

## Appendix S2

Table S2.1. Estimated dates when 10, 50, and 90% (D10, D50, D90; respectively) of the Scots pine (*Pinus sylvestris*) seeds had fallen for three years in four forests in the Iberian Peninsula, 16 years in four forests in Scotland, and 3–4 years in two forests in central Sweden. The  $R^2$  from the logistic regression models used to estimate seed fall are included. Years with low seed production for which a logistic function could not be fitted are not shown.

Iberian Peninsula																
Year	Duruelo de la Sierra				Santa Ines				Valdelinares				Fortanete			
	D10	D50	D90	$R^2$	D10	D50	D90	$R^2$	D10	D50	D90	$R^2$	D10	D50	D90	$R^2$
2010	6 Mar	3 Apr	1 May	0.990	28 Feb	3 Apr	6 May	0.992	9 Mar	31 Mar	22 Apr	0.980	12 Mar	28 Mar	13 Apr	0.978
2011	1 Feb	12 Mar	20 Apr	0.933	5 Feb	13 Mar	18 Apr	0.959	11 Feb	22 Mar	30 Apr	0.984	19 Feb	3 Apr	16 May	0.987
2012	26 Feb	14 Mar	31 Mar	0.977	19 Feb	21 Mar	20 Apr	0.959	12 Feb	24 Mar	4 May	0.985	25 Feb	29 Mar	2 May	0.992
Scotland																
	Ice				Memorial				Bognacruie				Tore Hill			
	D10	D50	D90	$R^2$	D10	D50	D90	$R^2$	D10	D50	D90	$R^2$	D10	D50	D90	$R^2$
1992													12 May	27 May	12 Jun	0.999
1993	5 May	31 May	26 Jun	0.999	30 Apr	19 May	7 Jun	0.998	30 Apr	27 May	22 Jun	0.990	27 Apr	20 May	11 Jun	0.987
1994	17 May	16 Jun	16 Jul	0.999	17 May	18 Jun	20 Jul	0.997	14 May	12 Jun	12 Jul	0.999	7 May	11 Jun	17 Jul	0.994
1995	22 Apr	1 Jun	11 Jul	0.987	12 Mar	14 May	16 Jul	0.968	5 Apr	22 May	8 Jul	0.995	18 Apr	27 May	4 Jul	0.987
1997	2 May	24 May	15 Jun	0.997	30 Apr	19 May	7 Jun	0.995	4 May	26 May	17 Jun	0.993	23 Apr	15 May	6 Jun	0.999
1998	2 May	22 May	10 Jun	1.000	15 May	3 Jun	22 Jun	0.998	1 May	14 Jun	28 Jul	0.984	7 May	1 Jun	25 Jun	0.999
1999	29 Mar	26 May	22 Jul	0.968	24 Apr	5 Jun	18 Jul	0.960					26 Apr	21 May	15 Jun	0.990
2000	10 May	24 May	8 Jun	0.999	14 May	27 May	10 Jun	1.000	14 May	30 May	14 Jun	0.999	2 May	17 May	1 Jun	1.000
2002	10 Apr	4 May	29 May	0.997	8 Apr	9 May	9 Jun	0.992								
2003	15 Feb	12 Apr	8 Jun	0.975	16 Feb	14 Apr	11 Jun	0.992	13 Mar	30 Apr	18 Jun	0.978	13 Mar	30 Apr	17 Jun	0.991
2004	2 May	13 Jun	26 Jul	0.990									24 Apr	13 Jun	1 Aug	0.974
2005	10 Apr	25 May	9 Jul	0.986	6 Apr	21 May	5 Jul	0.984	27 Apr	6 Jun	15 Jul	0.996	3 Apr	22 May	11 Jul	0.984
2006	9 May	30 May	20 Jun	0.999	7 May	30 May	21 Jun	0.996	8 May	10 Jun	12 Jul	0.994	4 May	28 May	21 Jun	0.998
2007	4 Apr	26 Apr	18 May	0.967	9 Apr	28 Apr	18 May	0.995	3 Apr	25 Apr	18 May	0.996	5 Apr	8 May	10 Jun	0.994

Sweden

	Garpenberg				Knivsta			
	D10	D50	D90	$R^2$	D10	D50	D90	$R^2$
1993	13 Apr	3 May	23 May	0.99				
1994	17 Apr	5 May	23 May					
1995	14 May	11 Jun	8 Jul	0.99				
1996	17 Apr	10 May	2 Jun	0.97	22 Apr	11 May	31 May	0.92
1997					15 Apr	6 May	28 May	0.99
1999					2 May	21 May	9 Jun	0.98