

Table S1. Sediment granulometry and concentrations of major elements and terrigenous elements in sediments of Port Carnon (C) and Port Camargue (PC)

	Port	PORT CAMARGUE							PORT CARNON						
	Station	PC1	PC2	PC3	PC4	PC5	PC6		C1	C2	C3	C4	C5	C6	C7
Granulometry (%)															
Composition of the <2mm fraction	> 500 μm	2.7	1.1	18.2	2.5	<1	1		10				10		
	500 to 250 μm	24.2	5.8	31	13.2	17.9	6.4		25	10	10		10	10	
	250 to 163 μm	26.3	10.3	18.6	15.8	20.9	9.3		25	10	10	10	15	25	10
	163 to 63 μm	21.9	14.9	8.4	18.3	18.9	17.2		40	40	40	10	25	25	10
	<63 μm	24.9	68	23.8	50.2	41.4	66			40	40	65	25	40	65
	< 2 μm	1.5	3.6	<1	1.4	1.2	1.6					15	15		15
Major elements															
Al	% dry sediment	3.8	4.4	4.5	4	3.7	3.3		4.2	4.3	5.5	5.3	4.2	4.3	5.3
Fe		2.2	2.2	2.1	2.1	1.7	1.4		1.6	2	2.8	3.2	2.4	2.8	3.1
Terrigenous elements															
Cs	mg/kg	5.52	4.78	4.46	4.7	4.34	4.37		3.55	5.62	8.9	10.56	8.15	9.11	9.92
Li		43.06	39.94	38.63	36.43	32.56	33.05		33.04	42.49	61.46	67.49	53.2	57.47	65.7
Rb		78.67	76.23	77.26	77.02	76.62	71.5		98.25	85.36	114.2	131.55	101.08	114.11	123.28

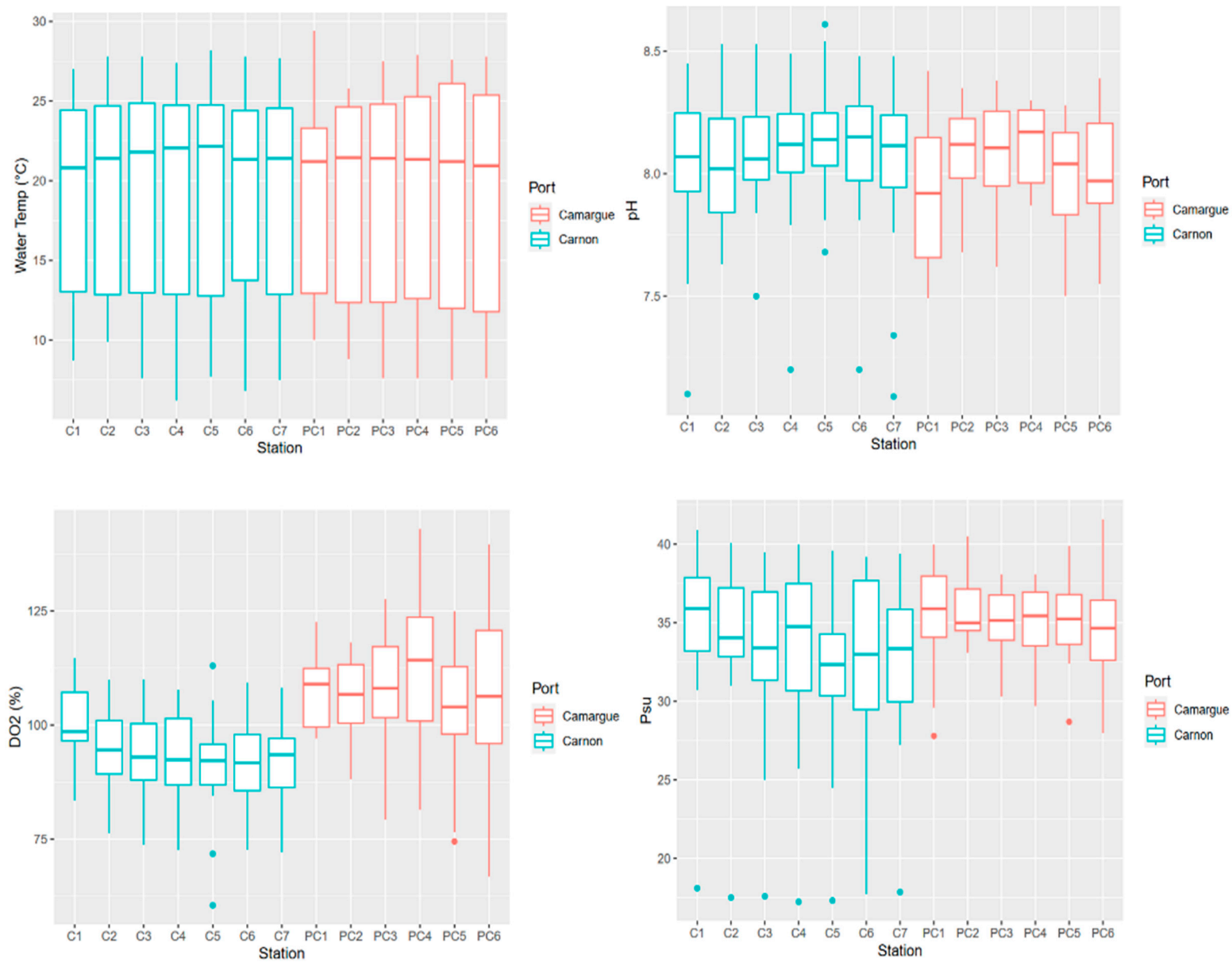


Figure S1 : Boxplots of physicochemical parameters in Port Carnon (C blue color) and Port Camargue (PC red color)

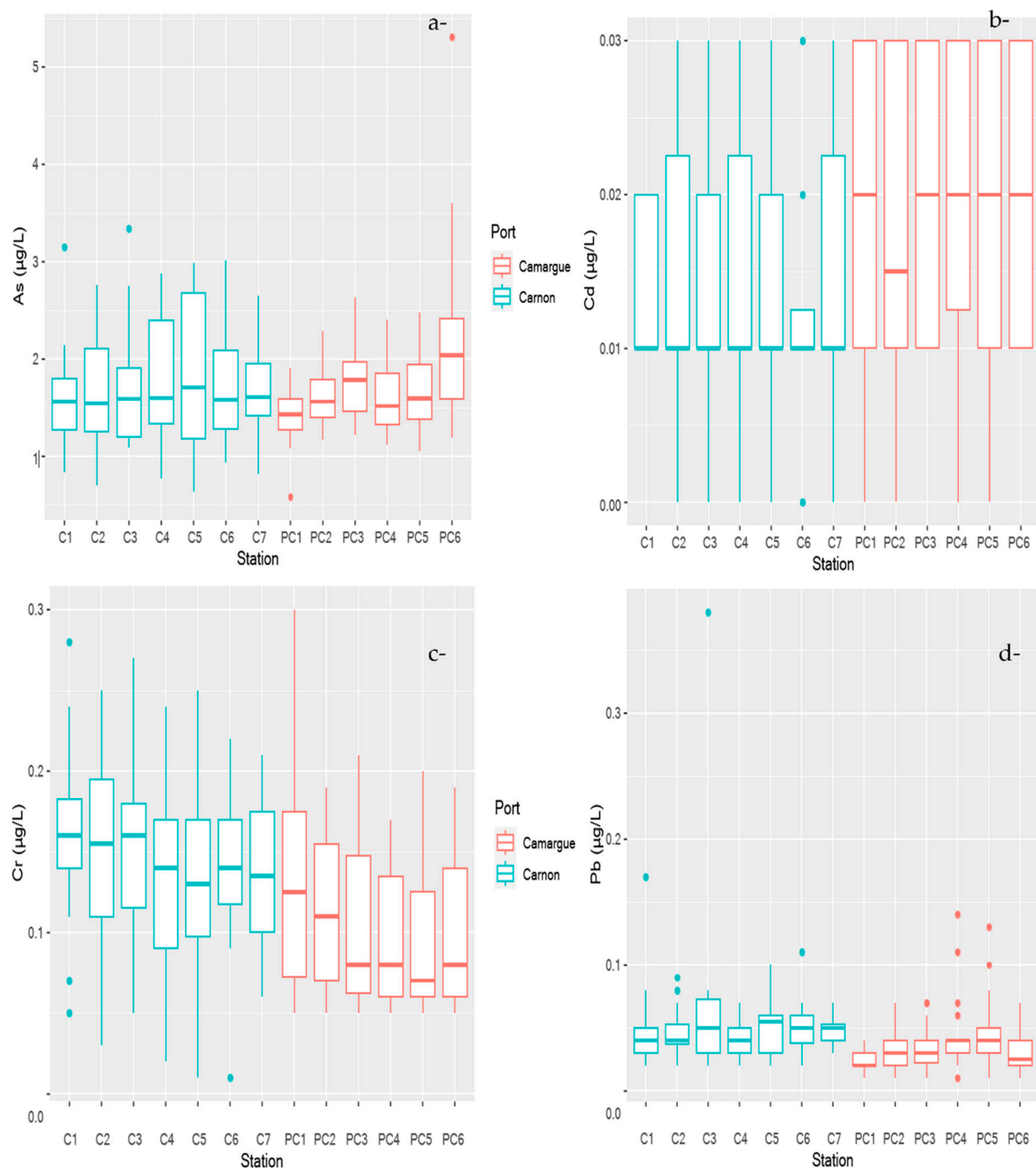


Figure S2. Box plots of TME concentrations As (a), Cd (b), Cr (c) and Pb (d) in samples of sea water of Port Carnon (C blue color) and Port Camargue (PC red color)