

Supplementary Materials

Picoplankton Distribution and Activity in the Deep Waters of the Southern Adriatic Sea

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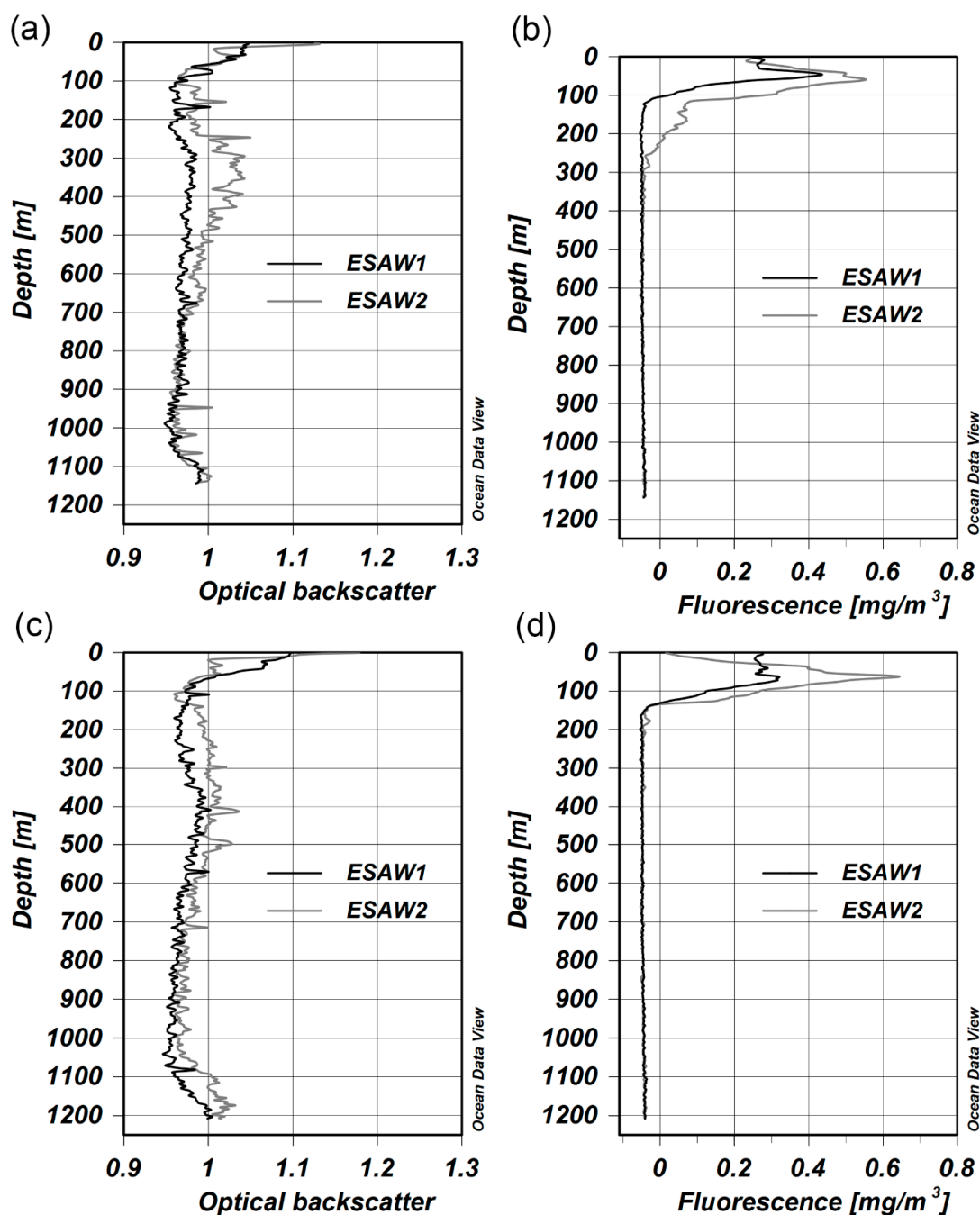


Figure S1. Vertical profiles of optical backscattering and fluorescence. Station 8: panels (a) and (b). Station 9: panels (c) and (d). Periods: December 2015 ESAW1 (black line) and April 2016 ESAW2 (grey line).

Table S1. Summary of the picoplankton community abundances.

Abundances	December 2015		April 2016	
	min	max	min	max
<i>Synechococcus</i> ($\times 10^3$ cell mL ⁻¹)	0	93.93	0	7.30
<i>Prochlorococcus</i> ($\times 10^3$ cell mL ⁻¹)	0	47.09	0	2.06
Picoeukaryotes ($\times 10^3$ cell mL ⁻¹)	0	2.96	0	1.70
Bacteria ($\times 10^6$ cell mL ⁻¹)	0.03	0.24	0.04	0.22

Table S2. Summary of the correlations between picoplankton community (*Synechococcus*-SYN, *Prochlorococcus*-PRO, picoeukaryotes-PE, total bacteria HB, HNA HB, LNA HB, VLP, HNF, bacterial production BP) and environmental variables (Temperature-T, nutrients). Acronym n.s. stands for not significant.

n = 26; p < 0.005	NITRITES	NITRATES	PHOSPHATES	AMMONIUM	SILICIC ACID	TDN	TDP	DOC	T	VLP	HNF
HB	0.43	-0.63	-0.48	n.s.	n.s.	-0.65	-0.65	0.74	0.62	0.42	0.67
HNA HB	-0.56	0.79	0.68	n.s.	0.51	0.56	0.51	-0.73	-0.74	-0.47	-0.81
LNA HB	0.56	-0.79	-0.68	n.s.	-0.51	-0.56	-0.51	0.73	0.74	0.47	0.81
PRO	n.s.	n.s.	n.s.	0.40	n.s.	n.s.	n.s.	n.s.	n.s.	0.46	n.s.
SYN	n.s.	n.s.	n.s.	0.51	n.s.	n.s.	n.s.	n.s.	n.s.	0.47	n.s.
PE	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	0.43	0.48	0.60
BP	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	0.43	0.42	n.s.	0.60

Table S3. Summary of the principal component analysis (PCA) of the picoplankton groups and environmental variables.

Statistics	Axis 1	Axis 2	Axis 3	Axis 4
Eigenvalues	0.4483	0.1775	0.0942	0.0745
Explained variation (cumulative)	44.83	62.58	72.00	79.46