

SUPPORTING INFORMATION**Dispersal ability rather than ecological tolerance drives differences in range size between lentic and lotic water beetles (Coleoptera: Hydrophilidae)**

P. Arribas, J. Velasco, P. Abellán, D. Sánchez-Fernández, C. Andújar, P. Calosi, A. Millán, I.

Ribera and D.T. Bilton

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Appendix S1 Sampling localities, specimens and primers used in phylogenetic analysis of the *Enochrus bicolor* complex.

Table S1.1 Localities sampled for sequenced members of the *Enochrus bicolor* complex.

Localities	Country	Locality	Latitude	Longitude	N*
ALG_MHAD	Algeria	Oran. Mer el Hadja	35.790	-0.158	2
ENG_NOR_BROA	England	Norfolk. The Broads. Catfield Fen	52.662	1.630	1
FRA_ADG_ONGL	France	Adge. Les Onglous	43.323	3.531	1
FRA_MON_PCAM	France	Montpellier. Mauguio. Etang d'Or	43.601	4.031	1
FRA_SIG_PALM	France	Sigean. Salin de Lapalme	42.975	3.007	1
FRA_SIG_PALM2	France	Sigean. Salin de Lapalme. Mare hiposalin	42.992	3.041	1
IRE_CLA_FINA	Ireland	Clare. Finavarra. Lough Muree brackish pond	53.152	-9.118	1
ITA_SIC_SALS	Italy	Sicily. Villadoro. Affluente fiume Salso	37.639	14.188	1
ITA_SIC_TRAP	Italy	Sicily. Trapani. Saline di Trapani	37.999	12.534	1
ITA_SIC_TURV	Italy	Sicily. Cianciana. Fiume Tùrvoli	37.497	13.452	1
ITA_SIC_VACC	Italy	Sicily. Caltanissetta. Torrente Vaccarizzo, Castello	37.611	14.109	4
MOR_AGUI	Morocco	Oued El-Aguig	28.252	-11.632	1
MOR_AOUD	Morocco	Khinifiss. Oued Aoudrei	27.952	-12.181	5
MOR_BRI_AZIL	Morocco	Briech. Azilah. Saline de Azilah	35.542	-6.017	1
MOR_JOR_MGHA	Morocco	Jorf El Melha. Sidi Kacem. Oued Mghassem	34.388	-5.502	1
MOR_KENI_DICH	Morocco	Kenitra. Ditch Kenitra	35.312	-6.307	1
MOR_KHN_KHAN	Morocco	Khniiffis. Oued Khaoui Naâm	27.684	-12.221	3
MOR_TIS_TISA	Morocco	Tissa. Taounate. Salin de Tissa	34.292	-4.684	1
SPA_ALA_CARR	Spain	Álava. La Guardia. Laguna de Carralogoño	42.541	-2.566	4
SPA_ALB_CORR	Spain	Albacete. Corralrubio. Laguna de Corralrubio	38.834	-1.457	1
SPA_ALM_GATA	Spain	Almería. Cabo de Gata. Salinas de Cabo de Gata	36.779	-2.233	1
SPA_BAL_CODO	Spain	Baleares. Ibiza. Salinas de Platja Codolar	38.860	1.375	4
SPA_BAL_FONT	Spain	Baleares. Mallorca. Salinas de Ses Fontanelles	39.534	2.728	1
SPA_BAL_POLL	Spain	Baleares. Mallorca. Port de Pollensa	39.898	3.050	3
SPA_CAD_HORT	Spain	Cádiz. El Bosque. Salinas de Hortales	36.738	-5.537	1
SPA_CAD_SMAR	Spain	Cádiz. Puerto de Santa María. Salinas de Santa María	36.593	-6.181	1
SPA_COR_PRIE	Spain	Córdoba. Priego de Córdoba. Río Salado de Priego	37.407	-4.180	1
SPA_CUE_BELI	Spain	Cuenca. Belinchón. Arroyo en las Salinas	40.078	-3.043	1
SPA_CUE_MING	Spain	Cuenca. Minglanilla. Arroyo Salado en Minglanilla	39.548	-1.563	2
SPA_GUA_ALCO	Spain	Guadalajara. Alcolea de la Peñas. Arroyo salino	41.217	-2.786	1
SPA_GUA_IMON	Spain	Guadalajara. Imón. Arroyo en las Salinas de Imón	41.160	-2.730	1
SPA_HUV_PINA	Spain	Huelva. Marismas del Pinar	37.245	-6.943	1
SPA_JAE_BRUJ	Spain	Jaén. Brujuelo. Arroyo en las Salinas de Brujuelo	37.888	-3.669	3
SPA_JAE_SILE	Spain	Jaén. Siles. Arroyo Salado en Siles	38.408	-2.547	1
SPA_MUR_REVE	Spain	Murcia. Cieza. Rambla del Reventón	37.643	-1.367	1
SPA_MUR_RSAL	Spain	Murcia. Fortuna. Rambla Salada en las Salinas	38.135	-1.135	1
SPA_MUR_SANG	Spain	Murcia. Sangonera. Arroyo de las Salinas de Sangonera	37.953	-1.289	3
SPA_NAV_BARD	Spain	Navarra. Bardenas Reales. Arroyo salado	48.248	-1.607	1
SPA_NAV_MEND	Spain	Navarra. Mendavia. Barranco Salado de Mendavia	42.423	-2.150	5
SPA_NAV_YUGO	Spain	Navarra. El Yugo. Bardenas Blancas	42.246	-1.606	1
SPA_SEV_MONT	Spain	Sevilla. Montellano. Arroyo Montero	36.976	-5.693	1
SPA_TAR_GERR	Spain	Lérida. Gerri de la Sal	42.325	1.066	1
SPA_ZAR_SMAR	Spain	Zaragoza. San Marcos. Chiprana	41.242	-0.157	1
TUN_TOZ_MELA	Tunisia	Tozeur. Gafsa. Oued El Melah	34.339	8.576	3

*N, sample size.

Table S1.2 List of sequenced specimens for the *Enochrus bicolor* complex.

Specimens	Species	Localities	Date	Collector	Voucher	COI	cyt <i>b</i>	16S*	LSU
JOater_FRA_SIG_PALM2_AB235	<i>E. ater</i>	FRA_SIG_PALM2	16/10/2009	Andújar & Arribas	IBE-AB235	JN814771	JN814823	JN814885	JN81485
JObico_ALG_MHAD_AB328	<i>E. bicolor</i>	ALG_MHAD	27/05/2010	Lencina & Serrano	IBE-AB328	JN814790	JN814833	JN814898	JN81486
JObico_ALG_MHAD_AB329	<i>E. bicolor</i>	ALG_MHAD	27/05/2010	Lencina & Serrano	IBE-AB329	JN814791	JN814834	JN814899	JN81486
JObico_FRA_ADG_ONGL_AB228	<i>E. bicolor</i>	FRA_ADG_ONGL	16/10/2009	Andújar & Arribas	IBE-AB228	JN814766	JN814819	JN814880	JN81484
JObico_IRE_CLA_FINA_AB303	<i>E. bicolor</i>	IRE_CLA_FINA	23/05/2010	Ribera	IBE-AB303	JN814789	JN814832	JN814897	JN81486
JObico_ITA_SIC_TRAP_AB39	<i>E. bicolor</i>	ITA_SIC_TRAP	11/06/2007	Abellán & Picazo	IBE-AB39	JN814793	JN814836	JN814901	JN81486
JObico_SPA_ALA_CARR_AB108	<i>E. bicolor</i>	SPA_ALA_CARR	22/07/2004	Ribera & Cieslak	IBE-AB108	JN814742			
JObico_SPA_ALA_CARR_AB129	<i>E. bicolor</i>	SPA_ALA_CARR	22/07/2004	Ribera & Cieslak	IBE-AB129	JN814747			
JObico_SPA_ALA_CARR_AB46	<i>E. bicolor</i>	SPA_ALA_CARR	22/07/2004	Ribera & Cieslak	IBE-AB46	JN814796			
JObico_SPA_ALA_CARR_AB66	<i>E. bicolor</i>	SPA_ALA_CARR	22/07/2004	Ribera & Cieslak	IBE-AB66	JN814800			
JObico_SPA_ALB_CORR_AB227	<i>E. bicolor</i>	SPA_ALB_CORR	07/07/2009	Millán et col.	IBE-AB227	JN814765	JN814818		
JObico_SPA_ALM_GATA_AB232	<i>E. bicolor</i>	SPA_ALM_GATA	11/02/2010	Andújar & Arribas	IBE-AB232	JN814770	JN814822	JN814884	JN81485
JObico_SPA_BAL_CODO_AB181	<i>E. bicolor</i>	SPA_BAL_CODO	13/10/2004	Palmer & Jaume	IBE-AB181	JN814757			
JObico_SPA_BAL_CODO_AB182	<i>E. bicolor</i>	SPA_BAL_CODO	13/10/2004	Palmer & Jaume	IBE-AB182	JN814758			
JObico_SPA_BAL_CODO_AB183	<i>E. bicolor</i>	SPA_BAL_CODO	13/10/2004	Palmer & Jaume	IBE-AB183	JN814759			
JObico_SPA_BAL_CODO_AB184	<i>E. bicolor</i>	SPA_BAL_CODO	13/10/2004	Palmer & Jaume	IBE-AB184	JN814760	JN814814		
JObico_SPA_BAL_FONT_AB286	<i>E. bicolor</i>	SPA_BAL_FONT	13/12/2009	Andújar & Lencina	IBE-AB286	JN814784	JN814827	JN814893	JN81486
JObico_SPA_BAL_POLL_AB115	<i>E. bicolor</i>	SPA_BAL_POLL	11/11/2000	Ribera & Cieslak	IBE-AB115	JN814745			
JObico_SPA_BAL_POLL_AB29	<i>E. bicolor</i>	SPA_BAL_POLL	11/11/2000	Ribera & Cieslak	IBE-AB29	JN814788	JN814831	JN814896	JN81486
JObico_SPA_CUE_BELI_AB78	<i>E. bicolor</i>	SPA_CUE_BELI	08/10/2006	Millán et col.	IBE-AB78	JN814802		JN814908	
JObico_SPA_GUA_ALCO_AB93	<i>E. bicolor</i>	SPA_GUA_ALCO	21/05/2005	Millán et col.	IBE-AB93	JN814810			
JObico_SPA_GUA_IMON_AB16	<i>E. bicolor</i>	SPA_GUA_IMON	22/05/2005	Ribera & Cieslak	IBE-AB16	JN814753			
JObico_SPA_HUV_PINA_AB287	<i>E. bicolor</i>	SPA_HUV_PINA	30/01/2010	Andújar & Arribas	IBE-AB287	JN814785	JN814828	JN814894	JN81486
JObico_SPA_JAE_BRUJ_AB59	<i>E. bicolor</i>	SPA_JAE_BRUJ	27/07/2007	Millán et col.	IBE-AB59	JN814798	JN814838	JN814905	JN81487
JObico_SPA_MUR_REVE_AB58	<i>E. bicolor</i>	SPA_MUR_REVE	18/09/2007	Millán et col.	IBE-AB58	JN814797		JN814904	
JObico_SPA_NAV_MEND_AB112	<i>E. bicolor</i>	SPA_NAV_MEND	29/07/2007	Millán et col.	IBE-AB112	JN814744			
JObico_SPA_NAV_MEND_AB154	<i>E. bicolor</i>	SPA_NAV_MEND	29/07/2007	Millán et col.	IBE-AB154	JN814751			
JObico_SPA_NAV_MEND_AB155	<i>E. bicolor</i>	SPA_NAV_MEND	29/07/2007	Millán et col.	IBE-AB155	JN814752			
JObico_SPA_NAV_MEND_AB7	<i>E. bicolor</i>	SPA_NAV_MEND	29/07/2007	Millán et col.	IBE-AB7	JN814801	JN814840	JN814907	JN81487
JObico_SPA_NAV_MEND_AB91	<i>E. bicolor</i>	SPA_NAV_MEND	29/07/2007	Millán et col.	IBE-AB91	JN814809			
JObico_SPA_NAV_YUGO_AB176	<i>E. bicolor</i>	SPA_NAV_YUGO	21/07/2004	Ribera & Cieslak	IBE-AB176	JN814756			
JObico_SPA_TAR_GERR_AB170	<i>E. bicolor</i>	SPA_TAR_GERR	27/09/2008	Abellán	IBE-AB170	JN814755			
JObico_SPA_ZAR_SMAR_AB43	<i>E. bicolor</i>	SPA_ZAR_SMAR	20/07/2004	Ribera & Cieslak	IBE-AB43	JN814795		JN814903	
JOfalc_ITA_SIC_SALS_AB224	<i>E. falcarius</i>	ITA_SIC_SALS	27/07/2009	Gutiérrez-Cánovas	IBE-AB224	JN814764			
JOfalc_ITA_SIC_TURV_AB223	<i>E. falcarius</i>	ITA_SIC_TURV	26/07/2009	Gutiérrez-Cánovas	IBE-AB223	JN814763	JN814817	JN814879	JN81484
JOfalc_ITA_SIC_VACC_AB104	<i>E. falcarius</i>	ITA_SIC_VACC	12/06/2007	Abellán & Picazo	IBE-AB104	JN814741			
JOfalc_ITA_SIC_VACC_AB125	<i>E. falcarius</i>	ITA_SIC_VACC	12/06/2007	Abellán & Picazo	IBE-AB125	JN814746			
JOfalc_ITA_SIC_VACC_AB23	<i>E. falcarius</i>	ITA_SIC_VACC	12/06/2007	Abellán & Picazo	IBE-AB23	JN814768	JN814820	JN814882	JN81485
JOfalc_ITA_SIC_VACC_AB99	<i>E. falcarius</i>	ITA_SIC_VACC	12/06/2007	Abellán & Picazo	IBE-AB99	JN814812			
JOfalc_MOR_AGUI_AB280	<i>E. falcarius</i>	MOR_AGUI	03/04/2007	Millán et col.	IBE-AB280	JN814780			JN81485
JOfalc_MOR_AOUD_AB229	<i>E. falcarius</i>	MOR_AOUD	05/04/2007	Millán et col.	IBE-AB229	JN814767		JN814881	JN81484
JOfalc_MOR_AOUD_AB250	<i>E. falcarius</i>	MOR_AOUD	05/04/2007	Millán et col.	IBE-AB250	JN814776		JN814889	
JOfalc_MOR_AOUD_AB281	<i>E. falcarius</i>	MOR_AOUD	05/04/2007	Millán et col.	IBE-AB281	JN814751		JN814892	JN81486
JOfalc_MOR_AOUD_AB284	<i>E. falcarius</i>	MOR_AOUD	05/04/2007	Millán et col.	IBE-AB284	JN814782			
JOfalc_MOR_AOUD_AB285	<i>E. falcarius</i>	MOR_AOUD	05/04/2007	Millán et col.	IBE-AB285	JN814783			
JOfalc_MOR_JOR_MGHA_AB246	<i>E. falcarius</i>	MOR_JOR_MGHA	18/04/2006	Millán et col.	IBE-AB246	JN814773	JN814825	JN814887	JN81485
JOfalc_MOR_KHN_KHAN_AB248	<i>E. falcarius</i>	MOR_KHN_KHAN	04/04/2007	Millán et col.	IBE-AB248	JN814775		JN814888	JN81485
JOfalc_MOR_KHN_KHAN_AB257	<i>E. falcarius</i>	MOR_KHN_KHAN	04/04/2007	Millán et col.	IBE-AB257	JN814777			
JOfalc_MOR_KHN_KHAN_AB273	<i>E. falcarius</i>	MOR_KHN_KHAN	04/04/2007	Millán et col.	IBE-AB273	JN814778		JN814890	JN81485
JOfalc_MOR_TIS_TISA_AB247	<i>E. falcarius</i>	MOR_TIS_TISA	19/04/2006	Millán et col.	IBE-AB247	JN814774	JN814826		
JOfalc_SPA_CAD_HORT_AB221	<i>E. falcarius</i>	SPA_CAD_HORT	29/01/2010	Andújar & Arribas	IBE-AB221	JN814761	JN814815	JN814877	JN81484
JOfalc_SPA_COR_PRIE_AB81	<i>E. falcarius</i>	SPA_COR_PRIE	01/02/2008	Millán et col.	IBE-AB81	JN814805	JN814841	JN814909	JN81487
JOfalc_SPA_CUE_MING_AB139	<i>E. falcarius</i>	SPA_CUE_MING	31/01/2008	Millán et col.	IBE-AB139	JN814749	JN814813	JN814875	JN81484
JOfalc_SPA_CUE_MING_AB90	<i>E. falcarius</i>	SPA_CUE_MING	31/01/2008	Millán et col.	IBE-AB90	JN814808			
JOfalc_SPA_JAE_BRUJ_AB151	<i>E. falcarius</i>	SPA_JAE_BRUJ	21/07/2006	Millán et col.	IBE-AB151	JN814750			
JOfalc_SPA_JAE_BRUJ_AB80	<i>E. falcarius</i>	SPA_JAE_BRUJ	21/07/2006	Millán et col.	IBE-AB80	JN814804			
JOfalc_SPA_JAE_SILE_AB222	<i>E. falcarius</i>	SPA_JAE_SILE	24/10/2009	Andújar & Arribas	IBE-AB222	JN814762	JN814816	JN814878	JN81484
JOfalc_SPA_MUR_RSAL_AB79	<i>E. falcarius</i>	SPA_MUR_RSAL	21/09/2007	Millán et col.	IBE-AB79	JN814803			
JOfalc_SPA_MUR_SANG_AB110	<i>E. falcarius</i>	SPA_MUR_SANG	22/01/2008	Millán et col.	IBE-AB110	JN814743			
JOfalc_SPA_MUR_SANG_AB136	<i>E. falcarius</i>	SPA_MUR_SANG	22/01/2008	Millán et col.	IBE-AB136	JN814748			
JOfalc_SPA_MUR_SANG_AB9	<i>E. falcarius</i>	SPA_MUR_SANG	22/01/2008	Millán et col.	IBE-AB9	JN814807			
JOfalc_SPA_SEV_MONT_AB82	<i>E. falcarius</i>	SPA_SEV_MONT	21/07/2006	Millán et col.	IBE-AB82	JN814806			
JOfalc_TUN_TOZ_MELA_AB102	<i>E. falcarius</i>	TUN_TOZ_MELA	26/10/2001	Ribera & Cieslak	IBE-AB102	JN814740			
JOfalc_TUN_TOZ_MELA_AB40	<i>E. falcarius</i>	TUN_TOZ_MELA	26/10/2001	Ribera & Cieslak	IBE-AB40	JN814794	JN814837	JN814902	JN81487
JOfalc_TUN_TOZ_MELA_AB96	<i>E. falcarius</i>	TUN_TOZ_MELA	26/10/2001	Ribera & Cieslak	IBE-AB96	JN814811	JN814842		
JOnatalis_MOR_KENI_DICH_AB60	<i>E. natalensis</i>	MOR_KENI_DICH	04/04/2002	Millán et col.	IBE-AB60	JN814799	JN814839	JN814906	JN81487
JOsalomoni_SPA_NAV_BARD_AB240	<i>E. salomonis</i>	SPA_NAV_BARD	18/10/2009	Andújar & Arribas	IBE-AB240	JN814772	JN814824	JN814886	JN81485
JOsegm_FRA_MON_PCAM_AB288	<i>E. segmentinotatus</i>	FRA_MON_PCAM	11/10/2009	Andújar & Arribas	IBE-AB288	JN814786	JN814829	JN814895	JN81486
JOsegm_FRA_SIG_PALM_AB289	<i>E. segmentinotatus</i>	FRA_SIG_PALM	16/11/2009	Andújar & Arribas	IBE-AB289	JN814787	JN814830		
JOsegm_MOR_BRI_AZIL_AB274	<i>E. segmentinotatus</i>	MOR_BRI_AZIL	21/04/2006	Millán et col.	IBE-AB274	JN814779		JN814891	JN81485
JOsegm_SPA_BAL_POLL_AB162	<i>E. segmentinotatus</i>	SPA_BAL_POLL	11/11/2000	Ribera & Cieslak	IBE-AB162	JN814754		JN814876	JN81484
JOsegm_SPA_CAD_SMAR_AB231	<i>E. segmentinotatus</i>	SPA_CAD_SMAR	30/01/2010	Andújar & Arribas	IBE-AB231	JN814769	JN814821	JN814883	JN81485
JOtest_ENG_NOR_BROA_AB36	<i>E. testaceus</i>	ENG_NOR_BROA	07/05/2006	Ribera	IBE-AB36	JN814792	JN814835	JN814900	JN81486

*16S, *rrnL*+*trnL*+*NDI* fragment.

Table S1.3 Primers used in reconstructing the phylogeny of western Mediterranean species of the *Enochrus bicolor* complex.

Marker	Primer*		Sequence (5'–3')	Reference
<i>COI</i>	Jerry	F	CAACATTTATTTGATTTTTGG	Simon <i>et al.</i> (1994)
	Pat	R	TCCAATGCACTAATCTGCCATATTA	Simon <i>et al.</i> (1994)
	CHY1	F	T(A/T)GTAGCCCA(T/C)TTTCATTA(T/C)GT	Ribera <i>et al.</i> (2010)
	TOM1	R	AC(A/G)TAATGAAA(A/G)TGGGCTAC(T/A)A	Ribera <i>et al.</i> (2010)
<i>cyt b</i>	CB3	F	GAGGAGCAACTGTAATTACTAA	Barracough <i>et al.</i> (1999)
	CB4	R	AAAAGAAA(A/G)TATCATTGAGTTGAAT	Barracough <i>et al.</i> (1999)
<i>rrnL+trnL</i> <i>+ND1</i>	16SaR	F	CGCCTGTTTATCAAAAACAT	Simon <i>et al.</i> (1994)
	ND1A	R	GGTCCCTACGAATTTGAATATATCCT	Simon <i>et al.</i> (1994)
	16Sb	R	CCGGTCTGAACTCAGATCATGT	Simon <i>et al.</i> (1994)
	16Sbi	F	ACATGATCTGAGTTCAAACCGG	Simon <i>et al.</i> (1994)
	Faw ND1	R	TAGAATTAGAAGATCAACCAGC	Simon <i>et al.</i> (1994)
<i>LSU</i>	Ka	F	ACACGGACCAAGGAGTCTAGCATG	Monaghan <i>et al.</i> (2007)
	Kb	R	CGTCTGCTGTCTTAAGTTAC	Monaghan <i>et al.</i> (2007)

*F, forward; R, reverse.

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Appendix S2 Thermal windows and information about sampling localities used in dispersal and physiological measurements of *Enochrus falcarius* IP (Iberian Peninsula) and *Enochrus bicolor*.

Figure S2.1 Thermal windows of *E. falcarius* IP and *E. bicolor* constructed using mean upper thermal limit (UTL) and lower thermal limit (LTL) at each acclimation temperature (all at salinity 35 g L⁻¹).

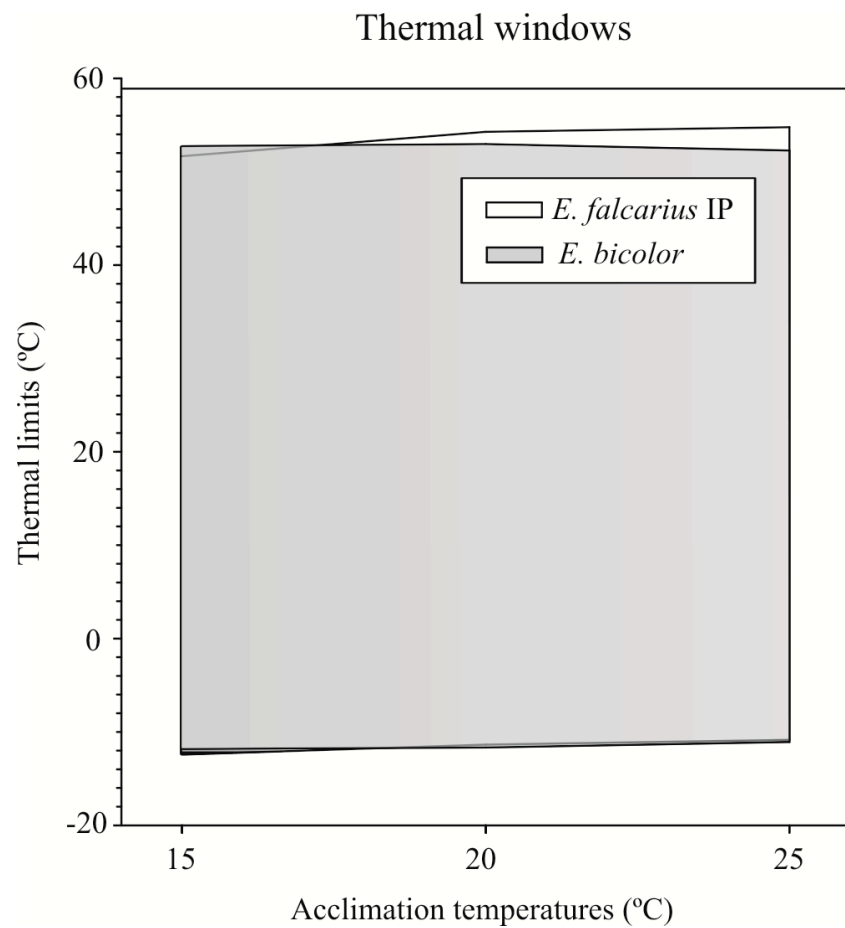


Table S2.1 Sampling localities for *E. falcarius* IP and *E. bicolor* used in measures of establishment and dispersal abilities, together with habitat parameters for Iberian populations of both species.

Species	Locality	Mean T^a(°C)* ± SD	Mean Salinity (g L⁻¹)	Salinity range (g L⁻¹)
<i>Enochrus bicolor</i>	Corralrubio, Albacete, Spain 38.1350°N 1.1370°W	23.8 ± 5.01	24.4	0.4-88.2
<i>Enochrus falcarius</i> IP	Fortuna, Murcia, Spain 38.8340°N 1.4562°W	22.9 ± 6.94	33.5	0.7-158

*T^a, ambient temperature of water.

Appendix S3 ANCOVA results for dispersal and thermal physiology measurements of the *Enochrus bicolor* complex species.

Table S3.1 Differences in wing loading (WL) and wing aspect ratio (WAR) between western Mediterranean species of the *E. bicolor* complex.

4 Species <i>E. bicolor</i> complex WL	SS	d.f.	F	P-value
Model	24.920	3	26.928	< 0.001
Intercept	2239.191	1	7258.893	< 0.001
SPECIES	24.920	3	26.928	< 0.001
Error	15.424	50		
4 Species <i>E. bicolor</i> complex WAR	SS	d.f.	F	P-value
Model	0.188	3	10.793	< 0.001
Intercept	352.652	1	60852.529	< 0.001
SPECIES	0.188	3	10.793	< 0.001
Error	0.290	50		

SS, Sum of squares; d.f., degrees of freedom; F, F-ratios; P, probability levels.

Table S3.2 Influence of species, acclimation temperature (Temperature), acclimation salinity (Salinity), and body mass on the upper thermal limit (UTL) and the lower thermal limit (LTL) for *Enochrus falcarius* IP (Iberian Peninsula) and *E. bicolor* combined.

UTL (Upper thermal limit)	SS	d.f.	F	P-value
Model	216.001	30	19.573	< 0.001
Intercept	13491.188	1	36674.403	< 0.001
Body mass	3.287	1	8.934	0.003
Species	17.698	1	48.110	< 0.001
Temperature	66.137	2	89.893	< 0.001
Salinity	27.367	4	18.598	< 0.001
Species × Temperature	51.141	2	69.511	< 0.001
Species × Salinity	11.634	4	7.906	< 0.001
Temperature × Salinity	13.331	8	4.530	< 0.001
Species × Temperature × Salinity	28.183	8	9.576	< 0.001
Error	65.848	179		
LTL (Lower thermal limit)	SS	d.f.	F	P-value
Model	148.231	30	1.805	0.010
Intercept	415.645	1	151.877	< 0.001
Body mass	16.945	1	6.192	0.014
Species	9.580	1	3.501	0.063
Temperature	16.901	2	3.088	0.048
Salinity	8.032	4	0.734	0.570
Species × Temperature	31.356	2	5.729	0.004
Species × Salinity	2.254	4	0.206	0.935
Temperature × Salinity	34.543	8	1.578	0.134
Species × Temperature × Salinity	28.935	8	1.322	0.235
Error	489.875	179		

SS, Sum of squares; d.f., degrees of freedom; *F*, *F*-ratios; *P*, probability levels.

Table S3.3 Influence of acclimation temperature (Temperature), acclimation salinity (Salinity), and body mass on the upper thermal limit (UTL) and the lower thermal limit (LTL) for *E. falcarius* IP and *E. bicolor*, respectively.

<i>E. falcarius</i> IP UTL	SS	d.f.	<i>F</i>	<i>P</i> -value
Model	172.117	15	58.383	< 0.001
Intercept	8176.609	1	41603.238	< 0.001
Body mass	1.865	1	9.491	0.003
Temperature	110.847	2	281.999	< 0.001
Salinity	32.017	4	40.726	< 0.001
Temperature × Salinity	30.220	8	19.220	< 0.001
Error	17.492	89		
<i>E. bicolor</i> UTL	SS	d.f.	<i>F</i>	<i>P</i> -value
Model	22.928	15	2.819	0.001
Intercept	5701.994	1	10516.842	< 0.001
Body mass	1.523	1	2.810	0.097
Temperature	6.959	2	6.418	0.002
Salinity	5.816	4	2.682	0.037
Temperature × Salinity	10.986	8	2.533	0.016
Error	48.254	89		
<i>E. falcarius</i> IP LTL	SS	d.f.	<i>F</i>	<i>P</i> -value
Model	107.901	15	1.887	0.035
Intercept	235.992	1	61.899	< 0.001
Body mass	5.258	1	1.379	0.243
Temperature	46.071	2	6.042	0.003
Salinity	4.903	4	0.322	0.863
Temperature × Salinity	41.676	8	1.366	0.222
Error	339.314	89		
<i>E. bicolor</i> LTL	SS	d.f.	<i>F</i>	<i>P</i> -value
Model	40.373	15	1.592	0.092
Intercept	178.686	1	105.656	< 0.001
Body mass	11.731	1	6.937	0.010
Temperature	1.319	2	0.390	0.678
Salinity	5.400	4	0.798	0.530
Temperature × Salinity	22.454	8	1.660	0.120
Error	150.517	89		

SS, Sum of squares; d.f., degrees of freedom; *F*, *F*-ratios; *P*, probability levels.