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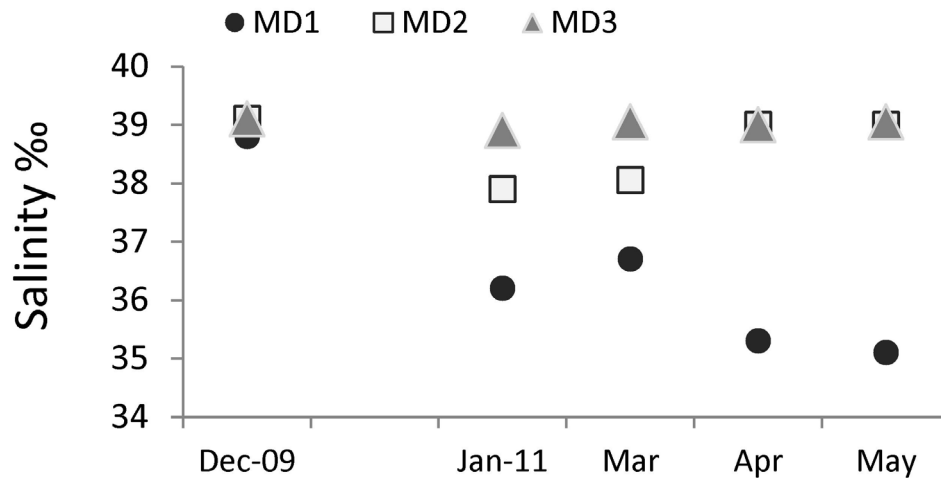
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*Supplementary Data*

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**Supp. Fig. S.1.** Temporal variability of salinity at the surface layer of the three stations in North Aegean Sea (mean integrated values for the layer 0.20m).

**Supp. Table S.1.** Integrated biomass (calculated down to 50 m,  $\mu\text{gC L}^{-1}$ ) of microbial populations in the North Aegean Sea, at all stations (MD1, MD2, MD3) during sampling months. HBA: heterotrophic bacteria, CYANO: cyanobacteria *Synechococcus* and *Prochlorococcus*, AF: autotrophic flagellates, HF: heterotrophic flagellates, CIL: ciliates.

	HBA	CYANO	AF	HF	CIL
<b>MD1</b>					
Dec 09	306.9	212.6	84.9	33.9	-
Jan 11	586.3	222.4	129.5	79.4	14.6
Mar 11	482.2	51.7	48.2	41.2	10.0
Apr 11	687.4	173.5	275.3	122.9	22.5
May 11	829.4	247.1	154.7	82.2	21.1
<b>MD2</b>					
Dec 09	-	118.7	49.5	23.4	-
Jan 11	445.5	131.7	99.2	50.4	30.5
Mar 11	438.8	84.2	80.7	38.2	12.8
Apr 11	670.9	166.6	89.2	61.7	18.6
May 11	465.8	325.2	102.6	110.2	31.5
<b>MD3</b>					
Dec 09	258.2	177.3	29.9	11.5	-
Jan 11	436.9	96.4	83.8	55.1	39.8
Mar 11	355.4	64.5	66.7	35.2	3.4
Apr 11	639.1	248.4	89.0	53.4	26.0
May 11	410.0	258.4	82.3	58.5	45.9