

Supplementary material

Table A1 List of models performed for nest survival analysis. Variables included: linear date trend (L), quadratic time trend (Q), constant time trend (.), nest age, altitude (A), number of hatchlings (NN), daily sum of precipitation (P), minimum daily temperature (T)

Model	Notation	Description
1	$S_{(.)}$	Effect of constant time trend
2	S_L	Effect of linear date trend
3	S_Q	Effect of quadratic date trend
4	$S_{(.)+Y}$	Effect of constant date trend and variation between study years
5	S_{L+Y}	Effect of linear time trend and study year
6	S_{Q+Y}	Effect of quadratic time trend and study year
7	S_{L+Y+A}	Effect of linear time trend and study year plus altitude
8	$S_{L+Y+NEST\ AGE}$	Effect of linear time trend and study year plus nest age
9	S_{L+Y+NN}	Effect of linear time trend and study year plus number of nestlings
10	$S_{L+Y+A+NEST\ AGE+NN}$	Effect of linear time trend and study year plus altitude, nest age and number of nestlings
11	S_{L+Y+T}	Best model plus minimum daily temperature
12	S_{L+Y+P}	Best model plus daily sum of precipitation
13	$S_{L+Y+P*T}$	Best model plus interaction term between daily sum of precipitation and minimum daily temperature

Table A2 Descriptive summary of percentage of nest boxes occupied by great tits, number of hatchlings and number of nestlings survived until day 15 after hatching in the six study years 2010-2016.

Year	% occupied nest boxes	N hatchlings per nest (All nests)				N nestlings day 15 (Successful nests)	
		Min	Max	Mean (\pm SE)	N nests	Sum	N nests
2010	42.7	4	13	8.3 (0.26)	51	175	29
2011	31.5	2	14	8.5 (0.32)	46	273	37
2012	48.4	2	14	6.6 (0.22)	97	486	82
2013	28.0	5	13	8.5 (0.28)	43	212	29
2014	30.4	3	11	7.7 (0.26)	55	219	35
2015	29.7	1	13	8.3 (0.31)	58	275	40

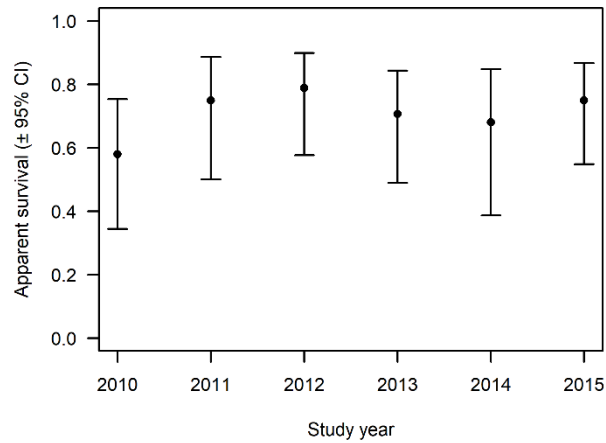


Fig A1 Average apparent nest survival and lower and upper confidence intervals in the six study years.