



Estimation of Polycyclic Aromatic Hydrocarbons pollution in Mediterranean Sea from Volturno River, Southern Italy: distribution, risk assessment and loads.

Paolo Montuori^{1*}, Elvira De Rosa¹, Fabiana Di Duca¹, Donatella Paola Provvvisiero¹, Pasquale Sarnacchiaro², Antonio Nardone¹, Maria Triassi¹

¹Department of Public Health, “Federico II” University, Via Sergio Pansini n° 5, 80131 Naples, Italy

²Department of Law and Economics, University of Roma “Unitelma Sapienza”, Viale Regina Elena 295, Rome 0016, Italy

Table S1. Environmental data of water samples from sampling sites.

Site Number Identification	Sampling Site	pH				Conducibility (mS/cm)				Temperature (°C)				Salinity (‰)				Fresh and Sea water ratio			
		Apr	Jul	Nov	Feb	Apr	Jul	Nov	Feb	Apr	Jul	Nov	Feb	Apr	Jul	Nov	Feb	Apr	Jul	Nov	Feb
1 (river water)	Volturno River Source	7.4	7.9	7.7	7.3	15.2	14.3	10.1	9.8	20.6	24.6	18.5	15.1	9.8	8.4	6.6	6.9	0.26	0.22	0.17	0.18
2 (sea water)	River Mouth at 500mt North	7.0	7.2	7.3	7.2	17.2	18.6	11.5	16.3	22.4	23.9	17.6	16.3	10.7	11.3	7.8	11.7	0.28	0.30	0.21	0.31
3 (sea water)	River Mouth at 500mt Central	7.5	7.5	7.8	6.9	16.6	15.5	10.2	13.5	20.6	23.5	19.2	14.5	10.7	9.3	6.6	10.0	0.28	0.24	0.17	0.26
4 (sea water)	River Mouth at 500mt South	7.1	7.5	7.0	7.5	12.8	15.3	8.0	10.9	19.8	24.3	18.0	14.9	8.3	9.0	5.2	7.8	0.22	0.24	0.14	0.21
5 (sea water)	River Mouth at 1000mt North	6.9	7.4	6.8	7.3	20.4	21.8	19.3	16.2	21.4	22.8	18.3	15.2	13.2	13.7	13.4	11.9	0.35	0.36	0.35	0.31
6 (sea water)	River Mouth at 1000mt Central	7.8	7.0	7.5	7.0	24.9	21.7	22.0	18.5	18.9	24.7	19.0	15.5	17.4	13.1	15.2	13.7	0.46	0.34	0.40	0.36
7 (sea water)	River Mouth at 1000mt South	7.7	7.1	7.3	7.6	23.2	25.2	21.9	20.6	22.3	23.2	17.9	14.6	14.9	16.0	15.5	15.7	0.39	0.42	0.41	0.41
8 (sea water)	River Mouth at 1500mt North	7.0	7.6	7.1	6.8	27.4	35.9	32.8	29.4	21.4	24.9	18.8	15.4	18.2	22.7	23.6	22.8	0.48	0.60	0.62	0.60
9 (sea water)	River Mouth at 1500mt Central	7.2	7.8	7.9	7.3	32.1	36.1	31.4	28.9	22.1	25.1	19.6	14.9	21.4	22.7	22.1	22.6	0.56	0.60	0.58	0.59
10 (sea water)	River Mouth at 1500mt South	7.4	7.7	7.2	7.8	31.6	33.3	31.0	30.4	19.6	24.3	19.5	15.4	22.2	21.2	21.8	23.6	0.58	0.56	0.57	0.62