Supplementary Materials

Table S1. Location and date information for the stations sampled. GOM: Gulf of Mexico; MED: Western Mediterranean Sea. Latitude and longitude are presented in decimal degree system and dates expressed as month/day/year.

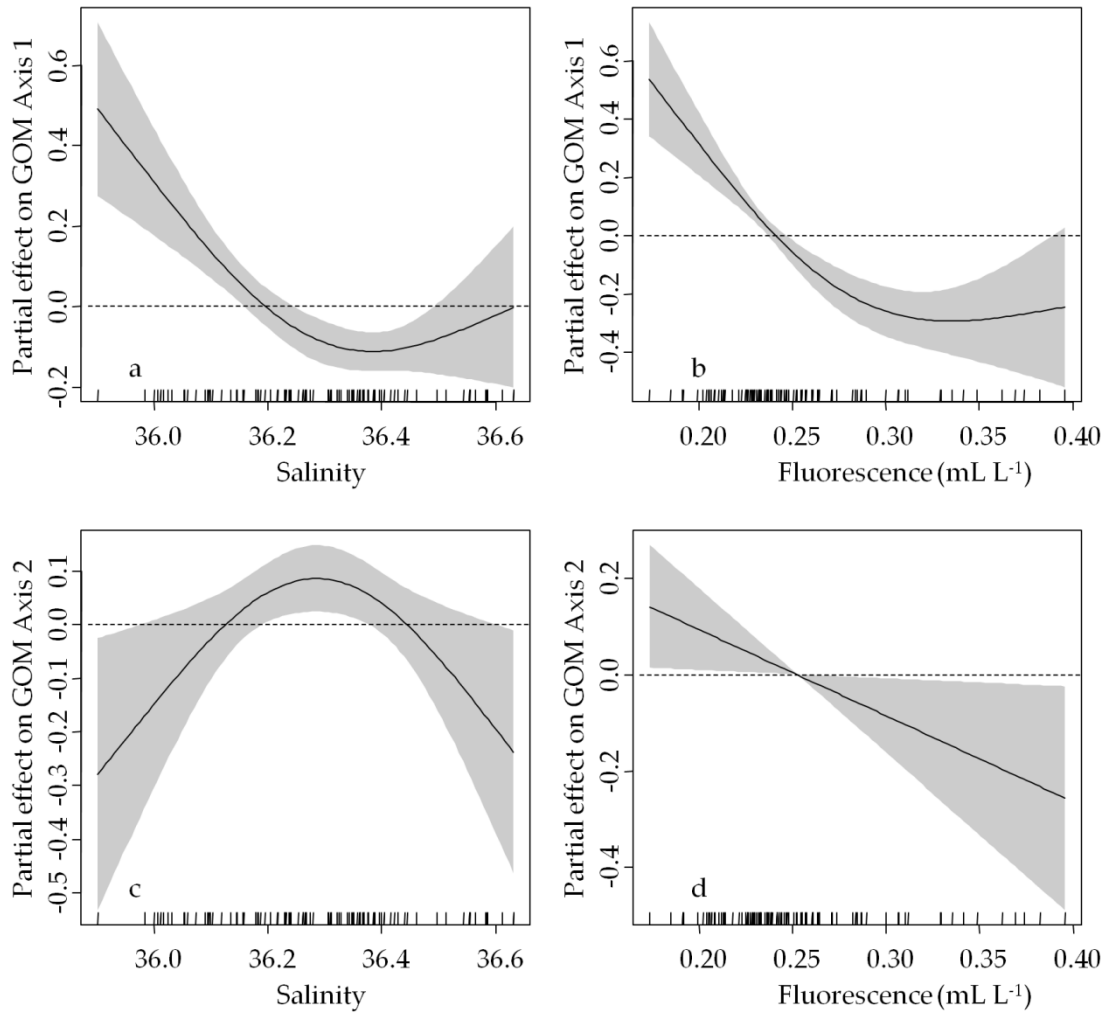| Region	Cruise	Station ID	Latitude	Longitude	Date	Time
GOM	GU1201	130	27.500	-88.873	5/16/2012	15:26
GOM	GU1201	151	26.502	-92.002	5/20/2012	0:55
GOM	GU1201	161	26.999	-94.497	5/21/2012	20:32
GOM	GU1201	165	27.002	-94.608	5/22/2012	3:03
GOM	GU1201	184	27.155	-88.993	5/26/2012	9:48
GOM	GU1201	185	27.171	-88.758	5/26/2012	13:43
MED	ATAME2012	288	39.009	2.993	7/09/2012	22:45
MED	ATAME2013	301	39.054	3.048	7/10/2012	10:08
MED	ATAME2014	304	39.057	3.083	7/10/2012	15:04
MED	ATAME2015	309	39.092	3.122	7/11/2012	19:57
MED	ATAME2016	319	39.170	3.223	7/13/2012	6:12
MED	ATAME2017	350	38.998	2.736	7/13/2012	3:24
MED	ATAME2018	351	39.096	2.740	7/13/2012	5:48
MED	ATAME2019	360	38.827	2.622	7/13/2012	16:28
MED	ATAME2020	366	38.915	2.736	7/14/2012	0:50

Figure S1. Best-fit covariates of the GAM analysis performed on the Gulf of Mexico NMDS Axis 1 (**a**,**b**) and (**c**,**d**) Axis 2 as response variables (**c**,**d**). Fitted lines (solid line), 95% confidence intervals (grey shaded areas) and partial residuals are shown.
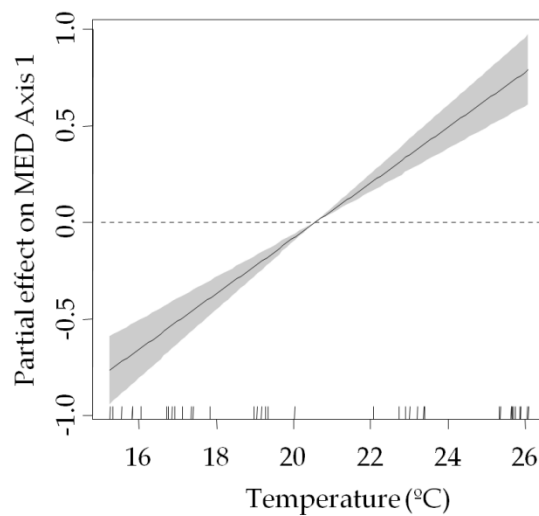

Figure S2. Best-fit covariate of the GAM analysis performed on the Mediterranean NMDS Axis 1. Fitted lines (solid line), 95% confidence intervals (grey shaded areas) and partial residuals are shown.