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SUPPLEMENTARY MATERIAL TO

A comparative study on ecological risk assessment of some potentially toxic elements accumulation in surface sediment of stagnant and running water ecosystems in Meriç delta wetland, Turkish Thrace

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STUDY AREA

The study area is located between latitude 40° 42' N and longitude 26° 04' E (Fig. S-1). The Dalyan Lagoon Lake is formed by alluvial flows from Meriç River and is fed by water flows from Meriç River and Aegean Sea. It has an area of 3.7 km² and its length is 5 km. The Meriç River originates in Bulgaria and forms part of the Greece-Turkey border. The Meriç River with a catchment area of more than 56.000 km² (covers 14.600 km² in Turkey) is 480 km long. It merges with the Ergene River in the İpsala district and flows into the Aegean Sea near Enez.

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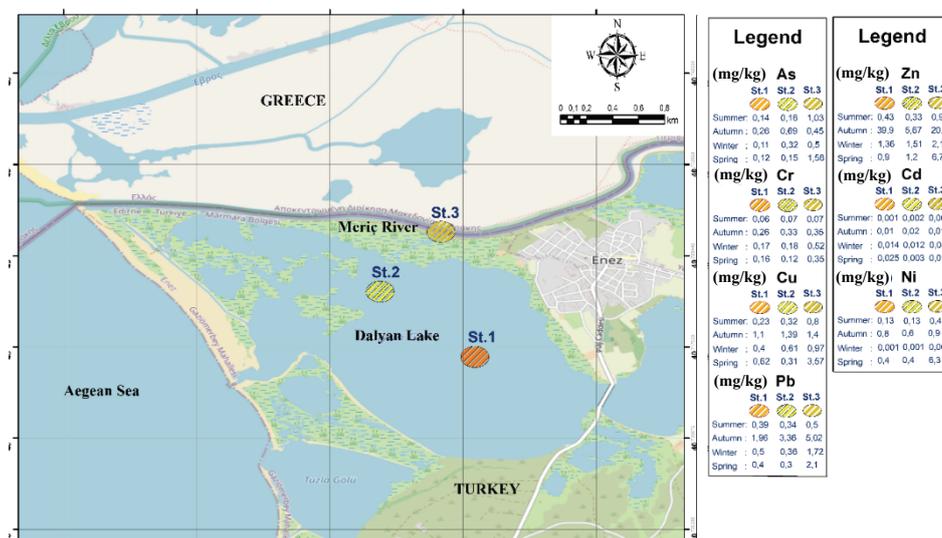


Fig. S-1. The study area, sampling stations, and concentration of the investigated elements (As, Cr, Cu, Pb, Zn, Cd, Ni).

TABLE S-I. The toxic element risk index values (PERI and BRI) in sediments of the Dalyan Lagoon Lake (St: Station)

Seasons	St	E_r^i							RI	ERM- Q_i							mERM- Q_i
		As	Cr	Cu	Pb	Zn	Cd	Ni		As	Cr	Cu	Pb	Zn	Cd	Ni	
Spring	1	0.08	0.005	0.103	0.08	0.011	1.5	0.04	1.82	0.001	0.001	0.002	0.004	0.003	0.0028	0.008	0.003
	2	0.1	0.004	0.052	0.06	0.015	0.2	0.04	0.45	0.002	0.001	0.001	0.003	0.004	0.0003	0.008	0.003
	3	1.04	0.012	0.595	0.42	0.084	0.6	0.63	3.38	0.018	0.002	0.009	0.019	0.025	0.0011	0.126	0.029
Summer	1	0.093	0.002	0.038	0.078	0.005	0.06	0.01	0.29	0.002	0.0004	0.001	0.004	0.002	0.0001	0.003	0.001
	2	0.107	0.002	0.053	0.068	0.004	0.12	0.01	0.37	0.002	0.0005	0.001	0.003	0.001	0.0002	0.003	0.001
	3	0.587	0.002	0.133	0.1	0.012	0.24	0.04	1.11	0.012	0.0005	0.002	0.005	0.003	0.0004	0.008	0.004
Autumn	1	0.17	0.008	0.183	0.392	0.499	0.6	0.08	1.94	0.003	0.002	0.003	0.018	0.148	0.001	0.016	0.027
	2	0.36	0.011	0.232	0.672	0.071	1.2	0.06	2.71	0.008	0.002	0.004	0.031	0.021	0.002	0.012	0.011
	3	0.241	0.011	0.233	1.004	0.261	0.6	0.09	2.44	0.005	0.002	0.004	0.046	0.077	0.001	0.018	0.022
Winter	1	0.073	0.006	0.067	0.1	0.017	0.84	0.0001	1.1	0.001	0.001	0.001	0.005	0.005	0.002	0.00002	0.002
	2	0.213	0.006	0.102	0.072	0.019	0.72	0.0001	1.13	0.004	0.001	0.002	0.003	0.006	0.001	0.00001	0.002
	3	0.333	0.017	0.162	0.34	0.027	2.58	0.0003	3.46	0.006	0.004	0.002	0.016	0.008	0.005	0.00006	0.006