

附录1 对红头长尾山雀卵期和育雏期巢日存活率分析的最优模型($\Delta AICc < 4$)选择结果

Appendix 1 Model selection results of the best-supported model set ($\Delta AICc < 4$) for daily nest survival rate at the egg stage and nestling stage of black-throated tits

模型 Models	<i>k</i>	logLik	AICc	$\Delta AICc$	<i>w_i</i>
卵期 Egg stage					
Date + Year	9	-293.851	605.762	0.000	0.074
Date + Visit + Year	10	-293.023	606.120	0.358	0.062
Date	2	-301.182	606.368	0.606	0.055
Filming + Date + Year	10	-293.185	606.444	0.682	0.053
Date + NestAge + Year	10	-293.391	606.857	1.094	0.043
Date + NestHeight + Year	10	-293.499	607.073	1.310	0.038
Date + NestHeight + Year	11	-292.634	607.357	1.595	0.033
Date + NestHeight + Year	3	-300.675	607.359	1.596	0.033
Filming + Date	3	-300.727	607.461	1.699	0.032
Filming + Date + Visit + Year	11	-292.734	607.558	1.796	0.030
Filming + Date + NestHeight + Year	11	-292.810	607.710	1.948	0.028
Date + NestAge + Visit + Year	11	-292.823	607.736	1.974	0.028
Filming + Date + NestAge + Year	11	-292.899	607.887	2.125	0.026
Date + NestAge	3	-300.990	607.989	2.227	0.024
Date + NestHeight	3	-301.005	608.018	2.255	0.024
Date + NestAge + NestHeight + Year	11	-292.992	608.073	2.311	0.023
null model	1	-303.088	608.176	2.414	0.022
Visit	2	-302.319	608.642	2.880	0.018
Filming + Date + NestHeight + Visit + Year	12	-292.335	608.776	3.014	0.016
Filming	2	-302.440	608.885	3.122	0.016
Date + NestAge + NestHeight + Visit + Year	12	-292.405	608.917	3.155	0.015
Date + NestHeight + Visit	4	-300.470	608.953	3.191	0.015
Filming + Date + Visit	4	-300.495	609.003	3.241	0.015
Filming + Date + NestHeight	4	-300.526	609.067	3.304	0.014
Filming + Date + NestAge + NestHeight + Year	12	-292.487	609.080	3.317	0.014
Date + NestAge + Visit	4	-300.567	609.147	3.385	0.014
Filming + Date + NestAge	4	-300.613	609.239	3.477	0.013
Filming + Date + NestAge + Visit + Year	12	-292.583	609.273	3.510	0.013
NestHeight	2	-302.665	609.334	3.572	0.012
Year	8	-296.738	609.526	3.763	0.011
Date + NestAge + NestHeight	4	-300.805	609.623	3.861	0.011
育雏期 Nestling stage					
Date + NestHeight + Visit	4	-313.766	635.550	0.000	0.094
Date + Visit	3	-314.956	635.924	0.374	0.078
NestHeight + Visit	3	-315.252	636.515	0.965	0.058
Date + NestAge + NestHeight + Visit	5	-313.297	636.623	1.073	0.055
Date + NestHeight	3	-315.473	636.957	1.406	0.047
Visit	2	-316.476	636.958	1.407	0.047
Date + NestAge + Visit	4	-314.513	637.044	1.494	0.045

模型 Models	<i>k</i>	logLik	AICc	ΔAICc	<i>wi</i>
Date	2	-316.596	637.198	1.648	0.041
Date + NestAge + NestHeight	4	-314.623	637.265	1.714	0.040
Filming + Date + NestHeight + Visit	5	-313.660	637.350	1.799	0.038
Date + NestAge	3	-315.783	637.578	2.027	0.034
Filming + Date + Visit	4	-314.838	637.695	2.145	0.032
NestAge + NestHeight + Visit	4	-315.031	638.081	2.531	0.027
Filming + Date + NestHeight	4	-315.072	638.163	2.613	0.026
Filming + Date + NestAge + NestHeight + Visit	6	-313.146	638.332	2.782	0.023
Filming + NestHeight + Visit	4	-315.194	638.408	2.857	0.023
Filming + Date	3	-316.231	638.474	2.924	0.022
NestAge + Visit	3	-316.274	638.560	3.009	0.021
Filming + Date + NestAge + Visit	5	-314.349	638.728	3.177	0.019
Filming + Visit	3	-316.409	638.830	3.279	0.018
Filming + Date + NestAge + NestHeight	5	-314.403	638.834	3.284	0.018
Filming + Date + NestAge	4	-315.586	639.190	3.640	0.015
Date + Visit + Year	10	-309.681	639.468	3.917	0.013
NestHeight	2	-317.732	639.470	3.920	0.013
Date + NestHeight + Visit + Year	11	-308.706	639.539	3.989	0.013

自变量包括 Visit (研究者查巢活动), Filming (视频拍摄活动), Date (卵期: 产卵日期, 每个巢产首枚卵的日期到当年种群产第一枚卵的日期之间的天数; 育雏期: 破壳日期, 每个巢破壳当天的日期到当年种群第一个破壳的巢的日期之间的天数), Year (年份), NestAge (巢日龄, 每个巢发现时距其产首枚卵的天数, 其中在筑巢期发现的巢在本分析中其巢日龄为 1 天), NestHeight (巢高)。k 是模型中所有参数的水平数。LogLik 是 log-likelihood (对数似然比)。模型通过 ΔAICc (Akaike's Information Criterion) 值和 Akaike 权重(*wi*)进行排序。Explanatory factors included Visit (researchers' nest visit), Filming (video filming), Date (Egg stage: date is the number of days from the date when the first egg of a nest was laid to the date when the first egg of the population was laid in each year, i.e. laying date. Nestling stage: date is the number of days from the date when nestlings of a nest hatched to the date when the first nestling of the population hatched in each year, i.e. hatching date), Year, NestAge (number of days after the first egg of the nest was laid, 1 day was set for the nests that found at nest construction stage), NestHeight (nest height). *k* is the number of levels for all model parameters in each model. LogLik is the log-likelihood. Models are ranked based on the difference in corrected Akaike's Information Criterion (ΔAICc) and Akaike weight (*wi*).