

The following supplement accompanies the article

Contrasting population genetic structures in *Amphipholis squamata*, a complex of brooding and self-reproducing sister species sharing life history traits

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Supplement. Table of the 64 haplotypes recovered in the 4 species (A1, A2, A3 and B) of the *Amphipholis squamata* complex along the French Mediterranean coast and figures showing the expansion of populations of species A1 as revealed from Bayesian Skyline plot and mismatch distribution of the 122 sequences of the mitochondrial 16S gene.

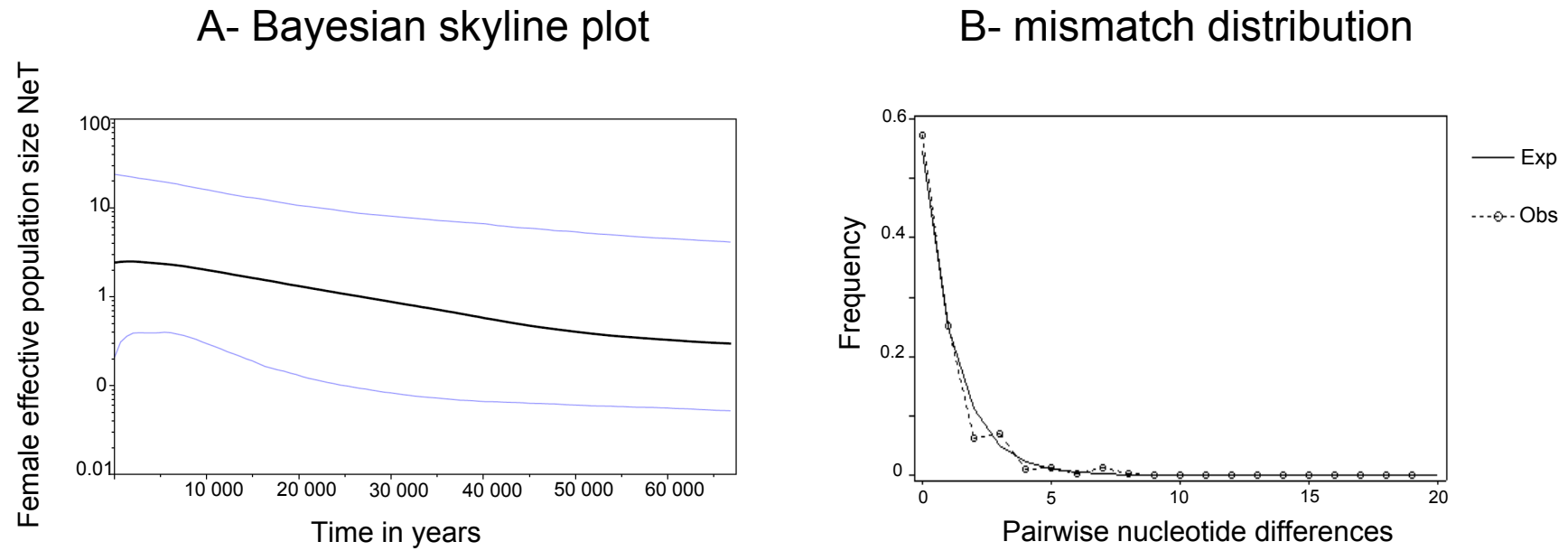
Table S1. Number of specimens per species (A1, A2, A3 and B) of the *Amphipholis squamata* complex, per locality and per haplotype of the 16S mitochondrial gene. N = Number of specimens. Sampling is separated as follows: haplotypes recovered in Boissin et al. (2008); haplotypes recovered from the spatial sampling in 2005 + Frioul and Porquerolle in 2010 and haplotypes recovered from the bathymetric sampling. Locality codes follow Table 1 in the main article.

		Boissin et al. 2008					Spatial sampling											Bathymetric sampling				
Species A1																						
Haplotype	GenBank No.	N	BAN	GOU	BRU	SCA	BAN	AGD	CAR	FRI	GOU	ALO	GIE	POR	RAP	FER	SCA	RIO	RIO_10m	RIO_20m	RIO_42m	CAS_16m
H1	EU251962	89	8	15	13	10			3	2	3	7	6	6	8		4		4			
H2	EU251963	3		2													1					
H3	EU251964	2	2																			
H4	EU251965	1	1																			
H5	EU251966	2		2																		
H6	EU251967	1			1																	
H7	EU251968	1				1																

H8	EU251969	1		1																			
H36	KT780312	1							1														
H37	KT780313	1														1							
H38	KT780314	1										1											
H39	KT780315	2										2											
H40	KT780316	1																			1		
H41	KT780317	6											2	1	1			2					
H42	KT780318	5														5							
H43	KT780319	1															1						
H44	KT780320	1														1							
H45	KT780321	1													1								
H46	KT780322	1													1								
H47	KT780323	1																			1		
total A1		122	11	20	14	11	0	0	4	2	3	10	8	9	16	1	7	0	6	0	0	0	0
Species A2																							
Haplotype	GenBank No.	N	BAN	GOU	BRU	SCA	BAN	AGD	CAR	FRI	GOU	ALO	GIE	POR	RAP	FER	SCA	RIO	RIO_10m	RIO_20m	RIO_42m	CAS_16m	
H9	EU251970	3				2												1					
H10	EU251971	16		10					1			1			3	1							
H11	EU251972	13		8		1					2					1		1					
H12	EU251973	11		8							3												
H13	EU251974	2		2																			
H14	EU251975	1		1																			
H15	EU251976	1		1																			
H48	KT780324	2																				2	
H49	KT780325	1														1							
H50	KT780326	1							1														
H51	KT780327	2														2							
total A2		53	0	30	0	3	0	0	2	0	5	1	0	3	5	0	2	0	0	0	0	2	0
Species A3																							
Haplotype	GenBank No.	N	BAN	GOU	BRU	SCA	BAN	AGD	CAR	FRI	GOU	ALO	GIE	POR	RAP	FER	SCA	RIO	RIO_10m	RIO_20m	RIO_42m	CAS_16m	
H16	EU251977	5	4																	1			
H17	EU251978	1	1																				
H18	EU251979	4				1											2			1			
H19	EU251980	76	6	1	4	1		4	18	1		1	3	5		30		2					
H20	EU251981	6	5	1																			
H21	EU251982	1			1																		
H22	EU251983	7	2					5															
H23	EU251984	99		20	7	3				16		1	4	10	27		2		7	2			
H24	EU251985	1		1																			
H52	KT780328	1																				1	
H53	KT780329	3																3					

H54	KT780330	6															6						
H55	KT780331	1							1														
H56	KT780332	1															1						
H57	KT780333	1																		1			
H58	KT780334	3																		3			
total A3		216	18	23	12	5	0	9	19	17	0	2	7	15	27	30	14	2	13	2	0	1	
Species B																							
Haplotype	GenBank No.	N	BAN	GOU	BRU	SCA	BAN	AGD	CAR	FRI	GOU	ALO	GIE	POR	RAP	FER	SCA	RIO	RIO_10m	RIO_20m	RIO_42m	CAS_16m	
H25	EU251986	11		11																			
H26	EU251987	18		6	3				3	1						3				2			
H27	EU251988	1			1																		
H28	EU251989	3		1	1								1										
H29	EU251990	12	10	1				1															
H30	EU251991	1			1																		
H31	EU251992	4	2						2														
H32	EU251993	1				1																	
H33	EU251994	5	5																				
H34	EU251995	4		1																		3	
H35	EU251996	14				1			1	6							1			5			
H59	KT780335	1																					1
H60	KT780336	1																					1
H61	KT780337	1																					1
H62	KT780338	9								1										5	2		1
H63	KT780339	1								1													
H64	KT780340	1																		1			
total B		88	17	20	6	2	0	1	6	9	0	0	1	0	0	3	1	0	13	2	3	4	

Fig. S1. Bayesian Skyline Plot and Mismatch distribution for species A1; based on 16S sequences.



LITERATURE CITED

Boissin E, Feral JP, Chenuil A (2008) Defining reproductively isolated units in a cryptic and syntopic species complex using mitochondrial and nuclear markers: the brooding brittle star, *Amphipholis squamata* (Ophiuroidea). Mol Ecol 17:1732-1744