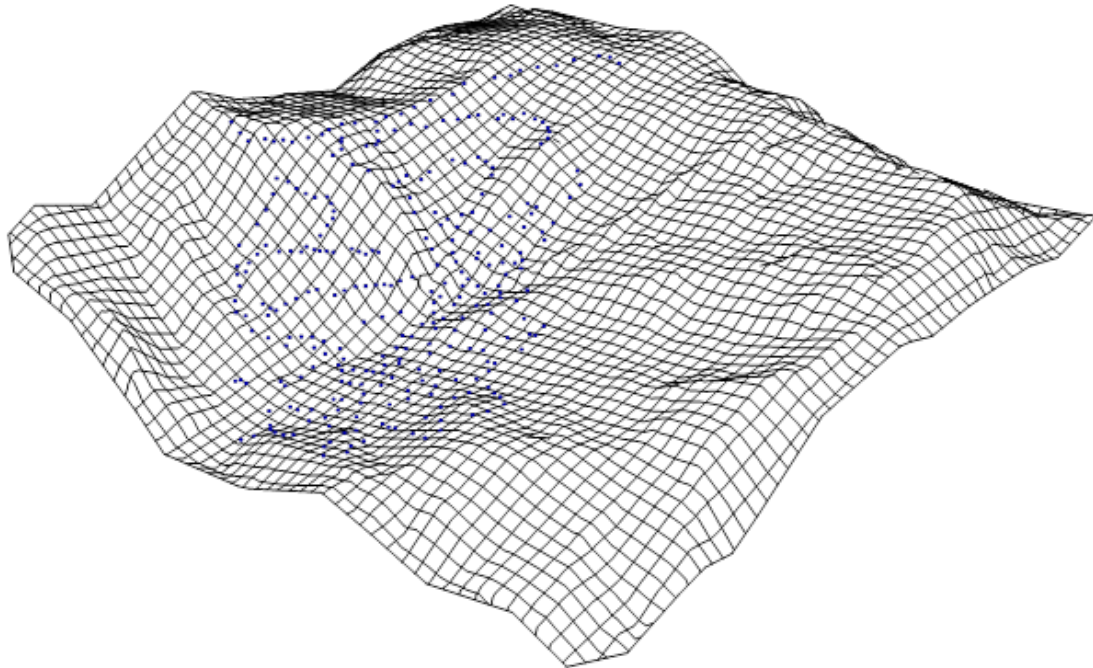


## Supplementary material

**Appendix S1.** Photo of the study site.



**Appendix S2.** Topographical map of the study site showing all 295 trap locations (blue dots).



**Appendix S3.** Tables showing the seasonal distribution of birth dates for each year (Table S1) and median and mean dates for each autumn (Table S2) and spring (Table S3).

**Table S1.** Numbers of births in each month of each season for 1989 to 1994 and over all seasons.

Season	Month	Overall	1989	1990	1991	1992	1993	1994
Summer	12	0						
Summer	1	0						
Summer	2	0						
Autumn	3	4	1	0	0	0	3	0
Autumn	4	188	31	30	32	29	35	31
Autumn	5	102	16	19	9	12	22	24
Winter	6	26	2	2	3	1	7	11
Winter	7	6	1	1	0	1	2	1
Winter	8	7	3	1	1	2	0	
Spring	9	19	4	6	6	3	0	
Spring	10	52	6	10	8	13	15	
Spring	11	17	0	3	4	4	6	
Totals		421	64	72	63	65	90	67
<b>Summary</b>								
Summer		no births						
Autumn		294	48	49	41	41	60	55
Winter		39	6	4	4	4	9	12
Spring		88	10	19	18	20	21	
Totals		421	64	72	63	65	90	67

**Table S2.** Estimated median successful\* mating dates with 95% confidence intervals (CI) in brackets and mean dates in each autumn for years 1989 to 1994.

Season/year	N observations	Median date (95%CI)	Mean date
Autumn 1989	47	26/4/89 (23/04/89 – 29/4/1989)	1/5/89
Autumn 1990	48	26/4/90 (20/4/90 – 1/5/90)	29/4/90
Autumn 1991	40	22/04/91 (19/4/91 – 22/4/91)	23/04/91
Autumn 1992	41	21/04/92 (14/4/92 – 25/4/92)	24/04/92
Autumn 1993	60	25/04/93 (22/4/93 – 30/4/93)	1/5/93
Autumn 1994	55	29/04/94 (24/4/94 – 4/5/94)	30/04/94

\*A mating which resulted in an observed pouch-young (PY).

**Table S3.** Estimated median dates for successful\* mating dates with 95% confidence intervals (CI) in brackets and mean dates for each spring for years 1989 to 1994.

Season/year	N observations	Median date (93% CI)	Mean date
Spring 1989	10	05/10/89 (16/9/89 – 24/10/89)	07/10/89
Spring 1990	19	19/10/90 (4/10/90 – 28/10/90)	16/10/90
Spring 1991	18	15/10/91 (11/9/91 – 28/10/91)	14/10/91
Spring 1992	20	12/10/92 (12/9/93 – 22/10/93)	14/10/92
Spring 1993	21	21/10/93 (12/9/94 – 30/10/93)	23/10/93

\*A mating which resulted in an observed pouch-young (PY).