

Supplementary Table 1 Information on the sampling sites and microplastic counts (MPs) as well as environmental data (seawater temperature, wind and current mean speeds and directions, precipitation) for each sampling date.

Sample site	ID	GPS coordinates	Sampling Date	Manta net mesh size (μm)	MPs (items km^{-2})	Seawater temperature ($^{\circ}\text{C}$)	Wind		Current		Rainfall (mm)		
							Mean Speed (m s^{-1})	Direction	Mean Speed (m s^{-1})	Direction			
North Current	#1	42°48'25.6" N 6°04'39.5" E	17/02/14	780	164,032 8,947 202,803	14	6.1	W	0.25	S	-		
			10/03/14	780	915,598 102,893 377,274	15	1.9	SE	0.40	W	-		
			24/06/15	780	11,930 22,368	20	4.4	S/SE	0.35	N	-		
			22/12/15	780	101,402	15	0.8	E/SE	0.35	W	0.2		
Marseille	#2	43°16'04.0" N 5°20'01.0" E	17/06/14	780	1,161,646 317,626	20	2.5	NW	0.05	-	-		
			21/01/16	780	17,894	13	1.4	NE	0.05	SW	-		
	#3	43°18'00.5" N 5°19'17.0" E	11/02/16	780	23,859	13	1.9	N/NE	0.05	S	-		
			25/02/16	780	10,438	13	1.9	NE	0.10	-	-		
			07/03/16	330	37,280 10,438	13	6.1	NW	0.15	SE	-		
			09/03/16	330	14,912	12	3.1	NW	0.05	-	-		
			17/03/16	330	26,842	13	5.6	SE	0.50	NW	2.0		
			14/04/16	330	22,368	15	2.5	NW	0.10	N	-		
			#4	43°15'45.9" N 5°17'58.0" E	21/01/16	780	11,930	13	1.4	NE	0.05	SW	-
					11/02/16	780	11,930	13	1.9	N/NE	0.05	S	-
25/02/16	780	8,947			13	1.9	NE	0.10	-	-			
07/03/16	330	5,965			13	6.1	NW	0.15	SE	-			

					7,456						
			09/03/16	330	7,456	12	3.1	NW	0.05	-	-
			17/03/16	330	14,912	13	5.6	SE	0.50	NW	2.0
			14/04/16	330	8,947	15	2.5	NW	0.10	N	-
Rhône River plume	#5	43°19'15.4" N 4°51'20.5" E	18/03/14	780	61,139 59,648 152,103 399,642	12	3.6	S	0.80	NW	-
			06/05/14	780	52,192 46,227 99,911 32,806	14	3.1	SE	0.60	N	-
Rhône River	#6	43°40'37.1" N 4°37'13.8" E	19/03/14	780	26,842 37,280	7	1.4	N	-	-	-
			09/04/14	780	44,736 31,315 7,456	11	2.5	N	-	-	1.0
			07/05/14	780	43,245	15	2.5	N/NW	-	-	-
			11/06/14	780	14,912	17	3.1	N/NE	-	-	-
			19/06/14	780	68,595	17	3.9	N	-	-	-

Sources: Surface current speed and direction were extracted from the Mars 3D model (<http://marc.ifremer.fr>), wind speed and directions and seawater temperature data from <http://www.infoclimat.fr> and rainfall information from <http://www.meteofrance.com>.