Supplementary Material

Table S2. Relationship between the hyperiid community and environmental variables based on specific selection and R2 criterion using a distance-based linear model (DistLM). The marginal test (A) shows the significance of each variable with percentage of variation (% var.). The sequencial test (B) consider the percentage of variation (% var) and the contribution all environmental variables to cumulative variation (Cumul% var) at the model. The specific selection are shows in the Figure 7.

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| **(A) MARGINAL TEST** |
| **Variable** | **Pseudo-F** | **p** | **% var.** |  |  |
| Temperature (T) | 2.4005 | 0.003 | 12.37 |  |  |
| Salinity (S) | 4.1617 | 0.001 | 19.66 |  |  |
| Mixed Layer Depth (MLD) | 3.2229 | 0.002 | 15.93 |  |  |
| Dissolved Oxygen (OD) | 2.7267 | 0.003 | 13.82 |  |  |
| Chlorophyll-a (Chl-a) | 2.0883 | 0.008 | 10.94 |  |  |
| net primary production (PP) | 2.3133 | 0.009 | 11.97 |  |  |
| Nitrate (NO3) | 3.9115 | 0.001 | 18.7 |  |  |
| Phosphate (PO4) | 1.2972 | 0.197 | 7.08 |  |  |
| **(B) SEQUENTIAL TESTS** |
| **Variable** | **R^2** | **Pseudo-F** | **p** | **% var..** | **Cumul% var.** |
| T | 0.12373 | 2.4005 | 0.004 | 12.37 | 12.37 |
| S | 0.22839 | 2.1701 | 0.002 | 10.46 | 22.83 |
| MLD | 0.27971 | 688 | 0.385 | 5.13 | 27.97 |
| OD | 0.3442 | 1.3766 | 0.186 | 6.44 | 34.42 |
| Chl-a | 0.3777 | 0.70109 | 0.737 | 3.35 | 37.77 |
| PP | 0.42477 | 0.98072 | 0.447 | 4.7 | 42.47 |
| NO3 | 0.45102 | 0.526 | 0.853 | 2.62 | 45.1 |
| PO4 | 0.4651 | 0.2635 | 0.979 | 1.4 | 46.51 |