

Table S1. Location, characteristics and sampling effort of the *Erodium* populations studied for pollinator size. The data of the three geographic subspecies of *E. foetidum* (indicated in brackets) were pooled under the species, while the data of the two forms of *E. recoderi* were treated separately.

Species	Population data	Date	Coordinates	Time (min)	Mean number of visits / min/20 flowers
<i>E. glaucophyllum</i>	Tunisia, Tataouine-Chenini, <i>S. Bernardos</i> 3043-S1	21/03/2005	32° 55' 25" N 10° 22' 23" E	50	0.04
	Tunisia, El Ferch, Tataouine-Ghomrassen <i>S. Bernardos</i> 3043-S2	21/03/2005	32° 57' 32" N 10° 21' 48" E	45	0.08
	Tunisia, Ghomrassen <i>S. Bernardos</i> 3043-S3	21/03/2005	33° 03' 48" N 10° 20' 19" E	45	0.16
	Tunisia, Mededine-Matmata <i>S. Bernardos</i> 3043-S4	22/03/2005	33° 26' 6" N 10° 12' 35" E	45	0.12
	Tunisia, Matmata-Douz, Tamezret <i>S. Bernardos</i> 3043-S5	22/03/2005	33° 32' 2" N 9° 51' 41" E	45	0.055
	Tunisia, Djebel Hachichina, Chott El Fejaj, <i>S. Bernardos</i> 3043-S6	25/03/2005	33° 45' 00" N 9° 1' 00" E	45	0.28
<i>E. ciconium</i>	Spain, Teruel, Santa Eulalia, <i>Aldasoro & Alarcón</i> 9244	15/05/2006	40° 33' 59" N 1° 18' 45" W	60	0.13
	Spain, Guadalajara, Molina de Aragón, <i>Aldasoro & Alarcón</i> 9245	21/05/2006	40° 50' 34" N 1° 52' 57" W	45	0.17
	Spain, Cuenca, Hontecillas, <i>Aldasoro & Alarcón</i> 9331, 9241	6/05/2006 9/05/2007	39° 41' 34" N 2° 11' 17" W	50 50	0.16 0.22
	Spain, Madrid, <i>Aldasoro & Alarcón</i> 9236, 9237	20/04/2006	40° 24' 23" N 3° 41' 10" W	50	0.06
<i>E. botrys</i>	Spain, Salamanca, Castellanos de Moriscos, <i>Aldasoro & Alarcón</i> 9250	13/05/2006	41° 1' 11" N 5° 35' 36" W	120	0.05
	Spain, Salamanca, <i>Aldasoro & Alarcón</i> 9260	21/04/2005	40° 58' 18" N 5° 38' 54" W	120	0.08
	Spain, Madrid, Rozas de Puerto Real, <i>Aldasoro & Alarcón</i> 9160	3/05/2005	40° 18' 36" N 4° 29' 26" W	150	0.08
<i>E. carvifolium</i>	Spain, Burgos, Navas del Pinar, <i>Aldasoro & Alarcón</i> 8830	03/08/2004	41° 51' 16" N 3° 13' 38" W	60	0.14
	Spain, León, Campo Romo, <i>Aldasoro & Alarcón</i> , 9577, 9580, 9790	25/07/2007	42° 18' 43" N 6° 43' 16" W	120	0.067
	Spain, Zamora, Ribadelago, <i>Aldasoro & Alarcón</i> 8810	5/08/2005	42° 6' 29" N 6° 44' 22" W	60	0.2
<i>E. cicutarium</i>	Spain, Salamanca, Castellanos de Moriscos, <i>Aldasoro & Alarcón</i> 9244	13/04/2006	41° 1' 11" N 5° 35' 36" W	60	0.167
	Spain, Guadalajara, Checa, <i>Aldasoro & Alarcón</i> 9282	14/10/2006	40° 35' 07" N 1° 47' 12" W	120	0.089
	Spain, Jaén, Mancha Real, Sierra de Mágina, Pico Almadén, <i>Aldasoro & Alarcón</i> 9262	8/09/2006	37° 44' 25" N 3° 31' 24" W	120	0.133
<i>E. daucooides</i>	Spain, Burgos, Sargentos de Lora, <i>Aldasoro & Alarcón</i> 8831, 9262, 9598	4/08/2004 21/07/2006 9/08/2007	42° 46' 24" N 3° 51' 45" W	120 150 150	0.072 0.217 0.233
	Spain, Guadalajara, Palmaces de Jadraque, <i>Aldasoro & Alarcón</i> 8834	25/08/2004	41° 03' 02" N 2° 56' 34" W	60	0.067
	Spain, Granada, Monte Cañadillas, <i>Aldasoro & Alarcón</i> 9217	09/09/2005	37° 04' 50" N 3° 10' 50" W	60	0.083
	<i>E. macrocalyx</i>	Spain, Cuenca, Tragacete, <i>Aldasoro & Alarcón</i> 9216	05/09/2005	40° 20' 3" N 1° 49' 18" W	130
Spain, Cuenca, Masegosa, <i>Aldasoro & Alarcón</i> 9214, 9281		25/07/2004 13/10/2006	40° 32' 0" N 2° 0' 0" W	90 90	0.058 0.10
<i>E. manescavi</i>	France, Bearn, Bilheres, <i>Aldasoro & Alarcón</i>	27/08/2004	43° 03' 39" N	330	0.317

	8837, 14192	30/07/2009	0° 27' 11" W		
<i>E. moschatum</i>	Spain, Madrid, <i>Aldasoro</i> 9238, 9700	19/04/2006	40° 24' 23" N	120	0.08
		25/06/2007	3° 41' 10" W	90	0.064
	Spain, Cuenca, Hontecillas, <i>Aldasoro & Alarcón</i> 9333, 9341	6/05/2006 9/05/2007	39° 41' 34" N 2° 11' 17" W	60 60	0.10 0.07
<i>E. recoderi</i> (1)	Spain, Cádiz, Montejaque, Tavizna, <i>Aldasoro & Alarcón</i> 5019, <i>B. Vigalondo</i> 6	6/04/2004	36° 45' 04" N	250	0.20
		4/04/2009	5° 14' 24" W	240	
	Spain, Cádiz, Benaocad, Cintillo, <i>B. Vigalondo</i> 1, <i>Aldasoro & Alarcón</i> 14704	5/04/2009 8/05/2010	36° 41' 07" N 5° 25' 20" W	240 320	0.44 0.19
<i>E. recoderi</i> (2)	Spain, Málaga, Las Palomas, <i>Aldasoro & Alarcón</i> 5019, <i>B. Vigalondo</i> 4	6/04/2004	36° 47' 25" N	220	0.31
		4/04/2009	5° 22' 32" W	240	0.26
<i>E. chium</i>	Spain, Gerona, Cabo Norfeu, <i>Aldasoro</i> 9233	24/05/2006	42° 14' 31" N 3° 15' 17" E	120	0.09
	Spain, Cádiz, Montejaque, Tavizna, <i>Aldasoro & Alarcón</i> 3450	6/04/2004	36° 45' 04" N 5° 14' 24" W	120	0.13
<i>E. cossoni</i>	Morocco, Tizi'n' Test, <i>Sáez et al. s.n., Aldasoro et al.</i> 9573,	10/07/2007	30° 50' 0" N 8° 30' 0" W	360	0.45
<i>E. malacoides</i>	Spain, Murcia, Sierra Espuña, <i>Aldasoro & Alarcón</i> 9233	10/04/2006	37° 51' 18" N 1° 34' 05" W	90	0.108
	Spain, Cuenca, Hontecillas, <i>Aldasoro & Alarcón</i> 9330, 9240, 9255	6/05/2006	39° 41' 34" N	60	0.23
		16/06/2006 9/05/2007	2° 11' 17" W	120 105	0.09 0.086
<i>E. maritimum</i>	France, Bretagne, Lilia, Ile du Mouton, <i>Aldasoro & Alarcón</i> 9715	27/05/2008	48° 49' 0" N 3° 21' 0" W	120	0.3
	Ireland, Dublin, Dalkey Is., <i>Aldasoro</i> 9721	14/06/2008	53° 16' 17" N 6° 5' 3" W	180	0.1
<i>E. reichardii</i>	Spain, Mallorca, Tunel Formentor, <i>Aldasoro & Alarcón</i> 9222, 9223, 9221	10/09/2005	39° 56' 57" N 3° 10' 37" E	240	0.08
<i>E. sanguischristi</i>	Spain, Tarragona, Calafat, <i>Aldasoro & Alarcón</i> 14703, 14713	24/04/2009	40° 54' 30" N	180	0.23
		22/05/2009	0° 48' 33" E	280	0.07
<i>E. glandulosum</i>	Spain, Palencia, Valdecebollas, <i>Aldasoro & Alarcón</i> 3500, 8832	14/08/2004	42° 57' 53" N 4° 21' 43" W	120	0.189
	Spain, Teruel, Puerto del Portillo, <i>Aldasoro & Alarcón</i> s.n.	30/07/2004	40° 22' 03" N 1° 44' 20" W	120	0.133
	Spain, León, Campo Romo, Fonte da Cova, <i>Aldasoro & Alarcón</i> 9285	20/07/2007	42° 18' 43" N 6° 43' 16" W	150	0.12
<i>E. foetidum</i>	(1) Spain, Cabo Norfeu Spain, Gerona, Cabo Norfeu, <i>Aldasoro & Alarcón</i> 9224, 9253, 9280 <i>E. foetidum</i>	24/05/2006	42° 14' 31" N 3° 15' 17" E	180 180	0.09 0.05
		(2) Spain, Teruel, Javalambre, <i>Aldasoro & Alarcón</i> 5036, 9213, 9263,	24/08/2005 13/05/2006 17/07/2006 01/09/2006	40° 05' 55" N 1° 1' 8" W	90 60 60 190
	(2) Spain, Teruel, puerto de Cabigordo, <i>Aldasoro & Alarcón</i> 5037, 9212, 9243, 9264	24/08/2005	40° 24' 10" N	100	0.29
		13/05/2006 17/07/2006 01/09/2006	0° 58' 01" W	150 120 120	0.10 0.133 0.119
		(2) Spain, Cuenca, Sierra de Mira, Pico Pelado, <i>Aldasoro & Alarcón</i> 9214b, 9242	03/09/2005 13/05/2006 09/09/2006 09/08/2006	39° 44' 57" N 1° 22' 43" W	90 150 120 100
	(3) Spain, Jaén, Mancha Real, Sierra de Mágina, Pico Almadén, <i>Aldasoro & Alarcón</i> 5036, 9220, 9259	08/09/2006	37° 44' 25" N 3° 31' 24" W	60	0.133
	(3) Spain, Sierra Espuña, Murcia, Cerro Piedras Blancas, <i>Aldasoro & Alarcón</i> 5027, 9210, 9231, 9274	8/04/2004		60	0.105
		22/08/2005 9/04/2006 18/08/2006	37° 51' 45" N 1° 34' 23" W	60 120 90	0.15 0.119 0.122
		(3) Spain, Almería, Sierra de María, Virgen de la Cabeza, <i>Aldasoro & Alarcón</i> 5027, 9230, 9275	8/04/2006 19/08/2006	37° 40' 52" N 2° 08' 00" W	120 120

<i>E. paularense</i>	Spain, Madrid, Pinilla del Valle, <i>Aldasoro</i> & <i>Alarcón</i> 9239	01/05/2006	40° 54' 54"N	120	0.156
		05/07/2005	3° 49' 02"W	60	0.183
	Spain, Guadalajara, Cañamares, Atienza, <i>Aldasoro</i> & <i>Alarcón</i> 8835, 9246	25/08/2004	41° 12' 43"N 2° 56' 28"W	180	0.242