Spatial patterns of biphasic ectoenzymatic kinetics related to biogeochemical properties in the Mediterranean Sea.

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Supplementary Material

Figure S1. a) Distribution of total aminoacids (TAA, bars, left scale) and TAA-N/DON ratio (dots, right scale). b) Distribution of total combined carbohydrates (TCHO, bars, left scale) and TCHO-C/DOC ratio (dots, right scale). At each station four data are presented, corresponding to, from left to right, ‘surf’, ‘dcm’, ‘liw’ and ‘mdw’ layers, respectively. At stations ST10, ST1 and ST2, DON data at ‘mdw’ and ‘liw’ layers were not available.

Figure S2. Distribution of bacterial production (BP, a) and bacterial abundances (BA, b). At each station four data are presented, corresponding to, from left to right, ‘surf’, ‘dcm’, ‘liw’ and ‘mdw’ layers, respectively. BP data are not available for ‘liw’ layer at stations ST2 and ST4, and ‘mdw’ layer at station FAST, ST2, ST4, ST6.
Fig S1
heterotrophic bacterial production

bacterial abundances

Fig S2
Table S1. Average standard deviations and ranges of biogeochemical parameters, nitrates (NO3), nitrites (NO2), dissolved inorganic phosphate (DIP), total chlorophyll a (TChl a), dissolved organic carbon (DOC), dissolved organic nitrogen (DON), dissolved organic phosphorus (DOP), total combined amino acids (TAA), total combined carbohydrates (TCHO), at the four layers sampled.*LWCC technique, ** classical method

| Parameter | Surface | DCM | Liw layers | Mdw waters |
|-----------|---------|-----|------------|------------|
| NO3 μM    | 0.013 ± 0.018 | 0.088 ± 0.59 | 7.38 ± 2.57 | 8.29 ± 1.30 |
| NO2 nM    | 0.27 – 1.75 | 4.54 – 9.15 |
| DIP nM*, µM** | 10 ± 4* | 35 ± 30* | 0.29 ± 0.13** | 0.36 ± 0.07** |
| TChl a µg l⁻¹ | 0.08 ± 0.04 | 0.54 ± 0.15 | nd | nd |
| DOC μM    | 71 ± 4 | 62 ± 3 | 51 ± 4 | 45 ± 3 |
| DON μM    | 5.7 ± 1.8 | 5.1 ± 1.2 | 3.6 ± 0.3 | 3.2 ± 0.4 |
| DOP μM    | 0.05 ± 0.03 | 0.05 ± 0.04 | 0.04 ± 0.01 | 0.04 ± 0.01 |
| TAA nM    | 216 ± 43 | 206 ± 31 | 76 ± 23 | 52 ± 14 |
| TCHO nM   | 595 ± 43 | 351 ± 73 | 219 ± 55 | 427 ± 315 |

Ranges: *LWCC technique, ** classical method.