

Table S1. Abundance (cells/L) and relative abundances (%) of phytoplankton groups determined by microscopy analysis.

Sampling station	Sample type	Sampling date	Group	Abundance (cells/L)	Relative Abundance (%)
Conero Riviera	mucilage	27 June	Diatoms	4.38×10^7	43.02%
Conero Riviera	mucilage	27 June	Dinoflagellates	2.59×10^6	2.55%
Conero Riviera	mucilage	27 June	Coccolithophores	0×10^0	0.00%
Conero Riviera	mucilage	27 June	Phytoflagellates	5.54×10^7	54.43%
Conero Riviera	mucilage	11 July	Diatoms	3.05×10^7	49.45%
Conero Riviera	mucilage	11 July	Dinoflagellates	1.81×10^6	2.93%
Conero Riviera	mucilage	11 July	Coccolithophores	3.38×10^5	0.55%
Conero Riviera	mucilage	11 July	Phytoflagellates	2.91×10^7	7.07%
Conero Riviera	mucilage	12 July	Diatoms	4.43×10^7	33.53%
Conero Riviera	mucilage	12 July	Dinoflagellates	4.98×10^6	3.77%
Conero Riviera	mucilage	12 July	Coccolithophores	4.58×10^5	0.35%
Conero Riviera	mucilage	12 July	Phytoflagellates	8.24×10^7	62.35%
Gulf of Trieste	mucilage	16 July	Diatoms	1.38×10^6	30.52%
Gulf of Trieste	mucilage	16 July	Dinoflagellates	2.48×10^5	5.48%
Gulf of Trieste	mucilage	16 July	Coccolithophores	0×10^0	0.00%
Gulf of Trieste	mucilage	16 July	Phytoflagellates	2.90×10^6	64.00%
Conero Riviera	mucilage	21 July	Diatoms	7.36×10^7	53.54%
Conero Riviera	mucilage	21 July	Dinoflagellates	9.74×10^6	7.09%
Conero Riviera	mucilage	21 July	Coccolithophores	0×10^0	0.00%
Conero Riviera	mucilage	21 July	Phytoflagellates	5.41×10^7	39.37%
Conero Riviera	mucilage	9 August	Diatoms	6.58×10^7	66.82%
Conero Riviera	mucilage	9 August	Dinoflagellates	7.94×10^5	0.81%
Conero Riviera	mucilage	9 August	Coccolithophores	4.17×10^2	0.00%
Conero Riviera	mucilage	9 August	Phytoflagellates	3.19×10^7	32.37%
Gulf of Trieste	surrounding water	5 July	Diatoms	8.23×10^4	47.02%
Gulf of Trieste	surrounding water	5 July	Dinoflagellates	1.87×10^4	10.67%
Gulf of Trieste	surrounding water	5 July	Coccolithophores	1.20×10^4	6.86%
Gulf of Trieste	surrounding water	5 July	Phytoflagellates	6.20×10^4	35.45%
Conero Riviera	surrounding water	11 July	Diatoms	4.63×10^5	17.21%
Conero Riviera	surrounding water	11 July	Dinoflagellates	1.77×10^3	0.07%
Conero Riviera	surrounding water	11 July	Coccolithophores	0×10^0	0.00%
Conero Riviera	surrounding water	11 July	Phytoflagellates	2.23×10^6	82.73%
Conero Riviera	surrounding water	12 July	Diatoms	5.09×10^6	58.58%
Conero Riviera	surrounding water	12 July	Dinoflagellates	1.12×10^5	1.29%
Conero Riviera	surrounding water	12 July	Coccolithophores	2.06×10^4	0.24%
Conero Riviera	surrounding water	12 July	Phytoflagellates	3.47×10^6	39.89%
Gulf of Trieste	surrounding water	16 July	Diatoms	2.13×10^5	19.61%
Gulf of Trieste	surrounding water	16 July	Dinoflagellates	3.54×10^4	3.26%
Gulf of Trieste	surrounding water	16 July	Coccolithophores	4.50×10^3	0.41%
Gulf of Trieste	surrounding water	16 July	Phytoflagellates	8.32×10^5	76.71%
Gulf of Trieste	surrounding water	19 July	Diatoms	9.79×10^4	31.06%
Gulf of Trieste	surrounding water	19 July	Dinoflagellates	3.57×10^4	11.33%
Gulf of Trieste	surrounding water	19 July	Coccolithophores	1.36×10^4	4.33%

Gulf of Trieste	surrounding water	19 July	Phytoflagellates	1.68×10^5	53.29%
Conero Riviera	surrounding water	21 July	Diatoms	1.43×10^5	41.20%
Conero Riviera	surrounding water	21 July	Dinoflagellates	3.33×10^3	0.96%
Conero Riviera	surrounding water	21 July	Coccolithophores	1.25×10^3	0.36%
Conero Riviera	surrounding water	21 July	Phytoflagellates	2.00×10^5	57.48%
Conero Riviera	surrounding water	9 August	Diatoms	1.40×10^7	73.39%
Conero Riviera	surrounding water	9 August	Dinoflagellates	2.04×10^5	1.07%
Conero Riviera	surrounding water	9 August	Coccolithophores	8.84×10^3	0.05%
Conero Riviera	surrounding water	9 August	Phytoflagellates	4.87×10^6	25.49%