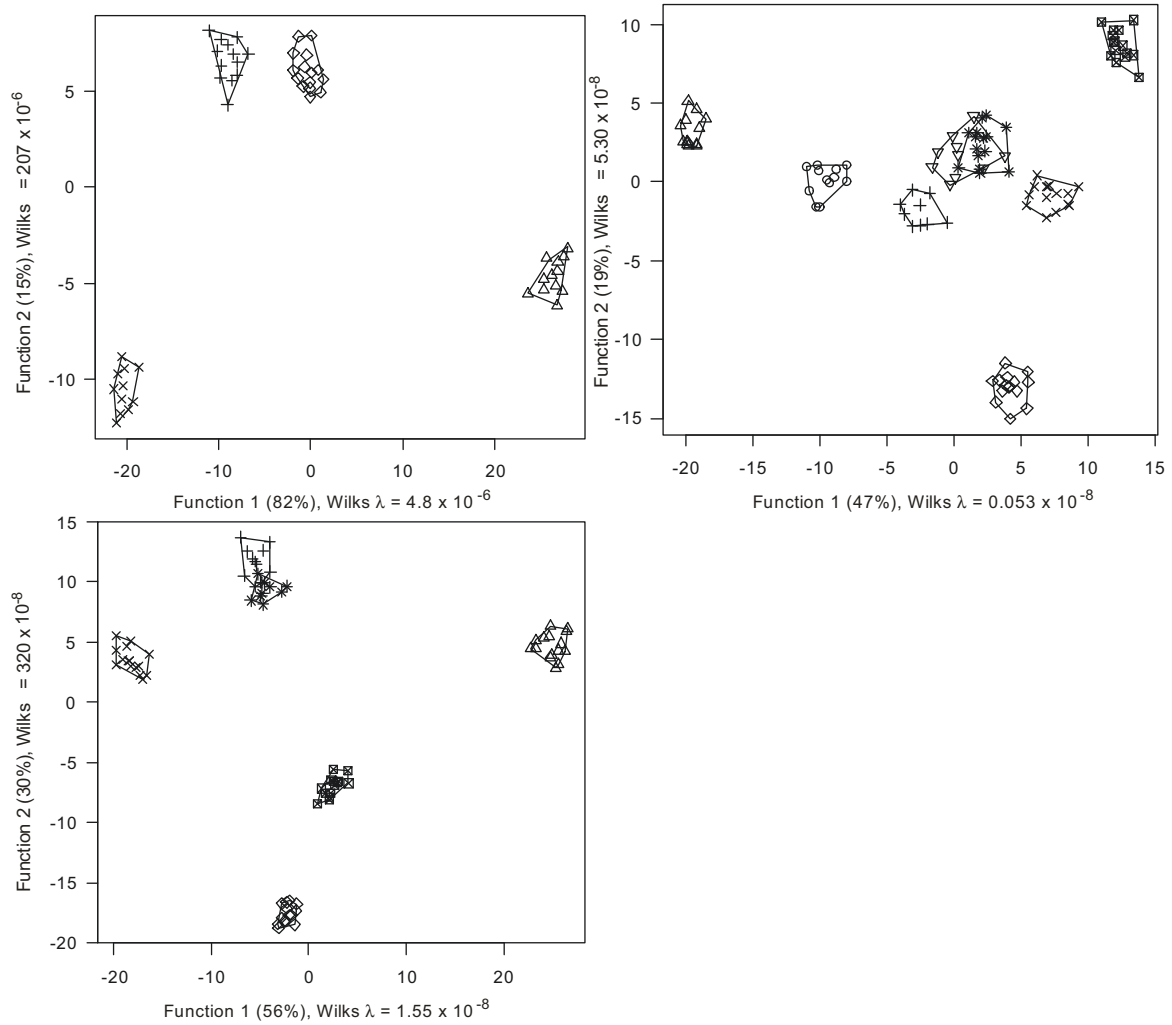


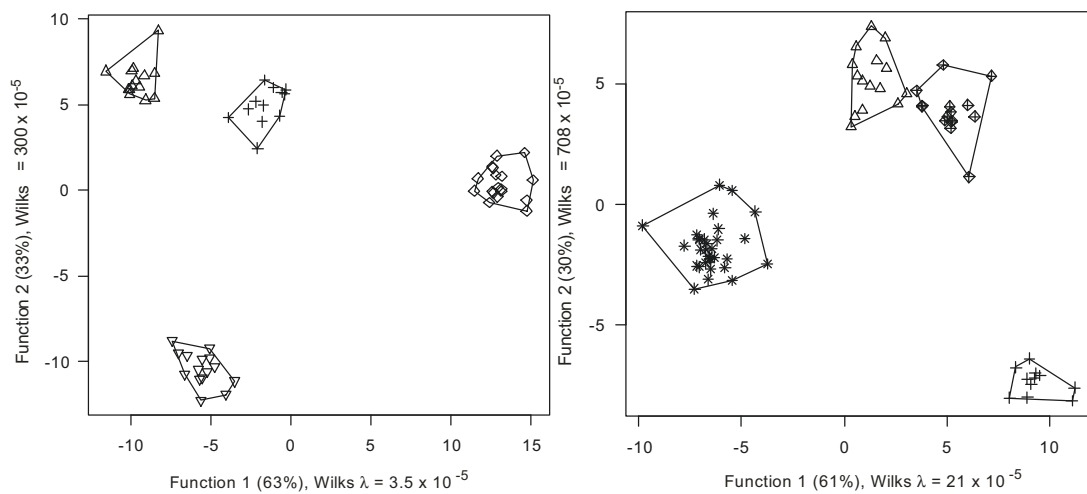
## Supporting information

**Table S1.** Euclidian distances between barycentres of groups resulting from the CDA performed with both otoliths for *Mullus barbatus barbatus* according to size-classes in the NW Mediterranean. See Figure 1 for location of sites; (–) insufficient number of individuals for the calculation of distance.

Site	Size-class	Banyuls	Port-Vendres	Agde 30–50 m	Agde 80–100 m	Rhône 30–50 m	Rhône 80–100 m	Marseille
Port-Vendres	Small	17.92						
	Medium	10.52						
	Large	19.73						
Agde 30–50 m	Small	7.64	13.90					
	Medium	7.29	17.80					
	Large	45.14	30.06					
Agde 80–100 m	Small	–	–	–				
	Medium	16.83	27.15	9.84				
	Large	30.71	19.68	15.24				
Rhône 30–50 m	Small	23.44	6.58	17.94	–			
	Medium	19.03	28.82	13.03	12.54			
	Large	24.27	6.67	32.44	24.62			
Rhône 80–100 m	Small	6.53	14.26	10.39	–	20.60		
	Medium	10.19	20.18	4.67	7.17	15.13		
	Large	28.37	8.65	25.06	19.22	7.56		
Marseille	Small	30.34	26.66	22.98	–	23.86	32.90	
	Medium	23.59	32.49	18.32	10.85	23.31	13.83	
	Large	36.67	16.96	22.30	22.06	14.56	8.31	
Cassis	Small	–	–	–	–	–	–	–
	Medium	11.91	21.76	6.31	6.02	15.51	1.77	12.08
	Large	23.81	22.27	27.07	12.38	28.77	26.24	31.73



**Fig. S1.** First plan resulting from the CDA between various sites of the NW Mediterranean Sea for *Mullus barbatus barbatus* according to fish size: small (top left), medium (top right) and large individuals (below).  $\diamond$  Rhône (30 m),  $\Delta$  Port-Vendres, + Agde (30 m),  $\boxtimes$  Marseille,  $\times$  Agde (100 m), o Banyuls, \* Cassis and  $\nabla$  Rhône (100 m).



**Fig. S2.** First plan resulting from the CDA between various sites of the NW Mediterranean Sea for *Mullus surmuletus* according to fish size: medium (left) and large individuals (right).  $\Delta$  Port-Vendres, + Agde (30 m),  $\diamond$  Rhône (30 m),  $\nabla$  La Ciotat and \* Cassis.