179	--na--
sE1	0.714872	--na--
sE2	0.147402	--na--

sF1	0.359522	--na--
pA1	0.714585	--na--
pA2	0.50888	--na--
pA3	0.64219	--na--
pA4	0.572772	--na--
pA6	0.690687	--na--
pA8	0.479759	--na--
pA9	0.46777	--na--
pA10	0.49903	--na--
pA12	0.563734	--na--
pA13	0.817256	--na--
pA15a	1.68876	--na--
pA15b	0.877219	--na--
pA16a	0.909966	--na--
pA16b	0.909966	--na--
pA17b	0.899995	--na--
pA18a	2	--na--
pA18b	2	--na--
pA19a	0.658928	--na--
pA19b	0.941454	--na--
pB1a	0.486694	--na--
pB1b	0.55448	--na--
pB2	0.854215	--na--
pC1a	0.651861	--na--
pC1b	0.651861	--na--
pD1a	1.01055	--na--
pD1b	-0.369179	--na--

pE1a	0.574815	--na--
pE1b	0.74785	--na--
pE2	1.01824	--na--
pF1	-0.335579	--na--
pA5	0.780928	--na--
sC1	0.0800533	--na--

Convenience Functions

Name	Estimate	s.e.
psiB	0.51815	--na--
psiF	0.548659	--na--
qA1	0.285415	--na--
qA2	0.49112	--na--
qA3	0.35781	--na--
qA4	0.427228	--na--
qA5	0.219072	--na--
qA6	0.309313	--na--
qA8	0.520241	--na--
qA9	0.53223	--na--
qA10	0.50097	--na--
qA11	0	--na--
qA12	0.436266	--na--
qA13	0.182744	--na--
qA14	0	--na--
qA15a	-0.68876	--na--
qA15b	0.122781	--na--
qA15	-0.0845667	--na--

pA15	1.08457	--na--
qA16a	0.0900342	--na--
qA16b	0.0900342	--na--
qA16	0.00810617	--na--
pA16	0.991894	--na--
qA17a	0	--na--
qA17b	0.100005	--na--
qA17	0	--na--
pA17	1	--na--
qA18a	-1	--na--
qA18b	-1	--na--
qA18	1	--na--
pA18	1.37408e-07	--na--
qA19a	0.341072	--na--
qA19b	0.0585456	--na--
qA19	0.0199683	--na--
pA19	0.980032	--na--
qE1a	0.425185	--na--
qE1b	0.25215	--na--
qE1	0.10721	--na--
pE1	0.89279	--na--
qE2	-0.0182366	--na--
qD1a	-0.0105467	--na--
qD1b	1.36918	--na--
qD1	-0.0144404	--na--
pD1	1.01444	--na--
qB1a	0.513306	--na--

qB1b	0.44552	--na--
qB1	0.228688	--na--
pB1	0.771312	--na--
qB2	0.145785	--na--
qC1a	0.348139	--na--
qC1b	0.348139	--na--
qC1	0.121201	--na--
pC1	0.878799	--na--
qF1	1.33558	--na--
xA19	1	--na--
xA18	0.0742037	--na--
xA17	0.0545426	--na--
xA16	0.163154	--na--
xA15	0.613623	--na--
xA14	0.687098	--na--
xA13	0.399735	--na--
xA12	0.425521	--na--
xB2	1	--na--
xC1	0.920053	--na--
xD1	1.36918	--na--
xE1	0.274013	--na--
xE2	0.852598	--na--
xB1	0.161212	--na--
xF1	0.640954	--na--
xA11	0.350865	--na--
xA10	0.272202	--na--
xA9	0.369396	--na--

xA8	0.421465	--na--
xA6	0.493585	--na--
xA5	0.581491	--na--
xA4	0.533969	--na--
xA3	0.525024	--na--
xA2	0.37511	--na--
xA1	0.254929	--na--
x0	0.296073	--na--
gamma_B1A16	0.00121315	--na--
gamma_B1A17	0.00113196	--na--
gamma_A14A16	0.140522	--na--
gamma_A11A16	0.000104678	--na--
gamma_A11A17	9.7672e-05	--na--
pA14	1	--na--
pA11	1	--na--
pA17a	1	--na--
sB1	0	--na--