

Table S2. The set of models investigated in the MARK program.

Line #	Model #	Model	N parameters	AIC_c	ΔAIC_c	ω_i	Deviance
1	7	Phi(~time)p(~time)	14	1162.8	0.0	0.539	97.4
2	17	Phi(~time + Type)p(~time)	17	1164.4	1.7	0.236	93.0
3	9	Phi(~time)p(~time + Type)	17	1165.1	2.3	0.171	93.6
4	19	Phi(~time + Type)p(~time + Type)	20	1167.4	4.6	0.053	89.8
5	6	Phi(~time)p(~1)	8	1177.7	14.9	3.14×10^{-4}	124.5
6	16	Phi(~time + Type)p(~1)	11	1179.0	16.2	1.60×10^{-4}	119.8
7	8	Phi(~time)p(~Type)	11	1181.1	18.3	5.60×10^{-5}	121.9
8	18	Phi(~time + Type)p(~Type)	14	1183.4	20.6	1.78×10^{-5}	118.1
9	10	Phi(~time)p(~time + Type + time * Type)	35	1183.5	20.8	1.68×10^{-5}	74.9
10	20	Phi(~time + Type)p(~time + Type + time * Type)	38	1184.6	21.8	1.00×10^{-5}	69.6
11	22	Phi(~time + Type + time * Type)p(~time)	35	1184.9	22.1	8.66×10^{-6}	76.2
12	24	Phi(~time + Type + time * Type)p(~time + Type)	38	1187.9	25.1	1.87×10^{-6}	73.0
13	4	Phi(~1)p(~time + Type)	11	1194.7	31.9	6.25×10^{-8}	135.5
14	2	Phi(~1)p(~time)	8	1195.1	32.3	5.24×10^{-8}	141.9
15	12	Phi(~Type)p(~time)	11	1195.1	32.3	5.13×10^{-8}	135.9
16	14	Phi(~Type)p(~time + Type)	14	1196.9	34.2	2.07×10^{-8}	131.6
17	21	Phi(~time + Type + time * Type)p(~1)	29	1201.7	38.9	1.96×10^{-9}	105.5
18	23	Phi(~time + Type + time * Type)p(~Type)	32	1205.6	42.8	2.68×10^{-10}	103.2
19	25	Phi(~time + Type + time * Type)p(~time + Type + time * Type)	56	1210.6	47.8	2.26×10^{-11}	57.4
20	5	Phi(~1)p(~time + Type + time * Type)	29	1221.5	58.7	9.45×10^{-14}	125.3
21	15	Phi(~Type)p(~time + Type + time * Type)	32	1223.2	60.4	4.08×10^{-14}	120.8
22	3	Phi(~1)p(~Type)	5	1297.1	134.3	0.00	249.9
23	11	Phi(~Type)p(~1)	5	1299.2	136.4	0.00	252.1
24	1	Phi(~1)p(~1)	2	1300.2	137.4	0.00	259.1
25	13	Phi(~Type)p(~Type)	8	1301.4	138.6	0.00	248.2

Phi (φ) is the local survival probability; p is the encounter probability; AIC_c is the Akaike's Information Criterion corrected for the effective sample size; ΔAIC_c is the difference in the AIC_c value between each model in the set and the model with the lowest AIC_c ; ω_i is the normalized Akaike weights. The model formulas are written in R formulation. Type in the formulas is the fledgelings type (see Classification of individuals section in Methods)