

Supplement 2

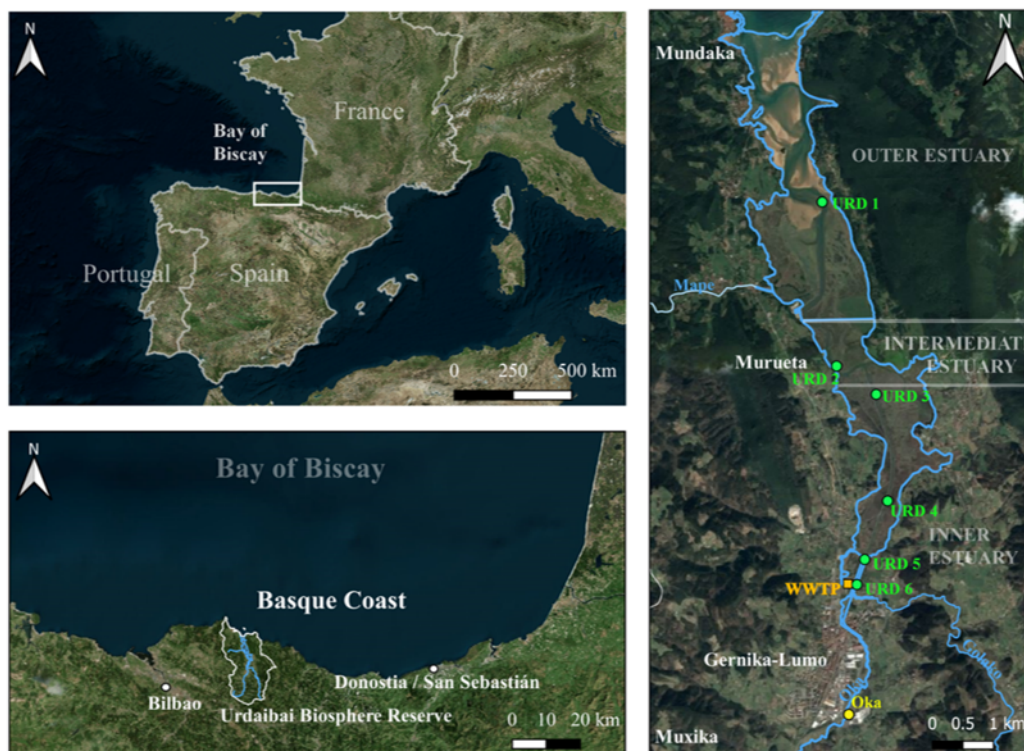


Fig. S1. Location and sampling points of Urdaibai estuary, from Bilbao et al. (2023).

**Table S1.** Summary table of the Sim% obtained by PIGMENTUM for the Urdaibai estuary dataset before (B) and after (A) correction was applied. Median Sim% are displayed for the entire dataset and individually for each water mass and trophic status categories. Additionally, the percentage of samples belonging to each Sim% category was determined.

		Median SIM%		% OF SAMPLES IN EACH SIM% CATEGORY									
				<45%		45-60%		60-75%		75-90%		>90%	
		B	A	B	A	B	A	B	A	B	A	B	A
	<b>Sample set</b>	79	82	3	1	8	6	28	25	43	42	18	25
<b>Trophic status (Chl <i>a</i>)</b>	<b>Ultraoligotrophic</b>	72.8	75.4	6	2	8	8	47	39	35	45	4	6
	<b>Oligotrophic</b>	80.9	82.2	5	2	9	5	21	23	49	54	16	16
	<b>Mesotrophic</b>	79.7	82.1	1	1	9	8	25	22	44	44	21	26
	<b>Eutrophic</b>	77.2	84.0	3	2	9	3	31	29	34	31	22	34
	<b>Hypertrophic</b>	78.5	90.3	0	0	4	0	21	17	58	29	17	54
<b>Water masses (salinity)</b>	<b>Freshwater</b>	70.4	76.5	5	0	25	15	40	25	30	50	0	10
	<b>Oligohaline</b>	70.8	74.4	6	6	6	0	61	50	17	28	11	17
	<b>Mesohaline</b>	79.2	83.7	3	0	9	5	24	23	44	35	20	37
	<b>Polihaline</b>	80.1	82.4	2	2	7	6	26	24	44	45	20	23
	<b>Euhaline</b>	79.6	80.9	3	1	7	5	26	26	49	49	16	19

#### LITERATURE CITED

Bilbao J, Pavludi C, Blanco-Rayón E, Franco J, Madariaga I, Seoane S (2023) Phytoplankton community composition in relation to environmental variability in the Urdaibai estuary (SE Bay of Biscay): Microscopy and eDNA metabarcoding. *Mar Environ Res* 106175. <https://doi.org/10.1016/j.marenvres.2023.106175>